



Simple and Scalable Wi-Fi Access Point Device Management



User's Guide

VigorAP Management User's Guide

Version: 1.0 Firmware Version: V0.9.7 (For future update, please visit DrayTek web site) Date: October 17, 2016

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Please read the license screen in the installation wizard. You must accept the terms of the license in order to install VigorAPM.

Be a Registered Owner

Web registration is preferred. You can register your Vigor router via http://www.DrayTek.com.

Firmware & Tools Updates

Due to the continuous evolution of DrayTek technology, all routers will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents.

More update, please visit www.draytek.com.

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Part I Installation

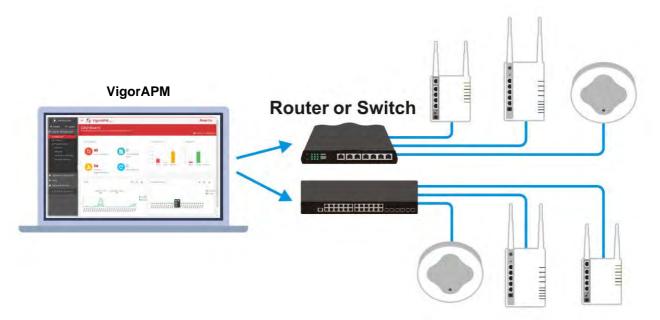


This part will introduce VigorAPM and guide to install the software on your host.

I-1 Introduction

VigorAPM, a central AP management software, is able to manage VigorAPs connected to Switch/Router. With VigorAPM, 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 VigorAPM manages VigorAPs via switch or router:



(Support Model	Firmware Version	
	VigorAP 900	FW:V1.1.8.2	
	VigorAP 902	FW:V1.1.7.3	
	VigorAP 810	FW:V1.1.7.2	
	VigorAP 910C	FW:V1.1.7.2	

System Requirements for VigorAPM:

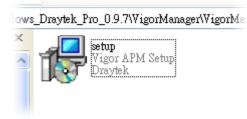
- OS: Windows / Linux
- CPU: Intel Core i3-6300 Processor (4M Cache, 3.80 GHz)
- Memory: 3 G memory (DDR4)
- HDD: 400 G HD (STAT3 128MB Cache)
- Switch or Router
- VigorAP

VigorAPM can manage VigorAP more than 100 devices.

I-2 Installation for VigorAPM

Follow the steps below.

1. Click Setup to run VigorAPM setup wizard.



2. When the following dialog appears, click Next.



3. Set the maximum memory and minimum memory based on the physical installation for guaranteeing JAVA operation. Default settings are "512" and "128".

j₽ Setup - Vigor APM	
Maximum And Minimum Memory What is your maximum and minimum memory?	
Please specify your maximum and minimum memory, then click Next. Maximum Memory:	
512	
Minimum Memory:	
128	
< <u>B</u> ack <u>N</u> ext >	Cancel

4. Setup HTTP port and HTTPS port, we'll suggest using other port number instead of common ports (80 and 443) to prevent conflict.

jo Setup - Vigor APM	
Http And Https Port What is your http and https port?	
Please specify your http and https port, then click Next. Http Port:	
8080	
Https Port: 8443	
0443	
< <u>B</u> ack <u>N</u> ext >	Cancel

5. Select the directory that VigorAPM should be installed and click Next.

1 Setup - Vigor APM
Select Destination Location Where should Vigor APM be installed?
Setup will install Vigor APM into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\Vigor APM Browse
At least 339.3 MB of free disk space is required.
< <u>B</u> ack <u>N</u> ext > Cancel

6. Determine the program name of VigorAPM for you to start up. Then click Next.

1🗟 Setup - Vigor APM
Select Start Menu Folder Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
Vigor APM Browse
< <u>B</u> ack <u>N</u> ext > Cancel

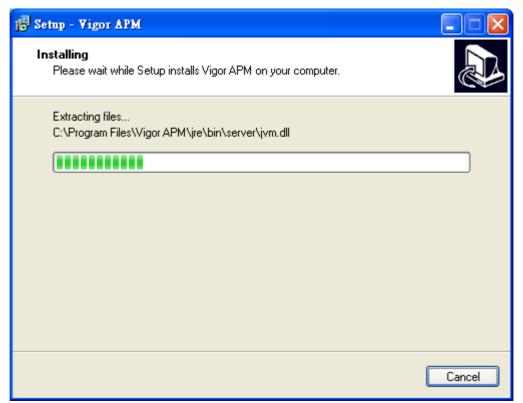
7. In this dialog, check the box of "Create a desktop icon" for your necessity. Click Next.

1🖶 Setup - Vigor APM
Select Additional Tasks Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing Vigor APM, then click Next. ✓ Create a <u>desktop icon</u> Other tasks: ✓ Allow Vigor APM access through Windows Firewall(Recommended)
< <u>B</u> ack <u>N</u> ext > Cancel

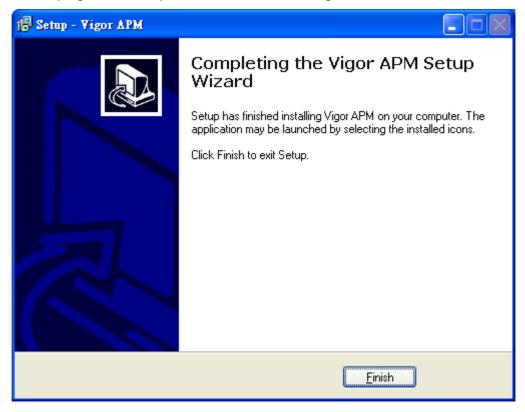
8. Now, the program is ready to install necessary features and files to your computer. Please click Install to start.

i Setup - Vigor APM
Ready to Install Setup is now ready to begin installing Vigor APM on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location: C:\Program Files\Vigor APM
Start Menu folder: Vigor APM
Additional tasks: Additional icons: Create a desktop icon Other tasks: Allow Vigor APM access through Windows Firewall(Recommended)
 ✓ ✓
< <u>B</u> ack Install Cancel

9. Please wait for a while to complete the installation.



10. Now the program has completed the installation of VigorAPM. Click Finish to exit it.



I-3 Registering VigorAPM

Before making configuration for VigorAPM, the system will guide you to register VigorAPM in MyVigor web site first.

1. Open any browser (e.g., Firefox) and type "localhost:port number" as URL; or double click the shortcut of VigorAPM from your desktop.



2. The login page of VigorAPM will be shown as the following:

Dray Tek	с.сом
E	
1	root
	•••••
Q	English
C Rememb	er Me Sign in
	Convright © DrayTek Corn

- 3. Please type "root" as user name and "admin123" as password. Then click Sign in.
- 4. When the following page appears, click Activate.

DrayTek.com
()
License Expire
Your license is invalid or expired. Please go to license server to activate your license !!
Cancel Activate
Copyright © DrayTek Corp

5. A login page for MyVigor web site will pop up automatically.



Please take a moment to register. Membership Registration entitles you to upgrade firmware for your purchased product and receive news about upcoming products and services!

Once you receive the DrayTek membership, welcome your further login to advise us of your opinion about DrayTek product. Your precious suggestions will be of further help for innovation and enhancement. By joining MyVigor, your data will be handled carefully and not passed onto any 3rd party unrelated organizations. Your data will only be used/accessed by DrayTek Corp and regional offices/agents within your own country.

	Language : English 💌
	UserName : carrieni
	Password :
	Auth Code : 324 324 Forgotten password? Login
 Pie	Don't have a MyVigor Account ? <u>Create an account now</u> Become the MyVigor member, you can receive the e-newsletter update. ease join customer survey after you are a member! Your opinion is very appreciated.
Error	Message : The username [] is not recognized or the account has not been Activated
ļ	Customer Service : (888) 3 697 2727 or email to : <u>webmaster@dravtek.com</u>
D	If you do not have any account, simply click <u>Create an account nov</u> create a new one for using the service provided by MyVigor web sit

6. MyVigor will verify and authenticate if the user account you typed is allowed to access into the web site. If yes, the following screen will appear. Check the box of "I have read and understand the above Agreement" and click "I am understand that later changed".

Dray Tek	🕹 Login User : carrieni (Logout) My Vig	jor
 About Us Wy Information Vigor Series Product Registration ▲ Customer Survey 	 The Privacy and Electronic Communications (EC Directive) Regulations 2003 (PECR) define rules about sending advertising and marketing by electronic means, such as by email, fax, picture, telephone, text, video messages, or by using an automated calling system. The basic definition of consent also applies for PECR Regulation 2 (3) incorporates definitions from European Directive 2002/58/EC (the e-privacy directive on which PECR are based), and the directive mentions that "consent by a user or subscriber corresponds to the data subjects" consent in Directive 95/46/EC". According to the Australian SPAM ACT 2003, the US CAN-SPAM Act of 2003, Ley Organica 15/1999, de 13 de diciembre, de Proteccion de Datos de Caracter Personal in Spain, German Bundesdatenschutzgesetz, Japanese regulations. TAIWAN regulations and directives as regards personal data protection in other countries, we shall I have read and understand the above Agreement. (Use the scroil bar to view the entire agreement) 	
Copyrights ® DrayTek Corp.	Update my privacy settings I am understand that later changed	

7. Type a nickname for VigorAPM and click Add.

Dray Tek	ة.	Login User : carrieni (Logout)		MyVigo
D About Us	My Information - My Products			
My Information Vigor Series Product Registration Customer Survey	Registration Device :	*Nickname: Carrie_APM Registration Date: 09-12-2016 Serial number: APM-00065DE4D8E	Add	Last login time : 2016-09-12 13:50:35 Last login from : 111.251.222.175
				Rows : 10 💌 Page : 1 💌
	Serial Number / Host ID	Device Name	Model	Note
	<u>111900325027</u>	2130	Vigor2130	
	2013030811172502	vigor2760	Vigor2760	
	2015022415571701	Vigor2132ac	Vigor2132	
	2015030413341201	Vigor2925ac	Vigor2925	

8. Type a name for identification in the field of Nickname and click Submit. You can see the following screen. Click OK.

Your device has been successfully	y added to the database.



9. In this page, click the serial number link (in this case, it is APM-xxxxxxxxx).

	ဖိ Lo	ogin User : carrieni (Logout)		MyVigo
D About Us	My Information - My Products			
My Information				Last login time : 2016-09-12
🗘 Vigor Series				13:50:35
🌢 Customer Survey				Last login from : 111.251.222.175
				Rows : 10 💌 Page : 1 💌
	Serial Number / Host ID	Device Name	Model	Note
	<u>111900325027</u>	2130	Vigor2130	
	2013030811172502	vigor2760	Vigor2760	
	2015022415571701	Vigor2132ac	Vigor2132	
	2015030413341201	Vigor2925ac	Vigor2925	
	APM-00055DE4D8EE	Carrie_APM	VigorAPM	

10. You will get a device information page as shown below. If you are the new user of VigorAPM, you can get a free charge of one year service of VigorAPM. Simply click the Trial button.

Dray Tek		🎄 Lo	ogin User : carrieni	(Logout)			MyVigo
D abaut lie	My Information - My I	Products					
 About Us My Information Vigor Series Customer Survey 	Device Information Device Name : Carrie_APM Host ID : apm-00055de4dlee Model : VigorAPM Series Rename Transfer Back						
	Device's S Service	ervice E: Provider	xpired License	Status	Start Date	Expired Date	Nodes Note
	APM	DT-APM	Trial	On			
	After the trial period	l, contact your l	ocal DrayTek dealer	/distributor for	purchasing the form	al edition of WCF se	nvice.
		Cyren	(Commtouch)		BPjM	fr	agFINN
	Type (blacklist/whitelist)	Blacklist (customer can block/pass.)	choose category to		ne website will be ers will be passed.)	Whitelist (only some pred others will be blo	efine website pass, icked.)
	Region	Global		All German s	peaking countries	All German spea	king countries
	Website	http://www.cyre	en.com/	http://www.bu	ndespruefstelle.de/	http://www.fragfir	ın.de
	Trial license	One month		One year		Till 2014/12/31	
Copyrights © DrayTek Corp.	Official license	Agent/Draytek	sales	From MyVigo	r	Will issue later-	

11. Form the following screen, check the box of "I have read and accept the above...." and click Next.

Dray Tek	🎍 Login User : carrieni (Logout) My Vie
D About Us	Confirm Message
 Wy Information Vigor Series Customer Survey 	User Name : carrient Serial Number : apm-00055de448ee Model : VigorAPM SELECT TS. CardName AS CardName, DC. dstatus AS STATUS, SP.spname AS SPNAME FROM TmpSerCard AS TS, DraytekCardTB AS DC, ServiceProvider AS SP VMERE TS. DevService_DSID=137352*AND TS. DraytekCardTB_CID=DC. CID AND DC dstatus+valid*AND TS. ServiceProvider SPID=SP SPID
	DrayTek VigorAPM Series End-User License Agreement IMPORTANT: DrayTek IS WILLING TO LICENSE THE ENCLOSED SOFTWARE TO YOU ONLY UPON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS CONTAINED IN THIS LICENSE AGREEMENT. PLEASE READ THE TERMS CAREFULLY BEFORE COMPLETING THE INSTALLATION PROCESS AS INSTALLING THE SOFTWARE WILL INDICATE YOUR ASSENT TO THEM. IF YOU DO NOT AGREE TO THESE TERMS, THEM DRAYFAK IS UMWILLING TO LICENSE THE SOFTWARE TO YOU, IN WHICH EVENT YOU SHOULD RETURN THE UNINSTALLED SOFTWARE AND PACKAGING TO THE PLACE FROM WHICH IT WAS ACQUIRED, AND YOUR MONEY WILL BE REFUNDED. BY JOINING MYVIGOR, YOUR DATA WILL BE HANDLED CAREFULLY AND NOT PASSED ONTO ANY 3RD PARTY UNRELATED ORGANIZATIONS YOUR DATA WILL BE HANDLED CAREFULLY AND NOT PASSED ONTO ANY 3RD PARTY UNRELATED ORGANIZATIONS YOUR DATA WILL BE USED/ACCESSED BY DRAYTEK CORP AND REGIONAL OFFICES/AGENTS WITHIN YOUR OWN COUNTRY. 1. Grant of License for Personal Use DrayTek grants you a non-exclusive, non-transferable license to use the program with which this license is distributed (the "Software"), including any documentation files accompanying the Software ("Documentation"), for internal business use only, for up to the number of users specified in sales order and imoice. You have the right to make one backup copy of the Software and Documentation solely for archival, back-up or disaster recovery purposes. You shall not exceed the scope of the license granted hereunder: Any rights not expressly granted by DrayTek to you are reserved by DrayTek, and all implied licenses are disclaimed. 2. Ownership You have no ownership rights in the Software. Rather, you have a license to use the Software as long as this License Agreement remains in full force and effect. Ownership of the Software, Documentation and all intellectual property rights therein shall remain at all times with DrayTek and its licenses. Any other use of the Software as yong at the soft ware as a violation of this License Agreement. 3. Proprietary Notices
Copyrights © DrayTek Corp.	✓ I have read and accept the above Agreement. (Please check this box). Next

12. In the page below, click Register.



13. When the VigorAPM License Information page appears, the service is ready for you to use. Click Login to APM to use VigorAPM service.

r ay Tek		
VigorAPM License	Information	
Operation	1000 : License Key OK	
License id	00018615	
Start date	2016-09-12	
Expire date	2017-09-12	
Max node	00000100	
Trial license	Yes	
	Login to APM	

14. The login page will appear as follows.

Dray Tek.com		1
L Username	or APM	
Password Control Contro Control Control Control Control Control Control Con	•	
Remember Me	Sign in	
Copyright @	∂ DrayTek Corp	
		~

I-4 Accessing Web Page of VigorAPM

- 1. Open any browser (e.g., Firefox) and type "localhost:8080" as URL; or double click the shortcut of VigorAPM from your desktop.
- 2. Please type "root/admin123" as the Username/Password and click Sign In.

1	Username
	Password
Ø	English
Remen	iber Me Sign in
	Copyright © DrayTek Corp

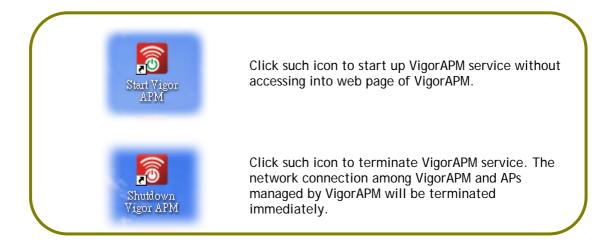
3. Now, the Main Screen will appear.

Administrator	≡ 💱 VigorAPM 0.9.7			Dray Tek
 Setting Logout VigorAP Management 	Dashboard Dashboard gives you quick access to f	frequently used info		🐗 Home 🔉 Dashboard
Dashboard AP Status AP Maintenance	Unread Events		Access Points	Rogue APs
Backup Restore Firmware Upgrade Remote Reboot	40 Loss Connection	0 Profile Setting Error	30 30 20 10 11	8 8 0 4 2
	54 Firmware Upgrade Failure	C 0 Reboot Error	0 <u>1</u> Off-line On-line Unknown	0 Rogue Friendly Unknown
 VigorAP Configuration Tools 	Traffic	C 0 m	Wireless Clients	C O m.
© 居易科技 DrayTek	Total Tx: 7.37 Tota GB	I Rx: 12.64 GB Tx(GB)	1	■ 2.4 GHz ■ 5 GHz
		■ Rx(GB)		

~

I-5 Start / Shutdown VigorAPM Service

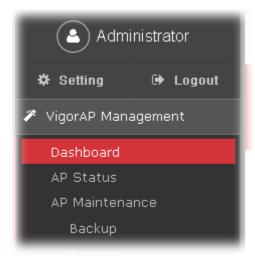
After installing VigorAPM on your computer, you will have the following icons displayed on your desktop.



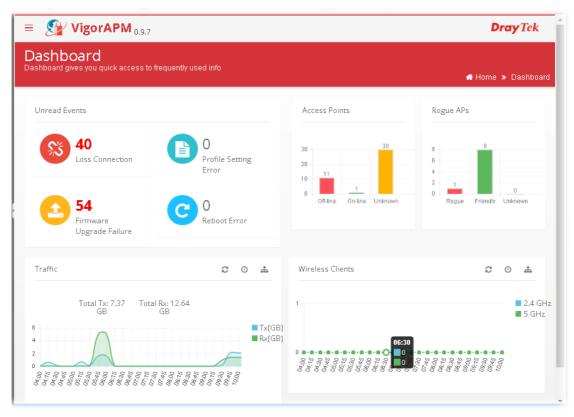
I-6 Dashboard

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

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



A web page with default selections will be displayed on the screen. Refer to the following figure:



This page is left blank.

Part II System Configuration

VigorAPM User's Guide

II-1 Account Management

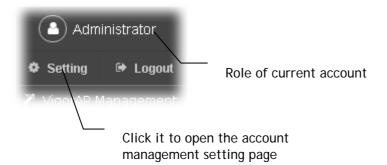
This page allows you to configure account and password which will be used to access into VigorAPM.

Administrator	≡ 💱 VigorAPM 0.9.7	Dray Tek
🌣 Setting 🕞 Logout	Account Management	
🎽 VigorAP Management	You can set the user accounts and permissions in this	🐗 Home 🕨 VigorAPM System 🕨 Account Management
Dashboard		
AP Status	root 🗢	
AP Maintenance Backup	Role : System Administrator	
Restore	Last sign-in time : 2016/09/30 14:00:13	
Firmware Upgrade		
Remote Reboot		
VigorAP Configuration		
۶ Tools		
📽 VigorAPM System 🔻		

Click the icon on top right of **root** window to display **Settings** window. The account name and role are fixed. Only the password can be changed.

Settings	
Account	Role
root	System Administrator
Old Password	
New Password	
Confirm Password	
Please input your new password again	
Finish	Cancel

Current account will be displayed with an icon on the top-left corner of the window.



II-2 License Agreement

This page displays general information of name, author, and license page for current used licenses for LGPL, Apache License, MIT, Eclipse Public License, and so on.

= 💱 Vig	orAPM 0.9.7		Dray Tek
License A We have used license a	greement		stem ► License Agreement
LGPLv3			
Name	Author	License Page	
JasperReports		http://community.jaspersoft.com/questions/802601/jasper-reports-server-community-license	
LGPLv2.1			
Name	Author	License Page	
JDIC		https://java.net/projects/jdic	
JRobin API		http://oldwww.jrobin.org/license.html	
JBoss-4.0.4.GA		http://docs.jboss.org/jbossas/admindevel326/html/apa.html	
Hibernate		http://www.hibernate.org/356.html	
SendTrap		http://sendtrap.sourceforge.net/license.txt	
Apache License, V	ersion 2.0		
Name	Author	License Page	
Axis		http://www.apache.org/licenses/LICENSE-2.0	
HttpClient		http://bc.apache.org/http://ense.html	

II-3 License Information

Information for VigorAPM can be checked by opening VigorAPM System>>License Information.

	= 🚱 V	igorAPM 0.9.7	Dray Tek
 Setting Logout VigorAP Management 		Information	we Hone ♦ VigorAPM System ♦ License Agreement
 VigorAP Configuration F Tools 	License Inform	ation 🗢 🗞	
📽 VigorAPM System	License ID	00018615	
Account Management	Start Date	2016-09-12	
License Agreement License Information	Expire Date	2017-09-12	
License information	Max Node	100	
	Trial License	YES	
© 居易科技 DrayTek			
			al and a second se

This page is left blank.

Part III VigorAP Management

III-1 AP Status

Such page displays basic information for VigorAP discovered by VigorAPM, including status, device name, IP address, SSID, encryption, channel and wireless clients allowed.

Administrator	= 💱	VigorAPM 0.9.7		Dray Tek			
Setting 🕩 Logout	AP Stat	us					
/igorAP Management						👩 Home 🔉 VigorAP Mar	agement » AP Sta
Pashboard I <mark>P Status</mark> IP Maintenance	Group : Uncategor	ized •					Refresh
Backup	Show 10	▪ entries				Search:	
Restore Firmware Upgrade	Status	Device Name	IP Address	SSID (Encryption 0	Ch. 0	WL Clients
Remote Reboot	• ?	AP810_4FBDA4	172.17.3.109:80	ap810-wbpt	WPA2/PSK	Channel_11,2462MHz	0/64
	•	AP902_3D4F0A	172.17.3.202:80	202_2.4G_1 202_5G_1	Mixed(WPA+WPA2)/PSK Mixed(WPA+WPA2)/PSK	Channel_1,2412MHz Channel_153,5765MHz	0/64 0/64
	•	AP910C_7F5450	172.17.5.216:80	DrayTek DrayTek5G	Mixed(WPA+WPA2)/PSK Mixed(WPA+WPA2)/PSK	Channel_11,2462MHz Channel_36,5180MHz	0/64 0/64
	•	AP900_800019	192.168.1.2:80	RD8_APM	Mixed(WPA+WPA2)/PSK Mixed(WPA+WPA2)/PSK	Auto Auto	0/6 undefined/64
	•	AP900_800017	192.168.1.2:80	RD8_APM	Mixed(WPA+WPA2)/PSK Mixed(WPA+WPA2)/PSK	Auto Auto	0/6 undefined/64
igorAP Configuration	•	AP900_80001b	192.168.1.2:80	RD8_APM	Mixed(WPA+WPA2)/PSK Mixed(WPA+WPA2)/PSK	Auto Auto	0/6 undefined/64
ools	۵	AP900_800011	192.168.1.2:80	RD8_APM	Mixed(WPA+WPA2)/PSK Mixed(WPA+WPA2)/PSK	Auto Auto	0/6 undefined/64

Available settings are explained as follows:

Item	Description	
Group	Display all AP groups. Use the drop down list to specify one group. The AP under that group will be displayed on this web page.	
Show entries	Choose a number in this field. Such page will display the number (you specified) of entries at one page.	
Refresh	Refresch current page.	
Satus	 means the AP is online. means the AP is offline. Click "+" to display the firmware version of the VigorAP. 	
Device Name	Display the name of the device.	
IP Address	Display the WAN IP address of VigorAP.	
SSID	Display the SSSID representing VigorAP.	
Encryption	Display the encryption method used in VigorAP.	
Ch.	Display the channel (for 2.4G, 5G) used in VigorAP.	
WL Clients	Display the total number of wireless clients allowed to be connected to VigorAP.	

III-2 AP Maintenance

VigorAPMr can execute configuration backup, configuration restoration, firmware upgrade and remote reboot for the APs managed by VigorAPM. It is very convenient for the administrator to process maintenance without accessing into the web user interface of the access point.

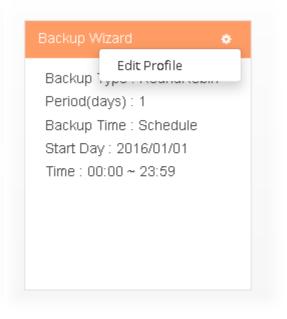
III-2-1 Backup

Administrator	E Sy VigorAPM 0.9.7	Dray Tek
🌣 Setting 🕞 Logout 🎢 VigorAP Management	Backup	
Dashboard AP Status AP Maintenance	Start Backup Backup Wizard 🔹	
Backup Restore Firmware Upgrade Remote Reboot	Backup Type : RoundRobin Period(days) : 1 Backup Time : Schedule Start Day : 2016/01/01 Time : 00:00 ~ 23:59	
 ♥ VigorAP Configuration ✔ Tools ♥ VigorAPM System □ 昆晶科技 DrayTek 		

VigorAPM can backup the configuration of the selected AP.

How to configure backup profile for VigorAP?

1. Click the icon on top right of Backup Wizard window to display Edit Profile option.



2. Click Edit Profile to display the Settings page for Edit Backup.

Administrator	= 💱 VigorAPM	0.9.7	Dray Tek
 Setting Logout VigorAP Management 	Edit Backup		★ Home ≫ VijorAP Management ≫ AP Maintenance ≫ Backup
Dashboard AP Status AP Maintenance Backup	Settings		
Restore Firmware Upgrade Remote Reboot	Backup Type: Always Type: Now Schedule Start Day: 2015/01/01 Start Time: 00:00	Period(days): Image: Constraint of the second se	0
◆ VigorAP Configuration ▶ Tools ■ VigorAPM System ● 原稿時後 DrayTek	AP List:	P710_F10016, AP900_7E8788, AP900_7E878C, AP902_902030	

Available settings are explained as follows:

Item	Description
Backup Type	RoundRobin - The file name will be tagged between 1 ~ 20. The system can store 20 files at most; the 21th file will overwrite the first file.
	Always - The file name will be set by date. There is no limit of the total amount for saving files.
Period(days)	If you type "1" here, the backup configuration will be performed every day.
	If you type "2" here, the backup configuration will be performed one time every two days.
Туре	There are two options:
	Now - The configuration backup for VigorAPs will be performed after clicking Finish.
	Schedule -The configuration backup for VigorAPs will be performed in certain day and time after clicking Finish.
	• Start Day - Specify the execution date.
	• Start Time / End Time - Specify the starting time and ending time. VigorAPM will perform configuration backup for VigorAP specified in AP List at the specified day and time.
AP List	Click AP List to pop up VigorAP group window. Specify the one(s) you want to backup operation and click Finish. All of the selected VigorAP will be displayed in this field.
Finish	Click it to save the configuration.
Cancel	Click it to discard the configuration.

3. After completing the configuration, click **Finish** to save the setting.

ackup	
Backup Wizard	۰
Backup Type : Always Period(days) : 1 Backup Time : Now Start Day : 2016/01/01 Time : 00:00 ~ 23:59	

4. Now, VigorAPM will perform backup according to the profile configured in this page.

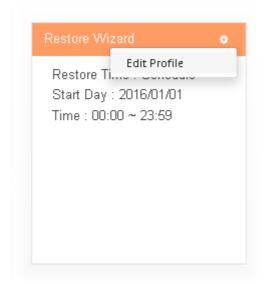
III-2-2 Restore

VigorAPM can restore the configuration for selected AP.

Administrator	E VigorAPM 0.9.7	Dray Tek
🌣 Setting 🕞 Logout	Restore	
✗ VigorAP Management		₩ Home > VigorAP Management > AP Maintenance > Restore
Dashboard AP Status AP Maintenance	Restore Wizard o	
Backup Restore Firmware Upgrade	Restore Time : Schedule Start Day : 2016/01/01 Time : 00:00 ~ 23:59	
Remote Reboot		
VigorAP Configuration		
✿ VigorAPM System ⓒ 居易科技 DrayTek		

How to configure restore profile for VigorAP?

1. Click the icon on top right of **Restore Wizard** window to display **Edit Profile** option.



2. Click Edit Profile to display the Settings page for Restore.

Settings									
Type: Now * Sci									
Start Day:	2016/01/01		Ħ						
Start Time:	00:00		O	End Time:	23:59	0			
	Device		Fil	e List		Configure			
AP900_9D	0D9C		2.cfg	•		Add			
ID	15	Device			1¢	File List	19	Delete	10
2		AP900_9D0D9C				2.cfg		Delete	
1		AP902_3D99F2				2016_09_06.cfg		Delete	

Available settings are explained as follows:

Item	Description	
Туре	There are two options:	
	Now - The configuration backup for VigorAPs will be performed after clicking Finish.	
	Schedule -The configuration backup for VigorAPs will be performed in certain day and time after clicking Finish.	
	• Start Day - Specify the execution date.	
	• Start Time / End Time - Specify the starting time and ending time. VigorAPM will perform configuration restoration for VigorAP specified in AP List at the specified day and time.	
Device	Click it to open VigorAP group window for selecting an AP.	
File List	Use the drop down list to choose the configuration file to be restored.	
Configure	Add - Click it to add the device (typed in Device) and related configuration file (typed in File List) onto this web page below.	
	Not that a restore profile can execute configuration restoration for different devices at one time.	
Finish	Click it to save the configuration.	

Cancel Cl	lick it to discard the configuration.
-----------	---------------------------------------

- 3. After completing the configuration, click **Finish** to save the setting.
- 4. Now, VigorAPM will perform restoration according to the profile configured in this page.

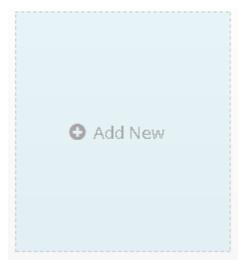
III-2-3 Firmware Upgrade

VigorAPM can perform the firmware upgrade of the selected AP.

Administrator	Ξ Sy VigorAPM 0.9.7	Dray Tek
 Setting G+ Logout VigorAP Management 	Firmware Upgrade Start Firmware Upgrade	# Home » VigorAP Management» AP Maintenance » Firmware Upgrade
Dashboard AP Status AP Maintenance Backup Restore		
Firmware Upgrade Remote Reboot	• Add New	
	 Access Points in the AP List are removed once the device updates successfully. The profile entry is deared when all Access Points have successfully updated. 	
VigorAP Configuration		
🗲 Tools		
📽 VigorAPM System		
© 居易科技 DrayTek		

How to create firmware upgrade profile for VigorAP?

1. Click +Add New.



2. The Settings page is shown as follows:

Administrator	Firmware Upgrade	~
 VigorAP Management 	Start Finnware Upgrade 👘 Home > VigorAP Management > AP Maintenance > Finnware Upgrade	
	Settings	
Dashboard AP Status	Jecong.	
AP Maintenance	Profile Name	
Backup	Enter your profile name	
Restore		
Firmware Upgrade	Model Name: Version:	
Remote Reboot	VigorAP 810 1.1.0	
	Current File: File: JIDE	
	Туре:	
	O Now Schedule	
	Start Day:	
VigorAP Configuration	Start Time: 00:00 O End Time: 23:59 O	
۶ Tools		
ଦି VigorAPM System	AP List:	
© 居易科技 DrayTek		×.

Available settings are explained as follows:

Item	Description	
Profile Name	Type a name for such firmware upgrade profile.	
Model Name	Use the drop down list to choose the model of VigorAP for firmware upgrade.	
Version	Type the available firmware version for VigorAP selected in Model Name.	
Current File	File - For the firt time using VigorAPM, nothing will be displayed in this field.	
	After creating a new firmware upgrade profile by specifying the required firmware, you can save the profile and exit the web page. Next time, when you want to modify such profile and choose Edit Profile menu item, the name of the firmeware (driver) will be shown immediately.	
Туре	There are two options:	
	Now - The firmware upgrade for VigorAPs will be performed after clicking Finish .	
	Schedule -The firmware upgrade for VigorAPs will be performed in certain day and time after clicking Finish.	
	• Start Day - Specify the execution date.	
	• Start Time / End Time - Specify the starting time and ending time. VigorAPM will perform firmware upgrade for VigorAP specified in AP List at the specified day and time.	
AP List	Click it to open VigorAP group window for selecting an AP.	
Finish	Click it to save the configuration.	
Cancel	Click it to discard the configuration.	

3. After completing the configuration, click **Finish** to save the setting.

4. Now, VigorAPM will perform firmware upgrade according to the profile configured in this page.

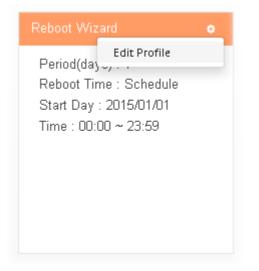
III-2-4 Remote Reboot

VigorAPM can perform the remote reboot for the selected AP.

Administrator	E 🛃 VigorAPM 0.9.7	Dray Tek
🌣 Setting 🕞 Logout	Remote Reboot	
🎢 VigorAP Management	Start Remote Reboot	🕷 Home 🔉 VigorAP Management > AP Maintenance > Remote Reboo
		 None > vigotal management > At maintenance > Nenote Report
	Reboot Wizard o	
AP Maintenance Backup	Deviad (deva) + 1	
Restore	Period(days) : 1 Reboot Time : Schedule	
Firmware Upgrade	Start Day : 2015/01/01	
Remote Reboot	Time : 00:00 ~ 23:59	
VigorAP Configuration		
← Tools		
C VigorAPM System		

How to create remote reboot profile for VigorAP?

1. Click the icon on top right of **Reboot Wizard** window to display **Edit Profile** option.



2. The Settings page is shown as follows:

Administrator	😑 🔬 Vig	orAPM 0.9.7					Dray Tek
🍄 Setting 🕒 Logout VigorAP Management	Edit Rem	ote Reboo	ət				\P Maintenance ≫ Remote Rebool
Dashboard					w nome	s » Vigol»(P Management » >	p Maintenance » Kemote Kebool
AP Status AP Maintenance	Settings						
Backup Restore	Period(days):				7		
Firmware Upgrade Remote Reboot	1						
Keniole Kebool	Туре:						
	Now Schedu	le					
	Start Day:	2015/01/01		=			
	Start Time:	00:00	O	End Time:	23:59	O	
	AP List:						
VigorAP Configuration	AP902_902080, AF	710_F10016, AP900_7E	3788, AP900_7E878C,	AP902_902030			
Tools							
VigorAPM System				Finish	Cancel		

Available settings are explained as follows:

Item	Description
Period(days)	If you type "1" here, the backup configuration will be performed every day. If you type "2" here, the backup configuration will be performed one time every two days.
Туре	There are two options: Now - The remote reboot for VigorAPs will be performed after
	clicking Finish.
	Schedule -The remote reboot for VigorAPs will be performed in certain day and time after clicking Finish.
	• Start Day - Specify the execution date.
	• Start Time / End Time - Specify the starting time and ending time. VigorAPM will perform remote reboot for VigorAP specified in AP List at the specified day and time.
AP List	Click it to open VigorAP group window for selecting an AP.
Finish	Click it to save the configuration.
Cancel	Click it to discard the configuration.

3. After completing the configuration, click **Finish** to save the setting.

4. Now, VigorAPM will perform remote reboot according to the profile configured in this page.

This page is left blank.

Part IV VigorAP Configuration

VigorAPM can manage the access points through VigorAP Configuration.

AP Map

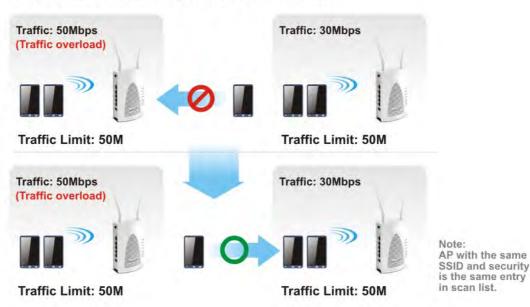
AP Map is helpful to determine the best location for VigorAP in a room. A floor plan of a room is required to be uploaded first. By dragging and dropping available VigorAP icon from the list to the floor plan, the placement with the best wireless coverage will be clearly indicated through simulated signal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

AP Maintenance

Vigor router can execute configuration backup, configuration restoration, firmware upgrade and remote reboot for the APs managed by the router. It is very convenient for the administrator to process maintenance without accessing into the web user interface of the access point.

Load Balance for AP

The parameters configured for Load Balance can help to distribute the traffic for all of the access points registered to Vigor router. Thus, the bandwidth will not be occupied by certain access points.



AP Load Balance (Traffic overload)

IV-1 VigorAP Group

VigorAPM not only can manage VigorAP one by one; but also manage multiple VigorAPs at one time. Administrator can specify several VigorAP devices and group them. Later, various profiles configured for general settings, SSID, security, access control, bandwidth limit respectively can be selected and applied to the VigorAP group. Thus, all of the VigorAP devices within the same group will be written with new setting values.

3	VigorAP Group	<u>^</u>
🌣 Setting 🕞 Logout	🕷 Home 🌘 VigorAP Configuration D VigorAP G	roup
≫ VigorAP Management		
VigorAP Configuration		
VigorAP Group		
Profiles		
General Setting	Add New	
SSID		
Security		
Access Control		
Bandwidth Limit		
🔎 Tools		
📽 VigorAPM System		
© 居易科技 DrayTek		
		-
		×

Click Add New to get the following screen.

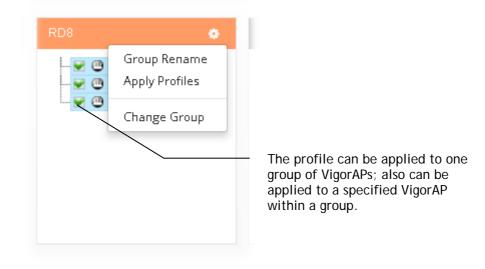
Settings	
Group Name	
Marketing	
	Finish

In the **Group Name** filed, type a name (e.g, marketing) for the new group. Next, click **Finish** to save and exit this page. Below shows an example page with several groups:

Setting (+ Logout	VigorAP Group						Home ≫ VigorAP Configuration ≫ VigorAP Group
 VigorAP Management VigorAP Configuration VigorAP Group 	Uncategorized	-	 Ф АР902_902080 Ф АР710_F10016 	٥	Draytek	٥	ivan_test •
Profiles General Setting SSID Security Access Control Bandwidth Limit F Taols	Apson_stoods Apson_stoods		🥅 🥙 ΑΡ902_902030				🖵 📰 🕲 арэоц, теетес
\$ VigorAPM System ④ 居島科技 OrayTek	issueg60100	0	• Add New				

How to apply profiles to specified VigorAP?

1. Select the group for applying profiles and click the icon on the top right of the group window.



2. Choose **Apply Profiles** to open the following page. This page contains all of the setting profiles (including general settings, SSID, security, access control, bandwidth limit).

General 2.	.4GHz	Select Profile *				Î
Setting	GHz	Select Profile * Select Profile A Default 5GHz 5G				
		Default *	Default *	Select Profile *	Select Profile *	
 SSID 2.	.4GHz		2	3	4	
5	GHz		2	3	4	
		Select Profile *	Select Profile *	Select Profile *	Select Profile *	
		Select Profile *	Select Profile *	Select Profile *	Select Profile *	-
			Finish	Cancel		

Item	Description
General Setting	Select Profile - Simply specify a profile related to general settings from the drop down list.
	Specify profiles for 2.4GHz / 5GHz and for SSIDs, separately.
SSID	Select Profile - The number (1~4) within a green circle means SSID (1~4). You need to specify SSID profile from the drop down list for such profile.
	Specify profiles for 2.4GHz / 5GHz and for SSIDs, separately.
	A number with Green circle - Such SSID is enabled.
	A number with Grey circle - Such SSID is disabled.
Security	Select Profile - Simply specify a profile related to security settings from the drop down list.
	Specify profiles for 2.4GHz / 5GHz and for SSIDs, separately.
Access Control	Select Profile - Simply specify a profile related to access control settings from the drop down list.
	Specify profiles for 2.4GHz / 5GHz and for SSIDs, separately.
Bandwidth Limit	Select Profile - Simply specify a profile related to bandwidth limit settings from the drop down list.
	Specify profiles for 2.4GHz / 5GHz and for SSIDs, separately.
Load Balance	Select Profile - Simply specify a profile related to load balance from the drop down list.
AP Password	Select Profile - Simply specify a profile related to AP password from the drop down list.
Finish	Click it to save the configuration.
Cancel	Click it to discard the configuration.

3. Once apply the profile(s) to the specified group, VigorAPM will automatically write the settings values in the profile(s) onto VigorAP devices under the group.

IV-2 Profiles

Functions such as SSID, security, access control, bandwidth limit related to VigorAP device can be configured and saved as a profile. VigorAPM can apply these profiles to the managed VigorAP through VigorAP group. Thus, it is not necessary for the administrator to access into VigorAP respectively to change the settings. It is convenient and greatly saves your time.

IV-2-1 General Setting

Common settings such as wireless type, mode, channel, channel width, TX power and TX Burst can be configured and saved as general setting profile.

	= 💱 VigorAPM 📖			Dray Tek
	General Setting			
VigorAP Management	General Setting		🔿 Home 🔉 Via	orAP Configuration » Profiles » General Sett
VigorAP Configuration				
	Default 2.4GHz o	Default 5GHz 🔹 🧿	5G o	
Profiles General Setting	Type: 2.4GHz	Type: 5GHz	Type: 5GHz	
SSID	Mode: b/g/n Channel: Auto	Mode: a/n Channel: Auto	Mode: a Channel: 36	
	Limit Client: disable / 64 Tx Burst: disable Antenna: 2T2R	Limit Client: disable / 64 Tx Power: 100%	Limit Client: disable / 64 Tx Power: 100%	G Add New
	Tx Power: 100% Channel Width: Auto(20/40)	Channel Width: Auto(20/40/80)	Channel Width: Auto(20/40/80)	O Hud Hell
Bandwidth Limit	(Channel Phanel Phate (20110)			
Tools				
VigorAPM System				

How to configure general settings for VigorAP proifles?

1. Click Add New.



2. The Settings page will be shown as follows:

	 Home # vigotAr comigutation # riomes # veneral se
Settings	
Profile Name	
Enter your profile name	
I 2.4G Wireless ○ 5G Wireless	
Mode: b/g/n 🗸	
Channel: AutoSelect V	
Enable Limit Client (3-64) 64 (Default: 64)	
Tx Burst	
Antenna: 212R V	
Tx Power: 100% ♥ Channel Width: ④ Auto 20/40 MHZ ○ 20 MHZ	
Note: APM will send AutoSelect value when the AP doesn't support the channel	
Finish Cancel	

Item	Description	
Profile Name	Type a name of the profile.	
2.4G Wireless / 5G Wireless	Specify which bandwith will be applied to such profile.	
Mode	Use the drop down list to select one connection mode for such profile.	
Channel	Select one channel for such profile. The default channel is "AutoSelect" which means Vigor system will choose the suitable mode for VigorAP automatically.	
Enable Limit Client	After checking the box, VigorAPM will limit the total number of wireless client accessing into Internet.	
Tx Burst	This feature can enhance the performance in data transmission about 40%* more (by checking Tx Burst). It is active only when both sides of Access Point and Station (in wireless client) invoke this function at the same time. That is, the wireless client must support this feature and invoke the function, too.	
Antenna	Vigor router can be attached with two antennas to have good data transmission via wireless connection. However, if you have only one antenna attached, please choose 1T1R.	
Tx Power	Set the power percentage for transmission signal of access point. The greater the value is, the higher intensity of the signal will be.	
Channel Width	 20- the router will use 20Mhz for data transmission and receiving between the AP and the stations. Auto 2-/40 MHZ - the router will use 20Mhz or 40Mhz for data transmission and receiving according to the station capability. Such channel can increase the performance for data transit. 	
Finish	Click it to save the configuration.	
Cancel	Click it to discard the configuration.	

3. After finished the configuration and click **Finish**, a new created profile will be displayed on the page of General Setting.

E Sy VigorAPM 0.9.7		Dray Tek
General Setting		
		Home > VigorAP Configuration > Profiles > General Setting
5G ● Type: 5GHz Mode: a Channel: 36 Limit Client: disable / 64 Tx Power: 100% Channel Width: Auto(20/40/80)	● Add New	

How to edit VigorAP profiles for general settings?

1. Move your mouse cursor on the profile icon that you want to edit. Click the mouse cursor on the top right of the profile icon. Then you will a drop down menu items.

5G	0
Type: 5GHz	Edit Profile
Mode: a	Delete Profile
Channel: 36	
Limit Client: di	
Tx Power: 100	
Channel Width	: Auto(20/40/80)

Item	Description
Edit Profile	Click it to open Settings dialog again to modify the profile.
Delete Profile	The selected profile will be removed from current web page.

2. Choose and click Edit Profile to open the following page for modifying the settings.

			🖶 Ноп	ne ≫ VigorAPC	onfiguration » Profiles »	General
Settings						
Profile Name						
5G						
O 2.4G Wireless	● 5G Wireless					
Mode: a Only 🚩						
Channel: Channe	36 💌					
Enable Limit C	ient (3-64) 64 (default: 6	ŝ4)				
Tx Power: 100%	~					
Channel Width: 🤇	Auto 20/40/80 MHZ ု 🔿 Au	to 20/40 MHZ 🛛 20 M	HZ			
Note: APM will se	d AutoSelect value when the	e AP doesn't support th	e channel			

3. After finished the modification, click Finish.

IV-2-2 SSID

SSID Profile is mainly used to configure wireless mode (2.4G or 5G), enable or disable the function of isolate member, and specify VLAN ID value for VigorAP managed by VigorAPM.

 Setting Logoxt VigorAP Management VigorAP Gonfiguration VigorAP Group Profiles General Setting StD Security Access Control Bandwidth Limit Tools 	٩	≡ 💱 VigorAPM ₀,₀,?	Dray Tek
 ✓ VigorAP Management ✓ VigorAP Configuration ✓ VigorAP Group Profiles General Setting SSID SSID Scourity Access Control Bandwidth Limit ✓ Eaction ✓ UporAP Group ✓ Default ✓ BBC_London ✓ Wireless Name :DrayTek Wireless Mode :2.4G Isolate Member :disable VLAN ID :0 ✓ VLAN ID :0 ✓ Add New 	🖨 Setting 🕞 Logout	SSID Profile	
 VigorAP Configuration VigorAP Group Profiles General Setting StiD Scourty Access Control Bandwidth Limit 	✗ VigorAP Management		🖝 Home 🔉 SSID Profile
Profiles Wireless Name :DrayTek Wireless Name :DrayTek Wireless Name :DrayTek SSID Wireless Mode :2.4G-5G Isolate Member :disable Security VLAN ID :0 VLAN ID :0	VigorAP Configuration		
of VigorAPM System	Profiles General Setting SSID Security Access Control Bandwidth Limit F Tools	Wireless Name :DrayTek Wireless Name :111111111 Wireless Mode :2.4G+GG Wireless Mode :2.4G Isolate Member :disable Isolate Member :disable	W

How to configure SSID Profile?

1. Click Add New to get the Settings dialog.



2. The Settings page will be shown as follows:

Settings		
Profile Name		
Enter your profile name		
2.4G Hz 5G Hz		
Wireless Name :		
Hide Isolate Member		
VLAN ID :		
1		\$
(0:Untagged)		

Item	Description	
Profile Name	Type a name for such profile.	
2.4G Hz / 5G Hz	Press to enable 2.4GHz and/or 5GHz wireless channel.	
Wireless Name	Type a name for such SSID profile. Such name is used for identification.	
Hide	Press the button to prevent from wireless sniffing and make it harder for unauthorized clients or STAs to join your wireless LAN. Depending on the wireless utility, the user may only see the information except SSID or just cannot see any thing about Vigor wireless router while site surveying. The system allows you to set four sets of SSID for different usage. In default, the first set of SSID will be enabled. You can hide it for your necessity.	
Isolate Member	Press the button to make the wireless clients (stations) sharing	

	with such SSID not accessing for each other.
VLAN ID	Specify the value as the VLAN ID number. The range is from 0 to 4095.
	After you specify a VLAN ID in such field, VigorAP will add specific VLAN number to all packets on the WAN while sending them out.
Finish	Click it to save the configuration.
Cancel	Click it to discard the configuration.

3. After finished the modifivation, click **Finish**. A new created profile will be shown on the screen.

Add SSID Profile		希 Home » SSID Pr
Programming Wireless Name :5F_mark Wireless Mode :2.4G Isolate Member :disable VLAN ID :1	● Add New	

How to edit SSID profiles?

1. Move your mouse cursor on the profile icon that you want to edit. Click the mouse cursor on the top right of the profile icon. Then you will a drop down menu items.



Item	Description

Edit Profile	Click it to open SSID profile again for modification.
Delete Profile	The selected profile will be removed from current web page.

2. Choose and click Edit Profile to open the following page for modifying the settings.

dit SSID Profile		
		希 Home » SSID Pro
Settings		
Profile Name		
Programming		
2.4G Hz 5G Hz		
Wireless Name :		
5F_mark		
Hide Isolate Member		
VLAN ID :		
1		\$
(0:Untagged)		
	Finish Cancel	

3. After finished the modification, click Finish.

IV-2-3 Security

This page allows you to set security with different modes for SSID 1, 2, 3 and 4 respectively. After configuring the correct settings, please click **Finish** to save it.

	Ξ Sy VigorAPM 0.9.7	Dray Tek
🌣 Setting 🕞 Logout	Security Profile	
≯ VigorAP Management	Security Frome	🕌 Home 🄉 Security Profile
VigorAP Configuration		a nome > Second nome
VigorAP Group Profiles General Setting SSID	Default o Encryption :Disable RADIUS : External	
Security	Add New	
Access Control Bandwidth Limit		
۲ools عر		
📽 VigorAPM System		
© 居易科技 DrayTek		

How to configure security profile?

1. Click Add New to get the Settings dialog.



2. The Settings page will be shown as follows:

	rity Profile		希 Home 🔉 Security
Settings			
Profile Name			
Block			
KEY1 KEY3	Encryption · · · WEP Disable WEP/802.1x Only WP42/802.1x Only WP42/802.1x Only WP42/802.1x Only WP42/802.1x Only WP42/PSK WP42/PSK Mixed(WP4AWP42/PSK	KEY2	Hex •••• N Hex
	Finish	Cancel	

ltem	Description
Profile Name	Type a name for such profile.
Encryption	Choose one of the encryption mode for such profile. Disable WEP WEP/802.1x Only WPA/802.1x Only WPA2/802.1x Only Mixed(WPA/WPA2)802.1x Only WPA2/PSK WPA2/PSK Mixed(WPA/WPA2)/PSK Disable - Turn off the encryption mechanism.

 WEP-Accepts only WEP clients and the encryption key sho be entered in WEP Key. WEP/802.1x Only - Accepts only WEP clients and the encryption key is obtained dynamically from RADIUS serve with 802.1X protocol. WPA/802.1x Only- Accepts only WPA clients and the encryption key is obtained dynamically from RADIUS serve with 802.1X protocol. WPA2/802.1x Only- Accepts only WPA2 clients and the encryption key is obtained dynamically from RADIUS serve with 802.1X protocol. WPA2/802.1x Only- Accepts only WPA2 clients and the encryption key is obtained dynamically from RADIUS serve with 802.1X protocol. Mixed (WPA+WPA2/802.1x only) - Accepts WPA and WP/ clients simultaneously and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol. 	er er
 encryption key is obtained dynamically from RADIUS server with 802.1X protocol. WPA/802.1x Only- Accepts only WPA clients and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol. WPA2/802.1x Only- Accepts only WPA2 clients and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol. Mixed (WPA+WPA2/802.1x only) - Accepts WPA and WPA clients simultaneously and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol. 	er
 encryption key is obtained dynamically from RADIUS server with 802.1X protocol. WPA2/802.1x Only- Accepts only WPA2 clients and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol. Mixed (WPA+WPA2/802.1x only) - Accepts WPA and WPA clients simultaneously and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol. 	
encryption key is obtained dynamically from RADIUS serve with 802.1X protocol. Mixed (WPA+WPA2/802.1x only) - Accepts WPA and WPA clients simultaneously and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol.	ər
clients simultaneously and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol.	
MDA /DCK Assesses and MDA alignets and the assessmention ha	
WPA/PSK-Accepts only WPA clients and the encryption ke should be entered in PSK.	уy
WPA2/PSK-Accepts only WPA2 clients and the encryption should be entered in PSK.	key
Mixed (WPA+ WPA2)/PSK - Accepts WPA and WPA2 client simultaneously and the encryption key should be entered PSK.	
WEP KEY1 - KEY4 - For there is only one key will be used for s profile. Click the key button you want to enable it and ty the encryption information.	
All wireless devices (accessing into Internet via the same VigorAP) must support the same WEP encryption bit size a have the same key. Four keys can be entered here, but o one key can be selected at a time.	
Hex	
- The keys can be entered in ASCII.	
- The keys can be entered in Hexadecimal.	
WEP/802.1x Only Settings for such encryption are available for external RA only.	DIUS
802.1X WEP - Click this button to enable the function.	
Shared Secret - Specify a string as the encryption contens such profile. Such key will be used as a verification code the authentication server (RADIUS) to authenticate the request coming from VigorAP. That is, the encryption information typed here must be that same as the content specified on RADIUS server.	for
Session Time - Specify a value (default: 3600 seconds) of connection time which will be assigned to the client. The default setting is 3600. That means the network connecti will be terminated if the client is idle until timeout.	•
IP Address - Specify the IP address of the authentication server.	
Port Number -Type a port number for authentication, rai from 0 ~65535. The default value is 1812.	nging
WPA/802.1x Only / WPA2/802.1x Only /Settings for such encryption are available for external RA only.	DIUS

02.1x Only	function.
	Shared Secret - Specify a string as the encryption content for such profile. Such key will be used as a verification code for the authentication server (RADIUS) to authenticate the request coming from VigorAP. That is, the encryption information typed here must be that same as the content specified on RADIUS server.
	Session Time - Specify a value (default: 3600 seconds) of the connection time which will be assigned to the client. The default setting is 3600. That means the network connection will be terminated if the client is idle until timeout.
	IP Address - Specify the IP address of the authentication server.
	Port Number - Type a port number for authentication, ranging from 0 ~65535. The default value is 1812.
	Renewal - WPA uses shared key for authentication to the network. However, normal network operations use a different encryption key that is randomly generated. This randomly generated key that is periodically replaced. Enter the renewal security time (seconds) in the column. Smaller interval leads to greater security but lower performance. Default is 3600 seconds. Set 0 to disable re-key.
WPA/PSK / WPA2/PSK /	Pass Phrase - Either 8~63 ASCII characters, such as 012345678 (or 64 Hexadecimal digits leading by 0x, such as "0x321253abcde").
Mixed(WPA/WPA2)/ PSK	Renewal - WPA uses shared key for authentication to the network. However, normal network operations use a different encryption key that is randomly generated. This randomly generated key that is periodically replaced. Enter the renewal security time (seconds) in the column. Smaller interval leads to greater security but lower performance. Default is 3600 seconds. Set 0 to disable re-key.
Finish	Click it to save the configuration.
Cancel	Click it to discard the configuration.

3. After finished the modifivation, click **Finish**. A new created profile will be shown on the screen.

How to edit security profiles ?

1. Move your mouse cursor on the profile icon that you want to edit. Click the mouse cursor on the top right of the profile icon. Then you will a drop down menu items.



Item	Description
Edit Profile	Click it to open access control profile again for modification.
Delete Profile	The selected profile will be removed from current web page.

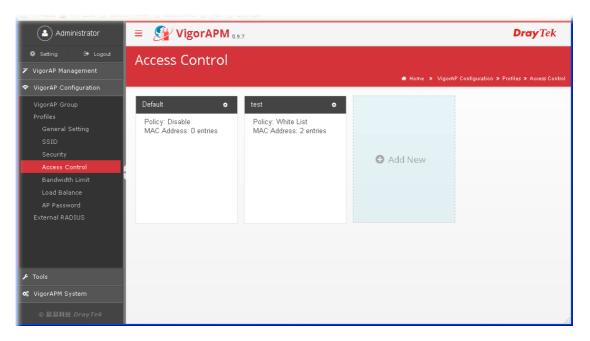
2. Choose and click Edit Profile to open the following page for modifying the settings.

Settings		
Profile Name		
	Encryption · · · WEP/802.1x Only * 802.1X WEP	
	Shared Secret 12350416 Session Time 3600	
	IP Address 172.16.3.159 ··· Port Number 1812	
Note: External RA	DIUS Only.	

3. After finished the modification, click Finish.

IV-2-4 Access Control

For additional security of wireless access, the Access Control facility allows you to restrict the network access right by controlling the wireless LAN MAC address of client. Only the valid MAC address that has been configured can access the wireless LAN interface. By clicking the Access Control, a new web page will appear, as depicted below, so that you could edit the clients' MAC addresses to control their access rights (deny or allow).



How to configure Access Control profile?

1. Click Add New to get the Settings dialog.



2. The Settings page will be shown as follows:

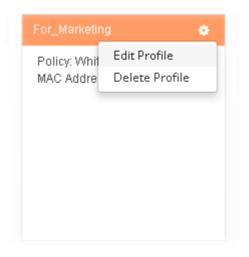
dd Access Control	
	# Home > VigorAP Configuration > Profiles > Access Co
Settings	
Profile Name	
For_Marketing	
Policy: White List *	
MAC Address Filter (Limit: 64 entries)	
Index MAC Address	
· · ·	
Client's MAC Address :	
Add Delete Edit Cancel	
	Finish Cancel
	Finish Cancel

Item	Description
Profile Name	Type a name for such profile.
Policy	Select to enable any one of the following policy or disable the policy. Choose White List to type in the MAC addresses for other clients in the network manually. Choose Black List, so that all of the devices with the MAC addresses listed on the MAC Address Filter table will be blocked and cannot access into VigorAP.
	Any client outside the White List is not allowed to access into the Internet.
Mac Address Filter	Display all MAC addresses that are edited before.
Client's MAC Address	Manually enter the MAC address of wireless client.
Add	Add a new MAC address into the list.
Delete	Delete the selected MAC address in the list.
Edit	Edit the selected MAC address in the list.
Finish	Click it to save the configuration.
Cancel	Click it to discard the configuration.

3. After finished the modifivation, click Finish. A new created profile will be shown on the screen.

How to edit Access Control profile?

1. Move your mouse cursor on the profile icon that you want to edit. Click the mouse cursor on the top right of the profile icon. Then you will a drop down menu items.



Item	Description
Edit Profile	Click it to open access control profile again for modification.
Delete Profile	The selected profile will be removed from current web page.

2. Choose and click Edit Profile to open the following page for modifying the settings.

	♣ Home » VigorAP Configuration » Profiles » Access Configuration
Settings	
Profile Name	
For_Marketing	
Policy: White List * MAC Disable White List * Ind_Black List * MAC Address 1 00: 50: 7F: 41: A1: *	
Client's MAC Address : 00 : 50 : 7F : 41 : A1 : B3 Add Delete Edit Cancel	

4. After finished the modification, click Finish.

IV-2-5 Bandwidth Limit

The downstream or upstream from FTP, HTTP or some P2P applications will occupy large of bandwidth and affect the applications for other programs. Please use Bandwidth Limit to make the bandwidth usage more efficient.

Administrator	≡ 🛃 VigorAPM 0.9.7		Dray Tek
🌣 Setting 🕞 Logout	Bandwidth Limit		
🎢 VigorAP Management	Measuring and controlling the communi	cations on a network	🐗 Home 🔉 Bandwidth Limit
VigorAP Configuration			
VigorAP Group Profiles General Setting SSID Security Access Control Bandwidth Limit	Default •	Add New	
Load Balance AP Password			
AP Password External RADIUS			
🗲 Tools			
😋 VigorAPM System			
© 居易科技 DrayTek			

How to configure bandwidth limit profile?

1. Click Add New to get the Settings dialog.



2. The Settings page will be shown as follows:

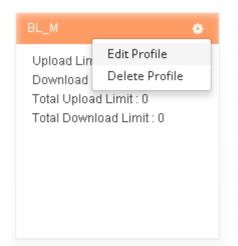
Settings				
Profile Name				
Enter your profile name				
Enable		🗆 Auto Adjustment		
Upload Limit		Total Upload Limit		
User defined • K	bps (Default unit : K)	User defined *	К	bps (Default unit : K
Download Limit		Total Download Limit		
User defined • K	bps (Default unit : K)	User defined *	К	bps (Default unit : K
Note : 1. Download : Traffic going to a	ny station.			
2. Upload : Traffic being sent fro	om a wireless station.			

Item	Description
Profile Name	Type a name for such profile.
Enable	Check the box to configure upload limit and downlimit manually.
Upload Limit	Define the maximum speed of the data uploading which will be used for the wireless stations connecting to VigorAP with the same SSID.
	Use the drop down list to choose the rate. If you choose User defined, you have to specify the rate manually.
Download Limit	Define the maximum speed of the data downloading which will be used for the wireless station connecting to VigorAP with the same SSID.
	Use the drop down list to choose the rate. If you choose User defined, you have to specify the rate manually.
Auto Adjustment	Check this box to have the bandwidth limit determined by the system automatically.
	Total Upload/Download Limit - VigorAPM will dynamically assign the bandwith to all of managed VigorAP based on the values specifed here.
	Use the drop down list to choose the rate. If you choose User defined, you have to specify the rate manually.
Finish	Click it to save the configuration.
Cancel	Click it to discard the configuration.

3. After finished the modifivation, click Finish. A new created profile will be shown on the screen.

How to edit bandwidth limit profile?

1. Move your mouse cursor on the profile icon that you want to edit. Click the mouse cursor on the top right of the profile icon. Then you will a drop down menu items.



Item	Description
Edit Profile	Click it to open access control profile again for modification.
Delete Profile	The selected profile will be removed from current web page.

2. Choose and click Edit Profile to open the following page for modifying the settings.

dit Bandwidth easuring and controlling the o		ins on a network			🐗 Home 🔉 Bandwidth
Settings					
Unload/Download limits	ould be larg	er than 64K and smaller than 11	IUM		
Profile Name					
BL_M					
✓ Enable			Auto Adjustment		
Upload Limit			Total Upload Limit		
1M •	К	bps (Default unit : K)	User defined 🔹	К	bps (Default unit : K)
Download Limit			Total Download Limit		
32M •	К	bps (Default unit : K)	User defined 🔹	К	bps (Default unit : K)
Note : 1. Download : 1	raffic going t	o any station.			
2. Upload : Tra	fic being sen	t from a wireless station.			
		Finish	Cancel		

3. After finished the modification, click Finish.

IV-2-6 Load Balance

Load Balance can help to distribute the traffic for all of the access points (e.g., VigorAP 902) registered to VigorAPM. Thus, the bandwidth will not be occupied by certain access points.

Administrator	≡ 💱 VigorAPM 0.9.7	Dray Tek
🏶 Setting 🛛 🖶 Logout	Load Balance	
🎢 VigorAP Management	Configure Your Load Balance Profiles	🖷 Home » VigorAP Configuration » Profiles » Load Balance
VigorAP Configuration		
VigorAP Group Profiles General Setting SSID Security Access Control Bandwidth Limit Load Balance AP Password	Default ◆ Enable By Station:enable Maximum Number: 24.06.301 560:50 By Traffic:disable Upload Limit64K Download Limit64K Force Overload Force Overload Disassociation:None	
External RADIUS / Tools 영 VigorAPM System 이 英島科特 DravTek Wesspitycod(0)		

How to configure load balance profile?

1. Click Add New to get the Settings dialog.



2. The Settings page will be shown as follows:

Add Load Balance Profile Configure Your Load Balance Profiles	Home > VigorAP Configuration > Profiles > Load Balance
Settings	
Profile Name Enter your profile name Enable Load Balance By Station Number Wireless LAN (2.4GHz) 64 (3-64) Wireless LAN (5GHz) 64 (3-64) By Traffic Upload Limit: 2M * 64 bps(Default unit: K,Range 64K~100M) Download Limit: User Define * 64 bps(Default unit: K,Range 64K~100M) Force Overload Disassociation: By Idle Time *	21

Item	Description	
Profile Name	Type a name for such profile.	
Enable Load Balance	Check the box to enable such function for the profile.	
By Station Number	Limit the number of the wireless clients to reach load balance. It can avoid too many clients accessing Internet and resulting network congestion. Wireless LAN (2.4GHz) / Wireless LAN (5GHz) - Limit the total number of wireless client (2.4GHz/5GHz).	
By Traffic	 Traffic load balance can be controlled through limitation in upload and download. Upload/Download Limit - Define the maximum speed of the data uploading/downloading which will be used for the wireless stations connecting to Vigor device with the same SSID. Use the drop down list to choose the rate. If you choose User defined, you have to specify the rate manually. Force Overload Disassociation - Traffic overload might be occurred if too many wireless stations connected to VigorAP for data incoming and outgoing. Therefore, "Force Overload Disassociation" is required to terminate the network connection of the client's station to release network traffic. None - Nothing will be done. By Idle Time - When VigorAP is overloaded and there is a new connection request, VigorAP will end the connection with the wireless station which idle the longest. Later, the bandwith will be available for new connection request. By Signal Strength - When VigorAP is overloaded (e.g., reaching the limit of station number or limit of network 	
	traffic), it will terminate the network connection of the client's station with the weakest signal.	
Finish	Click it to save the configuration.	
Cancel	Click it to discard the configuration.	

3. After finished the modifivation, click Finish. A new created profile will be shown on the screen.

How to edit load balance profile?

1. Move your mouse cursor on the profile icon that you want to edit. Click the mouse cursor on the top right of the profile icon. Then you will a drop down menu items.

Opload Lin	Edit Profile Delete Profile	1
Total Upload I Total Downloa		

Available settings are explained as follows:

Item	Description
Edit Profile	Click it to open access control profile again for modification.
Delete Profile	The selected profile will be removed from current web page.

2. Choose and click Edit Profile to open the following page for modifying the settings.

Profile Name	
BL_M	
Enable Load Balance	
By Station Number	
Wireless LAN (2.4GHz) 64	(3-64)
Wireless LAN (5GHz) 64 (3-64)
By Traffic	
Upload Limit: User Define *	64 bps(Default unit: K,Range 64K~100M)
Download Limit: User Defin	e * 64 bps(Default unit: K,Range 64K~100M)
Force Overload Disassociati	UR NONE *

3. After finished the modification, click Finish.

IV-2-7 AP Password

Such page is used to change the administrator account/password for accessing into web user interface of VigorAPM.

	≡ S VigorAPM 0.9.7	Dray Tek
🌣 Setting 🛛 🖻 Logout	APPassword Profile	
🎢 VigorAP Management		🐗 Home 🔉 APPassword Profile
VigorAP Configuration		
SSID	Default 🔹	
Security	Account :admin	
Access Control		
Bandwidth Limit	G Add New	
Load Balance	G Add New	
AP Password		
External RADIUS		
🗲 Tools		
📽 VigorAPM System		
© 居易科技 DrayTek		

How to configure AP Password profile?

1. Click Add New to get the Settings dialog.



2. The Settings page will be shown as follows:

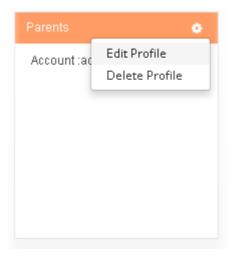
dd APF	Password Profile				
				希 Home 🔉	APPassword Pr
Settings					
Profile Name	3				
Parents					
Account	admin				
Password	•••••				۲
		Finish	Cancel		

Item	Description
Profile Name	Type a name for such profile.
Account	Type the name of the account which will be used for accessing into Internet through VigorAP.
Password	Type the password for the account which will be used for accessing into Internet through VigorAP.
Finish	Click it to save the configuration.
Cancel	Click it to discard the configuration.

3. After finished the modifivation, click **Finish**. A new created profile will be shown on the screen.

How to edit AP password profile?

1. Move your mouse cursor on the profile icon that you want to edit. Click the mouse cursor on the top right of the profile icon. Then you will a drop down menu items.



Item	Description
Edit Profile	Click it to open access control profile again for modification.
Delete Profile	The selected profile will be removed from current web page.

2. Choose and click Edit Profile to open the following page for modifying the settings.

Edit APPassword Profile		
		🖪 Home 🔉 APPassword Prof
Settings		
Profile Name		
Parents		
Account admin		
Password		۲
	Finish Cancel	

3. After finished the modification, click Finish.

IV-3 External RADIUS

This page can specify certain VigorAP (with built-in RADIUS server) managed by VigorAPM to perform the job of external RADIUS server for other wireless clients.

	≡ 🛃 VigorAPM 0.9.7		Dray Tek
🌣 Setting 🛛 🖙 Logout	External RADIUS		
🎢 VigorAP Management			🖷 Home 🔉 External RADIUS
Dashboard AP Status AP Maintenance Backup Restore Firmware Upgrade	Default User Profile :0/96 Authentication Client :0/16 AP :	• Add New	
Remote Reboot		• Add New	
VigorAP Configuration			
🗲 Tools			
📽 VigorAPM System			
© 居易科技 DrayTek			

How to configure external RADIUS profile?

1. Click Add New to get the Settings dialog.



2. The Settings page will be shown as follows:

dd Exterr	hal RADI	US		
				<table-row> Home 🔹 External RAD</table-row>
ettings				
Profile Name				
Test_R				
enable RADIUS	Server			
User Profile	Authentication	Client AP		
Use	rname	Password	Confirm Password	Configure
Brain		*****	***	Add Cancel
ID	*	Username	Delete	\$
1		Carrie	Delete	
Note: Max. 96 u	isers allowed			
		Finish	Cancel	

Item	Description
Profile Name	Type a name for such profile.
Enable RADIUS Server	Check it to enable external RADIUS server.
User Profile	Username - Type a new name for the user profile.
	Passoword/Confirm Password -Type a new password for such new user profile.
	Configure
	 Add - Make a new user profile with the name and password specified on the left boxes.
	• Cancel - Clear current settings for user profile.
	ID - Display the index number of the profile.
	Username - Display the user account name.
	Delete - Click it to remove the selected profile.
Authentication Client	The internal RADIUS server of VigorAP can be treated as the external RADIUS server for other clients. Specify the client IP and secret key to make the wireless client choosing VigorAP as its external RADIUS server.
	Client IP - Type the IP address of the client to be authenticated by VigorAP when the user tries to use VigorAP as the external RADIUS server.
	Secret Key/Confirm Secret Key - Type the password for the wireless client to be authenticated by VigorAP while the client tries to use VigorAP as the external RADIUS server.
	Configure -
	 Add - Make a new client with IP and secret key specified on the left boxes.
	• Cancel - Clear current settings for the client.

	 ID - Display the index number of the profile. Username - Display the user account name. Delete - Click it to remove the selected profile.
AP	Select Aceess Points - Click here to select a VigorAP. The internal RADIUS server of the selected AP will be treated as the External Server for other clients.
Finish	Click it to save the configuration.
Cancel	Click it to discard the configuration.

3. After finished the modifivation, click **Finish**. A new created profile will be shown on the screen.

How to edit external RADIUS profile?

1. Move your mouse cursor on the profile icon that you want to edit. Click the mouse cursor on the top right of the profile icon. Then you will a drop down menu items.



Available settings are explained as follows:

Item	Description
Edit Profile	Click it to open access control profile again for modification.
Delete Profile	The selected profile will be removed from current web page.

2. Choose and click Edit Profile to open the following page for modifying the settings.

Settings Profile Name Test_R * Enable RADIUS Server User Profile Authentication Client AP Username Password Configure Add Cancel 1 Carrie	nal RADI	JS		
Profile Name Test_R Enable RADIUS Server User Profile Authentication Client AP Username Password Confirm Password Configure Add Cancel ID Username Delete				🐗 Home 🔉 External RA
Profile Name Test_R Enable RADIUS Server User Profile Authentication Client AP Username Password Confirm Password Configure Add Cancel ID Username Delete				
Test_R				
User Profile Authentication Client AP Username Password Confirm Password Configure Add Cancel ID Username Delete				
Username Password Confirm Password Configure Add Cancel ID Username Delete	Server			
ID	Authentication	Client AP		
ID Username Delete	name	Password	Confirm Password	Configure
				Add Cancel
		Usewaawa	Delete	
Delete				· · · · · · · · · · · · · · · · · · ·
			Delete	
	sers allowed			
Note: Max. 96 users allowed				
Note: Max, 96 users allowed		Finish	Cancel	
		Authentication name	Authentication Client AP mame Password Username Carrie sers allowed	Authentication Client AP mame Password Confirm Password Username Delete Carrie Delete sers allowed

3. After finished the modification, click Finish.

IV-4 AP Floor Map

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.

٩	E Sy VigorAPM 0.8.7	Dray Tek
🌣 Setting 🔅 Logout	AP Floor Map	
⊁ VigorAP Management	Start planning your environment AP signal distribution	🐗 Home » Tools » AP Floor Map
VigorAP Configuration		we notice at nous at AP nous map
🗲 Tools		
AP Floor Map		
Rogue AP Detection		
APM Logs		
	Add New	
c ; VigorAPM System		
© 居易科技 DrayTek		

How to determine the best location for VigorAP in a room?

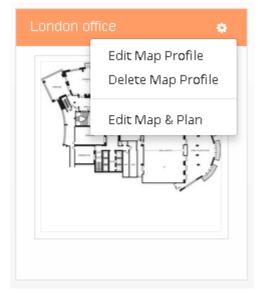
1. Click Add New to get the Settings dialog.

	Settings
❶ Add N€	Profile Name Enter your profile name
	Upload Map 【選擇檔案】
	Finish Cancel

2. Type a name for the floor map (e.g., London Office) in **Profile Name** and click **Select** in **Upload Map** to specify the correct map file. After clicking **Finish**, the image icon will be displayed on the screen.

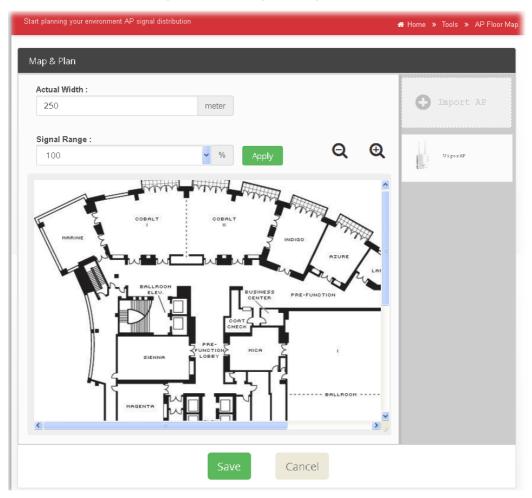
Administrator		DrayTek
10 Setting I+ Logout ✓ VigorAP Management ← VigorAP Configuration	AP Floor Map Start pravving your wrivenment AP signal didsibuation	🙀 Hanne 🔺 Tople 🐲 AP Fijder Mag
 ✓ Ingene-Comparation ✓ Tools AP Floor Map Réqué AP Defection APM Loga 	Addr News	
Q, VigoraPM System 이 요료하려 //may?ea		

3. Click the iocn on top right to display a drop down menu.



Item	Description
Edit Map Profile	Click it to open Settings dialog again to modify the map profile.
Delete Map Profile	The selected map profile will be removed from current web page.
Edit Map & Plan	To deploy VigorAP(s) in proper position, click Edit Map and Plan to get Map & Plan window.

4. Chooe Edit Map & Plan to get the following web page.

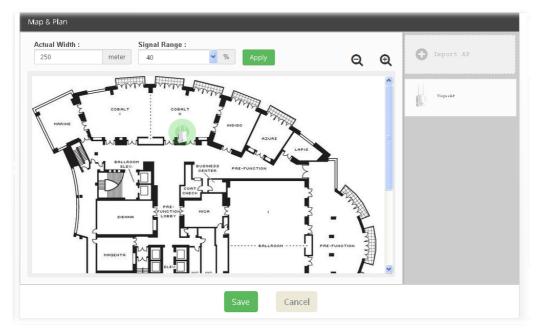


Item	Description
Actual Width	Type the correct width to meet the actual width of the place (displayed by the map).
Signal Range	Choose the signal strength (e.g., 100 in this case) from User Define drop down list.
Apply	Click it to confirm the signal range.
Save	Click it to save the configuration.
Cancel	Click it to discard the configuration.
Import	Import VigorAP for placing on the map.

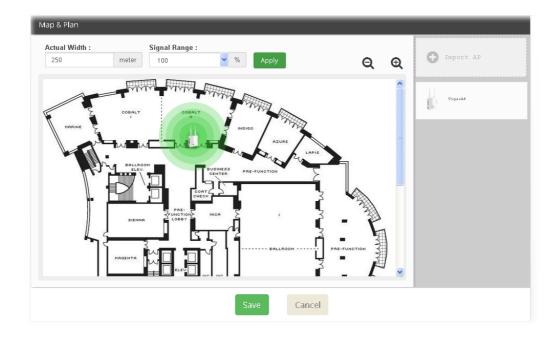
5. Click "+ Import AP" icon to pick VigorAP. A pop up window appears with several VigorAP groups. Choose one of the device and Click Finish.

-			🖵 👻 🕲 AP810_7D6514	*	 =
AP900_800007	×	~		~	~
issueg60100					
-					
	V				
		Finish	Cancel		

6. The selected device will be shown on the AP list. Drag and drop an AP icon from AP List to the map on the left side.



7. Change the signal strength (e.g., 100% in this case) from Signal Range drop down list. Click Apply.



IV-5 Rogue AP Detection

It displays the access point scanned by Vigor router. In which, the APs will be classified with friendly APs, rogue APs and unknown APs in different colors. Below shows the detected APs.

Administrator										
Setting & Logout	Rogue AP Detection									
VigorAP Management						🖀 Home	» Tools » Rogue AP Detection			
VigorAP Configuration						Ref	fresh Apply Save			
	Show 10 💌 er	ntries		Search:						
AP Floor Map	Role	DeviceName	♦ BSSID	♦ SSID	RSSI		Last Detected 🔶			
Rogue AP Detection APM Logs	Rogue 💌	AP710_F10016	00:1d:aa:7e:87:b8	DrayTek	91%	11	2016/08/16 15:01:09			
	Friendly 💌	AP710_F10016	00:1d:aa:7e:87:bc	DrayTek	86%	2	2016/08/16 15:01:04			
	Friendly 💌	AP900_7E87B8	00:1d:aa:7e:87:be	DrayTek5G-LAN-A	100%	36	2016/08/16 15:01:30			
	Friendly 💌	AP710_F10016	00:1d:aa:7f:4f:20	DrayTek	100%	11	2016/08/16 15:01:08			
VigorAPM System	Friendly 💌	AP900_7E87B8	00:1d:aa:7f:4f:22	DrayTek	100%	36	2016/08/16 15:01:31			
© 居易科技 DrayTek	Friendly 💌	AP900_7E87B8	00:50:7f:f1:00:16	DrayTek	99%	11	2016/08/16 15:01:26			
	Friendly 💌	AP710_F10016	02:1d:aa:7e:87:b8	DrayTek	8696	11	2016/08/16 15:01:09			
	Friendly 💌	AP900_7E87BC	02:1d:aa:7e:87:ba	DrayTek5G-LAN-B	100%	36	2016/08/16 15:01:52			
	Friendly 🗸	AP710 F10016	02:1d:aa:7e:87:bc	DrayTek	86%	2	2016/08/16 15:01:05			

Item	Description
Refresh	Click such link to refresh the web page immediately.
Арріу	Click it to open AP selection window to specify an Access Point. After selecting, click Finish. The selected AP will detect/scan the wireless APs near around. Later, information for the detected access points will be displayed on this page.
Save	Click it to save the configfuration.
Search	Type the name of the device you want to search.
Role	Specify the type that the access points are classified to it. Later, click the Save button on the top to save the configuration.
DeviceName	Display the default name of the Access Point detected by selected VigorAP.
BSSID	Display the MAC address of the detected access point.
SSID	Display the SSID specified for the detected access point.
RSSI	Display the RSSI specified for the detected access point.
Ch	Display the channel used by the detected access point.
Last Detected	Display the date and time that such access point was detected by Vigor router.

IV-6 APM Logs

Time and event log for all of the APs managed by VigorAPM will be shown on this page. It is userful for troubleshooting if required.

y Tek		
★ Home » Tools » APM Logs		
¢		

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