

Vigor300B Multi-WAN Load Balancer

Droy Tek



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User's Guide

Vigor300B Multi-WAN Load Balancer User's Guide

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Safety Instruc	tions and Approval
Safety	• Read the installation guide thoroughly before you set up the router.

Read the installation guide thoroughly before you set up the router. The router is a complicated electronic unit that may be repaired only be authorized and qualified personnel. Do not try to open or repair the router

- yourself.
 Do not place the router in a damp or humid place, e.g. a bathroom.
- The router should be used in a sheltered area, within a temperature range of +5 to +40 Celsius.
- Do not expose the router 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 router, please follow local regulations on conservation of the environment.

We warrant to the original end user (purchaser) that the router will be free from any defects in workmanship or materials for a period of two (2) years 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 RegisteredWeb registration is preferred. You can register your Vigor router viaOwnerhttp://www.draytek.com.
- Firmware & ToolsDue 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.

http://www.draytek.com

Instructions

Warranty



European Community Declarations

Manufacturer:	DrayTek Corp.
Address:	No. 26, Fu Shing Road, HuKou Township, HsinChu Industrial Park, Hsin-Chu County, Taiwan
	303
Product:	Vigor300B

DrayTek Corp. declares that Vigor300B of routers are in compliance with the following essential requirements and other relevant provisions of EC, Directive 2004/108/EC.

The product conforms to the requirements of Electro-Magnetic Compatibility (EMC) Directive 2004/108/EC by complying with the requirements set forth in EN55022/Class A and EN55024/Class A.

The product conforms to the requirements of Low Voltage (LVD) Directive 2006/95/EC by complying with the requirements set forth in EN60950-1.

Regulatory Information

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device may accept any interference received, including interference that may cause undesired operation.



More update, please visit www.draytek.com.

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http://gplsource.draytek.com

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Version 2, June 1991

For any question, please feel free to contact DrayTek technical support at support@draytek.com for further information.



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Chapter 1: Introduction

Note: 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.

Vigor300B, a firewall broadband router with multi-WAN interface, can connect to xDSL/cable/VDSL2/Ethernet FTTx. The multi-WAN and LAN switch facilitate unified communication applications in business CO/remote site to handle large data from subscribed fatter pipe. The state-of-art routing feature, and multi-WAN provide integrated benefits for professional users and small offices.



1.1 LED Indicators and Connectors

Before you use the Vigor router, please get acquainted with the LED indicators and connectors first. The displays of LED indicators and connectors for the routers are different slightly.

Description for LED

Dray Tek Vigor300B Multi-WAN Lood Balancer	ACT WANT W Fastury WAN2 W	9 0 2ni Grz MARE 0 8 0 2011 8 0 2012					
LED		Status	Explanation				
ACT (Activity)		Blinking	The router is powered on and running normally.				
		Off	The router is powered off.				
DoS		On	The DoS/DDoS function is active.				
		Blinking	It will blink while detecting an attack.				
DMZ		On	DMZ Host is specified in certain site.				
			DMZ Host is inactive.				
WAN1 ~ WAN	WAN1 ~ WAN4		The WAN1 or WAN2 connection is ready.				
			It will blink while transmitting data.				
USB1 ~ USB2		On	USB device is connected and ready for use.				
		Blinking	The data is transmitting.				
LED on Conne	ctor						
	Left LED	On	The port is connected.				
LAN 1/2	(Green)	Off	The port is disconnected.				
(Giga)		Blinking	The data is transmitting.				
	Right LED	On	The port is connected with 1000Mbps.				
	(Green)	Off	The port is disconnected with 10/100Mbps.				
	Left LED	On	The port is connected.				
WAN 1/2/3/4	(Green)	Off	The port is disconnected.				
(Giga)		Blinking	The data is transmitting.				
	Right LED	On	The port is connected with 1000Mbps.				
	(Green)	Off	The port is disconnected with 10/100Mbps.				

Connectors

ACT DOS DMZ WANI WANI USBI Factory WANIZ WANI USBI	
Interface	Description
Factory Reset	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
LAN1/2 (Giga)	Connecters for local networked devices.
WAN1/2/3/4 (Giga)	Connecters for remote networked devices.
USB1/2	Connecter for Mobile HDD, 3G Modem or printer.
	Connecter for a power cord. ON/OFF - Power switch.

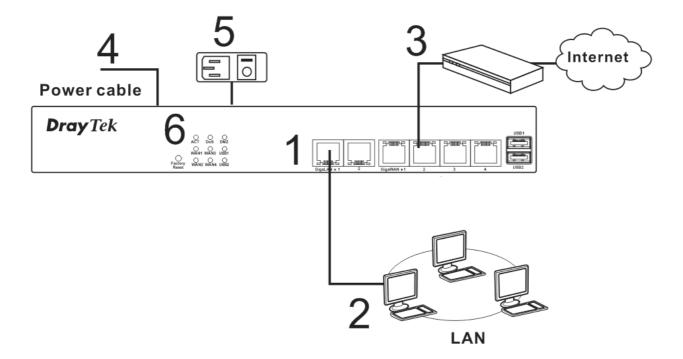
1.2 Hardware Installation

1.2.1 Network Connection

Before starting to configure the router, you have to connect your devices correctly.

- 1. Connect one end of an Ethernet cable (RJ-45) to one of the LAN ports of Vigor300B.
- 2. Connect the other end of the cable (RJ-45) to the Ethernet port on your computer (that device also can connect to other computers to form a small area network). The LAN LED for that port on the front panel will light up.
- 3. Connect a server/modem/router (depends on your requirement) to any WAN port of Vigor300B with Ethernet cable (RJ-45). The WAN1 (to WAN4) LED will light up.
- 4. Connect the power cord to Vigor300B's power port on the rear panel, and the other side into a wall outlet.
- 5. Power on the device by pressing down the power switch on the rear panel. The **PWR** LED should be **ON**.
- 6. The system starts to initiate. After completing the system test, the **ACT** LED will light up and start blinking.

Below shows an outline of the hardware installation for your reference.



1.2.2 Rack-Mounted Installation

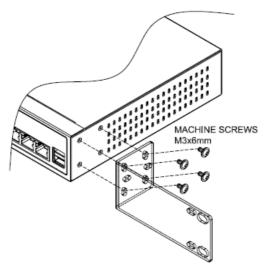
The Vigor300B Series can be mounted on the wall by using standard brackets shown below.



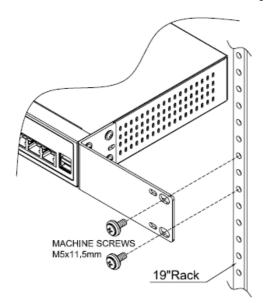
Before mounting the router on the wall or the rack, you have to make sure that power is OFF. Remember to remove the power cable and all network interface cables, and consider the cable limitations and the wall structure when choosing a wall for mounting.

Do the following steps to mount the router on rack:

1. Attach the brackets to the chassis of a rack. The second bracket attaches the other side of the chassis.

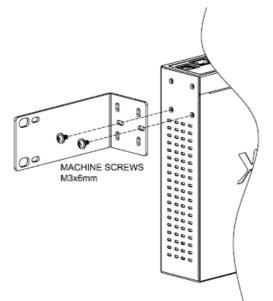


2. Make the holes on the brackets align to the holes on the rack. Use machine screws to fasten the brackets on the rack. Each side requires two screws.

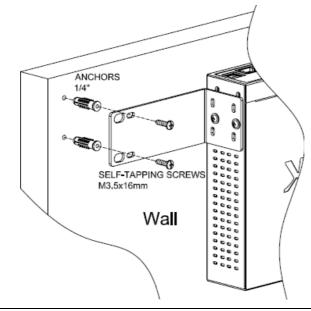


Do the following steps to mount the router on wall:

1. Attach the brackets on each side of the chassis by using the machine screws. Each side requires two screws.



- 2. Locate the wall studs for attaching the router. Drill wall-mount screw holes and put the studs on the holes first.
- 3. Make the reserved holes on the brackets align to the studs on the wall. Use machine screws to fasten the brackets on the wall. Each side requires two screws.



Note: Make the front and the rear of the chassis being perpendicular to the floor. The front panel should be installed upward that you can read the LEDs.

Chapter 2: Basic Setup

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

This chapter explains how to setup a password for an administrator and how to adjust basic settings for accessing Internet successfully. Be aware that only the administrator can change the router configuration.

2.1 Changing Password

To change the password for this device, you have to access into the web browse with default password first.

1. Make sure your computer connects to the router correctly.



Notice: You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as **the default IP address of Vigor router 192.168.1.1**. For the detailed information, please refer to the later section - Trouble Shooting of this guide.

2. Open a web browser on your PC and type http://192.168.1.1. A pop-up window will open to ask for username and password. Please type default values on the window for the first time accessing. The default value for user name is admin and the password is admin. Next, click Login.

Dray Te	k 🥢	Vi	gor300B
Login			
User :	admin		
Password :	••••		
	English	✓ Lo	gin

3. Now, the **Main Screen** will pop up.

Aefresi		_											
	Vigor		k	,	Factory Reset	WAN1 W	IAN3 USB1		igaLAN +1 (2].	AN> 1 2][,	
Model : Hardware Firmware Revision : Build Date System Ti	v: 1 : 1 : 5 e: 2 ime: 2	(igor300B .0 .2.0 723 015-12-03	08:26:40				CPU Usage : Memory Usage : Coprocessor Session	M	emory:41% CPU:0%	1	vlemory:0%	1]
IPv4	_												
		Descri				IP	Gateway	DNS					Operation
						102.1	8						
	lodel : lardware irmware evision uild Dat ystem T ystem T IPv4 rofile an1	Vigori Metvice Informati Iodel: V Iardware: 1 Irrrware: 1 Irrrware: 1 Irrrware: 1 Irrrware: 1 Vistem U Irme: 0 IV V Irve Vistem U Irme: 0 IV V Ive Vistem U Irme: 0 IVV V Ive Vistem V I Ive	Vigor300B Mail: Mark Lead Before Bodiel: Vigor300B Iardware: 1.0 Immware: 1.2.0 evision: 5723 uild Date: 2011-010-02 Jetern UTime: 2011-010-02 IPv4 IPv6 roffle Conne Descri an1	Vigor 300B Mail: Work Load Malaxee Iodel : Vigor 300B Iardware : 1.0 Immware : 1.2.0 evision : 5723 Uild Date : 2015-12-03 01:49:54 ystem Time : 0.01:10-101 08:26:40 IPv4 IPv6 rofile Conne Descri and down 0 days	Vigor 300B Mail: Mark Load Balancer Iodel : Vigor 300B lardware : 1.0 Immware : 1.2.0 evision : 6723 uild Date : 2011-01-01 08:26:40 ysterm Uprime : 0 days 0:26:43 IPv4 IPv6 rofile Conne od vars 0 days 00:1d.a.	Vigor300B Maximut Lear Balancer Iodel: Vigor300B lardware: 1.0 Introvers: 1.2.0 evision: 572.3 uild Date: 2011-01-01 08:26:40 ystern Up Time: 2015-01-03 01:49:54 ystern Time: 2011-01-01 08:26:40 ystern Time: 2011-01-01 08:26:40 rofile Conne Descri Up Time an1 down 0 days 00:1d:a dhcp(N	Vigor300B View Wate W Wate W Bevice Information Image: Comparison of the second	Vigor 300B Provide Provide	Vigor300B With WA33 UB31 Wetche Information Wetche Information Iddel: Vigor300B Iardware: 1.0 Wetsion: 5723 Uild Date: 2015-12-03 01:49:54 ystem Time: 2011-01-01 08:26:40 ystem Time: 0 days IPv4 IPv6	Vigor300B Microwski ustal AT Dis 8 M/z WARK WARK 10881 Perice Information lodel: Vigor300B Microwski ustal System Information CPU Usage: Information CPU Usage: Image: Warking Visit 2015-12-03 01:49:54.40 ystem Time: System Information CPU Usage: CPU Usage: IPV4 IPv6 IPv6 O% (Image: 0% (Image: IPV4 IPv6 One Descri Up Time Mac Protocol IP Gateway DNS RX Rat	System Information System Information Ideel: Vigor300B Iardware: 1.0 Previous Information CPU Usage: Image: 7% Memory Usage: Image: 7% Memory Usage: Image: 0% (84/10000 Usage: 0% (84/10000 Usage: 0% (84/10000 Usage: 0% (84/10000 Usage: 0% (84/10000	Vigor300B Michael Marcine Art Post Post Michael Marcine Michael Marcine <td>Vigor300B With WARL Loss Vigor300B With Warl Loss With Warl Loss Warl Loss</td>	Vigor300B With WARL Loss With Warl Loss Warl Loss

4. Go to **System Maintenance** page and choose **Administrator Password**.

Original Pa			
	nssword :		
New Pass			
Confirm Pa	assword : •••••		

- 5. Enter the login password (admin) on the field of **Original Password.** Type a new one in the field of **New Password** and retype it on the field of **Confirm Password**. Then click **Apply** to continue.
- 6. Now, the password has been changed. Next time, use the new password to access the Web User Interface for this router.



2.2 Quick Start Wizard

Quick Start Wizard is a wizard which is designed for configuring your router accessing Internet with simply steps. In the **Quick Start Wizard** group, you can configure the router to access the Internet with different modes such as Static, DHCP, PPPoE, or PPTP modes.

For most users, Internet access is the primary application. The router supports the Ethernet WAN interface for Internet access.

Click **Quick Start Wizard** from the home page. Quick Start Wizard will guide the user to establish LAN interface profile, WAN interface profile and select proper protocol for connection. The following will explain in more detail for the various broadband access configurations.

2.2.1 Step 1 - Specifying the WAN Profile

In the first page of Quick Start Wizard, please create a WAN profile.

uick Start Wizard		
Step 1 St	ep 2	
Profile :	wan1	*
IPv4 Protocol :	Static	*
	-	
		🦄 Previous 🛋 Next 📑 Finish 🐼 Cancel

Available settings are explained as follows:

WAN profile.
nnection mode for such
manually assign a static ace and complete the settings.
IP address automatically nternet. If you choose yer of your ISP will for Vigor300B sary for you to assign Domain Name are
Point Protocol over dely accepted standards:
í



Item	Description
	PPP and Ethernet. It connects users through an Ethernet to the Internet with a common broadband medium, such as a single DSL line, wireless device or cable modem. All the users over the Ethernet can share a common connection.
	PPPoE is used for most of DSL modem users. All local users can share one PPPoE connection for accessing the Internet. Your service provider will provide you information about user name, password, and authentication mode.
	If your ISP provides you the PPPoE (Point-to-Point Protocol over Ethernet) connection, please select PPPoE for this router to get the following page. Enter the username and password provided by your ISP on the web page.

Note: After you creating the WAN profile(s) by using Quick Start Wizard, you can select the existing WAN profiles for next time. Simply use the drop down list to choose the WAN profile available for modifying.

When you finish the above settings, please click **Next** to go to next page.

2.2.2 Step 2 - Configuring the Selected Protocol

This page will be changed according to the **IPv4 Protocol Type** selected on last page.

If Static is selected

If **Static** is selected, the following screen will appear. You can manually assign a static IP address to the WAN interface and complete the configuration by applying the settings.

Step 1 Step 2		
IP Address : Subnet Mask :	0.0.0.0 255.255.255.0/24 ¥	
Gateway IP Address :	(Optional)	
	🕼 Add 💾 Save	Profile Number Limit : 64
	DNS Server IP Address	
DNS Server IP Address :	8.8.8.8	ŵ

Available parameters are listed as follows:

Item	Description
IP Address	Type a public IP address for such WAN profile.
Subnet Mask	Choose the static mask from the drop down list.
Gateway IP Address	Type a public gateway address for such WAN profile.
DNS Server IP Address	Add – Click this button to display the IP address field for adding a new IP address. Type the IP address on the tiny boxes one by one.
	Save – After finished the IP address configuration, click Save to save the setting onto the router.
	DNS Server IP Address
	168.95.1.1
	\mathbf{I} – Click the icon to remove the selected entry.
Previous	Click it to return to previous setting page.
Finish	Click it to finish the configuration.

Cancel Click it to discard the settings configured in this page.

When you finished the above settings, please click **Finish**.

If DHCP is selected

DHCP allows a user to obtain an IP address automatically from a DHCP server on the Internet. If you choose **DHCP** mode, the DHCP server of your ISP will assign a dynamic IP address for Vigor300B automatically. It is not necessary for you to assign any setting. (Host Name is required for some ISPs).

ick Start Wizard	
Step 1 Ste	ep 2
Host Name :	(Optional)
	📢 Previous 🕸 Next 🔚 Finish 🔇 Cancel

Available parameters are listed as follows:

Item	Description
Host Name (Optional)	Type a name as the host name for identification.
Previous	Click it to return to previous setting page.
Finish	Click it to finish the configuration.
Cancel	Click it to discard the settings configured in this page.

When you finished the above settings, please click **Finish**.

If PPPoE is selected

PPPoE stands for **Point-to-Point Protocol over Ethernet**. It relies on two widely accepted standards: PPP and Ethernet. It connects users through an Ethernet to the Internet with a common broadband medium, such as a single DSL line, wireless device or cable modem. All the users over the Ethernet can share a common connection.

PPPoE is used for most of DSL modem users. All local users can share one PPPoE connection for accessing the Internet. Your service provider will provide you information about user name, password, and authentication mode.

If your ISP provides you the **PPPoE** (Point-to-Point Protocol over Ethernet) connection, please select **PPPoE** for this router to get the following page. Enter the **username** and **password** provided by your ISP on the web page.

Quick Start Wiza	ird					
Step 1	Step 2					
Username	:					
Password						
rassworu						
			\land Previous	Next	Finish	🔇 Cancel
			·			

Available parameters are listed as follows:

Item	Description
Username	Type in the username provided by ISP in this field.
Password	Type in the password provided by ISP in this field.
Previous	Click it to return to previous setting page.
Finish	Click it to finish the configuration.
Cancel	Click it to discard the settings configured in this page.

When you finished the above settings, please click Finish.

ck Start Wiz	ard						
Step 1	Step 2						
Hoet Name	vigor300b	(Optional)					
nust name	*. vigorsoop	(Optional)					
				🐄 Previous	🕸 Next 📔	Finish	🔇 Can

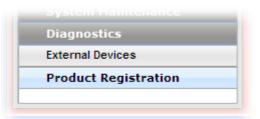
When the following screen appears, it means you have finished the Quick Start Wizard configuration.

Note	×
Wizard Setting Complete	
ОК	

2.3 Register Vigor Router

Please follow the steps below to register the router.

1 Before using such function, please register your router online first. Log into the Web User Interface of Vigor300B and click **Product Registration**.



2 A **Login** page will be shown on the screen. Please type the account and password that you created previously. And click **Login**.



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.

UserName : james_fae
Password :
Auth Code : 3307
Forgotten password?
 Don't have a MyVigor Account ? Create an account now

Note: If you haven't an accessing account, please create a new one first. Please **read the articles on the Agreement regarding user rights** carefully while creating a user account.



3 The following page will be displayed after you logging in MyVigor. From this page, please click **Add**.

Dray Tek							
1 Home				Search			
 About Us Product My Information VigorACS SI Vigor Series 	My Information Welcome, james Last Login Time : Last Login From : Current Login Tim Current Login From Your Device List	<mark>_fae</mark> 2011-08-24 09:3 123.110.144.22 e : 2011-08-24 2	0 3:01:15 84	Add			
 Management Product Registration Customer Survey 	Serial Number / Host ID <u>104001703857</u> <u>200807100001</u> <u>200911030001</u>	Device Name Vigor2710 VigorPro5300 ryan	Model Vigor2710 VigorPro5300 VigorPro5300	Note - -			

Note: Below the field of **Your Device List**, all the Vigor routers that you have registered to MyVigor website will be displayed in sequence.

4 When the following page appears, please type in Nick Name (for the router) and choose the right registration date from the popup calendar (it appears when you click on the box of Registration Date). After adding the basic information for the router, please click **Submit**.

Aguress in http://myvigor.dray	tek.com/HomePage/main.php				
Dray Tek				My	/igor
E Home				Search	GO
D About Us ⁽²⁾ Product	My Product		Search	for this site	GO
My Information	Registration Device				
♀ VigorACS SI ♥ Vigor Series	Serial number : Nickname : *	201108221432 Vigor300B	0301		
Management	Registration Date : *	08-24-2011		J	
Product Registration	Usage :	– Select –	*		
🔓 Customer Survey	Product Rating :	– Select –	≚ (Your opinion	i so far)	
,	No. of Employees :	– Select –	≚ (In total within	n your company)	
	Supplier :		(₩	'here you bought it from)	
	Date of Purchase :		(m	m-dd-yyyy)	
	Internet Connection : *				
	🗌 Cable	ADSL	UVDSL	🗌 Fiber	
	🗖 3G	WIMAX	🗌 LTE		
Copyrights @DrayTek Corp.	L			Cancel	mit

5 Now, your router information has been added to the database. Click **OK** to leave this web page and return to **My Information** web page.

Your device has been successfully added to the database.

٢	വെ	
L	UN	J

6 Take a look at the page of My Information, the new added Vigor300B is listed under **Your Device List**.

Dray Tek	· · · · · ·		/	MyVigor
1 Home			Se	arch GO
Data and	My Information			
D About Us Product	Welcome,draytekfae Last Login Time : 2011-08-24 Last Login From : 123.110.14			
My Information	Current Login Time : 2011-08-	24 23:01:15		
🤇 VigorACS SI	Current Login From : 114.37.1	42.184	D N . E 🐺 D	
😳 Vigor Series	Your Device List		RowNo : 5 🝸 Pa	igeno : 🔼 🎽
🌣 Management				
Customer Survey	Serial Number / Host ID	Device Name	Model	Note
,,	<u>20100707144801</u>	Vigor3300V	Vigor3300	-
	<u>20100708105301</u>	Vigor2820	Vigor2820	-
	<u>20101005104801</u>	Vigor2710∨n	Vigor2710	-
	2010121707335201	Vigor2920	Vigor2920	-
(<u>2011082214320301</u>	vigor300 B	Vigor300B	-
		-	_	

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Chapter 3: Application and Tutorial

3.1 How to Use Web Content Filter (WCF)?

There are many kinds of benefits of Web Content Filtering, such as productivity enhancement, bandwidth regulation, HR policy compliance, and preventing web threats. Plus, with the pre-categorized items, IT staff can save plenty of time from creating firewall rules for unwanted contents.

Note: The Web Content Filter (WCF) is license-required with the annual renewal fee. You can get the 30-day free trial directly via Vigor300B after completing the registration at MyVigor portal.

In the following example, we assume that Administrator prohibits users surfing Facebook.

 Please go to Object Setting >> Web Category Object >> Web Category Object. After activating the Web Content Filter service via "Content Filter License", click "Add" in the "Web Category Object" to start.

o	bjects Setting >> Web	Category Object >> V	Veb Category Ol	bject
	Web Category Objec	t Content Filter Lice	nse	
	🕼 Add 🔀 Edit	🛅 Delete 🛭 娕 Refre	esh	
	Profile	Child Protection	Leisure	Busin

2. Create the profile name (e.g. DrayTek_WCF), and choose any section(s) which you want to do filtering, including Child Protection, Leisure, Business, Chatting, Computer and Other. Here we choose Social Networking since facebook is categorized in social networking. Press the **Apply** button.

Category				
alegory			none	
 Child Protection 			none	*
🗖 Alcohol And Tobacco 🛛 Criminal And Activity 🔲 Gambling		🔲 Hate And	Intolerance	
Illegal Drug Nudity Pornograph	hy And Sexually explicit	Violence		
Weapons School Cheating Sex Educat	tion	🔲 Tasteless	3	
Child Abuse Images				
✓ Leisure			none	~
Entertainment Games Sports	Travel Leisu	re And Recrea	tion	
Entertainment Games Sports	Travel Leisu	re And Recrea	lion	
Fashion And Beauty	Travel Leisu		lion none	~
Fashion And Beauty	Travel Leisu			•
Fashion And Beauty Use Search Web Based Email	Travel Leisu			~
Fashion And Beauty Business Business Job Search Web Based Email Chatting	Travel Leisu	[*
Fashion And Beauty Use Search Web Based Email	Travel Leisu	[none	
Fashion And Beauty Business Job Search Web Based Email Chatting	Travel Leisu	[none	



Note: We can check out which category the URL belongs to by visiting the following website. http://www.cyren.com/url-category-check.html.

3. Go to Firewall >> Filter Setup, select "URL/Web Category Filter", and click "Add".

	IPv6 Filte	a Obbio	ation Filter	ONDA	leb Categor	y i ntoi	QQ Filter	Default	1 Oney				
👌 Add 🤘	Edit 🔟 I	Delete 🍲	Move Up	🠣 Move	e Down 🔾	Rename	🗳 Refi	resh				Profile Nur	nber Limit
Profile	Enable	Filter	Time	Time	IP Obj	IP Group	User	User	File Ex	File Ex	Keyw	Keyw	Web C
						No items	to show.						
Use Defau	lt Message			۲	Enable 🔘	Disable							
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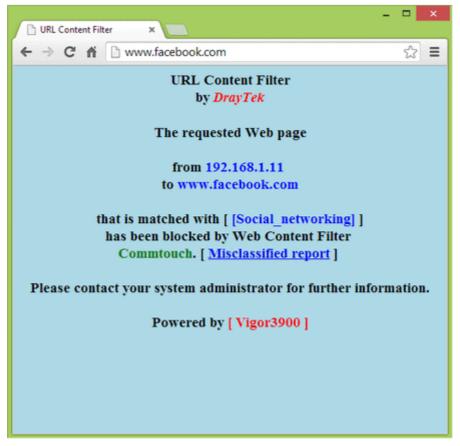
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4. Type Profile name, tick **Enable** and enable **Filter HTTPS**. Tick DrayTek_WCF in **Web Category Policy** under the **Action Policy**. Click **Apply**.

ect is selected in a ca rewall Objects burce II Stoup burce User Profile burce User Group	tegory, the cas	se of 'Any' is ap	plied					
ource User Profile								
ource User Profile								
urce Liser Group								
ource LDAP Group								
on Policy								
le Extension Accept								
le Extension Block								
eyword Accept								
eyword Block								
eb Category Policy								
Profile	Child Prot.	Leisure	Business	Chatting	Computer	Other	Policy	
DrayTek_WCF					Social Net		Block	
le ey	e Extension Accept e Extension Block word Accept word Block b Category Policy Drofile	e Extension Accept e Extension Block word Accept word Block b Category Policy Profile Child Prot	Extension Accept Extension Block word Accept word Block b Category Policy Drofile Child Prot Leisure	Extension Accept Extension Block word Accept word Block b Category Policy Drofile Child Prot Leisure Business	e Extension Accept e Extension Block word Accept word Block b Category Policy Profile Child Prot Leisure Business Chatting	Extension Accept Extension Block word Accept word Block b Category Policy Child Prot Leisure Business Chatting Computer	Extension Accept Extension Block word Accept word Block b Category Policy Confile Child Prot Leisure Business Chatting Computer Other	Extension Accept Extension Block word Accept word Block b Category Policy Confile Child Prot Leisure Business Chatting Computer Other Policy

5. The message window will be shown when we try to access facebook.



Every time the connection matches the category we selected to block, the user will see the block message above.



3.2 How to Configure WAN Inbound Load Balance?

The document introduces Inbound Load Balance, which is a feature allows Vigor 2960/300B/3900, when acting as a DNS Server, to distribute the traffic across multiple WAN interfaces. There will be five parts of setting: enabling Web/FTP services on the router, setting weight for the Web server, setting weight for the FTP server, and setting CNAME for the FILE server, and setting NS Record (optional).



A. Enabling Web/FTP services on the router

1. Please go to **NAT** >> **Port Redirection** to set up Port Redirection rule for the Web/FTP Servers.

ort Redirection			-
Profile :	WebServer		
📝 Enable This Profile			
Interface :	All	~	
Use IP Alias :	No	~	
Private IP :	192 . 168 . 1	. 10	
Protocol :	TCP/UDP	~	
Port Redirection Mode :	One-to-One	~	
Public Port Start :	80		
Private Port :	80		
	-		
		🛗 Apply 🛛 🚱 Ca	ance

Port Redirection				_>
Profile :	FTPServer			
📝 Enable This Profile				
Interface :	All	~		
Use IP Alias :	No	~		
Private IP :	192 . 168 . 1		11	
Protocol :	TCP/UDP	~		
Port Redirection Mode	: One-to-One	~		
Public Port Start :	23			
Private Port :	23			
		-	💾 Apply	🔇 Cancel

2. Go to **WAN** >> **Load Balance** to enable the services.

nbou	und Load Balance					
V E	inable (۵ A	dd 🔀 Edit 🔟 D	elete 🗳 Refresi	h	
	Enable		Domain Name	Mode	IP Mapping	Weight

B. Setting weight for the Web server

1. Add a profile for domain name "jos.com" and "www.jos.tw", then assign a weight of 1 to WAN 1 and 2 for WAN2. This meas that when receiving three DNS queries, DNS server will return WAN1's IP for the first time, and WAN'2 IP for the next two times.

Basic	Detail						
C Enable							
Domain Na	me:	jos.com					
Mode :		Load	Balance 🔵 Failo	ver			
		🚺 Add	Save				Profile Number Limit :
		IP Mappin	g		Weight		
Interface M	apping/Weight :	wan1			1		ŵ
		wan2			2		Ŵ
		🚺 Add	Save Alias	From :	face 🔵 Manual Input		Profile Number Limit :
		Alias Inter	face	Alias		Weight	
					No items to show.		
Alias Settir	ng :						

2. Click **Detail** tab to add Additional A Record for Host Name "www.jos.com" to corresponds with "jos.com" with same weight 1:2.



	🚯 Add 💾 Save	Profile	Number Limit : 16
	Host	IP Address	
	www	77.77.77	ŵ
Additional A Record :	www	88.88.88	ŵ
	www	88.88.88	ŵ

After the settings have done, we do "**nslookup**" to query the domain name for 3 times, and the results are reflecting the Interface Weights.

The test of query for "jos.com"

First DNS query >jos.com Server: [77.77.77.77] Address: 77.77.77.77 Name: jos.com Address: 77.77.77.77 Second DNS query >jos.com Server: [77.77.77.77] Address: 77.77.77.77 Name: jos.com Address: 88.88.88.88 Third DNS query >jos.com Server: [77.77.77.77] Address: 77.77.77.77 Name: jos.com Address: 88.88.88.88

The test of query for "www.jos.com"

First DNS query >www.jos.com Server: [77.77.77.77] Address: 77.77.77.77 Name: jos.com Address: 77.77.77.77 Aliases: www.jos.com Second DNS query >www.jos.com Server: [77.77.77.77] Address: 77.77.77.77 Name: jos.com



Address: 88.88.88.88 Aliases: www.jos.com <u>Third DNS query</u> >www.jos.com Server: [77.77.77.77] Address: 77.77.7777 Name: jos.com Address: 88.88.88.88 Aliases: www.jos.com

C. Setting weight for the File server (Sub-domain)

1. Add a profile for Sub-domain "fileserver.jos.com" with Load Balance Mode, and assign a weight of 1 to WAN 1 and 2 for WAN2.

Note: "Use Domain Setting" Mode means the weight will be the same as the weight of Domain Name "jos.com".

Inbo	und Load Balance					
V E	Enable 🚺 Ad	d 🔀 Edit 🧃	🔋 Delete 🛛 🗳 Refres	h		
	Enable D	omain Name	Mode	IP Mapping	Weight	Alias Interface
•	true d	ochoidientu.vn	Load Balance	wan1,wan2	1,2	
Inbo	ound Load Balance					
	Sub Domain Host : Mode :		Setting	nce 🔵 Failover		
		🕼 Add 🛗 s	Save			Profile Number Limit: 16
		IP Mapping		Weight		
	Interface Mapping/Weight :	: wan1		1		ŵ
		wan2		2		ŵ

After the settings has done we do "**nslookup**" and query the sub-domain name for 3 times, and the results are reflecting the Interface Weight.

First DNS query >fileserver.jos.com Server: [77.77.77.77] Address: 77.77.77.77 Name: fileserver.jos.com Address: 77.77.77.77 <u>Second DNS query</u> >fileserver.jos.com Server: [77.77.77.77] Address: 77.77.77.77 Name: fileserver.jos.com Address: 77.77.77.77 Third DNS query >fileserver.jos.com
Server: [77.77.77.77]
Address: 77.77.77.77
Name: fileserver.jos.com
Address: 88.88.88.88

D. Setting CNAME for the File server (Sub-domain)

- 1. After creating profile for Sub-domain "fileserver.jos.com", we may add CNAME Record for Sub-domain "fileserver.jos.com" via **Inbound Load Balance** >> **Detail page**.
- 2. Click Add then input host "ftp" and select "fileserver" as Reference.

Inbound Load Balance						
C Enable	🕼 Add	🔀 Edit 👖 Delete	🐼 Refresh			
bound Load Balance						
Basic Detail						
	C Add Host	Save	IPV6 Address	Profile Number Lin	nit :	16
AAAA Record :			No items to show.			
	🚯 Add	Save		Profile Number Lin	nit :	16
	Host		Reference			
	ftp		fileserver	~	Ŵ	

After the settings we do **nslookup** and query "ftp.jos.com" for 3 times, and we could see the results are reflecting the Interface Weight.

First DNS query >ftp.jos.com Server: [77.77.77.77] Address: 77.77.777 Name: fileserver.jos.com Address: 77.77.777 Aliases: ftp.jos.com Second DNS query >ftp.jos.com Server: [77.77.777] Address: 77.77.777 Name: fileserver.jos.com Address: 77.77.777 Aliases: ftp.jos.com Third DNS query



>ftp.jos.com Server: [77.77.77.77] Address: 77.77.77.77 Name: fileserver.jos.com Address: 88.88.88.88 Aliases: ftp.jos.com

E. Setting up NS Records (Optional)

- 1. NS Record is not necessary since the NS records should be already available in the upper DNS servers.
- 2. When NS server is with different domain name, such as "vivian.com", please add the NS Record with name server field and end it with "." (a dot)

OST	Name Server	IP Address	
one)	ns1.vivian.com.	(none)	ŵ
one)	ns2.vivian.com.	(none)	ŵ
•	one)	ns1.vivian.com.	one) ns1.vivian.com. (none)

3. When NS server is with same domain name, such as "jos.com", please add the NS Record with name server field ns1 and ns2.

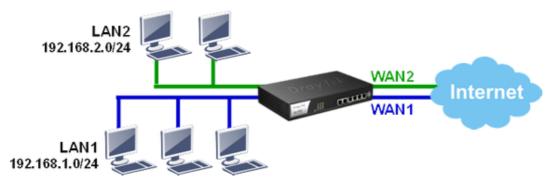
HOST	Name Server	IP Address	
(none)	ns1	(none)	Ŵ
(none)	ns2	(none)	m

NS Record :

3.3 How to Configure WAN Load Balancing with Policy Route on Vigor300B?

This document demonstrates how to do WAN load balancing with Policy Route feature in Routing. In the firmware before version 1.0.9, this is a feature in WAN menu called Load Balance Rule. After upgrading firmware to version 1.0.9, the Rules set in WAN >> Load Balance will be transferred to Policy Rule automatically.

In this example, we have WAN1 and WAN2 connected on Vigor3900, and we would like to balance the traffic across them. Suppose we would like the traffic from LAN1 (192.168.1.0/24) to go to the Internet via WAN1 and traffic from LAN2 (192.168.2.0/24) to go to the Internet via WAN2. To achieve this, we need one Policy Rule for each LAN subnet.



1. Create a Route Policy for traffic from LAN1 to go to the Internet via WAN1. Go to **Routing >> Policy Route**, click **Add** to add a new policy rule.

Profile :	LAN1
	LANI
🔽 Enable	
Protocol:	ALL 🗸
Source	
Source Type :	Subnet v
IP Address :	192 . 168 . 1 . 1
Subnet Mask :	255.255.255.0/24 ~
Destination	
Destination Type :	Any v
Route Rule	
Out-going Rule :	User Defined V
Out-going Interface :	wan1 v
Out-going (Gateway) :	
Mode :	NAT
Use IP Alias :	🔘 Enable 💿 Disable
Failover to Next Rule :	Enable Obisable
Failback (Quick Recover)): O Enable 🖲 Disable

- a. Enter rule name.
- b. Enable this rule.
- c. Select **Source Type** as Subnet, and enter the **IP address** and **Subnet Mask** of LAN1.
- d. Select **Out-Going Rule** as User Defined, and **Interface** as WAN1.
- e. Enable **Failover to Next Rule** so that when WAN1 fails, it will follow the next rule.
- f. Click **Apply** to save the configuration.

With the above configuration, traffic from LAN1 will be sent to WAN1. When WAN1 is not available, because Failover to Next Rule in enabled, the router will check if there is another Policy Rule matched. If there is not, the Default Route will be applied.

2. Similarly, add a Policy Rule for traffic from LAN2 to go to the Internet via WAN2.

icy Rule		
Profile :	LAN2	
Enable		
Protocol:	ALL	*
Source		
Source Type :	Subnet	~
IP Address :	192 . 168 . 2	. 1
Subnet Mask :	255.255.255.0/24	*
Destination		
Destination Type :	Any	*
Route Rule		
Out-going Rule :	User Defined	~
Out-going Interface :	wan2	~
Out-going (Gateway) :		. (Option
Mode :	NAT	~
Use IP Alias :	🔵 Enable 💿 Disable	
Failover to Next Rule :	Enable Oisable	
Failback (Quick Recover)	: 🔵 Enable 💿 Disable	
		💾 Apply 🛛 🙆 Canc

3. Configure the Default Route at **Routing** >>**Default Route**.

Default Route is the rule to be applied if there are no Policy Rule matched. You may set Default Route to a specific WAN interface or to "default pool". Enable "Auto Failover to Active WANs" will swap the sessions to other active WANs when the original WAN connection is lost.



💾 Apply 🛛 设 Cancel

Default Pool can be configured at **Routing>>Load Balance Pool**.

ad Balance V		
🔄 Add 🛗 Save	Profile Number Limit : 1	
terface	Weight	
an1	1	m
ran2	1	Ē
ran3	1	Ē
ran4	1	Ē
an5	1	Ū
sb1	1	Ŵ
sb2	1	â
	an1 an2 an3 an4 an5 ab1	Image: state of a constraint of a const

By default, every WAN interface has the same weight. So that when Default Route is applied, every available WAN interface will be used equally.

4. If you want to use a specific WAN interface to be the failover interface, please create another Policy Rule. For example, you can create a second rule for LAN2 to go to the Internet via WAN1.

P	olicy Rule										
	D Add 🗙	Edit 📋 🕻	Delete 💣 M	ove Up 🛛 🐣 Move	Down 🛟	Rename A	uto Refresh :	1 Minute 👻	S Refresh	Profil	e Number I
	Profile	Enable	Protocol	Source	Source Port	Destination	Destinatio	Out-going Rule	Mode	Failover t	Failb
1	LAN1	true	ALL	192.168.1.1/24	2	Any	-	want	NAT	Enable	Disable
2	LAN2	true	ALL	192.168.2.1/24	10 A	Any	SS	wan2	NAT	Enable	Disable
3	LAN2_backup	true	ALL	192.168.2.1/24	*	Arry		want	NAT	Enable	Disable

Now there are two policy rules with the same Source but different Out-going Rule. The one with smaller index number will be implemented first, so if WAN2 is available, traffic from LAN2 will always go via WAN2. Only when WAN2 is down, because "Failover to Next Rule" is enabled, the next rule matched will be applied; thus, traffic will be sent to WAN1.

Chapter 4: Advanced Web Configuration

After finished basic configuration of the router, you can access Internet with ease. For the people who want to adjust more setting for suiting his/her request, please refer to this chapter for getting detailed information about the advanced configuration of this router. As for other examples of application, please refer to chapter 3.

4.1 WAN Setup

Quick Start Wizard offers user an easy method to quick setup the connection mode for the router. Moreover, if you want to adjust more settings for different WAN modes, please go to **WAN** group and click the **General Setup** link.

Basics of Internet Protocol (IP) Network

IP means Internet Protocol. Every device in an IP-based Network including routers, print server, and host PCs, needs an IP address to identify its location on the network. To avoid address conflicts, IP addresses are publicly registered with the Network Information Centre (NIC). Having a unique IP address is mandatory for those devices participated in the public network but not in the private TCP/IP local area networks (LANs), such as host PCs under the management of a router since they do not need to be accessed by the public. Hence, the NIC has reserved certain addresses that will never be registered publicly. These are known as *private* IP addresses, and are listed in the following ranges:

From 10.0.0.0 to 10.255.255.255 From 172.16.0.0 to 172.31.255.255 From 192.168.0.0 to 192.168.255.255

What are Public IP Address and Private IP Address

As the router plays a role to manage and further protect its LAN, it interconnects groups of host PCs. Each of them has a private IP address assigned by the built-in DHCP server of the Vigor router. The router itself will also use the default **private IP** address: 192.168.1.1 to communicate with the local hosts. Meanwhile, Vigor router will communicate with other network devices through a **public IP** address. When the data flow passing through, the Network Address Translation (NAT) function of the router will dedicate to translate public/private addresses, and the packets will be delivered to the correct host PC in the local area network. Thus, all the host PCs can share a common Internet connection.

Get Your Public IP Address from ISP

In ADSL deployment, the PPP (Point to Point)-style authentication and authorization is required for bridging customer premises equipment (CPE). Point to Point Protocol over Ethernet (PPPoE) connects a network of hosts via an access device to a remote access concentrator or aggregation concentrator. This implementation provides users with significant ease of use. Meanwhile it provides access control, billing, and type of service according to user requirement.

When a router begins to connect to your ISP, a serial of discovery process will occur to ask for a connection. Then a session will be created. Your user ID and password is authenticated



via **PAP** or **CHAP** with **RADIUS** authentication system. And your IP address, DNS server, and other related information will usually be assigned by your ISP.

Online Status	
WAN	
General Setup	
Load Balance	
Switch	

4.1.1 General Setup

This section will introduce some general settings of Internet and explain the connection modes for WAN profiles in details.

This router supports multi-WAN function. It allows users to access Internet and combine the bandwidth of the WAN profiles to speed up the transmission through the network. Each WAN port can connect to different ISPs, even if the ISPs use different technology to provide telecommunication service (such as DSL, Cable modem, etc.). If any connection problem occurred on one of the ISP connections, all the traffic will be guided and switched to the normal communication port for proper operation.

ogout : Off 🗸	General Setup	USB WAN							
ck Start Wizard	У Edit 🦛 E	ofrech Switt	h Mode : Double Ta	a v					Profile Number Limit :
ine Status				-					
N .	Profile (max I		Description	Port	IPv4 Protocol	IPv6 Protocol	VLAN Tag	VLAN ID	Priority(802.1p)
General Setup	wan1	false		WAN1	None	Link Local	Disable	10	0
Load Balance	wan2	false		WAN2	None	Link Local	Disable	11	0
Switch	wan3	false		WAN3	None	Link Local	Disable	12	0
N	wan4	false		WAN4	None	Link Local	Disable	13	0
uting									
T									
ewall									
jects Setting									
er Management									
plications									
ndwidth Management									
B Application									
stem Maintenance									
gnostics									
ernal Devices									
duct Registration									

Each item will be explained as follows:

Item	Description			
Edit	Modify the selected WAN profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.			
Refresh	Renew current web page.			
Switch Mode	Specify the mode for editing existing WAN profile.			

Profile Number Limit	Display the total number (50) of the profiles to be created.
Profile (max length:7)	Display the profile name.
Enable	Display the status of the profile. False means disabled; True means enabled.
Description	Display a brief explanation for such profile.
Port	Display the physical WAN interface for such profile.
IPv4 Protocol Type	Display the IPv4 protocol selected by the profile.
IPv6 Protocol Type	Display the IPv6 protocol selected by the profile.
VLAN Tag	Display if the function is enabled or not.
	If the data transmitted with tag, Enable will be displayed in this field. Otherwise, Disable will be shown instead.
VLAN ID	Display the VLAN ID of the profile.
Priority(802.1p)	Display the level of the priority for such profile.

4.1.1.1 Ethernet WAN Profiles

How to edit a WAN profile:

 Open WAN>>General Setup. Choose wan1/wan2/wan3/wan4 profile and click the Edit button to open the following dialog. Only the tab of the protocol specified in IPv4 Protocol field will be available for you to modify. If you want to change and specify another connection mode for such WAN profile, remember to choose the mode from the drop down list of IPv4 Protocol.

Global	PPTP	Static	DHCP	PPPoE	StaticV6	DHCPV6	DMZ	
	x length:7) :	wan1						
Enable				(Optional)				
Description Port :	1.	WAN1		(Optional)				
Default MA	C Address :	Enable	e 🔵 Disable					
MAC Addre	ISS :	00:1d:aa:a	a6:62:c9					
IPv4 Proto	col :	None		~				
Mode :		NAT		✓ NAT operat	ion to packet is	only applied w	hen they come from an N	AT mode LAN
IPv6 Proto	col :	Link Loca		~				
Enable Sch	edule Reconne	ct : 🔘 Enable	e 💿 Disable					
VLAN Tag :		🔵 Enable	e 💿 Disable	enable it only	when your ISP (equires tagged	I VLAN	
VLAN ID :		10						
Priority(80	2.1p) :	0		\sim				
								El tractor 🙆 trac
								💾 Apply 🛛 🙆 Can

Item	Description
Profile (max length:7)	Type a name (less than 7 characters) for such profile.
Enable	Check this box to enable such profile.
Description	Give the brief description for such profile.

Port	Display the physical WAN interface for such profile.
Default MAC Address	 Enable – Click it to enable the default MAC address for such profile. Disable – Click it to type the MAC address manually for such profile.
MAC Address	Specify the MAC address for such profile. In default, the system will determine it automatically.
IPv4 Protocol	There are several connection modes for you to specify for IPv4 protocol type. Each mode will bring up different web page. Static None Static DHCP PPPoE PPTP The DMZ protocol is available for WAN4 profile only.
IPv4 Mode	Determine such profile will be used for. ROUTING NAT ROUTING
IPv6 Protocol	There are four connection modes for you to specify for IPv6 protocol type. Each mode will bring up different web page.
Enable Schedule Reconnect	Enable – Click it to enable the function of reconnecting the network automatically within the time schedule.
Schedule Time Object	Disable – Click it to disable the schedule reconnect function.Choose the time object profile to be applied by such WAN.
VLAN Tag	 Enable – Click it to enable the function of VLAN Tag. Data transmitted through the router will be tagged with specified number for identification. Disable – Click it to disable the function of VLAN Tag. Data transmitted through the router will not be tagged with any number.
VLAN ID	Type the VLAN ID number for such profile.
Priority(802.1p)	Type the packet priority number for such VLAN. The range is from 0 to 7.

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	2 0 1 2 3 4 5 6 7 Link-Local
Apply	Click it to save the configuration and exit the dialog.
Cancel	Click it to exit the dialog without saving the configuration.

General Settings allows you to enable the profile, give a brief explanation for such profile, specify the VLAN ID, specify MAC address, choose IPv4 and IPv6 protocol, and specify the mode of the data transmission (**NAT** or **Routing**).

Note: The DMZ tab is available for WAN4 profile only.

Different IPv4 and IPv6 protocol types specified will bring up different configuration web page.

• If you choose Static as IPv4 protocol type, click the Static Tab to open the following page:

eral Setu	p		
Global	PPTP	Static DHCP PPPoE StaticV	6 DHCPV6 DMZ
IP Addres		0.0.0.0	
Subnet M		255.255.255.0/24 ¥	
Gateway	IP Address :	(Optional)	
		🕼 Add 🛗 Save	Profile Number Limit : 64
		DNS Server IP Address	
DNS Serv	ver IP Address :	8.8.8.8	Û
		🕼 Add 💾 Save	Profile Number Limit : 254
		IP	
IP Alias :			No items to show.
		1500	
MTHMP		1000	
MTU/MRU			
Connecti	, . on Detection Mod on Detection Intel	0.0	

Item	Description
IP Address	Type the IP address specified for such profile.
Subnet Mask	Use the drop down list to choose the subnet mask for such profile.
Gateway IP Address	Type the gateway address for such profile.
DNS Server IP	Type a public IP address as the primary DNS (Domain Name Server). To add a new IP address, simply place the mouse



Address	cursor on this filed. The following dialog will appear.		
	💽 Add 🛅 Save		
	DNS Server IP Address		
	168.95.1.1		
	DNS Server IP Address		
	Add – click this button to have a field for adding a new IP address.		
	Save – click this button to save the setting.		
	\mathbf{I} – click the icon to remove the selected entry.		
IP Alias	Type other IP addresses to be bound to this interface. This setting is optional. If you have typed addresses here, you can see and choose it in later web page settings (e.g., NAT>>Port Redirection/DMZ Host).		
	Add – Click this button to display the IP address field for adding a new IP address. Type the IP address on the tiny boxes one by one.		
	C Add Save Profile Number Limit : 254		
	IP		
	0.0.0.0		
	0.0.0.0		
	Save – Click this button to save the setting.		
	Add 🖬 Save Profile Number Limit : 254		
	IP		
	192.168.1.85		
	\mathbf{I} – click the icon to remove the selected entry.		
MTU/MRU	Type the value of MTU/MRU. The default value is 1500.		
Connection Detection Mode	Select a detecting mode for this WAN interface. There are three ways ARP , PING and HTTP supported in Vigor		
	router for you to choose to send the request out.		
	PING V		
	None		
	ARP		
	PING		
	HTTP		
Connection Detection Host	This function is available when Connection Detection Mode is set with PING or HTTP .		
	Add – click this button to have a field for adding a new IP		
	ç		
	address. Assign an IP address or Domain name as a		

	destination to be detected whether the host is active (sending reply to the router) or not. If not, the connection of WAN interface will be regarded as breaking down.				
	Connection Detection Mode :	Connection Detection Mode : PING v			
		🕼 Add 🛗 Save			
	Connection Detection Host :	Connection Detection Host 192.168.1.28			
	Connection Detection Interval	- 10			
	Save – click this button to save the setting.				
	$\mathbf{\hat{m}}$ – click the icor	to remove the selected entry.			
Connection Detection Interval	Assign an interval period of time for each detecting.				
Connection Detection Retry	Assign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no reply received by the router, the connection of WAN interface will be regarded as breaking down.				
Apply	Click it to save the	configuration and exit the dialog.			
Cancel	Click it to exit the dialog without saving the configuration.				

• If you choose DHCP as IPv4 protocol type, click the DHCP Tab to open the following page:

neral Setup	Y Y		
Global PPTP St	atic DHCP PF	PPoE StaticV6 DHCPV6 DMZ	
Host Name :	(0	Optional)	
	🕼 Add 💾 Save	, , ,	Profile Number Lin
	IP		
IP Alias :		No items to show.	
MTU/MRU:	1500		
Connection Detection Mode :	ARP		
Connection Detection Interval :	10		
Connection Detection Retry :	3		
Vendor Class ID (option 60) :	((Optional)	
DHCP Client ID (option 61) :	((Optional)	
Specify DNS :	🔵 Enable 💿 Disable		
		111	💾 Apply 🛛 Can

Item	Description		
Host Name (Optional)	Type a name as the host name for identification.		
IP Alias	Type other IP addresses to be bound to this interface. This		



setting is optional. If you have typed addresses here, you can see and choose it in later web page settings (e.g., NAT>>Port Redirection/DMZ Host). Add – To add a new IP address, click Add. Type the IP address and use the drop down list to specify the subnet mask. Next, click Save. The new one will be added and displayed on the field under the box. Image: Save interval Image: Save interval Image: Save interval Forfile Number Limit: 254 Image: Save interval Image: Save interval Image: Save interval Save interval Image: Save interval Image: Save interval Image: Save interval Save interval Image: Save interval Image: Save interval Image: Save interval Image: Save interval Image: Save interval Save interval Image: Save interval Save interval Image: Save interval Image: Save interval		actting is artistal 1	f you have typed addresses have see			
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interface will be regarded as breaking down.Connection Detection Mode :PINGAdd SaveConnection Detection Host :192168.1.28Connection Detection Host :Image: Connection Detection Host :Image: Connection Detection Host :Connection Detection IntervalAssign an interval period of time for each detecting.Connection RetryAssign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no		-				
Connection Detection Mode : PING Add Save Connection Detection Host Connection Detection Host : 192.168.1.28 Save - click this button to save the setting. Image: - click the icon to remove the selected entry. Connection Interval Assign an interval period of time for each detecting. Connection Retry Assign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no						
Connection Detection Host :Image: Connection Detection Host :Save - click this button to save the setting.Image: Connection IntervalConnection IntervalConnection RetryAssign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no		interface will be reg	garded as breaking down.			
Connection Detection Host :Image: Connection Detection Host :Save - click this button to save the setting.Image: Connection IntervalConnection IntervalConnection RetryAssign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no		Connection Detection Mode :	PING			
Connection Detection Host: Instrumentation Detection Host Image: Save - click this button to save the setting. Image: Save - click this button to save the setting. Image: Connection Interval Assign an interval period of time for each detecting. Connection Interval Assign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no			Add 🗎 Save			
Connection Detection Host: 192.168.1.28 Connection Detection Host: 192.168.1.28 Connection Detection Host: Save – click this button to save the setting. Detection Interval Or encode the icon to remove the selected entry. Connection Detection Interval Assign an interval period of time for each detecting. Connection Detection Retry Assign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no						
Image: Connection Detection IntervalConnection intervalAssign an interval period of time for each detecting.Connection Detection RetryAssign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no		Connection Detection Host :				
Image: Connection Detection IntervalConnection intervalAssign an interval period of time for each detecting.Connection Detection RetryAssign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no						
Image: Connection Detection IntervalConnection intervalAssign an interval period of time for each detecting.Connection Detection RetryAssign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no		Connection Detection Inter rel				
Image: Connection Detection IntervalConnection intervalAssign an interval period of time for each detecting.Connection Detection RetryAssign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no		Save – click this bu	tton to save the setting			
Connection Detection IntervalAssign an interval period of time for each detecting.Connection Detection RetryAssign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no		-	tion to suve the setting.			
Detection IntervalAssign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no		— click the icon	to remove the selected entry.			
Detection Retry interface. After passing the times you set in this field and no		Assign an interval p	period of time for each detecting.			
Detection Retry interface. After passing the times you set in this field and no	Connection	Assign detecting tir	nes to ensure the connection of the WAN			
	J	reply received by the router, the connection of WAN				

	interface will be regarded as breaking down.
Vendor Class ID (option 60)	It is used to identify the vendor type and the configuration of a DHCP client.
DHCP Client ID (option 61)	It used to specify a DHCP client identifier in a host declaration, so that DHCP can find the host record by matching against the client identifier.
Specify DNS	 Enable – Click it to enable the function of DNS specified. It is used for local service (e.g., NTP, ping diagnostic) or used for forwarding packets to PC on LAN/VPN. Disable – Click it to disable the function of DNS specified.
DNS	 Add – click this button to have a field for adding a new IP address. Save – click this button to save the setting. — click the icon to remove the selected entry.
Apply	Click it to save the configuration and exit the dialog.
Cancel	Click it to exit the dialog without saving the configuration.

Dray Tek

• If you choose PPPoE as IPv4 protocol type, click the PPPoE Tab to open the following page:

neral Setup	MARKINS C	onorai Soi	un NN Gonora	i konun				
Global PPTF	∘ ∏ s	tatic	DHCP	PPPoE	StaticV6	DHCPV6	DMZ	
Username :	Γ							
Password :								
MTU/MRU :	1	492						
Service Name :				(Optional)				
Debug :		⊖ Enable	💿 Disable					
Always On :		💿 Enable	🔿 Disable					
Fixed IP :		🔿 Enable	💿 Disable					
Connection Detection	on Mode : 🛽	None	~					
		🚯 Add	💾 Save					Profile Number Limit :
		IP						
IP Alias :					No item	ns to show.		
Specify DNS	L	- Enable	Oisable					
SDECILV DINS		- Friable	(•) DISZDIĘ	111				
								💾 Apply 🛛 🔞 Canc

Item	Description		
Username	Type the user name offered by your ISP.		
Password	Type the password offered by your ISP.		
MTU/MRU	Type the value of MTU/MRU. The default value is 1492.		
Service Name	This is an optional setting. Some ISP will offer such information and ask you to type the same data on this field.		
Debug	Click Enable to display the PPPoE debug message in Syslog. The default setting is Disable .		
Always On	 Enable – Click it to enable the function of Always On. The router will keep network connection all the time. Disable – Click it to disable the function of Always On. 		
Fixed IP	Enable – Click it to enable the function of fixed IP. Disable – Click it to disable the function of fixed IP.		
Fixed IP Address	Type the IP address in the boxes.		
Connection Detection Mode	Select a detecting mode for this WAN interface. There are two ways PING and HTTP supported in Vigor router for you to choose to send the request out. PING None PING HTTP		
Connection Detection Host	If you choose PING/HTTP as Connection Detection Mode, you have to specify the detection host address in this field. Use the default setting.		

	Add – Click this button to have a field for adding a new IP				
	address. Assign an IP address or Domain name as a				
	destination to be detected whether the host is active (sending				
	reply to the router) or not. If not, the connection of WAN				
	interface will be regarded as breaking down.				
	Connection Detection Mode : PING				
	Connection Detection Mode .	PING			
		🕼 Add 💾 Save			
		Connection Detection Host			
	Connection Detection Host :	192.168.1.28			
	Connection Detection Interval				
	Save – click this bu	tton to save the setting.			
	— click the icon	to remove the selected entry.			
Connection Detection Interval	Assign an interval period of time for each detecting.				
Connection	Assign detecting til	mes to ensure the connection of the WAN			
Detection Retry		sing the times you set in this field and no			
Detection Refry	-	ne router, the connection of WAN			
	interface will be regarded as breaking down.				
IP Alias	Type other IP addre	sses to be bound to this interface. This			
	setting is optional. I	f you have typed addresses here, you can			
	see and choose it in	later web page settings (e.g.,			
	NAT>>Port Redir	ection/DMZ Host).			
	\mathbf{Add} – Click this bu	tton to display the IP address field for			
	Add – Click this button to display the IP address field for adding a new IP address. Type the IP address on the tipy				
	adding a new IP address. Type the IP address on the tiny boxes one by one.				
	C Add Save Profile Number Limit : 254				
	IP				
	0.0.0	m			
	0.0.0.0				
	Save – After finishe	d the IP address configuration, click			
	Save to save the setting onto the router.				
	🕼 Add 🖿 Save	Profile Number Limit : 254			
	IP				
	192.168.1.85	Ŵ			
	ŵ	-			
	— Click the icon	to remove the selected entry.			
Specify DNS	Enable – Click it to	enable the function of DNS specified.			
	It is used for local s	ervice (e.g., NTP, ping diagnostic) or			
	used for forwarding	packets to PC on LAN/VPN.			



DNS	 Add – click this button to have a field for adding a new IP address. Save – click this button to save the setting. 	
Apply	Click it to save the configuration and exit the dialog.	
Cancel	Click it to exit the dialog without saving the configuration.	

• If you choose PPTP as IPv4 protocol type, click the PPTP Tab to open the following page:

ieral Setup								
Global	PPTP	Static	DHCP	PPPOE	StaticV6	DHCPV6	DMZ	
PPTP Over		Static		~				
Server Add		0.0.0.0						
Username :		0.0.0.0						
Password								
MTU/MRU:		1452						
Debug :		⊖ Ena	ble 💿 Disab	le				
Always On	:	💿 Ena	ble 🔿 Disab	le				
Connection	Detection Mod	e: HTTP		~				
		🚯 Ad	d 💾 Save					Profile Number Li
		Conne	ction Detectio	n Host				
Connection	Detection Host	t:			No ite	ms to show.		
	Data atian Lat							
	Detection Inter	vai: 30						

Item	Description
PPTP Over	Usually ISP dynamically assigns IP address to you each time you connect to it and request. In some case, your ISP provides service to always assign you the same IP address whenever you request. In this case, you can fill in this IP address in the Fixed IP field. Please contact your ISP before you want to use this function.
	Choose a proper protocol, Static or DHCP . After finished the settings in such page, you need to open the Static or DHCP tab for configuring the settings there.
Server Address	Type the IP address of PPTP server offered by your ISP.
Username	Type the user name offered by your ISP.
Password	Type the password offered by your ISP.
MTU/MRU	Type the value of MTU/MRU. The default value is 1452.
Debug	Click Enable to display the PPTP debug message in syslog. The default setting is Disable .
Always On	Enable – Click it to enable the function of Always On. The



	router will keep network connection all the time.
	Disable – Click it to disable the function of Always On.
Connection Detection Mode	Select a detecting mode for this WAN interface. There are two ways PING and HTTP supported in Vigor router for you to choose to send the request out. PING None PING HTTP
Connection Detection Host	If you choose PING/HTTP as Connection Detection Mode, you have to specify the detection host address in this field. Use the default setting. Add – Click this button to have a field for adding a new IP address. Assign an IP address or Domain name as a destination to be detected whether the host is active (sending reply to the router) or not. If not, the connection of WAN interface will be regarded as breaking down.
	Connection Detection Host : (C Save – click this button to save the setting.
	— click the icon to remove the selected entry.
Connection Detection Interval	Assign an interval period of time for each detecting.
Connection Detection Retry	Assign detecting times to ensure the connection of the WAN interface. After passing the times you set in this field and no reply received by the router, the connection of WAN interface will be regarded as breaking down.
Apply	After finished the PPTP configuration, please click Static or DHCP (according to the PPTP Over Protocol setting) to modify the Static/DHCP configuration for such profile. Click it to save the configuration and exit the dialog.
Cancel	Click it to exit the dialog without saving the configuration.

• If you choose Link-Local as IPv6 protocol type

Link-Local address is used for communicating with neighbouring nodes on the same link. It is defined by the address prefix **fe80::/64**. You don't need to setup Link-Local address manually for it is generated automatically according to your MAC Address.

• If you choose PPP as IPv6 protocol type

Simply refer to the section of "*If you choose PPPoE as IPv4 protocol type, click the PPPoE Tab to open the following page*" for detailed information.



• If you choose Static as IPv6 protocol type, click the StaticV6 tab to open the following page:

eral Setup)								(
Global	PPTP	Static	DHCP	PPPoE	StaticV6	DHCPV6	DMZ		
IPv6 Addr	ess :	::							
IPv6 Prefi	ix Length :	64							
IPv6 Gate	way Address :				(Optional)				
		💿 Add	🛗 Save				F	Profile Number Limit : 64	
		IPv6 DN9	6 Server Add	dress					
IPv6 DNS	Server Address	3 C			No item	s to show.			
								F. 9	ply 🙆 Can

Item	Description						
IPv6 Address	Type the IP address for	or such protocol.					
IPv6 Prefix Length	Type your IPv6 addre	ess prefix length.					
IPv6 Gateway Address	Type your IPv6 gatew	vay address.					
IPv6 DNS Server Address	Type your IPv6 prima	ary DNS Server address					
	IPv6 Gateway Address :		(Optional)				
		🕼 Add 🛗 Save					
		IPv6 DNS Server Address					
	IPv6 DNS Server Address :						
	Add – click this button to have a field for adding a new IP address.						
	Save – click this button to save the setting.						
	\mathbf{I} – click the icon to remove the selected entry.						
Apply	Click it to save the co	onfiguration and exit the	dialog.				
Cancel	Click it to exit the dia	log without saving the c	configuration.				

• If you choose DHCP-IA_NA as IPv6 protocol type, click the DHCPV6 Tab to open the following page:

eral Setup									-
Global	PPTP	Stati	ic	DHCP	PPPoE	StaticV6	DHCPV6	DMZ	
		Г							
DHCPv6(IA	_NA) Gateway A	ddress :				(Optional)			
			🚯 Add	Save					
			DHCPv6	(IA_NA) DNS	Address				
DHCPv6(IA	_NA) DNS Addre	SS :				No it	ems to show.		
				111					

Available parameters are listed as follows:

Item	Description
DHCP (IA_NA) Gateway Address	Type the gateway IP address for IPv6 DHCP IA_NA mode.
DHCP (IA_NA) DNS Address	Type your IPv6 primary DNS Server address. Add – click this button to have a field for adding a new IP address.
	Save – click this button to save the setting. $\boxed{10}$ – click the icon to remove the selected entry.
Apply	Click it to save the configuration and exit the dialog.
Cancel	Click it to exit the dialog without saving the configuration.

• If you choose DHCP-IA_PD as IPv6 protocol type

It is not necessary for you to configure any web page.

2. Enter all the settings and click **Apply**. The new added profile will be shown as below.

	🕼 Add 🛛 🔀 E	dit 👖 Dele	te 🛛 🗳 Refres	sh Mode:,	Advance	*		Profile N	umber Limit : 50
	Profile (ma	Enable	Description	VLAN Tag	VLAN ID	Priority(8	Port	IPv4 Prot	IPv6 Proto
1	wan1	true	Marketing	Disable	10	0	WAN1	Static	Link-Local
2	wan2	false		Disable	11	0	WAN2	None	Link-Local
3	wan3	false		Disable	12	0	WAN3	None	Link-Local
4	wan4	false		Disable	13	0	WAN4	None	Link-Local
5	wan5	false		Disable	14	0	WAN5	None	Link-Local



4.1.1.2 USB WAN Profiles

Open WAN>>General Setup and click the USB WAN tab.

Contine Status Profile Enable Description Port Profocol General Setup Load Balance USB1 30/40 PPP usb1 30/40 PPP Load Balance USB2 30/40 PPP usb2 false USB2 30/40 PPP LAN Routing NAT Firewall Objects Setting USE Applications USB Application System Maintenance USB Application Diagnostics Diagnostics USB Application USB Application USB Application USB Application USB Application	Nulline Status XAN General Setup Iusb1 false USB1 30/40 PPP Load Balance Switch USB2 30/40 PPP USB2 30/40 PPP AN Routing Iusb2 false USB2 30/40 PPP Switch Switch USB2 30/40 PPP Iusb2 10/40 PPP Switch Switch Iusb2 False USB2 30/40 PPP Spectrometer Switch Iusb2 False USB2 30/40 PPP Spectrometer Switch Switch Iusb2 False USB2 30/40 PPP Spectrometer Switch Switch Switch Switch Switch Switch Spectrometer Switch Switch Switch Switch Switch Switch Spectromagement Switch Switch	o Logout : Off 🛛 👻	General Setup	USB WAN				
Profile Enable Description Port General Setup usb1 false USB1 30/40 PPP Load Balance usb2 false USB2 30/40 PPP Switch usb2 false USB2 30/40 PPP Nar Routing VSB2 30/40 PPP Objects Setting Usser Management VSB2 VSB2 VSB2 Usb Applications Bandwidth Management VSB Application VSB VSB VSB Diagnostics USB VSB VSB VSB VSB VSB	Profile Enable Description Port Protocol Load Balance usb1 false USB1 30/46 PPP Load Balance usb2 false USB2 30/46 PPP Switch switch switch switch switch switch AN switch switch switch switch switch Switch switch switch switch switch switch Sper Management Spelication switch switch switch switch System Maintenance Switch switch switch switch switch Switch switch switch switch switch switch Switch switch switch switch switch switch Switch switch </th <th>Quick Start Wizard</th> <th>🔀 Edit 🗳 Refr</th> <th>esh</th> <th></th> <th></th> <th></th> <th></th>	Quick Start Wizard	🔀 Edit 🗳 Refr	esh				
General Setup Usb1 false USB1 30/40 PPP Load Balance USb2 false USB2 30/40 PPP Switch Usb2 false USB2 30/40 PPP LAN Routing VSB1 30/40 PPP NAT Firewall VSB2 30/40 PPP Objects Setting VSB2 VSB2 VSB2 User Management VSB2 VSB2 VSB2 VSB Applications VSB2 VSB2 VSB2 System Maintenance Diagnostics VSB VSB VSB	General Setup usb1 false USB1 30/40 PPP Load Balance usb2 false USB2 30/40 PPP Switch switch switch switch switch switch AN Routing switch switch switch switch VAT switch switch switch switch switch Jser Management Jser Management switch switch switch Jser Management Jseplication switch switch switch Jser Management Jseplication switch switch switch Jser Management switch switch switch switch Switch				Description	D +	Desta el	_
Used Balance USB2 30/40 PPP Switch LAN USB2 30/40 PPP LAN Routing Image: Comparison of the second of the	Load Balay Laad Balay Switch AN Routing Sandwidt Management JSB Application System Maintenance System Maintenance System Maintenance Swetch				Description			
Switch Same Rauting NAT Firewall Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics	Loa Isaace Switch AN Routing VAT Diplets Setting Diplets Setting Diplets Setting Ser Management Applications Bandwildth Management JSB Application System Maintenance Diagnostics							
LAN Routing NAT Firewall Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics	AN Routing AAT Ser Management Applications Bandwidth Management JSB Application System Maintenance Dolgnostics	Load Balance	USD2	taise		0882	3G/4G PPP	
Routing NAT Firewall Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics	Routing NAT Ser Management Applications andwidth Management JSB Application System Maintenance Jolagnostics	Switch						
NAT Firewall Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics	NAT Firewall Objects Setting Jser Management Applications Bandwidth Management JSB Application System Maintenance Joignostics External Devices	LAN						
Firewall Objects Setting User Management Applications Bandwidth Management USR Application System Maintenance Diagnostics	Firewall Objects Setting Jser Management Applications Sandwidth Management JSB Application System Maintenance Diagnostics External Devices	Routing						
Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics	Dbjects Setting Jser Management Applications Sandwidth Management JSB Application System Maintenance Diagnostics Sixtemal Devices	NAT						
User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics	Jser Management Applications JSB Application System Maintenance Jolganostics External Devices	Firewall						
Applications Bandwidth Management USB Application System Maintenance Diagnostics	Applications andwidth Management JSB Application System Maintenance Jaganostics Setemal Devices	Objects Setting						
Bandwidth Management USB Application System Maintenance Diagnostics	andwidth Management JSB Application System Maintenance Diagnostics External Devices	User Management						
USB Application System Maintenance Diagnostics	JSB Application System Maintenance Diagnostics Setemal Devices	Applications						
System Maintenance Diagnostics	System Maintenance Diagnostics External Devices	Bandwidth Management						
Diagnostics	Diagnostics External Devices	USB Application						
	External Devices	System Maintenance						
External Devices		Diagnostics						
	Product Registration	External Devices						
Product Registration		Product Registration						

Each item will be explained as follows:

Item	Description
Edit	Modify the selected USB WAN profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Refresh	Renew current web page.
Profile	Display the profile name.
Enable	Display the status of the profile. False means disabled; True means enabled.
Description	Display a brief explanation for such profile.
Port	Display the physical WAN interface for such profile.
Protocol	Display the protocol selected by the profile.

How to edit a USB WAN profile

1. Choose one of the USB WAN profiles and click Edit.

General Setup	JSB WAN	
🔀 Edit 🛭 🗭 Refre	esh	
Profile	Enable	D
usb1	false	

2. The settings under **Global** tab are listed as below:

B WAN			
Global 30	3/4G PPP 4G DHCP		
Profile :	usb1		
Description	(Optional)		
Port :	USB1		
Protocol	3G/4G PPP 🛛		
	3G/4G PPP		
	4G DHCP		
		🔯 Default 🗎 Appl	у 🙆 С
ation			

Item	Description		
Profile	Display the name of the USB WAN profile.		
Enable	Check it to enable the USB WAN profile.		
Description	Give the brief description for such profile.		
Port	Display the physical WAN interface for such profile.		
Protocol	Choose the connection mode for USB WAN. 3G/4G PPP 3G/4G PPP 4G DHCP		

Default	Click it to restore the default settings.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

3. After finished the settings above, click the 3G/4G PPP or 4G DHCP tab (based on the Protocol specified) to display the following page:

			_
Global 3G/4G PPP	4G DHCP		
SIM PIN code :		(Optional)	
Modem Initial String 1	AT&F	(default:AT&F)	
Modem Initial String 2	ATE0V1X1&D2&C1S	(default:ATE0V1X1&D2&C1S0=0)	
APN:	internet	(default:internet)	
Modem Dial String :	ATDT*99#	(default:ATDT*99#)	
PPP Username :		(Optional)	
PPP Password :		(Optional)	



WAN				
Global 3G/40	3 PPP 4G DHCF			
SIM PIN code :		(Optional)		
Network Mode :	4G/3G/2G	👻 (default: 4G/3G/2G)		
APN:	internet			
			🤹 Default 🗎 Appl	ly 🙆 :
			C1 + # P	

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



3G/4G PPP	 SIM PIN code -Type PIN code of the SIM card that will be used to access Internet. Modem Initial String 1-Such value is used to initialize USB modem. Please use the default value. If you have any question, please contact to your ISP. Modem Initial String 2-The initial string 1 is shared with APN. In some cases, user may need another initial AT command to restrict 3G band or do any special settings. APN -APN means Access Point Name which is provided and required by some ISPs. Type the name. Modem Dial String -Such value is used to dial through USB mode. Please use the default value. If you have any question, please contact to your ISP. PPP Username -Type the PPP username (optional). PPP Password -Type the PPP password (optional).
4G DHCP	SIM Pin code –Type PIN code of the SIM card that will be used to access Internet. Network Mode – Force Vigor router to connect Internet with the mode specified here. If you choose 4G/3G/2G as network mode, the router will choose a suitable one according to the actual wireless signal automatically. 4G/3G/2G 4G/3G/2G 4G/3G/2G 4G Only 3G Only 2G Only APN Name – APN means Access Point Name which is provided and required by some ISPs.
Default	Click it to restore the default settings.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

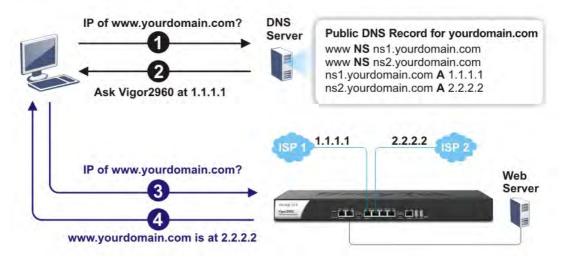
4. Enter all the settings and click **Apply**. The modified profile will be shown as below.

General Setup	USB WAN Bridge VLAN	1		
🔀 Edit 🛭 🛠	Refresh			
Profile	Enable	Description	Port	Protocol
usb1	true	for test	USB1	3G
usb2	false		USB2	3G

4.1.2 Inbound Load Balance

Vigor300B can offer the mapped IP address to respond the DNS query coming from the remote end through the designate domain to reduce the loading of the network traffic.

Inbound Load Balance



Open WAN>>Load Balance and click the Inbound Load Balance tab.

Quick Start Wizard	Enable	🕼 Add 🛛 💥 E	dit 前 Delete	🔹 Refresh				Profile Number Limit :
Online Status MAN	Enable	Domain Name	Mode	IP Mapping	Weight	Alias Interface	IP	Alias Weight
General Setup	LIAME	Domain Name	MOUS		-	Allas likel lace		Alida YYCIYIN
Load Balance				No item	ns to show.			
Switch								
AN								
outing								
AT								
irewall								
bjects Setting								
lser Management								
pplications								
andwidth Management								
ISB Application								
ystem Maintenance								
iagnostics								
xternal Devices								
roduct Registration								

Each item will be explained as follows:

Item	Description
Enable	Check the box the enable inbound load balance function.
Add	Add a new WAN profile for inbound load balance.
Edit	Modify the selected WAN profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.

Delete	Remove the selected WAN profile. To delete a profile, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number of the profiles to be created.
Enable	Display the status of the profile. False means disabled; True means enabled.
Domain Name	Display the domain name used by the profile.
Mode	Display the mode (failover or load balance) applied by the profile.
IP Mapping	Display the WAN interfaces used by the profile.
Weight	Display the weight(s) that WAN interface(s) used.
Alias Interface	Display the WAN interfaces used by the IP alias.
IP	Display the alias IP settings used by the profile.
Alias Weight	Display the weight that the above IP address used.

How to create a new Inbound Load Balance profile

Such page allows you to create a new WAN profile for inbound load balance.

- 1. Open WAN>> Load Balance.
- 2. Simply click the **Add** button to open the following dialog.

ound Load Balance					->
Basic Detail					
🗹 Enable					-
Domain Name :	www.draytek.com				
Mode :	💿 Load Balance 🔘	Failover			
	🕼 Add 🗎 Save		F	Profile Number Limit : 16	
	IP Mapping	W	eight		
Interface Mapping/We	ight : wan1	1		ŵ	
					:
	🏠 Add 💾 Save A	Nias From : 💿 WAN Interface	⊖ Manual Input F	Profile Number Limit : 16	
	Alias Interface	Alias	Weight		
		No items	to show.		
Alias Setting :					
					_
					-
				laak 💾	y 🔇 Cancel

Item	Description
Enable	Check this box to enable such profile.
Domain Name	Type an available domain name to serve the inbound load balance.

	Specify the type (Load Balance or Failover) of the WAN profile for inbound load balance					
There are five levels specified for WAN p	It is available only when Failover is selected as the Mode. There are five levels (Top, 2, 3, 4 and 5) which can be specified for WAN profiles (including default WAN profiles and user-defined WAN profiles).					
	CLoad Balance Sailover					
Interface	Priority					
wan1	3					
wan2	3	,				
wan3	3					
wan4	3					
usb1	3					
usb2	3					
extern	3					
🕼 Add 🛗 Save	Profile Number Limit :	: 16				
IP Manning	Main in the					
Save – Click it to sav IP Mapping – Use the interface profile which	bose a WAN interface and weight. We the settings. The drop down list to choose a WAN th will be used by the domain. The down list to choose the one you we	an				
from the WAN interf DNS query.						
Add – Click it to add	Add – Click it to add a new IP address.					
Save – Click it to sav	ve the settings.					
Alias From WAN In specified from existe	nterface – The alias IP setting can be d WAN IP alias.	•				
	Alias From Manual Input – The alias IP setting can be specified manually. The Alias Interface is not necessary for					
	-	N				
interface profile for t	interface profile for the alias IP setting. Alias – Use the drop down list to choose an alias IP setting (for Alias From WAN Interface) or type an IP address					
Alias – Use the drop (for Alias From WA		g				
such a Alias	method. Interface –Use ace profile for t	specified manually. The Alias Interface is not necessary for such method.Alias Interface –Use the drop down list to choose a WAN				

3. After finished the settings on the **Basic** page, click the **Detail** Tab to open the following dialog.

Basic	Detail							
		– DNS Parameters –						
		TTL:	1800					
		Refresh:	900					
DNS Para	meter :	Retry :	450					
		Expire :	604800					
		Nagative Cache TTL :	1800					
		Email :						
		🕼 Add 🗎 Save				Profile Number Limit	t: 16	
		HOST	Name	e Server	IP Address			
NS Recor	d :			No items to show.				
		🕼 Add 🛗 Save				Profile Number Limi	t: 16	
		Host Ma	il Server	IP Address		Preference		

Item	Description
DNS Parameter	To configure Vigor router as a DNS server, type the related information for applying the function of DNS.
	TTL – It means Time to live of a DNS response. Available setting range is from 0 to 2147483647.
	Refresh – Set the time for the PC in LAN to refresh the data.
	Retry – Set the times of retry if the PC fails to contact with Vigor router before the refreshing expired.
	Expire – PC stops responding to the query from Vigor router when such time setting has expired.
	Negative Cache TTL – Set the negative caching time (name error).
	Email – Type the e-mail address of the administrator.
NS Record	This page is used to specify name server which will be used as DNS server.
	Add – Click it to add a new server with specified name and IP address.
	Save – Click it to save the settings.
	HOST – Type the domain name of the server. This is optional. If no information added here, the router will use the DNS server configured in Domain Name under the Basic tab.
	Name Server – Type the URL for the name server which will be used to receive the DNS query forwarded by HOST.
	IP Address – This is optional. If required, simply type the IP address of the NS record server.
MX Record	This is used to specify the mail server with IP address.
	Add –Click it to add a new server with specified name and IP



	address.
	Save – Click it to save the settings.
	Host –Type the name (URL) of the mail server.
	Mail Server – Type the name (URL) of the mail server.
	IP Address – Type the IP address of the mail server.
	Preference – Set a number for the priority of such mail server.
Additional A	It is used to record the DNS query by IPv4 address.
Record	Add –Click it to add a new host with specified IP address.
	Save – Click it to save the settings.
	Host –Set a domain name.
	IP Address – Type the IP address of the mail server.
AAAA Record	It is used to record the DNS query by IPv6 address.
	Add –Click it to add a new host with specified IPv6 address.
	Save – Click it to save the settings.
	Host – Set a domain name.
	IPv6 Address – Type the IPv6 address of the host.
	Any query concerning of Host will be forwarded to the server selected in Reference for advanced process.
CNAME Record	It is used to record the DNS query for CNAME.
	Add – Click it to add a new host with specified reference.
	Save – Click it to save the settings.
	Host – Set a domain name.
	Reference – Choose a sub domain name from the drop down list.
	Any query concerning of Host will be forwarded to the server selected in Reference for advanced process.

4. Click **Apply**. A new profile will be added on the page.

You can create sub-domain by clicking \blacktriangleright on the left side of the selected inbound load balance profile. A **sub-domain** setting page will appear for you to add new profile.

	Enable	🕼 Add 💙	Edit 👖	🗓 Delete – ≶ Ri	efresh	
	Enable	Domain N	Mode	IP Mapping	Weight	Alias I
4	true	www.drayte	Failover			
	🕼 Add	🔀 Edit 🛛 🕅 D	Delete 🗳	Refresh		
	Enable	Sub Domai	Mode	IP Mapping	Weight	Alias

Note that the configuration is similar to the way stated on the above steps.



4.1.3 Switch

This page allows you to configure Mirroring Port, Mirrored Port, enable/disable WAN interface, and configure 802.1Q VLAN ID for different WAN interfaces, and so on.

4.1.3.1 802.1Q VLAN

Packets passing through the WAN interface might be tagged or untagged with VLAN ID number. It depends on the setting configured in this page for VLAN ID configured in **WAN** >>General Setup>>Profile relates to the VLAN ID setting configured here.

This page simply displays current status of 802.1Q VALN setting profiles.

Quick Start Wizard Online Status	🗢 Refresh			
WAN	VLAN ID	Member	Untag	
General Setup	10	WAN1	WAN1	
Load Balance	11	WAN2	WAN2	
Switch	12	WAN3	WAN3	
LAN	13	WAN4	WAN4	
Routing				
NAT				
Firewall				
Objects Setting				
User Management				
Applications				
Bandwidth Management				
USB Application				
System Maintenance				
Diagnostics				
External Devices				
Product Registration				

Each item will be explained as follows:

Item	Description
Refresh	Click it to reload this page.
VLAN ID	Display the VLAN ID number.
Member	Display number of the WAN interface for the packets tagged with such VLAN ID number to pass through.
Untag	Display number of the WAN interface for the VLAN ID will be untagged for packets passing through the WAN interface selected.

4.1.3.2 Mirror Configuration

The administrator can monitor all the packets passing through mirrored port with the mirroring port. It is useful for the administrator to analyze the troubles on Network.

	WAN >> Switch >> Mirror		6
Auto Logout : Off 🛛 👻	802.1 QVLAN Mirror Interface		
Quick Start Wizard			
Online Status	Enable		
WAN	Mirroring Port : WAN1		
General Setup			
Load Balance	Mirrored Port : WAN2 V		
Switch	WAN1 WAN2		
LAN	WAN3		
Routing	WAN4		
NAT			
Firewall			
Objects Setting			
User Management			
Applications			
Bandwidth Management			
USB Application			
System Maintenance			
Diagnostics			
External Devices			
Product Registration	-		
		💾 Apply	🔕 Cance

Item	Description
Enable This Profile	Check the box to enable the Mirror function for the switch.
Mirroring Port	Select a port for the administrator to use for viewing traffic sent from mirrored ports.
Mirrored Port	Select a port to make the packets passing through it monitored by the administrator.
Apply	Click it to save the configuration.
Cancel	Click it to discard the settings configured in this page.

4.1.3.3 Interface Configuration

This page allows you to modify the status (enable / disable), duplex (Half/Full), speed and 802.3az for the WAN ports respectively.

Quick Start Wizard	🔀 Edit 🗳 Refres				
Online Status					
WAN	Interface	Enable	Duplex	Speed	802.3az
General Setup	WAN1	true	Full	Auto	Enable
Load Balance	WAN2	true	Full	Auto	Enable
Switch	WAN3	true	Full	Auto	Enable
LAN	WAN4	true	Full	Auto	Enable
Routing					
Firewall					
Objects Setting					
User Management					
Applications					
Bandwidth Management					
USB Application					
System Maintenance					
Diagnostics					
External Devices					
Product Registration					

Each item will be explained as follows:

Description
Choose the interface listed below and click the Edit button to modify the settings. A pop up window will appear for you to change the settings.
Interface
Interface : WAN1
Duplex : Full
Speed : Auto 💌
Flow Control: CEnable Disable
802.3az :
🗎 Apply 😵 Cancel
Interface – Display the name of WAN interface.
Enable – Check it to enable such interface.
Speed – Use the drop down list to specify the transmission
rate (Auto, 10M, 100M or 1000M) for such interface.
Flow Control – The default setting is Disable . If Enabled is clicked, Vigor router will drop the packet if too much to handle.
Flow Control – The default setting is Disable . If Enabled is clicked, Vigor router will drop the packet if too much to



	power/energy saving function if required.
	Apply – Click it to save and exit the dialog.
	Cancel – Click it to exit the dialog without saving anything.
Refresh	Renew current web page.
Interface	Display the name of the WAN port on the router.
Enable	Display the status of the profile. False means disabled; True means enabled.
Duplex	Display the duplex used (full or half) by such profile.
Speed	Display the transmission rate (10M, 100M, 1000M or Auto) of the date for such profile.
802.3az	Display such function is enabled or disabled.

4.2 LAN

Local Area Network (LAN) is a group of subnets regulated and ruled by router. The design of network structure is related to what type of public IP addresses coming from your ISP.

The most generic function of Vigor router is NAT. It creates a private subnet of your own. As mentioned previously, the router will talk to other public hosts on the Internet by using public IP address and talking to local hosts by using its private IP address. What NAT does is to translate the packets from private IP address to public IP address to forward the right packets to the right host and vice versa. Besides, Vigor router has a built-in DHCP server that assigns private IP address to each local host.

LAN	
General Setup	
PPPoE Server	
Switch	
Bind IP to MAC	
LAN DNS	

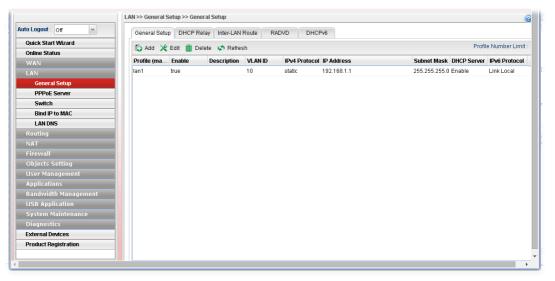
4.2.1 General Setup

This page allows you to configure general settings for PCs in LAN.

Note: One LAN profile shall be enabled at least to keep the normal operation. The default LAN profile named "lan1" shall not be deleted. Otherwise, the system might be damaged. If such file is deleted due to careless, please reset your router to restore the default setting.

4.2.1.1 General Setup

This page allows you to enable the profile, give a brief explanation for such profile, specify the VLAN ID, specify MAC address, and choose protocol type for such profile.



Each item will be explained as follows:

Item	Description
Add	Add a new LAN profile.
Edit	Modify the selected LAN profile.

Dray Tek

	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.	
Delete	Remove the selected LAN profile.	
	To delete a rule, simply select the one you want to delete and click the Delete button.	
Refresh	Renew current web page	
Profile (max length:7)	Display the name of the LAN profile.	
Enable	Display the status of the profile. False means disabled; True means enabled.	
Description	Display the brief explanation for the LAN profile.	
VLAN ID	Display the VLAN ID configured for the LAN profile.	
IPv4 Protocol	Display the IPv4 protocol type for the LAN profile.	
IP Address	Display the IP address for such LAN profile.	
Subnet Mask	Display the subnet mask for such LAN profile.	
DHCP Server	Display the status (Enable/Disable) of the DHCP server.	
IPv6 Protocol	Display the IPv6 protocol type for the LAN profile.	

How to add a new LAN profile

1. Open LAN>>General Setup and click the General Setup tab.

Ge	eneral Setup	DHCP R	elay Inter-L	AN Route	RA
	🕼 Add 🌖	ধ Edit 🛛 👖] Delete 🛛 🦌	🄊 Refresh	I
	Profile (Enable	Descrip	VLAN ID	IPv4

Dray Tek

2. Click the **Add** button to open the following dialog. Different protocol type selected will bring up different configuration web page.

neral Setup			-	1
Profile (max length:7) : Enable				
Description :		(Optional)		
VLAN ID :	1			
Priority(802.1p) :	0	×		
Default MAC Address :	💿 Enable 🔵 Disabl	e		
MAC Address :	00:50:7f:7f:fc:e8			
IPv4 Protocol :	static			
Mode :	NAT	If choose ROUTING mode, packets will not do NAT operation at any WAN :	sid	þ
IP Address :	0.0.0.0			
Subnet Mask :	255.255.255.0/24	v		
Connection Detection Mode :	None	*		
DHCP Server :	💿 Enable 🔵 Disabl	e		
DHCP Start IP :				
DHCP End IP :				
	🕼 Add 🗎 Save	Profile Number Limit: 64		
	DHCP DNS			
DHCP DNS :		No items to show.		
DHCP IP Lease Time :	86400	Seconds (min: 300_MAX: 604800)		
once ie rease time:	00400	Seconds Imin_300_MAX_6048000	•	1

Item	Description		
Profile (max length:7)	Type the name of the LAN profile.		
Enable	Check this box to enable such profile.		
Description	Type the description for the new LAN profile.		
VLAN ID	Type a number as the VLAN ID to make the data be identified while performing data transmission.		
Priority(802.1q)	Type the packet priority number for such profile. The range is from 0 to 7.		
Default MAC Address	 Enable – Click it to enable the default MAC address for such profile. Disable – Click it to type the MAC address manually for such profile. 		
MAC Address	If Default MAC address is disabled, please specify a MAC		



	address manually with the format like "00:1d:aa:b2:69:80".		
IPv4 Protocol	Display the fixed type (static) for the IPv4 protocol for such		
	profile.		
Mode	Choose NAT or ROUTING as the operation mode for such profile.		
IP Address	Type the IP address (with the format like 192.168.1.25) of the router for the LAN profile.		
Subnet Mask	Use the drop down list to choose a suitable mask for the LAN profile.		
Connection	Select a detecting mode for this LAN interface.		
Detection Mode	This feature is used to operate in coordination with Policy Route profile. Vigor system can choose suitable router policy through connection detection automatically.		
Gateway IP Address	It is available when ARP is selected as Connection Detection Mode.		
	Type a public gateway address. Vigor router will detect the destination IP specified here automatically when such LAN profile is used. If the IP is not detected, the connection status for LAN will be shown as "down".		
Connection Detection Interval	It is available when ARP is selected as Connection Detection Mode.		
	Assign an interval period of time for each detecting.		
Connection Detection Retry	It is available when ARP is selected as Connection Detection Mode.		
	Assign detecting times to ensure the connection of the LAN interface. After passing the times you set in this field and no reply received by the router, the connection of LAN interface will be regarded as breaking down.		
DHCP Server	 Enable – Click it to enable the DHCP server. The DHCP server will assign the IP address randomly for the LAN user. The range of the IP addresses must be defined in DHCP Start IP and DHCP End IP. Disable – Click it to disable the DHCP server. 		
DHCP Start IP	Type an IP address as the starting point for DHCP server.		
DHCP End IP	Type an IP address as the ending point for DHCP server.		
DHCP DNS	Set the private IP address for DNS server. If this field is blank, users on LAN will treat Vigor300B as the DNS server. DHCP DNS :		
	Add – Click it to add a new IP address for DNS server. Save – Click it to save the setting.		

DHCP IP Lease Time	Set a lease time for the DHCP server. The time unit is minute.			
DHCP Routers	In general, this box will be blank. It means Vigor300B will be regarded as the gateway for the user. However, if you want to use other gateway, please assign the IP address in this field.			
DHCP Next Server	Type the IP address of the secondary DHCP server.			
DHCP Options	DHCP packets can be pro and data information whe	· ·	-	
	 Each DHCP option is composed by an option number with data. For example, Option number:100 Data: abcd When such function is enabled, the specified values for DHCP option will be seen in DHCP reply packets. 			
	· ·	n in Direr repry pu	Profile Number Limit :	
	Add 🗎 Save	Value	Prome Number Limit.	
	option 56 (Message) option 15 (Domain Name) option 31 (Perform Router Discovery) option 42 (NTP servers) option 43 (Vendor Specific Information option 44 (NetBIOS over TCP/IP Node option 46 (NetBIOS over TCP/IP Scop option 47 (NetBIOS over TCP/IP Scop option 50 (Requested IP Address) option 54 (Server Identifier)	n) e server: e Type)	â	
	Add – Click it to add a n	ew DHCP option pr	ofile.	
	Add – Click it to add a n Save – Click it to save th DHCP Option – Use the you want. Value – Type the content function of DHCP option	e setting. drop down list to cl t of the data to be pr	hoose the one	
More Subnet	 Save – Click it to save the DHCP Option – Use the you want. Value – Type the content function of DHCP option Different subnets can be 	e setting. e drop down list to cl t of the data to be pr created under one L	hoose the one ocessed by the AN profile.	
More Subnet	 Save – Click it to save the DHCP Option – Use the you want. Value – Type the content function of DHCP option Different subnets can be Specify other subnets when 	e setting. e drop down list to cl t of the data to be pr created under one L	hoose the one ocessed by the AN profile.	
More Subnet	 Save – Click it to save the DHCP Option – Use the you want. Value – Type the content function of DHCP option Different subnets can be Specify other subnets where a statement of the save 	e setting. drop down list to cl t of the data to be pr a. created under one L ich might be needed	hoose the one ocessed by the AN profile.	
More Subnet	 Save – Click it to save the DHCP Option – Use the you want. Value – Type the content function of DHCP option Different subnets can be Specify other subnets when 	e setting. e drop down list to cl t of the data to be pr created under one L	hoose the one ocessed by the AN profile.	
More Subnet	Save – Click it to save the DHCP Option – Use the you want. Value – Type the content function of DHCP option Different subnets can be Specify other subnets wh	e setting. e drop down list to cl t of the data to be pr t. created under one L ich might be needed	hoose the one ocessed by the AN profile. I in the future.	
More Subnet	Save – Click it to save the DHCP Option – Use the you want. Value – Type the content function of DHCP option Different subnets can be Specify other subnets wh	e setting. e drop down list to cl t of the data to be pr t. created under one L ich might be needed Subnet Mask Mode 255.255.255.0 NAT 255.255.255.0 NAT	hoose the one ocessed by the AN profile. I in the future.	
More Subnet	 Save – Click it to save the DHCP Option – Use the you want. Value – Type the content function of DHCP option Different subnets can be Specify other subnets where the save is a sav	e setting. e drop down list to cl t of the data to be pr t. created under one L ich might be needed Subnet Mask Mode 255.255.255.0 NAT 255.255.255.0 NAT ew subnet mask with	hoose the one ocessed by the AN profile. I in the future.	
More Subnet	 Save – Click it to save the DHCP Option – Use the you want. Value – Type the content function of DHCP option Different subnets can be Specify other subnets where a specify other subnets where a specified mode. 	e setting. e drop down list to cl t of the data to be pr t. created under one L ich might be needed Subnet Mask Mode 255.255.255.0 NAT 255.255.255.0 NAT ew subnet mask with e settings.	hoose the one ocessed by the AN profile. I in the future.	
More Subnet	 Save – Click it to save the DHCP Option – Use the you want. Value – Type the content function of DHCP option Different subnets can be Specify other subnets where the subnets where the save of the	e setting. e drop down list to cl t of the data to be pr t. created under one L ich might be needed <u>Subnet Mask Mode</u> 255.255.255.0 NAT 255.255.255.0 NAT ew subnet mask with e settings. if you click Add for	hoose the one ocessed by the AN profile. I in the future. I in the future. I in the future.	
More Subnet	 Save – Click it to save the DHCP Option – Use the you want. Value – Type the content function of DHCP option Different subnets can be Specify other subnets where a subnet is subnet where a subnet is subnet in the save of the save o	e setting. e drop down list to cl t of the data to be pr t. created under one L ich might be needed subnet Mask Mode 255.255.255.0 NAT 255.255.255.0 NAT ew subnet mask with e settings. if you click Add for drop down list to ch	hoose the one ocessed by the AN profile. I in the future. I in the future. I in the future.	



	subnet. When it is enabled, you have to specify the IP range to be assigned by the DHCP server for such subnet.	
	Start IP – Type an IP address as a starting point.	
	End IP – Type an IP address as an ending point.	
DNS Redirection	Enable – It can redirect DNS queries from such LAN profile to router's DNS Server. It must work with LAN DNS function.	
IPv6 Protocol	It defines the IPv6 connection types for LAN interface. Possible types contain Link-Local, Static and DHCP-SLA. Except Link-Local, each type requires different parameter settings.	
	Link-Local Link-Local address is used for communicating with neighbouring nodes on the same link. It is defined by the address prefix fe80::/10 . You don't need to setup Link-Local address manually for it is generated automatically according to your MAC Address.	
	Static –This type allows you to setup static IPv6 address for LAN.	
	DHCP-SLA - DHCPv6 client mode would use IA_NA option of DHCPv6 protocol to obtain IPv6 address from server.	
IPv6 Address	If Static is chosen as IPv6 Protocol, please type the IPv6 address in this field.	
IPv6 Prefix Length	Display the IPv6 prefix length.	
DHCPv6 SLA WAN Interface	If DHCP-SLA is chosen as IPv6 Protocol, please choose one of the WAN profiles in this field.	
DHCPv6 SLA ID	The ID number set here is used by an individual organization to create its own local addressing hierarchy and to identify subnets.	
Apply	Click it to save and exit the dialog.	
Cancel	Click it to exit the dialog without saving anything.	

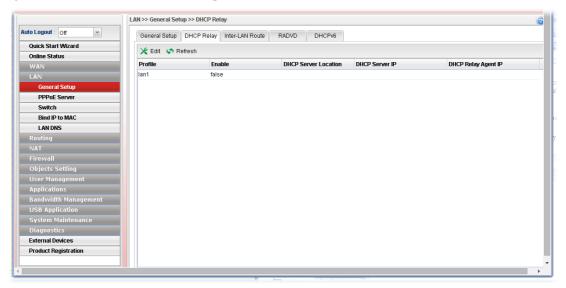
3. When you finish the above settings, please click **Appl**y to save the configuration and exit the dialog.

4.2.1.2 DHCP Relay

DHCP stands for Dynamic Host Configuration Protocol. The router by factory default acts a DHCP server for your network so it automatically dispatch related IP settings to any local user configured as a DHCP client. It is highly recommended that you leave the router enabled as a DHCP server if you do not have a DHCP server for your network.

If you want to use another DHCP server in the network other than the Vigor Router's, you can let **Relay Agent** help you to redirect the DHCP request to the specified location.

This page allows users to specify which subnet that DHCP server is located that the relay agent should redirect the DHCP request to.



Each item will be explained as follows:

Item	Description		
Edit	Modify the selected LAN profile.		
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.		
Refresh	Renew current web page.		
Profile	Display the name of the LAN profile.		
Enable	Display the status of the profile. False means disabled; True means enabled.		
DHCP Server Location	Display the LAN or WAN profile for the DHCP server.		
DHCP Server IP	Display the IP address of DHCP server.		
DHCP Relay Agent IP	Display the IP address of DHCP relay agent server.		

How to edit a LAN profile for DHCP Relay

- 1. Open LAN>>General Setup and click the DHCP Relay tab.
- 2. Choose one of the LAN profiles by clicking on it and click the **Edit** button to open the following dialog.



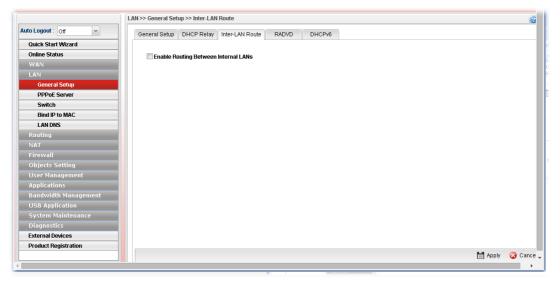
DHCP Relay		-×
Profile : Enable	lan1	
DHCP Server Location :	wan2	~
DHCP Server IP :	192.168.1.56	
DHCP Relay Agent IP :		(Optional)
	💾 App	ly 🔕 Cancel

Item	Description
Profile	Display the name of the LAN profile.
Enable	Check this box to enable this profile.
DHCP Server Location	Choose the interface for the DHCP server.
DHCP Server IP	Type the IP address of DHCP Server.
DHCP Relay Agent IP	Type the IP address of DHCP Relay Agent.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

- 3. When you finish the above settings, please click **Apply** to save the configuration and exit the dialog.
- 4. The LAN profile has been edited.

4.2.1.3 Inter-LAN Route

To make the users in different LAN communicating with each other, please check the box to enable Inter-LAN route function.



4.2.1.4 RADVD

The router advertisement daemon (radvd) sends Router Advertisement messages, specified by RFC 2461, to a local Ethernet LAN periodically and when requested by a node sending a Router Solicitation message. These messages are required for IPv6 stateless auto-configuration.

ito Logout : Off 🛛 👻	General Setup DHCP Relay Inter	-LAN Route RADVD DHCPv6		
Quick Start Wizard	💥 Edit 🗳 Refresh			
Online Status				
WAN	Profile	Enable	Advertisement Lifetime	
LAN	lan1	true	30	
General Setup				
PPPoE Server				
Switch				
Bind IP to MAC				
LAN DNS				
Routing				
NAT				
Firewall				
Objects Setting				
User Management				
Applications				
Bandwidth Management				
USB Application				
System Maintenance				
Diagnostics				
External Devices				
Product Registration				

Each item will be explained as follows:

Item	Description
Edit	Modify the selected LAN profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Refresh	Renew current web page.
Profile	Display the name of the LAN profile.
Enable	Display the status of the profile. False means disabled; True means enabled.
Advertisement Lifetime	Display the lifetime value.
	The lifetime associated with the default router in units of minutes, ranging from $10 \sim 150$. It is used to control the lifetime of the prefix. A lifetime of 0 indicates that the router is not a default router and should not appear on the default router list.

How to edit a LAN profile for RADVD

- 1. Open LAN>>General Setup and click the RADVD tab.
- 2. Choose one of the LAN profiles by clicking on it and click the **Edit** button to open the following dialog.

ADVD		->
Profile : 🗹 Enable	lantes1	
Advertisement L	ifetime : 20	Minutes
		🗂 Apply 🛛 🚱 Cancel

Item	Description
Profile	Display the name of the LAN profile.
Enable	Check this box to enable this profile.
Advertisement Lifetime	Type a value for advertisement lifetime. The lifetime associated with the default router in units of minutes, ranging from 10 ~ 150. It is used to control the lifetime of the prefix. A lifetime of 0 indicates that the router is not a default router and should not appear on the default router list.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

- 3. When you finish the above settings, please click **Appl**y to save the configuration and exit the dialog.
- 4. The LAN profile has been edited.

4.2.1.5 DHCP6

DHCP6 Server could assign IPv6 address to PC according to the Start/End IPv6 address configuration.

uto Logout : Off 🛛 👻	General Set	ip DHCP Relay In	ter-LAN Route R	ADVD DHCPv6		
Quick Start Wizard	🔀 Edit 📢	Pofech				
Online Status						
WAN	Profile	Enable	Mode	Start IP	End IP	DNS
LAN	lan1	false				
General Setup						
PPPoE Server						
Switch						
Bind IP to MAC						
LAN DNS						
Routing						
NAT						
Firewall						
Objects Setting						
User Management						
Applications						
Bandwidth Management						
USB Application						
System Maintenance						
Diagnostics						
External Devices						
Product Registration						

Item	Description
Edit	Modify the selected LAN profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Refresh	Renew current web page.
Profile	Display the name of the LAN profile.
Enable	Display the status of the profile. False means disabled; True means enabled.
Mode	Display the mode (automatic setting or manual setting) specified for such profile.
Start IP	Display the starting IP address of the IP address pool for DHCP server.
End IP	Display the ending IP address of the IP address pool for DHCP server.
DNS	Display the private IP address for DNS server.

How to edit a LAN profile for DHCPv6

- 1. Open LAN>>General Setup and click the DHCPv6 tab.
- 2. Choose one of the LAN profiles by clicking on it and click the **Edit** button to open the following dialog.

Profile : 🗹 Enable	lantes1		
Mode :	Automatic Setting 🛛 👻		
Auto Start IP :			
Auto End IP :	Manual Setting		
	DNS (auto)		
DNS (auto) :		No items to show.	

Item	Description				
Profile	Display the name of the LAN profile.				
Enable	Check this box to enable this profile.				
Mode	Choose Automatic Setting or Manual Setting. Automatic Setting Automatic Setting Manual Setting Manual Setting Manual Setting Manual Setting Start IP, End IP and DNS setting. The system will assign suitable address automatically. Manual Setting – You should type the Start IP address and End IP address manually. DHCPv6 Profile: lantest Mode: Manual Setting Mode: Save NS No items to show				
Start IP	Set the starting IP address of the IP address pool for DHCP server. The format the IP address shall be similar to the following example: 2000:0000:0000:0000:0000:0000:10 or 2000::10.				



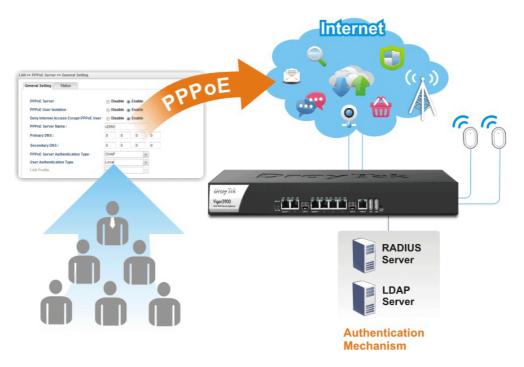
End IP	Set the ending IP address of the IP address pool for DHCP server. The format the IP address shall be similar to the following example: 2000:0000:0000:0000:0000:0000:10 or 2000::10.				
DNS	It is available when Manual Setting is selected as Mode . Set the private IP address for DNS server. If this field is blank, users on LAN will treat Vigor300B as the DNS server.				
	🟠 Add 🛗 Save				
	DNS				
	2000::2				
	DNS :				
	Add – Click it to add a new IP address for DNS server.				
	Save – Click it to save the setting.				
	\blacksquare – click the icon to remove the selected entry.				
Apply	Click it to save and exit the dialog.				
Cancel	Click it to exit the dialog without saving anything.				

- 3. When you finish the above settings, please click **Appl**y to save the configuration and exit the dialog.
- 4. The LAN profile has been edited.

4.2.2 PPPoE Server

This feature makes the router working like an ISP, providing PPPoE connections to LAN PCs. The only difference is that local PCs don't need an ADSL modem.

There are several advantages of using PPPoE connections on the LAN. Firstly, the PPPoE server can secure the LAN PC connections with username/password authentication. Secondly, it can prevent ARP attack by nature. Thirdly, the system administrator can configure quota (time/traffic based) for each user as ISP does.



4.2.2.1 Online Client Status

This page displays general information for PPPoE server; allows you to disconnect the network connection to PPPoE server.

uto Logout : Off 🛛 🗸	Online Client Status G	eneral Setting Hist	iny			
Quick Start Wizard	X Disconnect Auto Re	efresh : 1 Minute	🔹 Refresh			
Online Status						
WAN	MAC Address	User Name	IP Address	Up Time	RX Bytes	TX Bytes
LAN			No i	items to show.		
General Setup						
PPPoE Server						
Switch						
Bind IP to MAC						
LAN DNS						
Routing						
NAT						
Firewall						
Objects Setting						
User Management						
Applications						
Bandwidth Management						
USB Application						
System Maintenance						
Diagnostics						
External Devices						
Product Registration						

Item	Description
Disconnect	Click it to disconnect the profile connection.
Auto Refresh	Specify the interval of refresh time to obtain the latest status. The information will update immediately when the Refresh button is clicked.
Refresh	Renew current web page.
MAC Address	Display the MAC address of the client's host.
User Name	Display the user name used to access into the PPPoE server.
IP Address	Display the IP address of the client's host.
Up Time	Display the time that the PPPoE connection built.
RX Bytes	Display the total amount of received packets.
TX Bytes	Display the total amount of transmitted packets.

4.2.2.2 General Setting

Auto Logout: Online Status Oucick Start Wizard Online Status WAN LAN General Setup PPPoE Server PPDoE Server Switch Bind IP to MAC LAN DNS Routing NAT Firewall Objects Setting User Management Applications Bandwidth Management User Authentication Type: Local Uf Poil Relay: Disable © Enable Enable Contract Officiation Status Service Name: (Optional) Primary DNS: 0.0.0.0 Secondary DNS: 0.0.0.0 DICP Relay: © Disable © Enable Phote Server Authentication Type: Local (If you use LDAP for PPP Authentication, Authentication Protocol will auto set to PAP) DICP Relay: © Disable © Enable Phote Server Authentication Type: Local (If you use LDAP for PPP Authentication, Authentication Protocol will auto set to PAP) DICP Relay: © Disable © Enable Phote Server Authentication Type: Local (If you use LDAP for PPP Authentication, Authentication Protocol will auto set to PAP) DICP Relay: © Disable © Enable Phote Server Authentication Type: Local (If you use LDAP for PPP Authentication, Authentication Protocol will auto set to PAP) DICP Relay: © Dice Relay: © Disable © Enable Phote Server Authentication Type: Local (If you use LDAP for PPP Authentication, Authentication Protocol will auto set to PAP) DICP Relay: © Dice Relay: Phote Server Authentication Type: Local (If you use LDAP for PPP Authentication, Authentication Protocol		LAN >> PPPoE Server >> General Setting	6
Online Status Online Status WAN UAN LAN General Setup PPPoE Server Switch Bind Pto MAC LAN DNS Routing NAT Firewall Objects Setting User Authentication Type: Low Daniel Contraction User Authentication Type: Low Daniel Contraction Bind Vidth Management Applications Bandwidth Management USE Application System Maintenance Diagostics Product Registration	Auto Logout : Off 🛛 🗸	Online Client Status General Setting	History
WAN PPPoE User Isolation: Image: Constraint of the server isolation in the server isolation isolatisolation isolatisolation isolation isola	Quick Start Wizard		
LAN PPPoE User Isolation : ● Disable ● Enable General Setup Performent Access Except PPPoE User : ● Disable ● Enable PPPoE Server Ø Deny Internet Access Except PPPoE User : ● Disable ● Enable Switch Bind Ir to MAC Ø OD 0.0 LAN DNS Bord Ir to MAC Ø Disable ● Disable ● Contrator (AC) Name : Ø OD 0.0 Routing PPPoE Server Authentication Type : Ø 0.0 0.0 Ø Contrator (AC) Name : Ø OD 0.0 NAT Ø Deny Everer Authentication Type : Ø 0.0 0.0 Ø Deny Everer Authentication Type : Ø Ducal Objects Setting User Authentication Type : Ø Ducal Ø Disable ● Enable User Management Ø Disable ● Disable ● Enable Ø Disable ● Enable USB Application Ø Disable ● Disable ● Enable Ø Disable ● Enable Pringopstics Ø Disable ● Disable ● Disable ● Disable ● Disable Ø Disable ● Disable Product Registration Ø Disable ● Disable ● D	Online Status	PPPoE Server	Disable Description
PPPoE Server Switch Bind Pt of MAC Diand Pt of MAC LAN DNS Routing NAT Firewall Objects Setting User Management Applications Bandwidth Management USS Application System Maintenance Diagnostics External Devices Product Registration		PPPoE User Isolation :	🖲 Disable 🔘 Enable
Switch 0000 Bind IP to MAC (Optional) LAN DNS 0.0.0 Routing Secondary DNS : 0.0.0 NAT PPPoE Server Authentication Type : CHAP Firewall User Authentication Type : Local Objects Setting DHCP Relay : Image:	General Setup	Deny Internet Access Except PPPoE Use	er :
Bind IP to MAC [Cuputonal] LAN DNS 0.0.0 Routing Scondary DNS: NAT 0.0.0 Firewall User Authentication Type: Objects Setting DHCP Relay: Objects Setting DHCP Relay: USB Application Bandwidth Management USB Application System Maintenance Diagostics External Devices Product Registration Image: Image Devices	PPPoE Server	Access Concentrator(AC) Name :	v300B
LAN DNS Primary DNS : 0.0.0 Routing Secondary DNS : 0.0.0 NAT Disadic CHAP Firewall User Authentication Type : Local Objects Setting DHCP Relay : Image: CHAP User Management DHCP Relay : Image: CHAP USB Applications Disable Enable External Devices External Devices Product Registration Image: CHAP	Switch	Service Name :	(Optional)
LAN DNS Secondary DNS: D.0.0 Routing PPPoE Server Authentication Type: CHAP Firewall User Authentication Type: Local Objects Setting DHCP Relay: Image: Disable Bandwidth Management USB Application USB Application System Maintenance Diagnostics External Devices	Bind IP to MAC	Primary DNS :	0000
Not PPPoE Server Authentication Type: User Authenticatication Type: User Authenticat			
Since wall User Authentication Type :	-		
Objects Setting DHCP Relay: Disable Enable User Management Bandwidth Management USB Application System Maintenance Diagostics External Devices Product Registration			
User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics External Devices Product Registration		User Authentication Type :	Local (If you use LDAP for PPP Authentication, Authentication Protocol will auto set to PAP)
Applications Bandwidth Management USB Application System Maintenance Diagnostics External Devices Product Registration		DHCP Relay	🖲 Disable 🔘 Enable
Bandwidth Management USB Application System Maintenance Diagnostics External Devices Product Registration	-		
USB Application System Maintenance Diagnostics External Devices Product Registration	Applications		
System Maintenance Diagnostics External Devices Product Registration	Bandwidth Management		
Diagnostics External Devices Product Registration	USB Application		
External Devices Product Registration	System Maintenance		
Product Registration	Diagnostics		
	External Devices		
📑 Apply 😪 Cance	Product Registration		
			💾 Apply 🛛 😵 Cance

Item	Description
PPPoE Server	Disable – Click it to disable this function.
	Enable – Click it to enable the function of PPPoE server.
PPPoE User Isolation	Disable – Click it to disable this function.
	Enable – Click it to isolate the PPPoE users who access into Internet via Vigor router
Deny Internet Access Except PPPoE User	Disable –Click it to disable this function. Enable – If you click Enable , only the PPPoE user can
	access into Internet.
Access Concentrator (AC) Name	Type the name which will be reported as the access concentrator name.
Service Name	Type a specific string for authentication.
	It causes the named service to be advertised in a Service Name tagged in the PADO (PPPoE Active Discovery Offer) frame.
Primary DNS	Type an IP address as primary DNS.
Secondary DNS	Type another IP address as secondary DNS.
PPPoE Server Authentication Type	Choose the authentication type for PPPoE server.
User Authentication Type	Users in LAN can access into Internet through Vigor router with RADIUS, LDAP or local authentication. Specify the type for the users.



	Local
LDAP profiles	It is available when LDAP is selected as User Authentication Type.
	If you choose LDAP as the authentication type, use the drop down list to specify the LDAP profile.
DHCP From	It is available when RADIUS is selected as User Authentication Type.
DHCP Relay	Enable - If you want to use another DHCP server in the network other than the Vigor Router's, you can let Relay Agent help you to redirect the DHCP request to the specified location.
	DHCP Server Location – Choose one of the interfaces for DHCP server.
	DHCP Server IP Address - Set the IP address of the DHCP server you are going to use so DHCP Relay can help to forward the DHCP request to the DHCP server.
Apply	Click it to save and exit the dialog.
Cancel	Click it to discard current page modification.

4.2.2.3 History

This page displays records of connection status (up or down) and the connection time and the name of the user who accesses into PPPoE server of such router.

	LAN >> PPPoE Server >> His	story		
uto Logout : Off 🛛 👻	Online Client Status G	eneral Setting History		
Quick Start Wizard	PPPoE Connection State	us		
Online Status	User Name	Action	Time	
WAN	o o o i marine	2.000		
LAN			No items to show.	
General Setup				
PPPoE Server				
Switch				
Bind IP to MAC				
LAN DNS				
Routing				
Firewall				
Objects Setting				
User Management				
Applications				
Bandwidth Management				
USB Application				
System Maintenance				
Diagnostics				
External Devices				
Product Registration				

Item	Description
User Name	Display the user name used to access into the PPPoE server.
Action	Display the connection status (up or down) of the user account.



Time	Display the connection time.
	If the action is "Down", such field will display the total connection time.
	If the action is "up", such field will display the time point that the user account access into the PPPoE server.

4.2.3 Switch

This page allows you to configure Mirroring Port, Mirrored Port, enable/disable LAN interface, and configure 802.1Q VLAN ID for different LAN interfaces, and so on.

4.2.3.1 802.1Q VLAN

Virtual LANs (VLANs) are logical, independent workgroups within a network. These workgroups communicate as if they had a physical connection to the network. However, VLANs are not limited by the hardware constraints that physically connect traditional LAN segments to a network. As a result, VLANs allow the network manager to segment the network with a logical, hierarchical structure. VLANs can define a network by application or department. For instance, in the enterprise, a company might create one VLAN for multimedia users and another for e-mail users; or a company might have one VLAN for its Engineering Department, another for its Marketing Department, and another for its guest who can only use Internet not Intranet. VLANs can also be set up according to the organization structure within a company. For example, the company president might have his own VLAN, his executive staff might have a different VLAN, and the remaining employees might have yet a different VLAN. VLANs can also set up according to different company in the same building to save the money and reduce the device establishment.

User can select some ports to add into a VLAN group. In one VLAN group, the port number can be single one or more.

The purpose of VLAN is to isolate traffic between different users and it can provide better security application.

uto Logout : Off 🛛 🗸	802.1 Q VLAN Mirror	Interface Jumbo Frame		
Quick Start Wizard	🕼 Add 🔀 Edit 🏢 D	iolata 🍊 Bafrach	Profile Num	iber Limit
Online Status				
WAN	VLAN ID	Member	Untag	
LAN	10	LAN_Port_1,LAN_Port_2	LAN_Port_1,LAN_Port_2	
General Setup				
PPPoE Server				
Switch				
Bind IP to MAC				
LAN DNS				
Routing				
NAT				
Firewall				
Objects Setting				
User Management				
Applications				
Bandwidth Management				
USB Application				
System Maintenance				
Diagnostics				
External Devices				
Product Registration				

Item	Description
Add	Add a new VLAN ID setting.

Edit	Modify the selected VLAN ID setting.
	To edit VALN ID setting, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected VLAN ID setting.
	To delete a VLAN ID setting, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number of the profiles to be created.
VLAN ID	Display the VLAN ID number.
Member	Display the LAN interface that is used to access into Internet for such LAN profile with the VLAN ID number.
Untag	Display the LAN interface that packets transmitted to Internet through such LAN profile with the VLAN ID number is tagged or untagged.

How to add a new 802.1Q VLAN profile

- 1. Open LAN>>Switch and click the 802.1Q VLAN tab.
- 2. Click the **Add** button.
- 3. The following dialog will appear.

802.1Q VLAN		
VLAN ID :		
Member :		~
Untag :		~
	LAN_Port_1 LAN_Port_2 Apply 😣	Cancel

Item	Description
VLAN ID	Type the number as the VLAN ID. Type a number used for identification on VLAN for your computer. Later, you have to type the same ID number for each PC which wants to be grouped within the same VLAN group.
Member	Determine which LAN interface can be used to access into Internet for such LAN profile with the VLAN ID number. If the icon ⁽¹⁾ appears in front of the drop down list, it means one of the selections has been chosen by other profile. You cannot choose it. If you want to specify that one for such

	profile, please exit this dialog to release that selection from its original VLAN profile, than return this page and make the selection again.
Untag	Determine if the packets transmitted to Internet through such LAN profile with the VLAN ID number is tagged or not. If the icon ⁽¹⁾ appears in front of the drop down list, it means one of the selections has been chosen by other profile. You cannot choose it. If you want to specify that one for such profile, please exit this dialog to release that selection from its original VLAN profile, than return this page and make the selection again.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

4. Enter all the settings and click **Apply**. The new profile will be added on the screen.

4.2.3.2 Mirror

Vigor300B supports port mirroring function in LAN interfaces. This mechanism helps manager track the network errors or abnormal packets transmission without interrupting the flow of data access the network. By the way, user can apply this function to monitor all traffics which user needs to check.

There are some advantages supported in this feature. Firstly, it is more economical without other detecting equipments to be set up. Secondly, it may be able to view traffic on one or more ports within a VLAN at the same time. Thirdly, it can transfer all data traffics to be mirrored to one analyzer connect to the mirroring port. Last, it is more convenient and easy to configure in user's interface.

uto Logout : Off Quick Start Wizard Online Status WAN	802:10 VLAN Mirror Interface Jumbo Frame	
Online Status		
WAN	Enable	
	Mirroring Port : LAN_Port_2	
LAN		
General Setup	Mirrored Port : LAN_Port_1	
PPPoE Server		
Switch		
Bind IP to MAC		
LAN DNS		
Routing		
NAT		
Firewall		
Objects Setting		
User Management		
Applications		
Bandwidth Management		
USB Application		
System Maintenance		
Diagnostics		
External Devices		
Product Registration		💾 Apply 🛛 😵 Ca



Item	Description
Enable This Profile	Check the box to enable the Mirror function for the switch.
Mirroring Port	Select a port to view traffic sent from mirrored ports.
Mirrored Port	Select which port is necessary to be mirrored.
Refresh	Renew current web page.
Apply	Click it to save the settings.

4.2.3.3 Interface

This page allows you to modify the status (enable / disable), speed(Auto,10M,100M,1000M) and duplex (Half/Full) for the LAN ports respectively.

to Logout : Off 🛛 🗸	802.1Q VLAN	Mirror Interface	Jumbo Frame				
Quick Start Wizard	🔀 Edit 🛭 🐼 Refi	rech					
Online Status							
WAN	Interface	Enable	Duplex	Speed	802.3az	Note	
LAN	LAN_Port_1	true	Full	Auto	Enable		
General Setup	LAN_Port_2	true	Full	Auto	Enable		
PPPoE Server							
Switch							
Bind IP to MAC							
LAN DNS							
Routing							
Firewall							
Objects Setting							
User Management							
Applications							
Bandwidth Management							
USB Application							
System Maintenance							
Diagnostics							
External Devices							
Product Registration							

Item	Description
Edit	Choose the interface listed below and click the Edit button to modify the settings. A pop up window will appear for you to change the settings.
Refresh	Renew current web page.
Interface	Display the profile name of the interface.
Enable	Display the status of the profile. False means disabled; True means enabled.
Duplex	Display the duplex used (full or half) by such profile.
Speed	Display the transmission rate (10M, 100M, 1000M or Auto) of the date for such profile.
802.3az	Display such function is enabled or disabled.

How to edit an Interface profile

- 1. Open LAN>>Switch and click the Interface tab.
- 2. Please select a profile and click the **Edit** button.
- 3. The following dialog will appear.

	: LAN_Port_1		
📝 Enabl	e 		
Duplex :	Full	~	
Speed :	Auto	~	
802.3az :	🖲 Enable 🔵 🛛	isable (Energy Efficient Ethe	ernet)
Note :		e connection may result in d onnect auto to auto and fixed	luplex mismatch and become very slow. to fixed mode.

Available parameters are listed as follows:

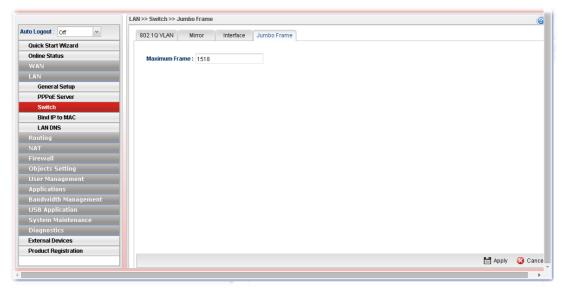
Item	Description
Interface	Display the name of LAN interface profile.
Enable	Check the box to enable the Mirror function for the switch.
Speed	Use the drop down list to specify the transmission rate for such profile.
802.3az	It is a function of energy-efficient Ethernet. It can detect the network traffic automatically to adjust the power output and let Vigor300B save the energy during the period of low traffic.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

4. Enter all the settings and click **Apply**. The profile has been edited.

4.2.3.4 Jumbo Frame

The purpose of Jumbo Frame is to increase the transmission rate for the packets coming from LAN via enlarging data size.

MTU (Max Transmit Unit) determines the largest size of a packet. When a packet with large size is transmitted through Vigor router, the router will cut it into several segments to facilitate the transmission. It always takes a lot of time. To reduce the sending number of times, wasted bandwidth and transmission time, use Jumbo Frame to enlarge the size of the data and speed up the transmission rate for packets coming from LAN.



4.2.4 Bind IP to MAC

This function is used to bind the IP and MAC address in LAN to have a strengthen control in network. When this function is enabled, all the assigned IP and MAC address binding together cannot be changed. If you modified the binding IP or MAC address, it might cause you not access into the Internet.

Quick Start Wizard	ARP Table			Bind Table		
Online Status	对 Select All 🔹 Move	🔄 Refresh		ina 🛠 da 🚳	t 前 Delete 📝 Select All	(8 Rename 📑 Exn
WAN						
LAN	Mode : Disable 👻		💾 Apply	Profile	IP Address	MAC
General Setup	IP	Mac Address				No items to show.
PPPoE Server	192.168.1.5	00:05:5d:e4:d8:ee				
Switch						
Bind IP to MAC						
LANDNS						
Routing						
NAT						
Firewall						
Objects Setting						
User Management						
Applications						
Bandwidth Management						
USB Application						
System Maintenance						
Diagnostics						
External Devices						
Product Registration						

Item	Description			
ARP Table	This table is the LAN ARP table of this router. The information for IP and MAC will be displayed in this field. Each pair of IP and MAC address listed in ARP table can be selected and added to IP Bind List by clicking Move on IP Bind List.			
	Mode -			
	• Enable - Choose it to invoke this function. However, IP/MAC which is not listed in IP Bind List also can connect to Internet.			
	• Disable - Choose it to disable this function. All the settings on this page will be invalid.			
	• Strict Bind – Choose it to lock the connection of the IP/MAC which is not listed in IP Bind List.			
	Select All - Allow you to choose all the items listed in ARP Table.			
	Move -Move the selected item to IP Bind List.			
	Refresh - It is used to refresh the ARP table. When there is one new PC added to the LAN, you can click this link to obtain the newly ARP table information.			
	IP Address - Display the IP address of one device.			
	MAC Address - Display the MAC address of the device.			
Bind Table	It displays a list for the IP bind to MAC information.			
	Add -It allows you to add one pair of IP/MAC address and			

 display on the table of IP Bind List. Edit -It allows you to edit and modify the selected IP address and MAC address that you create before. Delete -You can remove any item listed in IP Bind List. Simply click and select the one, and click Delete. The selected item will be removed from the IP Bind List. Select All -Choose all of the selections at one time. Rename -Allow to modify the selected profile name. Export – The list for the IP bind to MAC information can be stored as a text file. Such file can be imported by other Vigor router. Thus, it is not necessary for that router to create Bind IP to MAC one by one. Import – Click it to import an IP bind to MAC information (e.g., 123.txt) obtained from other Vigor router and to be applied by Vigor300B. Profile - Display the name of the profile. IP Address - Display the IP address specified for the profile. MAC - Display the brief description for such profile. 	
 address and MAC address that you create before. Delete -You can remove any item listed in IP Bind List. Simply click and select the one, and click Delete. The selected item will be removed from the IP Bind List. Select All -Choose all of the selections at one time. Rename -Allow to modify the selected profile name. Export – The list for the IP bind to MAC information can be stored as a text file. Such file can be imported by other Vigor router. Thus, it is not necessary for that router to create Bind IP to MAC one by one. Import – Click it to import an IP bind to MAC information (e.g., 123.txt) obtained from other Vigor router and to be applied by Vigor300B. Profile - Display the name of the profile. IP Address - Display the IP address specified for the profile. 	display on the table of IP Bind List .
 Simply click and select the one, and click Delete. The selected item will be removed from the IP Bind List. Select All -Choose all of the selections at one time. Rename -Allow to modify the selected profile name. Export – The list for the IP bind to MAC information can be stored as a text file. Such file can be imported by other Vigor router. Thus, it is not necessary for that router to create Bind IP to MAC one by one. Import – Click it to import an IP bind to MAC information (e.g., 123.txt) obtained from other Vigor router and to be applied by Vigor300B. Profile - Display the name of the profile. IP Address - Display the IP address specified for the profile. 	• •
 Rename -Allow to modify the selected profile name. Export – The list for the IP bind to MAC information can be stored as a text file. Such file can be imported by other Vigor router. Thus, it is not necessary for that router to create Bind IP to MAC one by one. Import – Click it to import an IP bind to MAC information (e.g., 123.txt) obtained from other Vigor router and to be applied by Vigor300B. Profile - Display the name of the profile. IP Address - Display the IP address specified for the profile. MAC - Display the MAC address specified for the profile. 	Simply click and select the one, and click Delete. The
 Export – The list for the IP bind to MAC information can be stored as a text file. Such file can be imported by other Vigor router. Thus, it is not necessary for that router to create Bind IP to MAC one by one. Import – Click it to import an IP bind to MAC information (e.g., 123.txt) obtained from other Vigor router and to be applied by Vigor300B. Profile - Display the name of the profile. IP Address - Display the IP address specified for the profile. MAC - Display the MAC address specified for the profile. 	Select All -Choose all of the selections at one time.
 stored as a text file. Such file can be imported by other Vigor router. Thus, it is not necessary for that router to create Bind IP to MAC one by one. Import – Click it to import an IP bind to MAC information (e.g., 123.txt) obtained from other Vigor router and to be applied by Vigor300B. Profile - Display the name of the profile. IP Address - Display the IP address specified for the profile. MAC - Display the MAC address specified for the profile. 	Rename -Allow to modify the selected profile name.
 (e.g., 123.txt) obtained from other Vigor router and to be applied by Vigor300B. Profile - Display the name of the profile. IP Address - Display the IP address specified for the profile. MAC - Display the MAC address specified for the profile. 	stored as a text file. Such file can be imported by other Vigor router. Thus, it is not necessary for that router to create Bind
IP Address - Display the IP address specified for the profile.MAC - Display the MAC address specified for the profile.	(e.g., 123.txt) obtained from other Vigor router and to be
MAC - Display the MAC address specified for the profile.	Profile - Display the name of the profile.
	IP Address - Display the IP address specified for the profile.
Comment – Display the brief description for such profile.	MAC - Display the MAC address specified for the profile.
	Comment – Display the brief description for such profile.

How to configure Bind IP to MAC

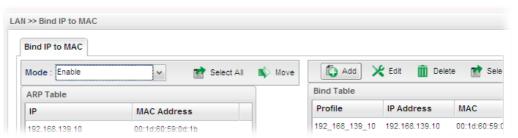
- 1. Open LAN>>Bind IP to MAC.
- 2. Use the drop down menu to specify a suitable mode.

:	Disable	~
-	Disable	
	Enable	
Ο.	Strict Bind	

There are three modes offered for you to choose.

- **Disable** The function of Bind IP to MAC is disabled.
- **Enable** Specified IP addresses on the Bind Table will be reserved for the device with bind MAC address. Other devices which are not listed on the Bind Table shall still get the IP address from DHCP server.
- Strict Bind Only specified IP addresses will be assigned to the device with bind MAC address. Other devices which are not listed on the Bind Table shall still **NOT** get the IP address from DHCP server.

3. Click Add.



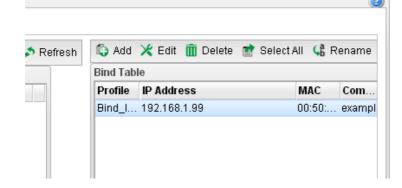
4. The following dialog appears.

Profile :	Bind_IP	
IP Address :	192.168.1.99	
MAC :	00:50:7F:CA:8E:90	
Comment :	example	(Optional)

Available parameters are listed as follows:

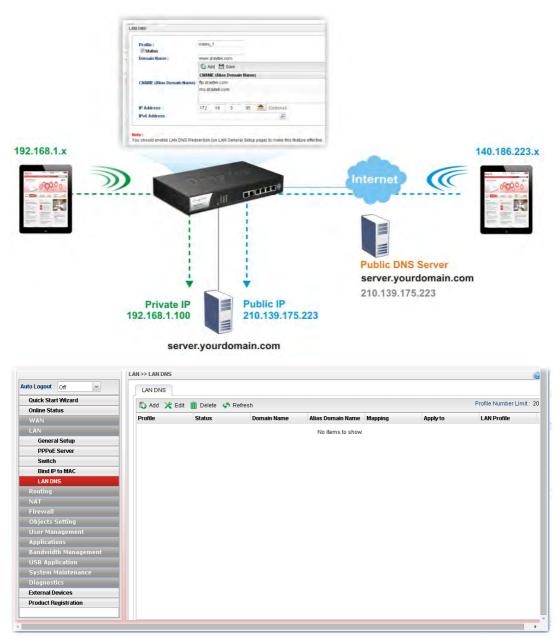
Item	Description	
Profile	Type the name of the profile.	
IP Address	Type the IP address that will be used for the specified MAC address.	
MAC	Type the MAC address that is used to bind with the assigned IP address.	
Comment	Type a brief description for such profile.	
Apply	Click it to save and exit the dialog.	
Cancel	Click it to exit the dialog without saving anything.	

- 5. Enter all the settings and click **Apply**.
- 6. A new profile has been added onto **Bind Table**.



4.2.5 LAN DNS

LAN DNS is a simple version of DNS server. It is not necessary for the user to build another DNS server in LAN. With such feature, the user can configure some services (such as ftp, www or database) with domain name which is easy to be accessed.



Item	Description
Add	Add a new VLAN ID setting.
Edit	Modify the selected VLAN ID setting.
	To edit VALN ID setting, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected VLAN ID setting.



	To delete a VLAN ID setting, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number of the profiles to be created.
Profile	Display the name of the profile.
Status	Display if such profile is enabled (true) or disabled (false).
Domain Name	Display the domain name configured for such profile.
Alias Domain Name	Display the alias domain name for such profile.
Mapping	Display the IP address that domain name and domain name alias will be mapped to.
Applied to	Display which type (Specified LAN or All LANs) the LAN DNS will be applied to.
LAN Profile	Display the LAN profile selected for applying LAN DNS configuration.

How to add a new LAN DNS profile

- 1. Open LAN>>LAN DNS.
- 2. Click the **Add** button.
- 3. The following dialog will appear.

Profile :	marketing	
Status 🗹		
Domain Name :	www.draytek.com	
	🕼 Add Save	Profile Number Limit :
	Alias Domain Name	
Alias Domain Name :	www.dt.com	â
IP Address : IPv6 Address :	172.16.3.89	
Apply to :	Specified LANs	
LAN Profile :	lan1 💌 🔀	
	V lan1	

Item	Description
Profile	Type a name for such profile.
Status	Check the box to enable such profile.

Domain Name	Type the domain name for such profile.
Alias Domain Name	Type several domain names in this field. LAN DNS will redirect both Domain name and Alias Domain Name to an assigned IP.
	For example, Domain Name is set with "www.draytek.com", and the Alias Domain Name is set as "www.dray.com". If the IP address is set with "192.168.1.123", then both "www.draytek.com" and "www.dray.com" will be directed to "192.168.1.123".
Туре	When you choose IP , you need to type IP address and/or IPv6 address as the mapping target.
	When you choose CNAME , you need to type the content (domain) of CNAME as the mapping target.
	Please choose the suitable type to determine which IP address or CNAME will be mapped by the above domain name/alias domain name.
IP Address	Type the IP address in this field. Then, the above domain and/or alias domain name will be mapped to such IP address.
IPv6 Address	Type the IPv6 address in this field. Then, the above domain and/or alias domain name will be mapped to such IPv6 address.
CNAME	Type another domain name in this field. Then, the above domain and/or alias domain name will be mapped to such specified domain.
Applied to	LAN DNS can be applied to specified LAN interfaces or all of the LAN interfaces.
	LAN Profile – When you choose Specified LANs , it is necessary to specify at least one LAN profile in this field.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

4. Enter all of the settings and click **Apply**. The new profile will be added on the screen.

4.3 Routing

This menu contains Static Route, RIP Configuration, OSPF Configuration and BGP Configurations.

Ra	outing
	Load Balance Pool
	Static Route
	Policy Route
	Default Route
	RIP Configuration
	OSPF Configuration
	BGP Configuration

4.3.1 Load Balance Pool

Vigor300B supports a load balancing function. It can assign traffic with protocol type, IP address for specific host, a subnet of hosts, and port range to be allocated in WAN interface. User can assign traffic category and force it to go to dedicate network interface based on the following web page setup.

In the Routing group, click the Load Balance Pool option.

This page allows the user to integrate **several** WAN profiles as a pool profile specified with the function of load balance or failover. The profiles configured here will be selected in the field of **Routing** >>**Default Route** page.

Logout : Off	Load Balance Pool				
Quick Start Wizard	🔁 Add 🔀 Edit 🚺	👖 Delete 🛭 📢 Refresh			Profile Number Limit
Online Status	Profile	Mode	Interface	Primary Profile	Backup Profile
#AN	default_pool	Load Balance	wan1 1,wan2 1,wan3 1	-	Васкар голе
-AN	ueradit_poor	Load Balance	wani i jwanz i jwano i	r,wan	
Routing					
Load Balance Pool					
Static Route					
Policy Route					
Default Route					
RIP Configuration					
OSPF Configuration					
BGP Configuration					
AT					
-irewall					
Objects Setting					
Jser Management					
Applications					
Bandwidth Management					
JSB Application					
System Maintenance					
Diagnostics					
xternal Devices 📃 👻					

Item	Description	
Add	Add a new pool profile.	
Edit	Modify the selected pool profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for	



	you to modify the corresponding settings for the selected rule.
Delete	Remove the selected rule profile.To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile	Display the name of the load balance profile.
Mode	Display the mode (failover or load balance) used by the pool profile.
Interface	Display the name of the WAN profiles for Load Balance rule.
Primary Profile	Display the primary profile configured in Backup page for such profile.
Backup Profile	Display the backup profile configured in Backup page for such profile.

There are two modes, **Load Balance** and **Backup**, for you to choose as the **Pool** configuration. If you choose **Load Balance**, the tab of **Load Balance** will be shown which allows you to configure for different WAN interfaces. If you choose **Backup**, the tab of **Backup** will be displayed which allows you to specify the primary profile and backup profile for such **Pool** setting.



How to add a Pool profile for Load Balance

- 1. Open **Routing>>Load Balance Pool**.
- 2. Simply click the **Add** button to open the following dialog. Type a name (e.g., LB_1) for such profile.

Profile : Mode :	LB_1		
WOUC .	Load Balance 📉		Profile Number Limi
	Interface	Weight	
Interface	wan1	80	Ĩ
Note :	1. The range of Weight is 1~255. 2. Example of setting load balance w wan1 bandwidth:30M/30M wan2 bandwidth:100M/100M	reight: weight=10 (max weight value : 255)	
	ouggesteu, want weight-3, wanz	weight=10 (max weight value : 255)	

Available parameters are listed as follows:

Item	Description
Profile	Type the name of the profile.
Mode	Choose Load Balance as the Mode selection.
Interface	Click Add . A new line for adding new entry will appear. Use the drop down list of Interface to choose the WAN profiles that will be in the Load Balance Pool. Type the value for Weight .

3. Click **Apply**. A new profile will be added on the page.

How to add a Pool profile for Backup

Such page allows you to set a backup profile which will be activated when the primary profile is invalid by any reason.

- 1. Open **Routing >>Load Balance Pool**.
- 2. Simply click the **Add** button to open the following dialog. Type a name (e.g., FL_1) for such profile. Choose **Backup** as the **Mode** selection.

Profile :	FL_1	
Mode :	Backup 👻	
Primary Profile :	wan1 👻	
Backup Profile :	wan2	

Available parameters are listed as follows:

Item	Description			
Profile	Type the name of the profile.			
Mode	Choose Backup as the Mode selection.			
Primary Profile	In default, the system will apply Primary Profile. If Primary Profile cannot be used any more, the Backup Profile will be used instead. Use the drop down list to choose the one you need.			
Backup Profile	Use the drop down list to choose the one you need.			

3. Click **Apply**. A new profile will be added on the page.

4.3.2 Static Route

When there are several subnets in LAN, a more effective and quicker way for connection is static route rather than other methods. Simply set rules to forward data from one specified subnet to another specified subnet.

4.3.2.1 Static Route

The router offers IPv4 and IPv6 for you to configure the static route. Both protocols bring different web pages.

to Logout : Off 🛛 👻	Static Route I	Pv6 Static Route	LAN/WAN Proxy ARP				
Quick Start Wizard	Add 🏏 Er	Nit 🧰 Delete 🕻	🖁 Rename 🛭 🔇 Refresh			Profile	Number Limit : 2
Online Status							
WAN	Profile	Enable	Destination IP Address	Subnet Mask	Gateway	WAN/LAN P	Metric
LAN				No items to show	Ι.		
Routing							
Load Balance Pool							
Static Route							
Policy Route							
Default Route							
RIP Configuration							
OSPF Configuration							
BGP Configuration							
NAT							
Firewall							
Objects Setting							
User Management							
Applications							
Bandwidth Management							
USB Application							
System Maintenance							
Diagnostics							
External Devices 🚽							

Each item will be explained as follows:

Item	Description
Add	Add a new static route setting.
Edit	Modify the selected static route setting.
	To edit static route setting, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected static route setting.
	To delete a static route setting, simply select the one you want to delete and click the Delete button.
Rename	Allow to modify the selected profile name.
Refresh	Renew current web page.
Profile Number Limit	Display the total number of the profiles to be created.
Profile	Display the name of such static route.
Enable	Display the status of the profile. False means disabled; True means enabled.
Destination IP Address	Display the IP address for such static route profile.
Subnet Mask	Display the subnet mask for such static route profile.
Gateway	Display the gateway address for such static route profile.

WAN/LAN Profile	Display the subnet / LAN or WAN profile of the gateway.
Metric	Display the distance to the target.

How to add a new Static Route profile

- 1. Open **Routing>>Static Routing** and click the **Static Route** tab.
- 2. Click the **Add** button.
- 3. The following dialog will appear.

Profile :	vint
🗹 Enable	
Destination IP Address :	192.168.1.121
Subnet Mask :	255.255.255.0/24 🔽 (Optional)
Gateway:	192.168.1.5
WAN/LAN Profile :	wan1
Metric :	(Optional)

Available parameters are listed as follows:

Item	Description
Profile	Type the name of the static route profile.
Enable	Check this box to enable such profile.
Destination IP Address	Type the IP address for such static route profile.
Subnet Mask	Use the drop down list to choose the subnet mask for such static route profile.
Gateway	Type the gateway address for such static route profile.
WAN/LAN Profile	Choose one of the LAN/WAN profiles of the gateway for such static route.
Metric	Type the distance to the target (usually counted in hops).
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

5. Enter all of the settings and click **Apply**. The new profile will be added on the screen.

4.3.2.2 IPv6 Static Route

For IPv6 protocol, click the **IPv6 Static Route** tab to configure detailed settings.

to Logout : Off 🛛 👻	Static Route IP	/6 Static Route	LAN/WAN Proxy ARP				
Quick Start Wizard	6 V	Delete 1	🖨 Rename 🛭 🖨 Refresh			Profile	Number Limit : 2
Online Status							
WAN	Profile	Enable	Destination IP Address	Prefix Length	Nexthop	WAN/LAN P	Metric
LAN				No items to show			
Routing							
Load Balance Pool							
Static Route							
Policy Route							
Default Route							
RIP Configuration							
OSPF Configuration							
BGP Configuration							
NAT							
Firewall							
Objects Setting							
User Management							
Applications							
Bandwidth Management							
USB Application							
System Maintenance							
Diagnostics							
External Devices 🚽							

Each item will be explained as follows:

Item	Description
Add	Add a new static route setting.
Edit	Modify the selected static route setting.
	To edit static route setting, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected static route setting.
	To delete a static route setting, simply select the one you want to delete and click the Delete button.
Rename	Allow to modify the selected profile name.
Refresh	Renew current web page.
Profile Number Limit	Display the total number of the profiles to be created.
Profile	Display the name of such static route.
Enable	Display the status of the profile. False means disabled; True means enabled.
Destination IP Address	Display the IP address for such static route profile.
Prefix Length	Display the prefix length of the profile.
Nexthop	Display the nexthop address for such static route profile.
WAN / LAN Profile	Display the subnet LAN or WAN profile of the gateway.
Metric	Display the distance to the target.

How to add a new IPv6 Static Route profile

- 1. Open **Routing>>Static Route** and click the **IPv6 Static Route** tab.
- 2. Click the **Add** button.
- 3. The following dialog will appear.

Profile :	V6_new_control	
🗹 Enable		
Destination IP Address :	fe80::250:1212:00ff::	6600
Prefix Length :	30	
Nexthop :	fe80::250:1212:00ff:6	6666
WAN/LAN Profile :	lan1	~
Metric :	20	(Optional)

Available parameters are listed as follows:

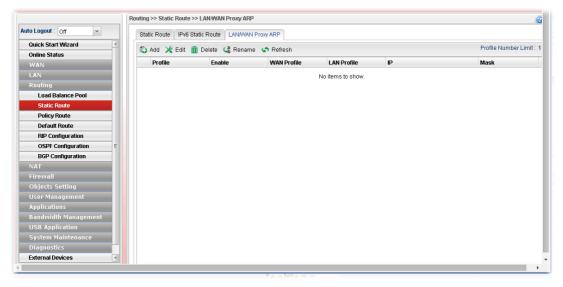
Item	Description
Profile Name	Type the name of the static route profile.
Enable	Check this box to enable such profile.
Destination IP Address	Type the IP address for such static route profile.
Prefix Length	Type the prefix length for such profile.
Nexthop	Type the nexthop address for such static route profile.
WAN/LAN Profile	Choose one of the LAN/WAN profiles of the gateway for such static route.
Metric	Type the distance to the target (usually counted in hops).
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

4. Enter all of the settings and click **Apply**. The new profile will be added on the screen.

4.3.2.3 LAN/WAN Proxy ARP

To make local device in LAN accessing into external network without passing NAT or let the remote device access into the local device without passing NAT behind the router, please use IP routing function to complete the work.

Usually, the local device might be assigned with a public IP address or an IP address with the same subnet as certain WAN. When the local device tries to transmit the data packets out, Vigor300B will send it out through that certain WAN interface without passing through NAT. Meanwhile, remote device also can access the local device directly without any difficulty.



Each item will be explained as follows:

Item	Description
Add	Add a new static route setting.
Edit	Modify the selected static route setting.
	To edit static route setting, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected static route setting.
	To delete a static route setting, simply select the one you want to delete and click the Delete button.
Rename	Allow to modify the selected profile name.
Refresh	Renew current web page.
Profile Number Limit	Display the total number of the profiles to be created.
Profile	Display the name of such profile
Enable	Display the status of the profile. False means disabled; True means enabled.
WAN Profile	Display the WAN profile used for such ARP profile.
LAN Profile	Display the LAN profile used for such ARP profile.
IP	Display the IP address used by such ARP profile.

How to add a new Proxy ARP profile

- 1. Open Routing>>Static Route and click the LAN/WAN Proxy ARP tab.
- 2. Click the **Add** button.
- 3. The following dialog will appear.

Profile :	ARP_1	
🗹 Enable		
WAN Profile :	wan2	٧
LAN Profile :	lan1	٧
IP:	192.168.1.59	
Mask :	255.255.255.0/24	~

Available parameters are listed as follows:

Item	Description
Profile	Type the name of the static route profile.
Enable	Check this box to enable such profile.
WAN Profile	Choose one of the WAN/USB profiles of the gateway for such profile.
LAN Profile	Choose one of the LAN profiles for such profile.
IP	Type an IP address for such profile.
Mask	Use the drop down menu to specify mask address.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

4. Enter all of the settings and click **Apply**. The new profile will be added on the screen.

4.3.3 Policy Route

Policy Route (also well known as PBR, policy-based routing) is a feature where you may need to get a strategy for routing. Then packets will be directed to the specified interface if they match one of the rules. You can setup your routing in various reasons such as load balance, security, routing decision, and etc.

Through protocol, mode, IP address, port number and interface configuration, Policy Route can be used to configure any routing rules to fit actual request. In general, Policy Route can easily reach the following purposes:

• Auto load balance to reduce the loading of the network traffic.

You have to manually create policy rules in order to force the traffic going to dedicate network interface.

• Strict Bind.

Through dedicated interface (WAN/LAN), the data can be sent from the source IP to the destination IP.

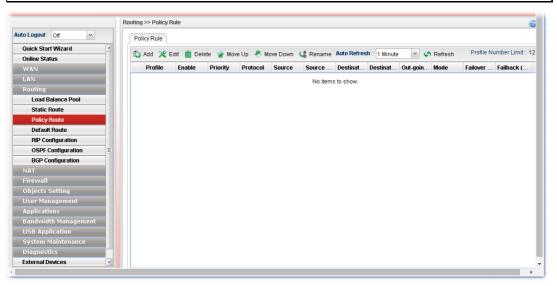
• Address Mapping.

Allows you specify the outgoing WAN IP address (es) for an internal private IP address or a block of internal private IP addresses.

• Other routing.

Specify routing policy to determine the direction of the data transmission.

Note: For more detailed information about using policy route, refer to Support >>FAQ/Application Notes on www.draytek.com.



Item	Description
Add	Add a new rule profile.
Edit	Modify the selected rule profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected

	rule.	
Delete	Remove the selected rule profile.	
	To delete a rule, simply select the one you want to delete and click the Delete button.	
Move Up / Move Down	Move the selected profile up or down.	
Rename	Allow to modify the selected profile name.	
Auto Refresh	Specify the interval of refresh time to obtain the latest status. The information will update immediately when the Refresh button is clicked.	
Refresh	Renew current web page.	
Profile	Display the name of the rule.	
Enable	Display the status of the profile. False means disabled; True means enabled.	
Priority	Display the priority (top, high and normal) of such rule.	
Protocol	Display the protocol of such rule.	
Source	Display the name of the source subnet/IP object/IP group.	
Source Port	Display the source port range.	
Destination	Display the name of the destination subnet/IP object/IP group/DNS object.	
Destination Port	Display the destination port range.	
Out-going Rule	Display the route way (where the traffic forwarded) selected.	
Mode	Display the route mode (NAT or Routing) used by such policy route.	
Failover to Next Rule	Display the status (enabled or disabled) of the function.	
Failback (Quick Recover)	Display the status (enabled or disabled) of the function.	

How to add a new policy rule

- 1. Open **Routing>>Policy Route**.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

olicy Rule	
Profile : Enable	
Priority :	Normal
Protocol :	ALL
Source	
Source Type :	Subnet 👻
IP Address :	Any
Subnet Mask :	Subnet Object
Destination	
Destination Type :	Any
Route Rule	
Out-going Rule :	Load Balance Pool
Load Balance Rule :	wan1 👻
Mode :	NAT
Use IP Alias :	🔵 Enable 💿 Disable
Failover to Next Rule :	💿 Enable 🔿 Disable
when interface down	
🔿 when targ	ping Fail 🛛 Y for 3 🝸 seconds

Item	Description	
Profile	Type the name of the rule.	
Enable	Check this box to enable such profile.	
Priority	Choose the priority for such profile (top, high and normal).	
Protocol	Choose a protocol (ALL, TCP, UDP, TCP/UDP and ICMP) for such rule applied to load balance. All is the default setting.	
Source	Source Type - Choose the address type (Any, Subnet or Object) for such rule.	

	Object Y Any Subnet Object
	Each type will bring different settings for configuration.
	When Subnet is selected as Source Type
	 IP Address - Type an IP address here as the source IP address for such rule.
	• Subnet Mask - Use the drop down list on the right to choose a suitable mask for the source.
	When Object is selected as Source Type
	• IP Object – Use the drop down list to choose the source IP object(s) for such rule profile.
	• IP Group –Use the drop down list to choose the source IP group(s) for such rule profile.
Destination	Destination Type - Choose the address type (Any, Subnet, Object or Country) for such rule.
	Object Any Subnet Object Country
	Each type will bring different settings for configuration.
	When Subnet is selected as Destination Type
	• IP Address - Type an IP address here as the destination IP address for such rule.
	• Subnet Mask - Use the drop down list on the right to choose a suitable mask for the destination.
	When Object is selected as Destination Type
	• IP Object – Use the drop down list to choose the destination IP object(s) for such rule profile.
	• IP Group –Use the drop down list to choose the destination IP group(s) for such rule profile.
	• DNS Object - Use the drop down list to choose DNS object(s) for such rule profile.
	When Country is selected as Destination Type
	• Country Object - Use the drop down list to choose the country object(s) for such rule profile.
Route Rule	Out-going Rule - It determines the way (interface) that the incoming traffic will be forwarded to.
	Load Balance Pool –The incoming traffic will be forwarded to specified WAN interface or load balance pool.
	User Defined –The incoming traffic will be forwarded to the specified WAN or LAN interface with a user defined gateway.



PPTP – The incoming traffic will be forwarded to specified PPTP profile.
When Load Balance Pool is selected as Out-going Rule
• Load Balance Rule - Choose one of the profiles to be used by such rule. In which, wan1 to wan2 profiles are configured in default. In addition, profiles configured in Routing>>Load Balance Pool also will be displayed here.
• Mode – Specify which mode (NAT or Routing) will be used for such route rule.
• Use IP Alias - Click Enable to enable such function. Or, click Disable to disable such function. When Enable is chosen, choose an alias WAN IP address to replace the default WAN IP address.
• Failover to the Next Rule - When the specified interface disconnects due to some reason, the router can use next matched policy route rule to perform data transmission automatically. Click Enable to enable such function. Or, click Disable to disable such function.
When interface down - When the specified interface (selected by out-going rule) disconnects, the router will use next rule match with policy route to perform data transmission.
When target When certain IP or domain connects successfully or fails to connect for several seconds, Vigor router will treat the selected interface as disconnected and activate Failover mechanism. For example, you might configure settings as:
Out-going Rule : User Defined
Out-going interface : wan1
Failover : Enable
when target [8.8.8.8] ping [Fail] for [5] seconds
Then, it means even if wan1 connects to network always, once the target cannot be detected by Vigor router for 5 seconds, Vigor router will use next matched rule to perform data transmission.
• Failback (Quick Recover) - When the specified interface re-connects, the traffic via other interface will be interrupted immediately. The router will use the specified interface for data transmission again. Click Enable to enable such function. Or, click Disable to disable such function.
When User Defined is selected as Out-going Rule

	 Outgoing Interface - Choose one of the profiles to be used by such rule. In which, wan1 to wan2 profiles are configured in default. Out-going (Gateway) – Type an IP address as the
	 Out-going (Gateway) – Type an IP address as the gateway. Notice that LAN interface does not have default gateway. You MUST specify a gateway if you choose LAN as out-going interface.
	• Mode – Specify which mode (NAT or Routing) will be used for such route rule.
	• Use IP Alias - Click Enable to enable such function. Or, click Disable to disable such function. When Enable is chosen, choose an alias WAN IP address to replace the default WAN IP address.
	• Failover to the Next Rule - When the specified interface disconnects due to some reason, the router can use next matched policy route rule to perform data transmission automatically. Click Enable to enable such function. Or, click Disable to disable such function.
	When interface down - When the specified interface (selected by out-going rule) disconnects, the router will use next rule match with policy route to perform data transmission.
	When target When certain IP or domain connects successfully or fails to connect for several seconds, Vigor router will treat the selected interface as disconnected and activate Failover mechanism. For example, you might configure settings as:
	Out-going Rule : User Defined
	Out-going interface : wan1
	Failover : Enable
	when target [8.8.8.8] ping [Fail] for [5] seconds
	Then, it means even if wan1 connects to network always, once the target cannot be detected by Vigor router for 5 seconds, Vigor router will use next matched rule to perform data transmission.
	• Failback (Quick Recover) - When the specified interface re-connects, the traffic via other interface will be interrupted immediately. The router will use the specified interface for data transmission again. Click Enable to enable such function. Or, click Disable to disable such function.
Apply	Click it to save the configuration.
Cancel	Click it to return to the factory setting.

4. Enter all of the settings and click **Apply**. The new rule profile will be added on the screen.

Example 1: How to Setup Address Mapping by Using Policy Route

Address mapping is used to map a specified private IP or a range of private IPs of NAT subnet into a specified WAN IP (or WAN IP alias IP). Refer to the following figure.



Suppose the WAN settings for a router are configured as follows:

WAN1: 202.211.100.10, WAN1 alias: 202.211.100.11 WAN2: 203.98.200.10

Without address mapping feature, when a NAT host with an IP say "192.168.1.10" sends a packet to the WAN side (or the Internet), the source address of the NAT host will be mapped into either 202.211.100.10 or 203.98.200.10 (which IP or mapping is decided by the internal load balancing algorithm).

With address mapping feature, you can manually configure any host mapping to any WAN interface to fit the request. In the above example, you can configure NAT Host 1 to always map to 202.211.100.10 (WAN1); Host 2 to always map to 202.211.100.11 (WAN1 alias); Host 3 always map to 203.98.200.10 (WAN2) and Group 1 to always map to 202.211.100.10 (WAN1).

NAT Address Mapping function lets you specify the outgoing IP address(es) for one internal IP address or a block of internal IP addresses.

We will take an example to introduce how to make use of this feature.

1. Log into the web user interface of Vigor300B.

Dray Tek

2. Open WAN>>General Setup. For WAN1, choose wan1 item and click Edit. Choose Static as the IPv4 Protocol.

Global PPTP	Static DHCP PPPoE StaticV6 DHCPV6
Profile (max length:7) : Enable	wan1
Description :	(Optional)
Port :	WAN1 Y
Default MAC Address :	💿 Enable 🔿 Disable
MAC Address :	00 : 1d : aa : b2 : 69 : 81
IPv4 Protocol	Static 💌
Mode :	NAT operation to packet is only applied when they come from an NAT mode L
IPv6 Protocol :	DHCP
Enable Schedule Reconne	PPPoE ect: PPTP
VLAN Tag	Enable O Enable O Disable enable it only when your ISP requires tagged VLAN
VLAN ID :	10
VLAN ID :	

3. From the following page, set main WAN IP address as 202.211.100.10.

Global PPTP	Static DHCP PPPoE StaticV6 DHCPV6	
IP Address:	202 . 211 . 100 . 10	
Subnet Mask :	255.255.255.0/24 👻	
Gateway IP Address :	172 16 3 1 mt (Optional)	
	🕼 Add 🛗 Save	Profile Number L
	DNS Server IP Address	
DNS Server IP Address :	8.8.8.8	
	🕼 Add 🛗 Save	Profile Number Lin
	IP	
	202.211.100.11	
IP Alias :	202.2111100.111	
IP Alias :		
IP Alias :		

Click Add on IP Alias to configure the other IP address which is 202.211.100.11.

4. After finished configuration for WAN1, continue to configure WAN2. At this time, the IP switch shall be set as "203.98.200.10".

Global PPTP	Static DHCP PPPoE StaticV6 DHCPV6	
IP Address :	203 . 98 . 200 . 10	
Subnet Mask :	255.255.255.0/24 💌	
Gateway IP Address :	172 16 3 1 mm (Optional)	
	🕼 Add 🛗 Save	Profile Number Lir
	DNS Server IP Address	
DNS Server IP Address :	8.8.8.8	
	🕼 Add 🛗 Save	Profile Number Lim
	🕼 Add 🛗 Save IP	Profile Number Lim
IP Alias :		Profile Number Lim
IP Alias :	P	Profile Number Lim
IP Alias :	P	Profile Number Lim

5. Open **Objects Setting>>Object** and click **Add** to create a new IP object profile. Type the required information as shown below. Click **Apply** to save the settings.

Profile :	IP_range	
Address Type :	Range	v
Start IP Address :	192.168.1.15	
End IP Address :	192.168.1.31	

6. Open **Routing>> Policy Route** and click **Add** to create a new profile.

7. In the following page, check the box of **Enable**. Choose **Object** as the **Source Type** and choose IP range object profile from the drop down list of IP Object. Click **Apply** to save the settings.

Policy Rule	_
Profile :	Rule_WAN1
🗹 Enable	
Priority :	Normal
Protocol :	ALL
Source	
Source Type :	Object 💌
IP Object :	IP_range 💌 🗙
IP Group :	~ ×
Destination	
Destination Type :	Any
Route Rule	
Out-going Rule :	Load Balance Pool
Load Balance Rule :	wan1
Mode :	NAT
Use IP Alias :	🔵 Enable 💿 Disable
Failover to Next Rule :	💿 Enable Disable
when interface down	
🔘 when targ	ping Fail 🛛 for 3 🔽 seconds
Failback (Quick Recover) :	🔿 Enable 💿 Disable
	🔚 Apply 🛛 Qance



licy Rule	-
Profile :	Rule_WAN2
Priority :	Normal
Protocol :	ALL
Source	
Source Type :	Subnet 👻
IP Address :	192.168.1.100
Subnet Mask :	255.255.255.0/24 🖌
Destination	
Destination Type :	Any
Route Rule	
Out-going Rule :	Load Balance Pool 🔽
Load Balance Rule :	wan1
Mode :	NAT
Use IP Alias :	💿 Enable i Disable
IP Alias :	202.211.100.11
Failover to Next Rule :	💿 Enable i 🔿 Disable
⊙ when interface down ○ when targ	ping Fail 🔽 for 3 💟 seconds

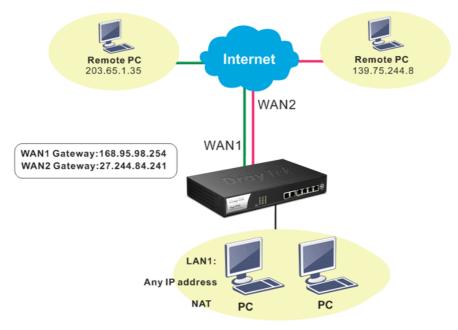
8. Upon completing the above configuration, you have specified the outgoing IP address(es) for some specific computers.

Now, you bind some specific computers to some WAN IP alias for outgoing traffic.



Example 2: How to Setup Load Balance by Using Policy Route

The following figure shows a simple application of load balance. WAN1 and WAN2 can be used to access into Internet. The PC in LAN1 can send the data to the remote PC through the specified WAN1.



- 1. Access into web user interface of Vigor300B.
- 2. Open **Routing>> Policy Route** and click **Add** to create a new profile.



3. In the following page, type a name for such profile; check **Enable**; choose **Subnet** as **Destination Type**; type 203.65.1.35 as IP address; choose **Load Balance Pool** as **Out-going Rule**; choose WAN1 as the **Load Balance Rule**; click **Disable** for **Failover** to **Next Rule**.

Profile :	Special_1
🗹 Enable	
Priority :	Normal
Protocol :	ALL
Source	
Source Type :	Any
Destination	
Destination Type :	Subnet
IP Address :	203.65.1.35
Subnet Mask :	255.255.255.0/24
Route Rule	
Out-going Rule :	Load Balance Pool
Load Balance Rule :	wan1
Mode :	NAT
Use IP Alias :	🔿 Enable 💽 Disable
Failover to Next Rule :	🔿 Enable 💿 Disable
💿 when interface down	
🔿 when targ	ping Fail 🛛 for 3 🗳 seconds

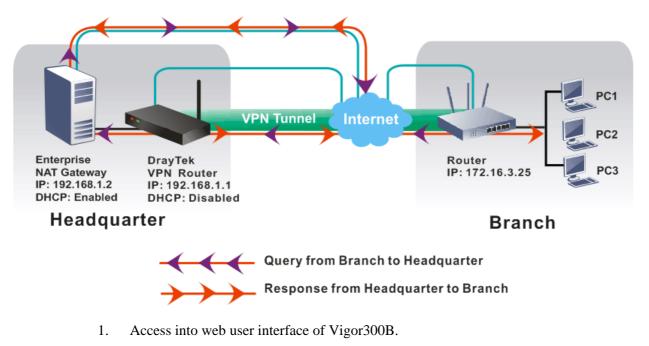
4. After finished the above settings, click **Apply** to save the configuration.

1	🕼 Add 🛛 🔀	Edit 🔟	Delete	🖈 Refresh 🛛 🝲 M	ove Up	🐣 Move Down	G a F	Rename	Auto
	Profile	Enable	Protocol	Source	So	Destination	De	Out-go	Mode
1	Rule_WAN1	true	ALL	(IP) IP_range	-	Any	-	wan1	NAT
2	Rule_WAN2	true	ALL	192.168.1.100/24	-	Any	-	wan1	NAT w
3	Special_1	true	ALL	Any	-	203.65.1.35/24	-	wan1	NAT

Now, any packets from LAN1 sent to the remote PC (IP address: 203.65.1.35) will be forcefully to pass through WAN1.

Example 3: How to Customize a Secure Route between Headquarter and Branch by Using Policy Route

A LAN to LAN VPN tunnel is built between DrayTek VPN router (e.g., Vigor300B) and the remote router. Enterprise firewall router (in Headquarter) can control the all of the traffic coming from the remote PC (in Branch) which wants to access into Internet.



2. Open **Routing>> Policy Route** and click **Add** to create a new profile.

👌 Add	🔀 Edit	🔟 Delete	< Ret	fresh
Profile	Enable	Protocol	Source	Sourc

Dray Tek

3. In the following page, type a name for such profile (e.g., Secure_route); choose **Subnet** as **Source Type** and type the source IP address with 172.16.3.25; choose **User Defined** as **Out-going Rule**; choose **lan1** as the **Out-going Interface**; type 192.168.1.2 as the **Out-going (Gateway)**; and click **Disable** for **Failover to Next Rule**.

U Series	
licy Rule	
Profile :	Secure_route
Priority .	Normal
Protocol :	ALL
Source	
Source Type :	Subnet 👻
IP Address :	172.16.3.25
Subnet Mask :	255.255.255.0/24 💌
Destination	
Destination Type :	Any 👻
Route Rule	
Out-going Rule :	User Defined
Out-going Interface :	lan1
Out-going (Gateway) :	192.168.1.2 (Optional)
Mode :	Routing
Failover to Next Rule :	🔿 Enable 💿 Disable
when interface down	
🔵 when targ(ping Fail 🛛 Y for 3 💙 seconds

4. After finished the above settings, click **Apply** to save the configuration.

	🚯 Add	🔀 Edit	前 Deleti	e 🗳 Refresh	🖌 🍲 Mo	ve Up 🤻	奏 Move	e Down	🕻 Rename	Auto Re	fresh : 1
	Profile	Enable	Proto	Source	Source	Destin	De	Out-going	Rule	Mode	Failove
1	Secure	true	ALL	192.168.1.0/24	-	Any	-	lan1 GW:1	92.168.1.2	ROUTING	Disable

4.3.4 Default Route

This page allows you to assign a WAN profile or a Load Balance profile as the default route.

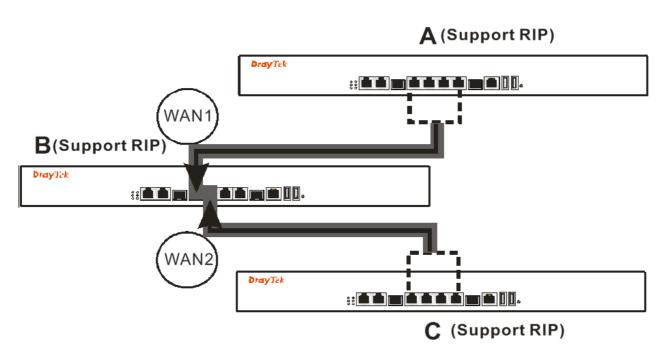
uto Logout : Off 🛛 👻	Default Route	
Quick Start Wizard		
Online Status	WAN Profile/Loadbalance Pool Name : default_pool	
WAN	Auto Failover to Active WANs :	
LAN		
Routing		
Load Balance Pool		
Static Route		
Policy Route		
Default Route		
RIP Configuration		
OSPF Configuration		
BGP Configuration		
NAT		
Firewall		
Objects Setting		
User Management		
Applications		
Bandwidth Management		
USB Application		
System Maintenance		
Diagnostics		

Item	Description
WAN Profile /Load Balance Pool	Display the WAN profiles for user to choose as a default route.
Name	In which, wan1 to wan5 are factory default settings.
Auto Failover to Active WANs	Enable – Check it to let the network connection being established through any active WAN interface.
	Disable – Check it to disable the function.
Apply	Click it to save the configuration.
Cancel	Discard current page modification.

4.3.5 RIP Configuration

The Routing Information Protocol (RIP) is a dynamic routing protocol used in local and wide area networks. The routing information packet will be sent out by web server or router periodically, and can be used to communicate with other routers. It will calculate the number of network nodes on the route to ensure there is no obstruction on the network routine. In addition, it will choose a correct route based on the method of Distance Vector Routing and use the Bellman-Ford algorithm to calculate the routing table.

RIP can update the routing table automatically and find a route to send packet. See the following figure as an example:



Suppose A supports RIP on WAN1/WAN2/WAN3/WAN4, B supports RIP on WAN1 and WAN2, and C supports RIP on WAN1/WAN2/WAN3/WAN4.

B will tell A "if you want to send packets to C, please send it to me first", then A will create a routing rule to forward packet that destination is C to B.

In another direction, C will do the same thing.

	uting >> RIP Configuration		8
Auto Logout : Off 🛛 👻	RIP Configuration		
Quick Start Wizard	-		
Online Status	Enable		
WAN	Profile : v ×		- 1
LAN	lan1		- 1
Routing	wan1		- 1
Load Balance Pool	wan2 wan3		- 1
Static Route	wans wan4		- 1
Policy Route			- 1
Default Route			- 1
RIP Configuration			- 1
OSPF Configuration =			- 1
BGP Configuration			- 1
NAT			
Firewall			
Objects Setting			
User Management			
Applications			
Bandwidth Management			
USB Application			
System Maintenance			
Diagnostics			
External Devices		💾 Apply 🛛 🚱 C	Cance ,
<pre></pre>			



Available parameters are listed as follows:

Item	Description
Enable	Check the box to enable the Mirror function for the switch.
Profile	Choose the LAN/WAN profile(s).
Apply	Click it to save the settings.
Cancel	Click it to exit the dialog without saving anything.

After finished the settings, click **Apply** to save them.

4.3.6 OSPF Configuration

OSPF (Open Shortest Path First) uses the algorithm of SPF (Shortest Path First) to calculate the route metric. It is suitable for large network and complicated data exchange. Vigor 2960 supports up to OSPF version 2(only for IPv4).

The Autonomous System (AS) used in OSPF indicates the largest entity and can be divided into several **areas**. Usually, Area 0 will be used as OSPF backbone which distributing the routing information among areas.

When you need faster convergence than distance vector, want to support much larger networks or want to have less susceptible to bad routing information, you can enable OSPF feature to fit your request. Note that both routers must support OSPF function at the same time to build the OSPF connection.

	Routing >> OSPF Co	nfiguration				6
Auto Logout : Off 🛛 👻	OSPF Configura	tion				
Quick Start Wizard						
Online Status	Enable					
WAN		C Add		Profile Number Limit : 64		
LAN		-				
Routing		Profile	Area			
Load Balance Pool	Profile :		No items to show.			
Static Route						
Policy Route						
Default Route						
RIP Configuration						
OSPF Configuration						
BGP Configuration						
NAT						
Firewall						
Objects Setting						
User Management						
Applications						
Bandwidth Management						
USB Application						
System Maintenance						
Diagnostics						
External Devices					💾 Apply	🙆 Cance 🖕
•						•

Item	Description
Enable	Check the box to enable the Mirror function for the switch.
Profile	Add- Click it to create a new profile.

	Profile A
	~
	lan1
	wan1
	wan2
	wan3
	wan4
	Profile - Choose a LAN/WAN profile from the drop down list to apply for such configuration.
	Area – An AS will be divided into several areas. Each area must be assigned with a dedicated number.
	Note : For the detailed information of OSPF application, refer to section <i>"3.2 How to Configure OSPF?"</i> .
Apply	Click it to save the settings.
Cancel	Click it to discard the settings configured in this page.

How to add a new profile

- 1. Open Routing>>OSPF Configuration.
- 2. Check **Enable**.
- 3. Click the space of **Profile**. A pop-up dialog will appear. Click **Add**.

OSPF Configurat	ion			
📝 Enable				
	🚯 Add			Pro
	Profile		Area	
Profile :		~		
	lan1			
	wan1			
	wan2			
	wan3			
	wan4			

4. Use the drop down list of LAN/WAN Profile to choose the one you need. And specify the value of Area (either 0.0.0.0 ~ 255.255.255.255 or 0 ~ 4294967295) for that profile.

	🕼 Add		Profile Number Limit : 64
	Profile	Area	
Profile :	lantes1	v 30	Ŵ



If you are not satisfied the settings, simply click $\widehat{\mathbf{m}}$ to remove the entry, and then re-type the settings.

5. Click **Apply** to save the settings and exit the dialog. A new profile is created and displayed on the screen.

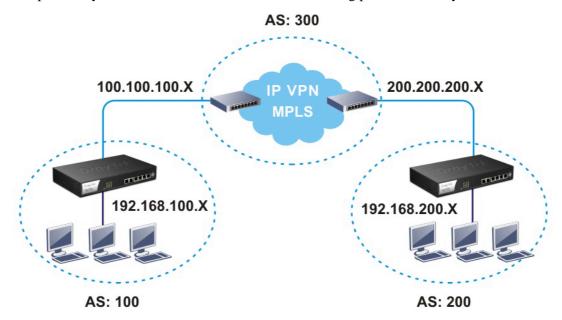
🗹 Enable			
	C Add	Profile	e Number Limit : 64
	Profile	Area	
Profile :	lantes1	30	â

4.3.7 BGP Configuration

BGP means Border Gateway Protocol. It is a standardized exterior gateway protocol which can exchange routing and reachability information between autonomous systems (AS) on Internet.

The protocol TCP is used by two routers supporting BGP for data transmission. They can exchange the BGP routing information for each other. A BGP router is the "neighbor" of other BGP routers. Define the IP address, AS number for the router is essential for TCP connection of BGP routing information exchange.

AS, the abbreviation of Autonomous System, is a group interconnected with multiple IP addresses. AS numbers indicate the full paths that the route information will be taken. It can be operated by one or several ISPs and follows the routing policies made by ISP.



4.3.7.1 Neighbors Status

Such page displays current neighbors status in BGP routing environment.

uto Logout : Off 🛛 👻	Neighbors Status BGP Configu	ration Neighbor			
Quick Start Wizard	Auto Refresh : 1 Minute 💌	(* Diduction			
Online Status		🖈 Refresh			
WAN	BGP Neighbor	Neighbor IP	Neighbor AS	State	
LAN			No items to show.		
Routing					
Load Balance Pool					
Static Route					
Policy Route					
Default Route					
RIP Configuration					
OSPF Configuration					
BGP Configuration					
NAT					
Firewall					
Objects Setting					
User Management					
Applications					
Bandwidth Management					
USB Application					
System Maintenance					
Diagnostics					

Item	Description	
Refresh	Renew current web page.	
Auto Refresh	Specify the interval of refresh time to obtain the latest status. The information will update immediately when the Refresh button is clicked.	
	10 Seconds 10 Seconds 30 Seconds 1 Minute Disable	
BGP Neighbor	Display the neighbor profile name configured successfully in the Neighbor tab in Routing >> BGP configuration.	
Neighbor IP	Display the neighbor IP address configured successfully in the Neighbor tab in Routing >> BGP configuration .	
Neighbor AS	Display the autonomous system number of the neighbor configured successfully in the Neighbor tab in Routing >> BGP configuration .	
State	Display the status of neighbor profile. If it is established successfully, "Established (time)" will be shown in this field.	

4.3.7.2 BGP Configuration

This page is used to configure the general settings for the host which is ready for using BGP.

	Ro	outing >> BGP Configuration >> BGP	Configuration			6
Auto Logout : Off		Neighbors Status BGP Configura	ation Neighbor			
Quick Start Wizard	1	1				
Online Status						
WAN		Enable				
LAN		Autonomous System number :				
Routing			6 H .		Profile Number Limit : 16	
Load Balance Pool			🕼 Add 🛗 Save		Prolite Number Limit . 16	
Static Route			IP	Subnet Mask		
Policy Route		Static Networks :		No items to show.		
Default Route						
RIP Configuration						
OSPF Configuration						
BGP Configuration						
NAT						
Firewall						
Objects Setting						
User Management		Note :				
Applications		Networks: announce the specified ne	etwork as belonging to our AS .			
Bandwidth Management						
USB Application						
System Maintenance						
Diagnostics					💾 Apply	🔇 Cance
External Devices -	II L					

Available parameters are listed as follows:

Item	Description	
Enable	Check the box to enable BGP function.	
Autonomous System number	Type the autonomous system number for the host in BGP application.	
Static Networks	Define the IP addresses (forming network range) which allow to be connected by other clients through static route.	
	Add – Click it to add a specified IP address and subnet mask.	
	Save – Click it to save the settings.	
	Profile Number Limit - Display the total number of the profiles to be created.	
	IP – Type the IP address.	
	Subnet Mask – Display subnet mask for the IP address automatically.	

After finished the settings, click **Apply** to save the configuration.

4.3.7.3 Neighbor

This page is used to configure the IP address and AS number for the neighbor which will exchange BGP routing information with your Vigor router.

to Logout : Off 🛛 👻	Neighbors Status B	IGP Configuration Neighbor		
Quick Start Wizard	🕞 Add 🔀 Edit 🔟	🛾 Delete 📢 Rename 🗳 Refresh		Profile Number Limit :
Online Status				
WAN	Profile	Enable	Neighbor IP Address	Autonomous System number
LAN			No items to show.	
Routing				
Load Balance Pool				
Static Route				
Policy Route				
Default Route				
RIP Configuration				
OSPF Configuration				
BGP Configuration				
NAT				
Firewall				
Objects Setting				
User Management				
Applications				
Bandwidth Management				
USB Application				
System Maintenance				
Diagnostics				
External Devices				

Available parameters are listed as follows:

Item	Description	
Add	Add a new port redirect profile.	
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.	
Delete	Remove the selected profile. To delete a profile, simply select the one you want to delete and click the Delete button.	
Rename	Allow to modify the selected profile name.	
Refresh	Renew current web page.	
Profile	Display the name of the profile.	
Enable	Display the status of the profile. False means disabled; True means enabled.	

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Neighbor IP Address	Display the IP address of the neighbor.
Autonomous System Number	Display the autonomous system number of the neighbor in BGP application.

How to add a new BGP profile

- 1. Open **Routing>> BGP Configuration** and click the **Neighbor** tab.
- 2. Simply click the **Add** button.



3. The following dialog will appear.

Neighbor	_ ×
Profile :	Car_1
🗹 Enable	
Neighbor IP Address :	192.168.1.93
Autonomous System number :	25
Enable MD5 Auth :	🔵 Enable 💿 Disable
	🛗 Apply 🔞 Cancel

Item	Description
Profile	Type the name of the profile.
Enable	Check the box to enable this profile.
Neighbor IP Address	Type the private IP used for this profile.
Autonomous System number	Type the autonomous system number for the neighbor in BGP application.
Enable MD5 Auth	Enable - Click it to enable authentication mechanism. And, type a string as the password for authentication.
Password	Type a string as the password for MD5 authentication.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

- 4. Enter all of the settings and click **Apply**.
- 5. A new profile has been added onto **Neighbor** table.

4.4 NAT

NAT (Network Address Translation) is a method of mapping one or more IP addresses and/or service ports into different specified services. It allows the internal IP addresses of many computers on a LAN to be translated to one public address to save costs and resources of multiple public IP addresses. It also plays a security role by obscuring the true IP addresses of important machines from potential hackers on the Internet. The Vigor300B Series is NAT-enabled by default and gets one globally routable IP addresses from the ISP by Static, PPPoE, or DHCP mechanism. The Vigor300B Series assigns private network IP addresses according to RFC-1918 protocol and translates the private network addresses to a globally routable IP address so that local hosts can communicate with the router and access the Internet.

N	AT
	Port Redirection
	DMZ Host
	ALG
	Connection Timeout

4.4.1 Port Redirection

Port Redirection means port forwarding. It may be used to expose internal servers to the public domain or open a specific port to internal hosts. Internet hosts can use the WAN IP address to access internal network services, such as FTP, WWW and etc. The internal FTP server is running on the local host addressed as 192.168.1.2. When other users send this type of request to your network through the Internet, the router will direct these requests to an appropriate host inside. A user can also translate the port to another port by configuration. For example, port number with 1024 can be transferred into IP address of 192.168.1.100 of LAN. The packet is forwarded to a specific local host if the port number matches that defined in the table.

ogout : Off	Port Redirection	
ick Start Wizard	🕼 Add 🔀 Edit 🛅 Delete 💡 Move Up 🔻 Move Down 📢 Rename 🔝 Refresh	Profile Number Limit: 2
line Status		D 1 4
AN	Profile Enable Port Redirection WAN Use IP Alias Protocol Public Public Private IP	Private
N	No items to show.	
uting		
ιT		
Port Redirection		
DMZ Host		
ALG		
Connection Timeout		
ewall		
jects Setting		
er Management		
plications		
ndwidth Management		
B Application		
stem Maintenance		
agnostics		
ernal Devices		
oduct Registration		

Each item will be explained as follows:

Item	Description
Add	Add a new port redirect profile.

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Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.	
Delete	Remove the selected profile.	
	To delete a profile, simply select the one you want to delete and click the Delete button.	
Move Up	Change the order of selected profile by moving it up.	
Move Down	Change the order of selected profile by moving it down.	
Rename	Allow to modify the selected profile name.	
	Profile Profile: PR_1 Rename as: PR_TEST Apply & Cancel	
Refresh	Renew current web page.	
Profile	Display the name of the profile.	
Enable	Display the status of the profile. False means disabled; True means enabled.	
Port Redirection Mode	Display the direction for the port to be redirected.	
WAN Profile	Display the WAN interface of this profile.	
Use IP Alias	Display the type (no, Single_Alias, All) the IP Alias used.	
Alias	Display the selected WAN IP address.	
Protocol	Display the protocol used for the entry.	
Public Port Start	Display the starting number of the public port.	
Public Port End	Display the ending number of the public port.	
Private IP	Display the private IP used for this entry.	
Private Port	Display the number of the private port.	

How to add a new Port Redirection profile

- 1. Open NAT>> Port Redirection.
- 2. Simply click the **Add** button.

3. The following dialog will appear.

Profile :	PR_1	
🗹 Enable		
Port Redirection Mode :	Range to One 👻	
VAN Profile :	wan1	
Jse IP Alias :	No	
Protocol :	TCP/UDP	
Public Port Start :	100	
Public Port End :	110	
Private IP :	192.168.1.158	
Private Port :	50	
: 'Range-to-Range(IP)' Mode the Private IP have been entered.	End will be calculated automatically once the Public Port Start and Pub	lic Port

Item	Description		
Profile	Type the name of the profile.		
Enable	Check the box to enable this profile.		
Port Redirection Mode	Specify the direction for the port to be redirected. One to One Range to One Range to Range(p Range to Range(IP)		
WAN Profile	Specify the WAN profile for such profile.		
Use IP Alias	When All is selected as WAN Profile, such feature is unavailable. Use the drop down list to select the type you want. No Single Alias All Single Alias – You have to type one IP address used for IP Alias. All – All the IP address can be treated as IP Alias.		

Alias	WAN IP alias that can be selected and used for port redirection. Before using it, please go to WAN>>General Setup and enable the wan1 profile. Add several IP addresses under Static mode for wan1.
Protocol	Choose the protocol used for the entry.
Public Port Start/ Public Port End	It is available when Range to One or Range to Range (port) or Range to Range (IP) is selected as Port Redirection Mode. Type the starting/ending number of the public port. For Range-to-One, set both Start and End values with the same value.
Private IP Start / Private IP End	It is available when Range to Range (IP) is selected as Port Redirection Mode. Type the starting/ending IP address.
Private IP	Specify the private IP address of the internal host providing the service. Simply type the private IP used for this entry.
Private Port	Type a port number for such profile.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

4. Enter all the settings and click **Apply**.

5. A new profile has been added onto **Port Redirection** table.

4.4.2 DMZ Host

In computer networks, a DMZ (De-Militarized Zone) is a computer host or small network inserted as a neutral zone between a company's private network and the outside public network. It prevents outside users from getting direct access to company network. A DMZ is an optional and more secure approach to a firewall and effectively acts as a proxy server as well. In a typical DMZ configuration for a small company, a separate computer (or host in network terms) receives requests from users within the private network for access to Web sites or other companies accessible on the public network. The DMZ host then initializes sessions for these requests on the public networks. However, the DMZ host is not able to initiate a session back into the private network. It can only forward packets that have already been requested. Users of the public network outside the company can access only the DMZ host. **The DMZ may typically also have the company's Web pages so these could be served to the outside world.** If an outside user penetrated the DMZ host's security, only the Web pages will be corrupted but other company information would not be exposed.

Quick Start Wizard	🖒 Add 🔀	Edit 📺 Delete 📢 Rer	name 🗳 Refresh		Profile Number Limit :
Online Status WAN	Profile	Enable	Outgoing WAN Profile IP Alias	DMZ Host IP	Allow DMZ Host to A
LAN			No items to show	,	
Routing			140 10113 10 31104		
NAT					
Port Redirection					
DMZ Host					
ALG					
Connection Timeout					
Firewall					
Objects Setting					
User Management					
Applications					
Bandwidth Management					
USB Application					
System Maintenance					
Diagnostics					
External Devices					
Product Registration					

Each item will be explained as follows:

Item	Description
Add	Add a new DMZ host profile.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a profile, simply select the one you want to delete and click the Delete button.

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Rename	Allow to modify the selected profile name.	
Refresh	Renew current web page.	
Profile	Display the name of the profile.	
Enable	Display the status of the profile. False means disabled; True means enabled.	
Outgoing WAN Profile	Display the WAN profile that such DMZ host profile will be applied to.	
IP Alias	Display the selected WAN IP address if Use IP Alias is enabled.	
DMZ Host IP	Display the IP address of the DMZ host.	
Allow DMZ Host to Access Network	Display if such function is enabled or disabled.	

How to add a new DMZ Host profile

- 1. Open NAT>> DMZ Host.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile :	DMZ_1_RD
🗹 Enable	
Outgoing WAN Profile :	wan1 👻
Use IP Alias :	🔵 Enable 💿 Disable
DMZ Host IP :	
Allow DMZ Host to Access Network	: 💿 Enable 🔵 Disable
Allowed IP Object :	IP_range 🛛 👻 (Optional)
Allowed IP Group :	💌 🗙 (Optional)
Allowed Service Type :	BGP, FTP 🛛 👻 (Optional)

Item	Description
Profile	Type the name of the profile.

Enable	Check the box to enable the DMZ Host profile.
Outgoing WAN Profile	Choose a WAN profile for such entry.
Use IP Alias	Click Enable to invoke IP Alias function.
IP Alias	IP alias that can be selected and used for port redirection. Before using it, please go to WAN>>General Setup and enable the wan1 profile. Add several IP addresses under Static mode for wan1.
DMZ Host IP	Type the IP address of the DMZ host.
Allow DMZ Host to Access Network	Click Enable to make DMS host accessing network.
Allowed IP Object	This is an optional setting.
	Use the drop down list to choose the IP object profile(s) to apply to such profile.
Allowed IP Group	This is an optional setting.
	Use the drop down list to choose the IP group profile(s) to apply to such profile.
Allowed Service	This is an optional setting.
Туре	Use the drop down list to choose the type(s) to apply to such profile.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

- 4. Enter all the settings and click **Apply**.
- 5. A new profile has been added onto **DMZ Host** table.

🛅 Delete 🛛 🕩 Refresh	🔩 Rename		Profile Nu
ble Outgoing V	VAN Pro IP Alias	DMZ Host IP	Allow DMZ Host to Access Networ
wan2		192.168.1.111	Enable
	ble Outgoing V	ble Outgoing WAN Pro IP Alias	ble Outgoing WAN Pro IP Alias DMZ Host IP

4.4.3 ALG

4.4.3.1 SIP ALG

SIP ALG means **Session Initiation Protocol, Application Layer Gateway**. This page allows you to choose LAN and WAN profiles for Vigor router to make SIP message and RTP packets of voice being transmitting and receiving correctly via NAT.

	NAT >> ALG >> SIP ALG	6
Auto Logout : Off 🛛 👻	SIP ALG H.323 ALG	
Quick Start Wizard		
Online Status	Enable SIP ALG	
WAN		
LAN		
Routing		
NAT		
Port Redirection		
DMZ Host		
ALG		
Connection Timeout		
Firewall		
Objects Setting		
User Management		
Applications		
Bandwidth Management		
USB Application		
System Maintenance		
Diagnostics		
External Devices		
Product Registration		

Available parameters are listed as follows:

Item	Description
Enable SIP ALG	Check the box to enable the Mirror function for the switch.
Refresh	Renew current web page.
Apply	Click it to save the settings.

Click **Apply** to save the settings.

4.4.3.2 H.323 ALG

The H.323 ALG allows incoming and outgoing VoIP calls passing through NAT. If required, check the box and click **Apply** to save the settings.

	NAT >> ALG >> H.323 ALG	2
Auto Logout : Off 🗸 🗸	SIP ALG H.323 ALG	
Quick Start Wizard		1
Online Status	Enable H.323 ALG	
WAN		
LAN		
Routing		
NAT		
Port Redirection		
DMZ Host		
ALG		
Connection Timeout		1
Firewall		1
Objects Setting		
User Management		
Applications		
Bandwidth Management		
USB Application		
System Maintenance		
Diagnostics		
External Devices		1
Product Registration		
	×	

4.4.4 Connection Timeout

This feature is used to configure timeout setting for sessions established by TCP/UDP. When a session is idle for a period of time, the connection will be terminated after reaching the time limit configured in such page.

	NAT >> Connection Timeout				6
Auto Logout : Off 🛛 👻	Connection Timeout				
Quick Start Wizard					
Online Status					
WAN	TCP Timeout :	3600	(default:3600)		
LAN	UDP Timeout :	180	(default180)		
Routing	TCP WWW Timeout :	60	(default60)		
NAT Port Redirection		60	(default60)		
DMZ Host			()		
ALG					
Connection Timeout					
Firewall					
Objects Setting					
User Management					
Applications					
Bandwidth Management					
USB Application					
System Maintenance					
Diagnostics					
External Devices					
Product Registration	Note : 1. It is generally a bad idea	a to lower UDP Time:	out and TCP SYN timeout values.		
				H Apply	🙆 Cance
				TET Apply	

Available parameters are listed as follows:

Item	Description
TCP Timeout	Set a time limit for sessions established by TCP (except Port 80 and Port 443).
UDP Timeout	Set a time limit for sessions established by UDP.
TCP WWW Timeout	Set a time limit for sessions established by TCP Port 80 and Port 443.
TCP SYN Timeout	Set a time limit for sessions established by TCP SYN.
Apply	Click it to save the settings.
Cancel	Click it to discard the settings configured in this page.

Click **Apply** to save the settings.

4.5 Firewall

The firewall controls the allowance and denial of packets through the router. The **Firewall Setup** in the Vigor300B Series mainly consists of packet filtering, Denial of Service (DoS) and URL (Universal Resource Locator) content filtering facilities. These firewall filters help to protect your local network against attack from outsiders. A firewall also provides a way of restricting users on the local network from accessing inappropriate Internet content and can filter out specific packets, which may trigger unexpected outgoing connection such as a Trojan.

The following sections will explain how to configure the **Firewall**. Users can select **IP Filter**, **DoS Defense**, **MAC Block** and **Port Block** options from **Firewall** menu. The **DoS Defense** facility can detect and mitigate the DoS attacks.

Firewall
Filter Setup
DoS Defense
MAC Block
Filter Counter

4.5.1 Filter Setup

Vigor firewall will filter the packets based on the settings, including IP Filter, Application Filter, URL/Web Filter and QQ Filter configured under **Firewall>>Filter Setup**. These filters will group certain objects (e.g., IP Object, Service Object, Keyword Object, File Extension Object, IM Object, P2P Object, P2P Object, Protocol Object, Web Category Object, QQ Object, QQ Group, Time Object, and etc.) and form a powerful firewall to protect your computer.

4.5.1.1 IP Filter

This page allows you to create new filter, group, and profile for your request.

E	irewall >> Filter Setup >>	P Filter		2
Auto Logout : Off	IP Filter IPv6 Filt	er Application Filter URL/Web Category Fil	ter QQ Filter Default Policy	
Quick Start Wizard	🕼 Add 🛛 🗶 Edit	前 Delete 🛭 🔄 Refresh 🛛 😭 Move Up	🐣 Move Down	Profile Number Limit : 12
Online Status	-		*	
WAN	Group	Enable	Comment	
LAN		No items to	show.	
Routing				
NAT				
Firewall				
Filter Setup				
DoS Defense				
MAC Block				
Filter Counter				
Objects Setting				
User Management				
Applications				
Bandwidth Management				
USB Application				
System Maintenance				
Diagnostics				
External Devices				
Product Registration				
		101		>

Each item will be explained as follows:

Item	Description
Add	Add a new group profile for IP filter.
Edit	Modify the selected profile.



	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Move Up	Change the order of selected profile by moving it up.
Move Down	Change the order of selected profile by moving it down.
Profile Number Limit	Display the total number of the profiles to be created.
Group	Display the name of the IP filter group profile.
Enable	Display the status of the profile. False means disabled; True means enabled.
Comment	Display the description for such profile.

How to create an IP Filter group

To build an IP group containing IP filter rules, please follow the steps:

- 1. Open **Firewall>>Filter Setup** and click the **IP Filter** tab.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

P Filter		-×
Group :	IPF_Marketing]
🔽 Enable		
Comment :	used for MKT Dept	(Optional)
	Maga 🗄	🔇 Cancel

Item	Description
Group	Type the name of the IP filter group.
Enable	Check the box to enable this profile.
Comment	Give a brief description for the profile.

- 4. Enter all the settings and click **Apply**.
- 5. A new filter group has been added.



ire	wall >> Filter Setup >> IP Filter		
	IP Filter IPv6 Filter Application Filter	JRLWeb Category Filter QQ Filter Det	fault Policy
	🕼 Add 🛛 🗶 Edit 🛛 🕅 Delete 🛭 🖈 Refre	sh 🛭 💡 Move Up 🛛 🐣 Move Down	Profile Number Limit : 12
	Group	Enable	Comment
	IPF_Marketing	true	used for MKT Dept

6. You can create filter rule by clicking **b** on the left side of the selected IP filter group profile. A setting page will appear for you to add new IP filter rule profile.

1	🖏 Add 🛛 🔀 🕻	Edit 🔟 Dele	ete 🛛 🗳 Refre	sh 🛛 👚 Move	Up 🔻 Mo	ve Down			Profile Nu	mber Limit :
C	Group			Enable			Co	omment		
4	IPF_Marketin	ng		true			us	ed for MKT D	ept	
U	bbA 🗿	🗶 Edit 🛛 🕅	Delete 🛭 🖈 F	efresh 🕻 🕻 F	Rename 🛛 🖌	Move Up	🐣 М	love Down	Profile	Number Lin
	Rule	Enable	Action	Next Grou	Syslog	Source L	D G	General Fir	Source Fir	Destination
					No items to	show.				

7. Move your mouse to click **Add**.

Group			Enable
IPF_Market		tı	rue
🚺 Add	🔀 Edit	🔟 Delete	🤹 Ref
Rule	Enable	Block Actior	Next Gro
			No

8. The following page for configuration will appear.

tule		
Profile		
	Enable	
	Connection Limit	
Limit Packets :	10000	packets/sec, only for new connection
Limit Mode :	🛛 🔘 Share 💿 Each	
Next Group :		
SysLog	🔵 Enable 💿 Disable	
Input Interface :	Any	
Output Interface :		
e		ar a filmad ta ana lla d
•	cted in a category, the ca	se of Any is applied
Firewall Obj		
Time Schedule	9	
Time Object		
Time Group		
Service Protoc		
Service Type	•	
Service Type		
Incoming Court	-	
	itry Object (At most acce	ot 15 countries)
Out-going Cou		
	Country Object (At most a	(ccept 15 countries)
Source IP	viewł	
 Source IP Ot Source IP Gr 	•	
Source P Gr	oah	

Item Description		
Profile	Type the name of the IP filter rule.	
Enable	Check the box to enable this profile.	
Block Action	The action to be taken when packets match the rule. Block - Packets matching the rule will be dropped immediately	
	Accept- Packets matching the rule will be passed immediately.	
	 Block If No Further Match - A packet matching the rule, and that does not match further rules, will be dropped. Accept If No Further Match - A packet matching the rule, and that does not match further rules, will be passed through. 	
	Connection Limit –Limiting the number of packets for new connection can avoid attack driven by unknown person. For each connection session, packets number smaller than the Limit Packets setting can be passed immediately; however, packets number greater that the Limit Packets setting will be dropped. That is, packets to be passed or dropped are determined by connection rate (new session) at that time.	

	Accept Block Accept Block If No Further Match Accept If No Further Ma Connection Limit			
Limit Packets	When you choose Connection Limit as Action , you have to configure limit packets number to determine how many packets per second will be passed through.			
Limit Mode	 When you choose Connection Limit as Action, you have to choose Share or Each in addition to the number of packets limits. Share – It means the total IP addresses in a segment will be limited with certain packets number per second. Each –It means each IP will be limited with certain packets number per second. 			
Next Group	When you choose Block If No Further Match or Accept If No Further Match as Action , you have to specify next IP filter group for further matching.			
Syslog	Click Enable to make the history of firewall actions appearing on the System Maintenance >> Syslog/Mail Alert >> Syslog File. System Maintenance >> Syslog / Mail Alert >> Syslog File Syslog Access Setup Syslog File Mail Alert			
Input Interface	Choose one of the LAN or WAN profiles as data receiving interface.			
Output Interface	Choose one of the LAN or WAN profiles as data transmitting interface.			
Time Schedule	 Time Object - Click the triangle icon ▶ to display the profile selection box. Choose a schedule object profile to be applied on such rule. You can click ♥ to create another new time object profile. Time Group - Click the triangle icon ▶ to display the profile selection box. Choose a schedule group profile to be applied on such rule. You can click ♥ to create another new time group profile. 			
Service Protocol	 Service Type Object –Click the triangle icon ▶ to display the profile selection box. Choose one or more service type object profiles from the drop down list. The selected profile will be treated as service type. You can click to create another new service type object profile. Service Type Group –Click the triangle icon ▶ to display 			



	the profile selection box. Choose one or more service type group profiles from the drop down list. The selected profile will be treated as service type. You can click to create another new service type group profile.			
Incoming Country Filter	Source Country Object (At most accept 15 countries) - Click the triangle icon ▶ to display the profile selection box. Choose one or more country object profiles from the drop down list. The selected profile will be treated as an incoming country filter. You can click ♥ to create another			
	new filter profile.			
Outgoing Country Filter	Destination Country Object (At most accept 15 countries) - Click the triangle icon box to display the profile selection box. Choose one or more country object profiles from the drop down list. The selected profile will be treated			
	as an outgoing country filter. You can click 🔹 to create another new filter profile.			
Source IP	Source IP Object - Click the triangle icon to display the profile selection box. Choose one or more IP object profiles from the drop down list. The selected profile will be treated			
	as source target. You can click to create another new IP object profile.			
	Source IP Group - Click the triangle icon b to display the profile selection box. Choose one or more IP group profiles from the drop down list. The selected profile will be treated			
	as source target. You can click 🔍 to create another new IP group profile.			
	Source User Profile –Click the triangle icon ▶ to display the profile selection box. Choose one or more user profiles from the drop down list. The selected profile will be treated			
	as source target. You can click 🔍 to create another new user object profile.			
	Source User Group –Click the triangle icon ▶ to display the profile selection box. Choose one or more user group profiles from the drop down list. The selected profile will be			
	treated as source target. You can click 🚺 to create another new user group profile.			
	Source LDAP Group - Click the triangle icon by to display the profile selection box. Choose one or more user LDAP profiles from the drop down list. The selected profile will be			
	treated as source target. You can click to create another new LDAP group profile.			
Destination IP	Destination IP Object- Click the triangle icon by to display the profile selection box. Choose one or more IP object profiles from the drop down list. The selected profile will be			
	treated as destination target. You can click 📭 to create another new IP object profile.			
	Destination IP Group - Click the triangle icon b to display the profile selection box. Choose one or more IP group profiles from the drop down list. The selected profile			

	will be treated as destination target. You can click to create another new IP group profile. Destination DNS Object- Click the triangle icon b to
	display the profile selection box. Choose one or more DNS object profiles from the drop down list. The selected profile
	will be treated as destination target. You can click 🔍 to create another new DNS object profile.
	Destination User Profile –Click the triangle icon b to display the profile selection box. Choose one or more user profiles from the drop down list. The selected profile will be
	treated as destination target. You can click to create another new user object profile.
	Destination User Group –Click the triangle icon ▶ to display the profile selection box. Choose one or more user group profiles from the drop down list. The selected profile
	will be treated as destination target. You can click is to create another new user group profile.
	Destination LDAP Group –Click the triangle icon by to display the profile selection box. Choose one or more LDAP group profiles from the drop down list. The selected profile
	will be treated as destination target. You can click to create another new LDAP group profile.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

- 9. Enter all the settings and click **Apply**.
- 10. A new IP filter rule has been added under the IP Filter Group (named IPF_Market in this case).

Note: You can create multiple IP filter rules under a certain IP Filter group.

4.5.1.2 IPv6 Filter

This page allows you to create new IPv6 filter group for your request.

uto Logout : Off					
	IP Filter IP	6 Filter Application Filter UF	RL/Web Category Filter	QQ Filter Default Policy	
Quick Start Wizard	😭 Add 🔀	Edit 前 Delete 🛛 娕 Refresl	n 🍲 Move Up 🏾 🔻	Move Down	Profile Number Limit : 12
Online Status	Group		nable	Comment	
WAN	Group	E	lanie	Comment	
LAN			No items to sh	0W.	
Routing					
NAT					
Firewall					
Filter Setup					
DoS Defense					
MAC Block					
Filter Counter					
Objects Setting					
User Management					
Applications					
Bandwidth Management					
USB Application					
System Maintenance					
Diagnostics					
External Devices					
Product Registration					

Each item will be explained as follows:

Item	Description	
Add	Add a new group profile for IPv6 filter.	
Edit	Modify the selected profile.	
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.	
Delete	Remove the selected profile.	
	To delete a rule, simply select the one you want to delete and click the Delete button.	
Refresh	Renew current web page.	
Move Up	Change the order of selected profile by moving it up.	
Move Down	Change the order of selected profile by moving it down.	
Profile Number Limit	Display the total number of the profiles to be created.	
Group	Display the name of the IP filter group profile.	
Enable	Display the status of the profile. False means disabled; True means enabled.	
Comment	Display the description for such profile.	

How to create an IPv6 Filter group

To build an IP group containing IP filter rules, please follow the steps:

- 1. Open **Firewall>>Filter Setup** and click the **IPv6 Filter** tab.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.



∨6 Filter		-
Group :	IPv6_1	
📝 Enable	•	
Comment	:	(Optional)
		🗳 santa 🔿 Quarte
		💾 Apply 🛛 🔞 Cancel

Available parameters are listed as follows:

Item	Description
Group	Type the name of the IP filter group.
Enable Check the box to enable this profile.	
Comment Give a brief description for the profile.	
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

- 4. Enter all of the settings and click **Apply**.
- 5. A new filter group has been added.

IP	Filter	IPv6 Filter	Application	Filter URLW	'eb Category Filte	r QQ Filte	er Default Policy	
C) Add	🔀 Edit 🛛 👖	j Delete 🛛 🥥	🔊 Refresh 🚽	🕋 Move Up 🛛	🎐 Move Dow	n Pi	rofile Number Limit : 1
	Group			Enable			Comment	
	IPv6_1			true				

6. You can create filter rule by clicking **b** on the left side of the selected IP filter group profile. A setting page will appear for you to add new IP filter rule profile.

8	👌 Add 🛛 💥	Edit <u> m</u> Dele	ete 🗳 Refres	h 🕋 Move U	Ip 😽 Move I	Down	Profile Nu	mber Li
	Group		Enat	le		Comment		
1	IPv6_1		true					
_	💽 Add	🔀 Edit 🛛 🕅	Delete 🛛 🗳 R	efresh 🛛 📢 Ri	ename 🛛 🍲 N	love Up 🛛 🦊 N	love Down	Pro
	Rule	Enable	Block Action	Next Group	Syslog	General Fir	Source Fire	Desti
				No iter	ns to show.			

7. Move your mouse to click **Add**.



IP F	ilter IP	v6 Filter A	pplication Filt	er UR	LWeb Catego
6	Add 🔀	Edit 🛅 D	elete 🛛 📢 I	Refresh	襘 Move U
	Group			Enable	
4	Pv6_1			true	
	🚯 Add	🔀 Edit 🛛	🏢 Delete	< Ref	resh 🕻 🔓 R
R	ule	Enable	Block Ac	tion N	ext Group
					No item

8. The following page for configuration will appear.

Profile : Enable	
Action : Accept	
Next Group :	
SysLog : 🔵 Enable 💿 Disable	
Input Interface : ALL LANS	
Output Interface : Anv	
no object is selected in a category, the case of 'Any' is applied	
Firewall Objects	
Time Schedule	
Time Object	
Time Group	
Service Protocol	
Service Type Object	
Service Type Group	
Source IP	
Source IPv6 Object	
Destination IP	
Destination IPv6 Object	

Item	Description
Profile	Type the name of the IP filter rule.
Enable	Check the box to enable this profile.
Action	The action to be taken when packets match the rule.
	Block - Packets matching the rule will be dropped immediately
	Accept - Packets matching the rule will be passed immediately.
	Block If No Further Match - A packet matching the rule, and that does not match further rules, will be dropped.

Next Group	Accept If No Further Match - A packet matching the rule, and that does not match further rules, will be passed through. Accept Block Accept Block If No Further Match Accept If No Further Match Accept If No Further Ma Any When you choose Block If No Further Match or Accept If No Further Match as Block Action, you have to specify next IP filter group for further matching.
Syslog	Click Enable to make the history of firewall actions appearing on the System Maintenance >> Syslog/Mail Alert >> Syslog File. System Maintenance >> Syslog / Mail Alert >> Syslog File Syslog Access Setup Syslog File Mail Alert
Input Interface	Choose one of the LAN or WAN profiles as data receiving interface.
Output Interface	Choose one of the LAN or WAN profiles as data transmitting interface.
Time Schedule	 Time Object - Click the triangle icon ▶ to display the profile selection box. Choose a schedule object profile to be applied on such rule. You can click ♥ to create another new time object profile. Time Group - Click the triangle icon ▶ to display the profile selection box. Choose a schedule group profile to be applied on such rule. You can click ♥ to create another new time group profile.
Service Protocol	 Service Type Object –Click the triangle icon ▶ to display the profile selection box. Choose one or more service type object profiles from the drop down list. The selected profile will be treated as service type. You can click to create another new service type object profile. Service Type Group –Click the triangle icon ▶ to display the profile selection box. Choose one or more service type group profiles from the drop down list. The selected profile will be treated as service type. You can click the triangle icon ▶ to display the profile selection box. Choose one or more service type group profiles from the drop down list. The selected profile will be treated as service type. You can click to create another new service type group profile.
Source IP	Source IPv6 Object - Click the triangle icon ▶ to display the profile selection box. Choose one or more IP object profiles from the drop down list. The selected profile will be treated as source target. You can click to create another new IP object profile.



Destination IP	Destination IPv6 Object- Click the triangle icon \triangleright to display the profile selection box. Choose one or more IP object profiles from the drop down list. The selected profile will be treated as destination target. You can click to create another new IP object profile.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

- 9. Enter all of the settings and click **Apply**.
- 10. A new IPv6 filter rule has been added under the IPv6 Filter Group (named For_IPv61 in this case).

IF	Filter IPv	/6 Filter Appl	ication Filter U	JRLWeb Cate	gory Filte	QQ Filter Defa	ault Policy	
ſ	🔪 bbA 🛟	Edit 🔟 Dele	ete 🛭 Ϛ Refre	sh 💣 Move	Up 🐣 Mo	ove Down		
	Group				Enable			
4	IPv6_1				true			
	C Add	🔀 Edit 👖	Delete 🗳	Refresh 🕻	Rename	👚 Move Up 💐	Move Down	
	Rule	Enable	Block Acti	Next Group	Syslog	General Fi	Source Fi	Dest
	For_IPv61	true	pass		Disable			

Note: You can create multiple IPv6 filter rules under a certain IP Filter group.

Dray Tek

4.5.1.3 Application Filter

Application Filter can integrate several application objects within one profile for restricting the usage of application. For example, it can block people defined in IP object profile not using IM application, not using P2P for file sharing, and not downloading files via certain protocol.

Auto Logout : Off 🛛 🗸	IP Filter IPv	6 Filter Applica	tion Filter URLWeb	ategory Filter Q	Q Filter Defa	ult Policy		
Quick Start Wizard	5 Add 14 Edg						Profile Number Limit :	22
Online Status			Move Up 😽 Move D					32
WAN	Profile	Enable	Time Schedule	Firewall Target	APP Block	Counter	Clear Counter	
LAN				No items to show.				
Routing								
NAT								
Firewall								
Filter Setup								
DoS Defense								
MAC Block								
Filter Counter								
Objects Setting								
User Management								
Applications								
Bandwidth Management								
USB Application								
System Maintenance								
Diagnostics								
External Devices								
Product Registration								

Each item will be explained as follows:

Item	Description
Add	Add a new group profile for Application filter.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Move Up	Change the order of selected profile by moving it up.
Move Down	Change the order of selected profile by moving it down.
Rename	Allow to modify the selected profile name.
Profile	Display the name of the application filter profile.
Enable	Display the status of the profile. False means disabled; True means enabled.
Time Object	If no time schedule is set, None will be shown in this field.
Time Group	Display the Time group profile selected for such application profile.
IP Object	Display the IP object profile selected for such application profile.



IP Group	Display the IP group profile selected for such application profile.
User Profile	Display the user object profile selected for such application profile.
User Group	Display the user group profile selected for such application profile.
APP Block	Display the APP object profile selected for such application profile.

How to create an Application Filter profile

- 1. Open **Firewall>>Filter Setup** and click the **Application Filter** tab.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear. Click the triangle icon ▶ to display the profile selection box (red rectangle).

Profile: APP_1	
🗹 Enable	
SysLog : 💿 Enable 🔿 Disable	
f no object is selected in a category, the case of 'Any' is applied	
Firewall Objects	
Time Schedule	
Time Object	
Time Group	
Source IP	
Source IP Object	
Source IP Group	
Source User Profile	
Source User Group	
Source LDAP Group	
Action Policy	
APP Block	

Item	Description
Profile	Type the name of the application filter profile.
Enable	Check the box to enable this profile.
Syslog	Click Enable to make the history of firewall actions appearing on the System Maintenance >> Syslog/Mail Alert >> Syslog File .

	System Maintenance >> Syslog / Mail Alert >> Syslog File Syslog Access Setup Syslog File Mail Alert
Time Schedule	 Time Object - Click the triangle icon ▶ to display the profile selection box. Choose a schedule profile to be applie on such application filter profile. The router will perform the filtering job based on the time object selected. You can clice to create another new time object profile, or you can click the edit icon to modify the existed object profile Time Group - Click the triangle icon ▶ to display the profile selection box. Choose a schedule group profile to be applied on such rule. You can click the edit icon to modify the existed applied on such rule. You can click the edit icon to modify the existed group profile.
Source IP	Source IP Object - Click the triangle icon \blacktriangleright to display the profile selection box. Choose one or more IP object profile from the drop down list. The selected IP will be filtered by the router when such application filter profile is applied. Y can click to create another new IP object profile.
	Source IP Group - Click the triangle icon ▶ to display the profile selection box. Choose one or more IP group profile from the drop down list. The selected profile will be filtere by the router when such application filter profile is applied You can click to create another new IP group profile, you can click the edit icon to modify the existed group profile.
	Source User Profile - Click the triangle icon > to display the profile selection box. Choose one or more user profiles from the drop down list. The user specified in the selected profile will be filtered by the router when such application filter profile is applied. You can click to create anothen new user profile, or you can click the edit icon to modify the existed user profile.
	Source User Group - Click the triangle icon \triangleright to display the profile selection box. Choose one or more user group profiles from the drop down list. The users within the selected profile will be filtered by the router when such application filter profile is applied. You can click to create another new user group profile, or you can click the edit icon \bowtie to modify the existed group profile.
	Source LDAP Group - Click the triangle icon b to displat the profile selection box. Choose one or more user LDAP profiles from the drop down list. The selected profile will b treated as source target. You can click to create another the treated as source target.



	new LDAP group profile.
Action Policy	APP Block - Click the triangle icon ▶ to display the profile selection box. Choose one or more APP object profiles from the drop down list which will be allowed / not be allowed to pass through the router. You can click to create another new APP object profile, or you can click the edit icon to modify the existed object profile.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

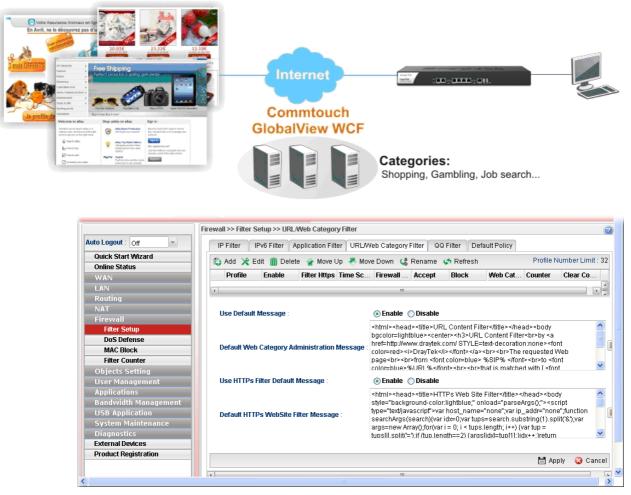
- 4. Enter all the settings and click **Apply**.
- 5. A new Application filter profile has been added.

Firewall >> Filter Setup >> Application Filter

	m	-			- 9		
[🕼 Add 🛛 🔀 Eo	lit 🔟 Delete	< Refresh 🛛 😭 🕅	love Up 🛛 🍼 Moʻ	ve Down 🛛 🔓 Re	name	
	Profile	Enable	Time Object	Time Group	IP Object	IP Group	User
1	APP_1	true					

4.5.1.4 URL/Web Category Filter

URL Filter can integrate URL, Keyword, File extension and WCF object profiles within one profile for restricting certain people accessing into Internet.



Item	Description
Add	Add a new group profile for URL filter.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Move Up	Change the order of selected profile by moving it up.
Move Down	Change the order of selected profile by moving it down.
Rename	Allow to modify the selected profile name.

Dray Tek

Item	Description
Profile Number Limit	Display the total number of the object profiles to be created.
Profile	Display the name of the application filter profile.
Enable	Display the status of the profile. False means disabled; True means enabled.
Filter Https	Display if the HTTPs filter is enabled or not.
Time Object	If no time schedule is set, None will be shown in this field.
Time Group	Display the Time group profile selected for such application profile.
IP Object	Display the IP object profile selected for each rule.
IP Group	Display the IP group profile selected for each rule.
User Profile	Display the user object profile selected for each rule.
User Group	Display the user group profile selected for each rule.
File Extension Pass	Display the file extension object profile selected for each rule which is allowed to pass through the router.
File Extension Block	Display the file extension object profile selected for each rule which is not allowed to pass through the router.
Keyword Pass	Display the keyword object profile selected for each rule which is allowed to pass through the router.
Keyword Block	Display the keyword object profile selected for each rule which is not allowed to pass through the router.
Web Category Block	Display the web category object profile selected for each rule which is not allowed to pass through the router.
China Web Category	Display the China web category object profile selected for each rule which is not allowed to pass through the router.
Use Default Message	 Enable – Use the default message to display on the page that the user tries to access into the blocked web page Disable – Type the message manually to display on the page that the user tries to access into the blocked web page.
Default Web Category Administration Message	Such field is available when you disable the function of Use Default Message . The message will display on the user's browser when he/she tries to access the blocked web page.
Use HTTPs Filter Default Message	 Enable – Use the default message to display on the page that the user tries to access into the blocked web page through HTTPs. Disable – Type the message manually to display on the page that the user tries to access into the blocked web page.
Default HTTPS WebSite	that the user tries to access into the blocked web page through HTTPs. The message will display on the user's browser when he/she
Filter Message	tries to access the blocked web page through HTTPs.
Apply	Click it to save and exit the dialog.



Item	Description
Cancel	Click it to discard the settings configured in this page.

How to create a URL Filter profile

- 1. Open **Firewall>>Filter Setup** and click the **URL/Web Category Filter** tab.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile	
Profile : URL_test	
Filter Https : 🔘 Enable 💿 Disable (For Keyword and Web Category)	
SysLog : 💿 Enable 🔿 Disable	
f no object is selected in a category, the case of 'Any' is applied	
Firewall Objects	
Time Schedule	· · · · · · · · · · · · · · · · · · ·
Time Object	
Time Group	
Source IP	
Source IP Object	
Source IP Group	
Source User Profile	
Source User Group	
Source LDAP Group	
Action Policy	
File Extension Accept	
File Extension Block	
Keyword Accept	
Keyword Block	
Web Category Policy	
	🛗 Apply 🛛 😵 Canc

Item	Description
Profile	Type the name of the URL filter profile.
Enable	Check the box to enable this profile.
Filter https	Enable – Click it to enable the HTTPS filtering job. Disable – When only keyword and web category are selected for such rule, choose Disable.
Syslog	Click Enable to make the history of firewall actions appearing on the System Maintenance >> Syslog/Mail Alert >> Syslog File .
	System Maintenance >> Syslog / Mail Alert >> Syslog File Syslog Access Setup Syslog File Mail Alert



Item	Description
Time Schedule	 Time Object - Click the triangle icon ▶ to display the profile selection box. Choose a schedule profile to be applied on such application filter profile. The router will perform the filtering job based on the time object selected. You can click to create another new time object profile, or you can click the edit icon to modify the existed object profile.
	Time Group - Click the triangle icon \triangleright to display the profile selection box. Choose a schedule group profile to be applied on such rule. You can click to create another new time group profile, or you can click the edit icon to modify the existed group profile.
Source IP	Source IP Object - Click the triangle icon ▶ to display the profile selection box. Choose one or more IP object profiles from the drop down list. The selected IP will be filtered by the router when such URL filter profile is applied. You can click to create another new IP object profile.
	Source IP Group - Click the triangle icon ▶ to display the profile selection box. Choose one or more IP group profiles from the drop down list. The selected profile will be filtered by the router when such URL filter profile is applied. You can click to create another new IP group profile, or you can click the edit icon to modify the existed group profile.
	Source User Profile - Click the triangle icon \triangleright to display the profile selection box. Choose one or more user profiles from the drop down list. The user specified in the selected profile will be filtered by the router when such URL filter profile is applied. You can click $$ to create another new user profile, or you can click the edit icon $$ to modify the existed user profile.
	Source User Group - Click the triangle icon \blacktriangleright to display the profile selection box. Choose one or more user group profiles from the drop down list. The users within the selected profile will be filtered by the router when such URL filter profile is applied. You can click the edit icon with the selected profile, or you can click the edit icon
	 to modify the existed group profile. Source LDAP Group - Click the triangle icon b to display the profile selection box. Choose one or more user LDAP profiles from the drop down list. The selected profile will be treated as source target. You can click to create another new LDAP group profile.
Action Policy	File Extension Accept / File Extension Block - Click the triangle icon ▶ to display the profile selection box. Choose one or more File Extension object profiles from the drop down list which will be allowed / not be allowed to pass

Item	Description
	through the router. You can click to create another new File Extension object profile, or you can click the edit icon to modify the existed object profile.
	Keyword Accept / Keyword Block - Click the triangle icon ▶ to display the profile selection box. Choose e one or more keyword object profiles from the drop down list which will be allowed / not be allowed to pass through the router. You can click to create another new keyword object profile, or you can click the edit icon to modify the existed
	object profile. Web Category Policy - Click the triangle icon ▶ to display the profile selection box. Choose one or more web category object profiles from the drop down list which will not be allowed to pass through the router. You can click to create another new web category object profile, or you can click the edit icon ★ to modify the existed object profile.
	China Web Category Block - Click the triangle icon ▶ to display the profile selection box. Choose one or more web category object profiles from the drop down list which will not be allowed to pass through the router. You can click to create another new web category object profile, or you can click the edit icon ★ to modify the existed object profile.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

- 4. Enter all the settings and click **Apply**.
- 5. A new URL filter profile has been added.

🖏 Add 🔀 Edit 🛅 Delete 🔊 Refresh 🎓 Move Up 🖉 Move Down 📢 Rename Profile Number Lin	Add X Edit Delete Refresh Amore Up Move Down Generation Section 2.1 Sectio	rall >> Filter S	etup >> UF Pv6 Filter			r JRLWeb Cat	teanry Filter	QQF	ilter De	fault Policy					
										,				Profile Nu	mber Limit :
I ORC_test inte enable	UKL_lest true enable				lime	Time G IF	Object IP	Group	User P…	User G	File Extensio	File Exte	Keywo	Keywo	China We
		URL_test	true	enable											

4.5.1.5 QQ Filter

This page is designed for the user in China only. For people **outside China, skip this section**.

uto Logout : Off 🛛 👻	IP Filter	IPv6 Filter Application	on Filter URL/Web Cate	gory Filter 📔 QQ Filte	er Default Policy	
Quick Start Wizard	Add 💉 F	Edit 🧰 Delete 🐟 N	fove Up 🛛 🐣 Move Down	Cê Rename 🦛 P	Refresh	Profile Number Limit : 3
Online Status						
WAN	Profile	Enable	Time Profile	Source IP	QQ Account Pass	QQ Account Block
LAN			Noi	tems to show.		
Routing						
NAT						
Firewall						
Filter Setup						
DoS Defense						
MAC Block						
Filter Counter						
Objects Setting						
User Management						
Applications						
Bandwidth Management						
USB Application						
System Maintenance						
Diagnostics						
External Devices						
Product Registration						

Each item will be explained as follows:

Item	Description
Add	Add a new group profile for QQ filter.
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify
	and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Move Up	Change the order of selected profile by moving it up.
Move Down	Change the order of selected profile by moving it down.
Rename	Allow to modify the selected profile name.
Profile Number Limit	Display the total number of the object profiles to be created.
Profile	Display the name of the application filter profile.
Enable	Display the status of the profile. False means disabled; True means enabled.
Time Profile	If no time schedule is set, None will be shown in this field.
Source IP	Display the IP object profile selected for each rule.
QQ Account Pass	Display the account name which is allowed to pass if the selected QQ profile is enabled.
QQ Account Block	Display the account name which will be blocked if the selected QQ profile is enabled.

Apply	Click it to save and exit the dialog.
Cancel	Click it to discard the settings configured in this page.

How to create a QQ Filter profile

- 1. Open **Firewall>>Filter Setup** and click the **QQ Filter** tab.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile		-	•×
Profile :	DrayTek		
🗹 Enable			
Time Profile :	None	× 🛟	
	Any	×.	
	Test		
	LAN_User_Gr		
Source IP :	LAN_User_Gr		٩
	Grp_marketing		
QQ Account Pass	:	× 🏟	
QQ Account Block	None	× 🏟	
	📕 Apply	🔇 Can	cel

Item	Description	
Profile	Type the name of the QQ filter profile.	
Enable This Profile	Check the box to enable this profile.	
Time Profile	Use the drop down list to specify a time profile for such profile. You can click to create another new time object profile.	
Source IP	Specify user profiles for such profile. Users within the source IP will be filtered by Vigor router when such profile is applied.	
QQ Account Pass	Use the drop down list to specify a QQ account profile for such profile. The select account will not be blocked by Vigor router. You can click to create another new QQ account.	
QQ Account Block	Use the drop down list to specify a QQ account profile for such profile. The select account will be blocked by Vigor router.	



Item	Description
	You can click 🔯 to create another new QQ account.
Apply	Click it to save and exit the dialog.
Cancel	Click it to discard the settings configured in this page.

- 4. Enter all the settings and click **Apply**.
- 5. A new QQ filter profile has been added.

🚯 Add	🔀 Edit 前 Delete	🗢 Refresh 🛛 💣 Move U	Jp 🏾 🐣 Move Down	🕼 Rename	Profile
Profile	Enable	Time Profile	Source IP	QQ Account Pass	QQ Account Block
DrayTek	true	None	Any	None	None

4.5.1.6 Default Policy

Default policy will be applied to all of the incoming packets, if IP Filter, Application Filter, URL/Web Category Filter and QQ Filter are not suitable for the incoming packets.

	Firewall >> Filter Setup >> Default Policy	(2
Auto Logout : Off 🛛 🗠	IP Filter IPv6 Filter Application Filter URLWeb Category Filter QQ Filter Default Policy	
Quick Start Wizard		
Online Status		
WAN	Default Policy : Accept	
LAN		
Routing	Packet Inspection : O Disable Senable	
NAT	Packets Number : 8	
Firewall		
Filter Setup		
DoS Defense		
MAC Block		
Filter Counter		
Objects Setting		
User Management		
Applications		
Bandwidth Management		
USB Application		
System Maintenance		
Diagnostics		
External Devices	Note :	
Product Registration	 Default Policy is applied to the path LAN->WAN direction only. Displic Posted inspection can reduce system loading but some filters may not work. 	
		Apply 🛛 🚳 Cancel

Item	Description
Default Policy	Pass – All of the incoming packets can pass through Vigor router without any filtering.
	Block – All of the incoming packets will be blocked except the following rules.
	• Pass DNS Query – Check the box to make the DNS query passing through Vigor router's firewall.
	• Pass Reply of Port Redirection /DMZ – Check the box to make the outgoing packets processed by Port Redirection/DMZ passing through Vigor router's firewall.
	• Enable Syslog – Check the box to make related

	 information for the blocked packets being recorded in Syslog. The above three policies also can be configured in Firewall>>Filter Setup>>IP Filter/Application Filter.
Packet Inspection	Disable – No inspection will be performed. Enable – Packet inspection will be performed.
Packets Number	If Packet Inspection is enabled, choose a packet number for filtering. Available settings are from 4 to 16. For example, "8" is selected as packet number setting. It means only the former 8 packets will be filtered and inspected by Firewall rule. Others are allowed to pass through without any inspection.
Apply	Click it to save the configuration.
Cancel	Click it to discard the settings configured in this page.

After finished the above settings, click **Apply** to save the configuration.

4.5.2 DoS Defense

The DoS function helps to detect and mitigates DoS attacks. These include flooding-type attacks and vulnerability attacks. Flooding-type attacks attempt to use up all your system's resources while vulnerability attacks try to paralyze the system by offending the vulnerabilities of the protocol or operation system.

4.5.2.1 Switch Rate Limit

Default interface profiles will be shown on the page.

o Logout : Off 🛛 👻	Switch Rate Li	imit System						
Quick Start Wizard	🔀 Edit							
Online Status								
WAN	Interface	Enable Ingre		Broadcast	Multicast	Unicast	Unknow Unic Unknow Mult	-
LAN	LAN_Port_1	false	-1					-1
Routing	LAN_Port_2	false	-1					-1
NAT	WAN1	false	-1					-1
Firewall	WAN2	false	-1					-1
Filter Setup	WAN3	false	-1					-1
DoS Defense	WAN4	false	-1					-1
MAC Block								
Objects Setting								
User Management								
Applications								
Bandwidth Management								
USB Application								
System Maintenance								
Diagnostics								
External Devices								
LACTINI DOVIDOS								

Choose one of the profiles and click **Edit**. You can modify the rate limit manually for each interface profile.



Interface :	LAN_Port_1
✓ Port Rate Limit	
Enable Ingress Rat	te Limit(All Packets)
Rate Limit :	-1 Mbps
✓ Storm Filter	
Broadcast :	💿 Enable 🔘 Disable
Multicast :	💿 Enable 🔵 Disable
Unicast :	💿 Enable 🔘 Disable
Unknow Unicast :	💿 Enable 🔘 Disable
Unknow Multicast :	💿 Enable 🔘 Disable
Filtering Rate :	-1 Mbps

Available parameters are listed as follows:

Item	Description
Interface	Display the interface selected.
Port Rate Limit	Enable Ingress Rate Limit (All Packets) – Check the box to make all packets will be limited by the rate limit.
	Rate Limit – The default setting is "-1". It means no limit.
Storm Filter	Broadcast - Click Enable to block the packets attacks coming from broadcast storm.
	Multicast - Click Enable to block the packets attacks coming from multicast storm.
	Unicast - Click Enable to block the packets attacks coming from unicast storm.
	Unknown Unicast –Click Enable to block the packets attacks coming from unknown unicast storm.
	Unknown Multicast - Click Enable to block the packets attacks coming from unknown multicast storm.
	Filtering Rate – Type a number (1~4096, unit is 64Kpbs) required for filtering.
Apply	Click it to save the configuration.

After finished the above settings, click **Apply** to save the configuration.

4.5.2.2 System

In the **Firewall** group, click the **DOS Defense** and click the tab of **System**. You will see the following page. The DoS Defense Engine inspects each incoming packet against the attack signature database. Any packet that may paralyze the host in the security zone is blocked. The DoS Defense Engine also monitors traffic behavior. Any anomalous situation violating the DoS configuration is reported and the attack is mitigated.



	Firewall >> DoS Defense >> Sys		
to Logout : Off 🛛 👻	Switch Rate Limit Syste	m	
Quick Start Wizard			
Online Status	Enable		
WAN	Block SYN Flood :	🔵 Enable 💿 Disable	
LAN	SYN Flood Threshold :	2000	Packets/Second
Routing NAT	SYN Flood Timeout :	10	
Firewall	Block ICMP Flood	Enable Disable	
Filter Setup			
DoS Defense	ICMP Flood Threshold :	250	Packets/Second
MAC Block	ICMP Flood Timeout :	10	
Objects Setting	Block UDP Flood :	🔵 Enable 💿 Disable	
User Management	UDP Flood Threshold :	2000	Packets/Second
Applications	UDP Flood Timeout :	10	
Bandwidth Management	Block Port Scan :	🔵 Enable 💿 Disable	
USB Application	Port Scan Threshold :	2000	Packets/Second
System Maintenance	Block IP Options :	Enable Disable	
Diagnostics External Devices			
Product Registration	Block Land :	🔵 Enable 💿 Disable	
Product Negistration	Block SMURF :	🔵 Enable 💿 Disable	
	Block Trace Route :	🔵 Enable 💿 Disable	
	Block SYN Fragment :	🔵 Enable 💿 Disable	

Item	Description
Enable	Check the box to enable this profile.
Block SYN Flood	Click Enable to activate the SYN flood defense function. If the amount of TCP SYN packets from the Internet exceeds the user-defined threshold value, the router will be forced to randomly discard the subsequent TCP SYN packets within the user-defined timeout period.
SYN Flood Threshold	The default setting for threshold is 2000 packets per second.
SYN Flood Timeout	The default setting for timeout is 10 seconds.
Block ICMP Flood	Click Enable to activate the ICMP flood defense function. If the amount of ICMP echo requests from the Internet exceeds the user-defined threshold value, the router will discard the subsequent echo requests within the user-defined timeout period.
ICMP Flood Threshold	The default setting for threshold is 250 packets per second.
ICMP Flood Timeout	The default setting for timeout is 10 seconds.
Block UDP Flood	Click Enable to activate the UDP flood defense function. If the amount of UDP packets from the Internet exceeds the user-defined threshold value, the router will be forced to randomly discard the subsequent UDP packets within the user-defined timeout period.
UDP Flood Threshold	The default setting for threshold is 2000 packets per second.
UDP Flood Timeout	The default setting for timeout is 10 seconds.
Block Port Scan	Click Enable to activate the Port Scan detection function. Port scan sends packets with different port numbers to find available services, which respond. The router will identify it and report a warning message if the port scanning rate in packets per second exceeds the user-defined threshold value.



Item	Description
Port Scan Threshold	The default threshold is 2000 pps (packets per second).
Block IP Options	Click Enable to activate the Block IP options function. The router will ignore any IP packets with IP option field appearing in the datagram header.
Block Land	Click Enable to activate the Block Land function. A Land attack occurs when an attacker sends spoofed SYN packets with identical source address, destination addresses and port number as those of the victim.
Block SMURF	Click Enable to activate the Block Smurf function. The router will reject any ICMP echo request destined for the broadcast address.
Block Trace Route	Click Enable to activate the Block Trace Route function.
Block SYN Fragment	Click Enable to activate the Block SYN fragment function. Any packets having the SYN flag and fragmented bit sets will be dropped.
Block Fraggle	Click Enable to activate the Block fraggle Attack function. Any broadcast UDP packets received from the Internet are blocked.
Block Tear Drop	Click Enable to activate the Block Tear Drop function. This attack involves the perpetrator sending overlapping packets to the target hosts so that target host will hang once they re-construct the packets. The routers will block any packets resembling this attacking activity.
Block Ping of Death	Click Enable to activate the Block Ping of Death function. Many machines may crash when receiving an ICMP datagram that exceeds the maximum length. The router will block any fragmented ICMP packets with a length greater than 1024 octets.
Block ICMP Fragment	Click Enable to activate the Block ICMP fragment function. Any ICMP packets with fragmented bit sets are dropped.
Block Unknown Protocol	Click Enable to activate the Block Unknown Protocol function. The router will block any packets with unknown protocol types.
Apply	Click it to save the configuration.
Cancel	Click it to discard the settings configured in this page.

After finished the above settings, click **Apply** to save the configuration.

4.5.3 MAC Block

MAC Block allows you to set lots of proprietary MAC Address. Packets will be dropped if the source or destination MAC Address of packets is matched with these assigned MAC Addresses. The advantage of MAC Block is that it can filter some unnecessary packets or attacking packets on LAN network.

	Firewall >> MAC Block			(
Auto Logout : Off 🛛 👻	MAC Block			
Quick Start Wizard	🙆 Add 🔀 Edit 萠	Delete 📢 Rename 🗳 Refresh	Profile Number	r Limit : 10
Online Status		Enable	MAC Address	
WAN	Profile	Enaple	MAC Address	
LAN		No items to	show.	
Routing				
NAT				
Firewall				
Filter Setup				
DoS Defense				
MAC Block				
Filter Counter				
Objects Setting				
User Management				
Applications				
Bandwidth Management				
USB Application				
System Maintenance				
Diagnostics				
External Devices				
Product Registration				

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.
Rename	Allow to modify the selected profile name.
Refresh	Renew current web page.
Profile Number Limit	Display the total number of the object profiles to be created.
Profile	Display the name of the profile.
Enable	Display the status of the profile. False means disabled; True means enabled.
MAC Address	Display the MAC address for such profile.

How to create a new MAC Block profile

- 1. Open Firewall>>MAC Block.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.



AC Block	-
Profile :	MB_1
Enable MAC Addres	s: 00:50:7F:CA:BE:9D
	🛗 Apply 🛛 Cancel

Item	Description
Profile	Type the name which can briefly describe the reason of the MAC block of such profile.
Enable	Check the box to enable this profile.
MAC Address	Type the MAC address which will be blocked by the system for such profile.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

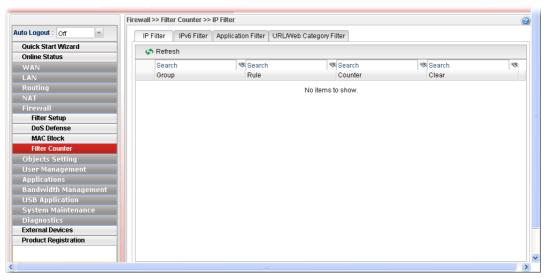
- 4. Enter all the settings and click **Apply**.
- 5. A new MAC Block profile has been created.

MAC Block				
🚯 Add	🔀 Edit	🔟 Delete	< Refresh	🔩 Rename
Profile				Enable

4.5.4 Filter Counter

Such page will display log or status for firewall group, rule information for IP Filter, IPv6 Filter, Application Filter and URL/Web Category Filter.

Simply click the tab of IP Filter, IPv6 Filter, Application Filter or URL/Web Category Filter to get the status for each filter.



If there is no data (counter number is "0") for certain rule displayed on such page, that means such rule might be configured wrong or blocked by other rules. Then the administrator or the user can adjust the filter to meet his request.



4.6 Objects Setting

Vigor300B allows users to set different filter profiles based on IP, service type, keyword, file extension, instant message application, P2P application, protocol application, web category, QQ application, time setting, SMS service, mail service and notification. These objects setting profiles can be applied in **Firewall**.

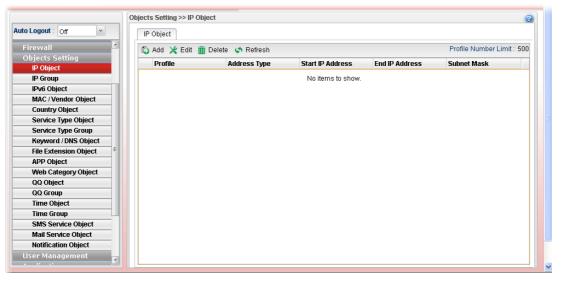
Ob	jects Setting
	IP Object
	IP Group
	IPv6 Object
	MAC / Vendor Object
	Country Object
	Service Type Object
	Service Type Group
	Keyword / DNS Object
	File Extension Object
	APP Object
	Web Category Object
	QQ Object
	QQ Group
	Time Object
	Time Group
	SMS Service Object
	Mail Service Object
	Notification Object

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4.6.1 IP Object

For IPs in a limited range usually will be applied in configuring router's settings, we can define them with *objects* and bind them with *groups* for using conveniently. Later, we can select that object/group that can apply it. For example, all the IPs in the same department can be defined with an IP object (a range of IP address).

This page allows you to specify certain IP address, range of IP addresses or subnet mask as an object which will be applied in **Firewall**.



Item	Description
Add	Add a new profile.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (256) of the object profiles to be created.
Profile	Display the name of the profile.
Address Type	Display the address type (single, range or subnet) for such profile.
Start IP Address	Display the IP address of the starting point for such profile.
End IP Address	Display the IP address of the ending point for such profile.
	It will be joined with Start IP Address only when you choose Range as the Address Type .
Subnet Mask	Display the subnet mask for such profile.

Each item will be explained as follows:



How to create a new IP object profile

- 1. Open **Objects Setting>>IP Object.**
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile :	IP_object_1
Address Type :	Subnet 💌
Start IP Address :	192.168.1.78
Subnet Mask :	255.255.255.0/24
Subnet Mask :	255.255.255.0/24

Item	Description
Profile	Type the name of such profile.
Address Type	Choose the address type (Single / Range /Subnet) for such profile. Range Single Range Subnet
Start IP Address	Type the IP address of the starting point for such profile.
End IP Address	Type the IP address of the ending point for such profile if you choose Range as Address Type .
Subnet Mask	Use the drop down list to choose the subnet mask for such profile if you choose Subnet as Address Type .
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

- 4. Enter all the settings and click **Apply**.
- 5. A new IP object profile has been created.

4.6.2 IP Group

To manage conveniently, several IP object profiles can be grouped under a group. Different IP group can contain different IP object profiles.

ito Logout : Off 🛛 💌	IP Group			
Firewall 🧧	🚯 Add 🔀 Edit 🝈 Delete	e 🐼 Refresh	Pro	file Number Limit : 32
Objects Setting	Group Name	Description	Objects	
IP Object	or oup mane	Description	00,000	
IP Group		No items to sh	0W.	
IPv6 Object				
MAC / Vendor Object				
Country Object				
Service Type Object				
Service Type Group				
Keyword / DNS Object				
File Extension Object				
APP Object				
Web Category Object				
QQ Object				
QQ Group				
Time Object				
Time Group				
SMS Service Object				
Mail Service Object				
Notification Object				

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (32) of the object profiles to be created.
Group Name	Display the name of the object group.
Description	Display the description for such profile.
Objects	Display the object profiles grouped under such group.

How to create a new IP group profile

- 1. Open **Objects Setting>>IP Group.**
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Group Name :	IP_Group_1			
Description :	Group for sales		(Optional)	
Objects :	IP_object_1	× ×		

Item	Description
Group Name	Type the name of the object group. The number of the characters allowed to be typed here is 10.
Description	Make a brief explanation for such profile if the group name is set not clearly.
Objects	Use the drop down list to check the IP object profiles under such group. All the available IP objects that you have added on Objects Setting>>IP Object will be seen here. To clear the selected one, click to remove current object selections.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving anything.

- 4. Enter all the settings and click **Apply**.
- 5. A new IP Group profile has been created.

4.6.3 IPv6 Object

You can set up to 200 sets of IPv6 Objects with different conditions.

ito Logout : Off	IPv6 Object			
Firewall 🖻	🕼 Add 🔀 Edit 🏢 Delete	🗢 Refresh	Profile Numb	er Limit : 200
Objects Setting IP Object	Profile	Address Type	Address Pool	
IP Group		No items to show.		
IPv6 Object				
MAC / Vendor Object				
Country Object				
Service Type Object				
Service Type Group				
Keyword / DNS Object				
File Extension Object				
APP Object				
Web Category Object				
QQ Object				
QQ Group				
Time Object				
Time Group				
SMS Service Object				
Mail Service Object				
Notification Object				

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (200) of the object profiles to be created.
Profile	Display the name of the object.
Address Type	Display the address type of the object.
Address Pool	Display the IP address/ IP range /subnet of the object.

How to create a new IPv6 Object profile

- 1. Open **Objects Setting>>IPv6 Object.**
- 2. Simply click the **Add** button.

3. The following dialog will appear.

*		
d 🛗 Save		Profile Number Limit : 32
•	IP	
	No items to show.	
		🗎 Apply 🔇 Cance
l.d	dd 💾 Save	dd 🖬 Save • IP

Available parameters are listed as follows:

Item	Description
Profile	Type the name of the object.
Address Type	 There are three types: List – Allow to specify IP address. Range – Allow to specify a range of IP addresses. Subnet – Allow to specify subnet mask.
Address Pool	This field allows you to type IP address, specify Tag number and type subnet mask based on IPv6 protocol. Tag is an optional field only used for user to distinguish the name/usage of the defined address.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving anything.

4. Enter all of the settings and click **Apply**.

A new IPv6 Object profile has been created.

4.6.4 MAC/Vendor Object

MAC/Vendor object profile can determine which MAC address of vendor shall be blocked by the Vigor router's Firewall.

Firewall	🕼 Add 🔀 Edit 🏢 Delete	🔹 Refresh	Pi	rofile Number Limit : 32
Objects Setting	Profile	MAC Address	Vendor	
IP Object IP Group		No items to show		
IPv6 Object		NO REMS TO SHOW		
MAC / Vendor Object				
Country Object				
Service Type Object				
Service Type Group				
Keyword / DNS Object				
File Extension Object				
APP Object				
Web Category Object				
QQ Object				
QQ Group				
Time Object				
Time Group				
SMS Service Object				
Mail Service Object				
Notification Object				

Each item will be explained as follows:

Item	Description	
Add	Add a new profile.	
Edit	Modify the selected profile.	
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.	
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.	
Refresh	Renew current web page.	

How to create a new MAC / Vendor profile

- 1. Open Objects Setting>> MAC / Vendor Object.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

.C / Vendor Obje	ect	NO ILEMS LO	
Profile :	test111		
	🕼 Add 🗎 Save		Profile Number Limit : 1
	Mac Address	Mask	
MAC Address :	aa:bb:cc:dd:e0:99	FF:FF:FF:FF:FF/48	× 🛍
Vendor :			🔀 Edit
			🔚 Apply 🔞 Can

Item	Description
Profile	Type a name for such profile.
MAC Address	Click Add to have the fields of MAC Address and Mask. Type the address with the correct format (will be shown automatically when the mouse cursor is on it). Choose a suitable mask selection.
Apply	Click it to save the configuration.
Vendor	Edit – Click it to open a table of vendor list. Check the one(s) you want. The names for selected vendors will be shown later.
Cancel	Click it to exit the dialog without saving anything.

- 4. Enter all of the settings and click **Apply**.
- 5. A new MAC/Vendor Object profile has been created.

4.6.5 Country Object

To country object profile can determine which country/countries shall be blocked by the Vigor router's Firewall.

rto Logout : Off	Country Object		
Firewall 🔤	🕼 Add 🔀 Edit 🛅 Delete 🌒 Hel;	p 🔹 Refresh	Profile Number Limit : 32
Objects Setting	Profile	Countries	
IP Object			
IP Group		No items to show.	
IPv6 Object			
MAC / Vendor Object			
Country Object			
Service Type Object			
Service Type Group			
Keyword / DNS Object			
File Extension Object 🗧			
APP Object			
Web Category Object			
QQ Object			
QQ Group			
Time Object			
Time Group			
SMS Service Object			
Mail Service Object			
Notification Object			

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.

How to create a new Country Object profile

- 6. Open **Objects Setting>>Country Object.**
- 7. Simply click the **Add** button.
- 8. The following dialog will appear.

		Code	Country	Continent	▲ A
	-				
		A1	Anonymous Proxy	N/A	-
		A2	Satellite Provider	N/A	Ξ
		AP	Asia/Pacific Region	Asia	
ntries :		AF	Afghanistan	Asia	
		AM	Armenia	Asia	
		AZ	Azerbaijan	Asia	
		BН	Bahrain	Asia	
		BD	Bangladesh	Asia	
		ВT	Bhutan	Asia	*
	ntries :	ntries :	ntries : AP	ntries : AP Asia/Pacific Region AF Afghanistan AM Armenia AZ Azerbaijan BH Bahrain BD Bangladesh	Intries AP Asia/Pacific Region Asia AF Afghanistan Asia AM Armenia Asia AZ Azerbaijan Asia BH Bahrain Asia BD Bangladesh Asia

Item	Description
Profile	Type a name for such profile.
Countries	Check the box(es) for the country/countries to be blocked by Firewall.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving anything.

- 9. Enter all of the settings and click **Apply**.
- 10. A new Country Object profile has been created.

4.6.6 Service Type Object

TCP and UDP service with specified port range can be saved with different service type object profiles. Later, it can be applied to Firewall as a filter rule.

In default, common used service type object profiles have been created in this page.

Firewall 🧉	G	Add 🔀 Edit 前	Delete 🔇 Refre	esh		F	Profile Number Limit	: 96
Objects Setting		Profile	Protocol	Source Port Start	Source Port End	Destination Port	Destination Port	
IP Object	1	AUTH	TCP	1	65535	113	113	
IP Group	2	BGP	TCP	1	65535	179	179	
IPv6 Object	3	BOOTPCLIENT	UDP	1	65535	68	68	=
MAC / Vendor Object	4	BOOTPSERVER	UDP	1	65535	67	67	
Country Object	5	CU_SEEME_HI	TCP/UDP	1	65535	24032	24032	-
Service Type Object	6	CU_SEEME_LO	TCP/UDP	1	65535	7648	7648	
Service Type Group	7	DNS	TCP/UDP	1	65535	53	53	
Keyword / DNS Object		FINGER	TCP	1	65535	79	79	
File Extension Object	9	FTP	TCP	1	65535	20	21	
APP Object	10	H_323	TCP	1	65535	1720	1720	
Web Category Object	11	H_323	TCP	1	65535	80	80	
QQ Object				1				
QQ Group	12	HTTPS	TCP	1	65535	443	443	
Time Object	13	IKE	UDP	1	65535	500	500	
Time Group	14	IRC	TCP/UDP	1	65535	6667	6667	
SMS Service Object	15	L2TP	UDP	1	65535	1701	1701	
Mail Service Object	16	NEWS	TCP	1	65535	144	144	
Notification Object	17	NFS	UDP	1	65535	2049	2049	
· · · · · · · · · · · · · · · · · · ·	18	NNTP	TCP	1	65535	119	119	
User Management	19	PING	ICMP	1	65535	1	65535	+

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (96) of the object profiles to be created.
Profile	Display the name of the service type object profile.
Protocol	Display the protocol selected for such profile.
Source Port Start	Display the starting source port for such profile.
Source Port End	Display the ending source port for such profile.
Destination Port Start	Display the starting destination port for such profile.
Destination Port End	Display the ending destination port for such profile.

How to create a new service type object profile

- 1. Open Objects Setting>> Service Type Object.
- 2. Simply click the **Add** button.



3. The following dialog will appear.

Profile :	Others	
Protocol :	TCP v	
Source Port Start :	1	
Source Port End :	65535	
Destination Port Start	1	
Destination Port End:	65535	

Available parameters are listed as follows:

Item	Description
Profile	Type a name for such profile. The number of the characters allowed to be typed here is 10.
Protocol	Specify one of the protocols for such profile.
Source Port Start	It is available for TCP/UDP protocol. It can be ignored for ICMP.
	Type a port number $(0 - 65535)$ as the starting source port.
Source Port End	It is available for TCP/UDP protocol. It can be ignored for ICMP. Type a port number $(0 - 65535)$ as the ending source port.
Destination Port Start	It is available for TCP/UDP protocol. It can be ignored for ICMP.
	Type a port number $(0 - 65535)$ as the starting destination port.
Destination Port End	It is available for TCP/UDP protocol. It can be ignored for ICMP. Type a port number $(0 - 65535)$ as the ending destination port.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving anything.

4. Enter all the settings and click **Apply**.

5. A new Service Type Object profile has been created.

4.6.7 Service Type Group

This page allows you to bind several service types into one group.

To manage conveniently, several service type profiles can be grouped under a service type group. Different service type group can contain different service type profiles.

Firewall	🚯 Add 🔀 Edit 🛅 Delete	🗴 🐼 Refresh		Profile Number Limit : 32
Objects Setting	Group Name	Description	Objects	
IP Object IP Group		No items to st	bou	
IPv6 Object		NO REHIS LO SI	10.00.	
· · · · · · · · · · · · · · · · · · ·				
MAC / Vendor Object				
Country Object				
Service Type Object				
Service Type Group				
Keyword / DNS Object				
File Extension Object				
APP Object				
Web Category Object				
QQ Object				
QQ Group				
Time Object				
Time Group				
SMS Service Object				
Mail Service Object				
Notification Object				

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (32) of the object profiles to be created.
Group Name	Display the name of the service type group.
Description	Display the description for such profile.
Objects	Display the service type object profiles grouped under such group.

How to create a new service type group profile

- 1. Open **Objects Setting>> Service Type Group.**
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Group Name :	Cross_Dept		
Description :	Used for departments	Optional	
Objects :	AUTH	~	

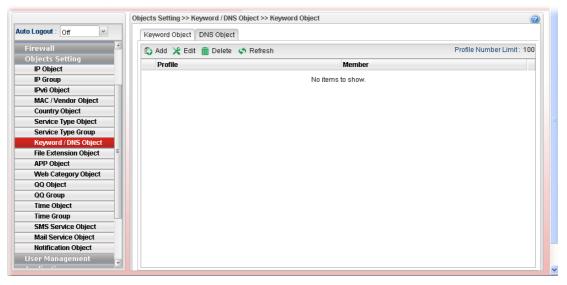
Item	Description
Group Name	Type the name of the service type object group. The number of the characters allowed to be typed here is 10.
Description	Type some words to describe such group.
Objects	Use the drop down list to check the service type object profiles under such group. All the available service type objects that you have added on
	Objects Setting>>Service Type Object will be seen here.To clear the selected one, click is to remove current object selections.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving the configuration.

- 4. Enter all the settings and click **Apply**.
- 5. A new Service Type Group profile has been created.

4.6.8 Keyword /DNS Object

4.6.8.1 Keyword Object

Keyword can be set as a filter rule to be applied in Firewall. Vigor300B allows users to set keyword profile with several keywords. Even, it allows users to group several keyword profiles within a keyword group.



Each item will be explained as follows:

Item	Description	
Add	Add a new profile.	
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.	
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.	
Refresh	Renew current web page.	
Profile Number Limit	Display the total number (100) of the object profiles to be created.	
Profile	Display the name of the keyword object profile.	
Member	Display the words specified in such profile.	

How to create a new keyword object profile

- 1. Open Objects Setting>> Keyword /DNS Object.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile :	K0_1	
	🕼 Add Save	Profile Number Limit :
	Member Table	
Member Table :	No) items to show.
te :		
The maximum ler	igth allowed in a keyword member is 60. ik' character to separate each keyword in a	

Item	Description	
Profile	Type the name of the Keyword Object.	
Member	 Type the content for such profile. For example, type <i>gambling</i> as Contents. When you browse the webpage, the page with gambling information will be watched out and be passed/blocked based on the configuration on Firewall settings. Add – Type the word in the box of Member and click this button to add the new word as keyword object. Save – Click it to save the setting. 	
	\mathbf{I} – click the icon to remove the selected entry.	
Apply	Click it to save the configuration.	
Cancel	Click it to exit the dialog without saving the configuration.	

- 4. Enter all the settings and click **Apply**.
- 5. A new **Keyword Object** profile has been created.

4.6.8.2 DNS Object

DNS can be set as a filter rule to be applied in Firewall.

rto Logout : Off 🛛 👻	Keyword Object DNS Object		
Firewall 🏼	🕼 Add 🔀 Edit 📺 Delete 🛭 🔊 Refres	sh	Profile Number Limit: 100
Objects Setting	Profile	Member Table	
IP Object			
IP Group		No items to show.	
IPv6 Object			
MAC / Vendor Object			
Country Object			
Service Type Object			
Service Type Group			
Keyword / DNS Object			
File Extension Object			
APP Object			
Web Category Object			
QQ Object			
QQ Group			
Time Object			
Time Group			
SMS Service Object			
Mail Service Object			
Notification Object			

Each item will be explained as follows:

Item	Description	
Add	Add a new profile.	
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.	
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.	
Refresh	Renew current web page.	
Profile Number Limit	Display the total number (100) of the object profiles to be created.	
Profile	Display the name of the DNS object profile.	
Member Table	Display the words specified in such profile.	

How to create a new DNS Object profile

- 1. Open **Objects Setting>> DNS Object.**
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile :	DNS_Obj	
	🗘 Add 🔚 Save	Profile Number Limit: 10
	Member Table	
Member Tab	le : www.google.com	m
		🗎 Apply 🔕 Can

Item	Description	
Profile	Type the name of the DNS object profile.	
Member Table	Type the domain name of the DNS that you want to filter. Add – Type the word in the box of Member and click this button to add the new word as DNS object.	
	 Save – Click it to save the setting. — click the icon to remove the selected entry. 	
Apply	Click it to save the configuration.	
Cancel	Click it to exit the dialog without saving the configuration.	

- 4. Enter all of the settings and click **Apply**.
- 5. A new **DNS Object** profile has been created.

4.6.9 File Extension Object

This page allows you to set file extension profiles which will be applied in **Firewall**. All the files with the extension names specified in these profiles will be processed according to the chosen action.

	Objects Setting >	> File Extensio	n Object						G
Auto Logout : Off	File Extension	n Object							
Firewall 🏾	🕼 Add 🗶	Edit <u> î</u> Delete	e 🗳 Refresi	ı			Profi	le Number Limit	t: 8
Objects Setting IP Object	Profile	Image	Video	Audio	Java	ActiveX	Compression	Execution	П
IP Group				No	items to show.				
IPv6 Object									
MAC / Vendor Object									
Country Object									
Service Type Object									
Service Type Group									
Keyword / DNS Object									
File Extension Object 🗧									
APP Object									
Web Category Object									
QQ Object									
QQ Group									
Time Object									
Time Group									
SMS Service Object									
Mail Service Object									
Notification Object									
User Management 🛒									

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (8) of the object profiles to be created.
Profile	Display the name of the profile.
Image	Display the selected file extension of image.
Video	Display the selected file extension of video.
Audio	Display the selected file extension of audio.
Java	Display the selected file extension of java.
ActiveX	Display the selected file extension of activeX.
Compression	Display the selected file extension of compression.
Execution	Display the selected file extension of execution.



How to create a new file extension object profile

- 1. Open **Objects Setting>>File Extension Object.**
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile :	File_Ext_1	
Image :	.bmp, .dib 💌	
Video :	.mov, .mpe, .mpeg, .mp 🗸	
Audio :	.au, .mp3, .m4a 🛛 👻	
Java :	.class, .jad 👻	
ActiveX :	.alx, .apb, .axs 👻	
Compression :	.ace 💌	
Execution :	.exe, .inf, .pif 🔹 🗸	

Item	Description
Profile	Type the name of the File Extension Object group
Image	Several file extensions for Image offered for you to choose. Use the drop down list to check the box (es) to select the file extension you need.
Video	Several file extensions for Video offered for you to choose. Use the drop down list to check the box (es) to select the file extension you need.
Audio	Several file extensions for Audio offered for you to choose. Use the drop down list to check the box (es) to select the file extension you need.
Java	Several file extensions for Java offered for you to choose. Use the drop down list to check the box (es) to select the file extension you need.
ActiveX	Several file extensions for ActiveX offered for you to choose. Use the drop down list to check the box (es) to select the file extension you need.
Compression	Several file extensions for compression offered for you to choose. Use the drop down list to check the box (es) to select the file extension you need.
Execution	Several file extensions for execution offered for you to choose. Use the drop down list to check the box (es) to select



	the file extension you need.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving the configuration.

- 4. Enter all the settings and click **Apply**.
- 5. A new File Extension Object profile has been created.

4.6.10 APP Object

The IM, P2P, Protocol and Others types can be integrated as an APP object which can be used in Firewall to block certain applications.

	Objects Setting >>	APP Object			6
tuto Logout : Off	APP Object			APP Signature	Upgrade APP Support List
Firewall 🏼	🕼 Add 🔀 Eo	dit 📺 Delete 🛭 娕 Refr	esh		Profile Number Limit : 32
Objects Setting IP Object	Profile	IM	P2P	Protocol	Others
IP Group			No items to	show.	
IPv6 Object					
MAC / Vendor Object					
Country Object					
Service Type Object					
Service Type Group					
Keyword / DNS Object					
File Extension Object					
APP Object					
Web Category Object					
QQ Object					
QQ Group					
Time Object					
Time Group					
SMS Service Object					
Mail Service Object					
Notification Object					
User Management 📄					

Each item will be explained as follows:

Item	Description
APP Signature Upgrade	Click it to open System Maintenance>>APP Signature Upgrade configuration page.
APP Support List	APP Support List will display all of the applications with versions supported by Vigor router. They are separated with types of IM, P2P, Protocol and Others. Each tab will bring out different items with supported versions.
	Below shows the items with versions which are categorized under IM .
Add	Add a new profile.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.



Profile Number Limit	Display the total number (32) of the object profiles to be created.
Profile	Display the name of the IM object profile.
IM	Display the IM application specified in such profile.
P2P	Display the P2P specified in such profile.
Protocol	Display the protocol specified in such profile.
Others	Display other types specified in such profile.

How to create a new APP Object Profile

- 1. Open **Objects Setting>>APP Object.**
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Click **IM** to get the following page. People like to use Instant Message to communication with friends on line just for fun or just because it is easy and convenient. However, it might reduce the productivity of employees to a company. Therefore, a tool to block or limit the usage of IM application is important to a company. IM object setting lists all of the popular instant message application for you to choose to block. Choose the one(s) you want to block and save as an IM Object profile. Later, it can be applied to Firewall as a filter rule and reach the purpose of block.

IM P2F	P Protocol	Others			none	-
 IM Application 					none	~
MSN .	🗖 MobileMSN	🗖 YahoolM	🗖 AIM	🗖 AIM6/7	🗏 QQ/ТМ	
🔲 iMessage	🔲 Jabber/GoogleT	alk 🔲 GoogleChat	🗖 XFire	🗏 GaduGadu	🔲 Paltalk	
🔲 Qnext	POCO/PP365	🗖 AresChat	🔲 Alivwv	🔲 Lava-Lava	🔲 ICU2	
🔲 iSpQ	UC	ICQ .	🔲 BaiduHi	Fetion	🔲 LINE	
✓ VoIP					none	~
🔲 Skype 🔲 RaidCall	🗖 Kubao	🔲 Gizmo 📃 SIF	P/RTP	TelTel 🗖 Team	Speak	
∨ Web IM (*= m	ore than one addre	ss)			🗌 WebIM UR	Ls
<u>eMessenger</u> ICQ Flash* mabber*	<u>qoowy*</u>		ssenger IMU	<u>elM* ICQJa</u> <u>nitive* Wable</u> sengerAdictø%sebY	et*	
	<u></u>		<u></u>			

Item	Description
Profile	Type the name of the IM object group. The number of the characters allowed to be typed here is 10.

IM Application	Several IM applications offered for you to choose. Check the one(s) you want to add for such profile.
WebIM	It lists a package of IM application based on web page. You may check the box to include all of them.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving the configuration.

Click **P2P** to get the following page. Vigor300B can block P2P application for users, especially for the ones who always upload or download improper files to Internet.

P2P object setting lists all of the point to point application for you to choose to block. Choose the one(s) you want to block and save as a P2P Object profile. Later, it can be applied to Firewall as a filter rule and reach the purpose of block.

IM	P2P Pt	otocol Others				none	~
✓ Other P2F	Applications						
SoulSe BitTorn		ei 📃 Vagaa	OpenFT	Gnutella	OpenNa		

Description
Several P2P applications offered for you to choose. Check the one(s) you want to add for such profile.

Click **Protocol** to get the following page. Network services, e.g., DNS, FTP, HTTP, POP3, for LAN users can be blocked by Vigor300B. Common services will be listed in this function and can be selected to be blocked by the router.

Profile :						Signature Date : 20 Version : 3.	
IM	1 P2P	Protoco	l Others			none	~
∨ F	Protocol	E CTD					
	DNS	E FTP	SMTP	IMAP SNMP	IRC SSH	SSL/TLS	
	TELNET	MSSQL	MySQL	🔲 Oracle	PostgreSQL	🔲 Sybase	
	DB2	🔲 Informix	POP3 STARTTLS	SMTP STARTTLS	IMAP STARTTLS		

Item	Description
Protocol	Several protocols offered for you to choose. Check the one (s) you want to add for such profile.



Click **Others** to get the following page.

IM P2F	Protocol	Others			n	ione
✓ Tunneling					non	ne 👻
🔲 Socks4/5	🔲 PGPNet	🗏 HTTP Proxy	🗖 Tor	VNN 📃	🔲 SoftEthe	er
🔲 MS TEREDO	🔲 Wujie/UltraSurf	🔲 Hamachi	🗏 HTTP Tunne	I 🔲 Ping Tun	inel 🔲 ThinVPN	4
🔲 RealTunnel	🔲 DynaPass	🗏 UltraVPN	🗖 FreeU	🔲 Skyfire	🔲 Hotspot	Shield
✓ Streaming					non	ie 👻
MMS	RTSP	TVAnts	PPStream 🔲	PPTV	🗖 FeiDian	
🔲 UUSee	🔲 NSPlayer	PCAST	TVKoo 📃	SopCast	🔲 UDLiveX	
🔲 TVUPlayer	🗖 MySee	🗖 Joost 🛛 🗖	FlashVideo 📃	SilverLight	🔲 Slingbox	
🔲 QVOD						
✓ Remote Contri	ol				non	ie 👻
VNC VNC	🔲 Radmin	🗖 Sp	yAnywhere 🔲 Si	howMyPC	🔲 LogMein	🔲 TeamVie
🔲 Gogrok	🔲 RemoteC	ontrolPro 🔲 Cr	ossLoop 🛛 🗖 W	indowsRDP	🔲 pcAnywhere	🔲 Timbuktu
🔲 WindowsLive	Sync 🔲 SharedVie	9W				
✓ Web HD					non	ie 💌
🔲 HTTP Upload	🔲 HiNet SafeBox	MS SkyDriv	e 🔲 GDoc Uploa	ader 🔲 ADrive	e 📃 M'	yOtherDrive
Mozy	BoxNet	Contraction Office Live	DropBox	Goog 🔲	le Service 🛛 iC	loud

Item	Description
Tunneling/	Several protocols offered for you to choose. Check the one
Streaming/Remote Control/Web HD	(s) you want to add for such profile.

- 4. Enter all of the settings and click **Apply**.
- 5. A new APP Object profile has been created.

4.6.11 Web Category Object

We all know that the content on the Internet just like other types of media may be inappropriate sometimes. As a responsible parent or employer, you should protect those in your trust against the hazards. With web category filtering service of the Vigor router, you can protect your business from common primary threats, such as productivity, legal liability, network and security threats. For parents, you can protect your children from viewing adult websites or chat rooms.

WCF adopts the mechanism developed and offered by certain service provider. No matter activating WCF feature or getting a new license for web content filter, you have to click **Activate URL** to satisfy your request. Note that service provider matching with Vigor router currently offers a period of time for trial version for users to experiment. If you want to purchase a formal edition, simply contact with your DrayTek dealer.

Note 1: Web Content Filter (WCF) is not a built-in service of Vigor router but a service powered by **Commtouch**. If you want to use such service (trial or formal edition), you have to perform the procedure of activation first. For the service of formal edition, please contact with your dealer/distributor for detailed information.

Note 2: Commtouch is merged by Cyren and GlobalView services will be continued to deliver powerful cloud-based information security solutions! Refer to: http://www.prnewswire.com/news-releases/commtouch-is-now-cyren-239025151.html

Note 3: fragFINN service will be terminated from 2015.

4.6.11.1 Web Category Object

to Logout : Off 🛛 👻	Web Categor	/ Object Content Filt	er License					
Firewall 🎽	🚯 Add 🔀	Edit <u> m</u> Delete 🦛	Refresh			F	Profile Number Lim	it: 16
Objects Setting IP Object	Profile	Child Protection	Leisure	Business	Chatting	Computer	Other	
IP Group	DrayTek_WCF					Social Networ	k	
IPv6 Object								
MAC / Vendor Object								
Country Object								
Service Type Object								
Service Type Group								
Keyword / DNS Object								
File Extension Object 🗧								
APP Object								
Web Category Object								
QQ Object								
QQ Group								
Time Object								
Time Group								
SMS Service Object								
Mail Service Object								
Notification Object								

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (16) of the object profiles to be created.
Profile	Display the name of the object profile.
Child Protection	Display the items under certain category that you choose to block for protecting the children.
Leisure	Display the items under certain category that you choose to block.
Business	Display the items under certain category that you choose to block.
Chatting	Display the items under certain category that you choose to block.
Computer	Display the items under certain category that you choose to block.
Other	Display the items under certain category that you choose to



Item	Description
	block.

How to create a new web category object profile

- 1. Open **Objects Setting>> Web Category Object** and click the **Web Category Object** tab.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

rofile : WCO_1 Test a	site to verify whether it is ca
Category	none
✓ Child Protection	none 👻
Alcohol And Tobacco	Hate And Intolerance
Illegal Drug Nudity Pornography And Sexually explicit	Violence
Weapons School Cheating Sex Education	Tasteless
✓ Leisure	none 💌
Entertainment Games Sports Travel Leisure Ar	nd Recreation
✓ Business	none 👻
Business Job Search Web Based Email Chatting Chat Instant Messaging	none 💌
✓ Computer	none 💌
Anonymizers Forums And Newsgroups Computers And	Technology Down si

Available parameters are listed as follows:

Item	Description		
Profile	Type the name of the web category object profile. The number of the characters allowed to be typed here is 10.		
Child Protection	The web pages which are not suitable for children will be classified into different categories. Simply check the one(s) that you don't want the children to visit. Child Protection : Alcohol-And-Tobacco, (> Leisure : Image: Children will be children to visit. Business : Image: Children will be children to visit. Child Protection : Alcohol-And-Tobacco, (> Image: Image: Children will be children to visit. Image: Children will be children to visit. Image: Image: Image: Children to visit. Image: Children to visit. Image: Ima		
Leisure	Simply check the one(s) that you don't want the user to visit.		
Business	Simply check the one(s) that you don't want the user to visit.		

Chatting	Simply check the one(s) that you don't want the user to use for gossip with remote people.
Computer	Simply check the one(s) that you don't want the user to visit.
Other	Simply check the one(s) that you don't want the user to visit.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving the configuration.

- 4. Enter all the settings and click **Apply**.
- 5. A new Web Category Object profile has been created.

4.6.11.2 Content Filter License

Move your mouse to the link of **Activate URL** and click it. The system will guide you to access into MyVigor website.

Auto Logout : Off 🛛 🗸		
NAT Firewall Objects Setting IP Object IP object Service Type Object Service Type Group Keyword Object File Extension Object IM Object P2P Object Protocol Object QQ Object QQ Group Time Object Time Group SMS Service Object Mail Service Object Notification Object	Web Category Object Content Filter License License : Activate URL Enable : diseable Info : Start Date : Start Date : Expire Date :	
User Management 🕞	💾 Apply 😵 Ca	ncel

After finishing the activation for the trial version of WCF, remember to purchase "Silver Card" for WCF service from your DrayTek dealer or distributor.

4.6.12 QQ Object

Note: This page is designed for Chinese IM "Tencent QQ" users (especially for China) only. For people who do not use QQ, skip this section.

uto Logout : Off 🛛 👻		QQ Object		
Firewall		🕼 Add 💥 Edit 前 Deleti	e 🔹 Refresh	Profile Number Limit: 100
Objects Setting		Profile	id	Description
IP Object		1 all	all	Description
IP Group		i all	all	
IPv6 Object				
MAC / Vendor Object				
Country Object				
Service Type Object				
Service Type Group				
Keyword / DNS Object				
File Extension Object	E			
APP Object				
Web Category Object				
QQ Object				
QQ Group				
Time Object				
Time Group				
SMS Service Object				
Mail Service Object				
Notification Object				

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (16) of the object profiles to be created.
Profile	Display the name of the QQ object profile.
id	Display the account name of the QQ object profile.
Description	Display a brief explanation of the QQ object profile.

How to create a new QQ object profile

- 1. Open Objects Setting>> QQ Object.
- 2. Simply click the **Add** button.

3. The following dialog will appear.

Profile :	Shan_T		
	🕼 Add 🛗 Save		Profile Number Limit: 64
	id		
id :	12345678		â
Description :	Office	(Optional)	
beautipation.	01100	(optional)	

Description Item Profile Type the name of the QQ object profile. The number of the characters allowed to be typed here is 10. id Create the account name for such QQ object profile. Add – Click this button to add a new account. Save – Click this button o save the new account. - Click this button to remove the selected account. Description Type a brief explanation for the QQ object profile. Click it to save the configuration. Apply Cancel Click it to exit the dialog without saving the configuration.

- 4. Enter all the settings and click **Apply**.
- 5. A new QQ Object profile has been created.

4.6.13 QQ Group

This page allows you to group several QQ object profiles.

ito Logout : Off	QQ Group			
Firewall 🔤	🕼 Add 🔀 Edit 🛅 Delete	e 🗳 Refresh		Profile Number Limit : 16
Objects Setting	Group Name	Description	Objects	
IP Object				
IP Group		No items to sho	DW.	
IPv6 Object				
MAC / Vendor Object				
Country Object				
Service Type Object				
Service Type Group				
Keyword / DNS Object				
File Extension Object				
APP Object				
Web Category Object				
QQ Object				
QQ Group				
Time Object				
Time Group				
SMS Service Object				
Mail Service Object				
Notification Object				

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (16) of the object profiles to be created.
Group Name	Display the name of the group.
Description	Display the brief explanation for such group.
Objects	Display the objects selected by such group.

How to create a new QQ group profile

- 1. Open **Objects Setting>> QQ Group.**
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.



QQ Group				-
Group Name :	QQaccount_grp_1			
Description :	For Marketing Only	(Optional)		
Objects :	Shan_T 🗸 🗙			
			Apply	🚫 Cancel
				Cancel

Available parameters are listed as follows:

Item	Description
Profile	Type the name of the time group. The number of the characters allowed to be typed here is 10.
Description	Make a brief explanation for such profile if the group name is set not clearly.
Objects	Use the drop down list to select the object profiles under such group. All the available objects that you have added on Objects Setting>>QQ Object will be seen here. To clear the selected one, click to remove current object selections.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving the configuration.

4. Enter all the settings and click **Apply**.

5. A new QQ group profile has been created.

4.6.14 Time Object

You restrict Internet access to certain hours so that users can connect to the Internet only during certain hours, say, business hours. The schedule is also applicable to other functions, e.g., Firewall.

to Logout : Off 🛛 👻	Time Object							
Firewall 🔤	🚯 Add 💥 Ed	lit 📺 Delete 🛭 🐝 Refres	h				Profile Number Lim	it: 16
Objects Setting	Profile	Frequency	Start Date	Start Time	End Date	End Time	Weekdays	
IP Object	FIONE	riequency	Start Date	Start Time	Lifu Date		weekudys	
IP Group			No ite	ms to show.				
IPv6 Object								
MAC / Vendor Object								
Country Object								
Service Type Object								
Service Type Group								
Keyword / DNS Object								
File Extension Object 🗧								
APP Object								
Web Category Object								
QQ Object								
QQ Group								
Time Object								
Time Group								
SMS Service Object								
Mail Service Object								
Notification Object								

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (16) of the object profiles to be created.
Profile	Display the name of the time object profile.
Frequency	Display the duration (or period) of the time object profile.
Start Date	Display the starting date of the time object profile.
Start Time	Display the starting time of the time object profile.
End Date	Display the ending date of the time object profile.
End Time	Display the ending time of the time object profile.
Weekdays	Display the frequency of such time object profile.

How to create a new time object profile

- 1. Open **Objects Setting>> Time Object.**
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile :	TimeO_1
Frequency	Weekdays 💌
Start Date :	2014-08-22
Start Time	Hour Min Sec 08 v 03 v v
End Date :	2014-08-22
End Time :	Hour Min Sec
Weekdays	: Mon, Tue, Wed 🛛 👻

Item	Description					
Profile	Type the name of the time object profile. The number of the characters allowed to be typed here is 10.					
Frequency	Specify how often (Weekdays or Once) the schedule will be applied.					
Start Date	Specify the starting date of the time object profile.					
Start Time	Specify the starting time of the time object profile.					
End Date	Specify the ending date of the time object profile.					
End Time	Specify the ending time of the time object profile.					
Weekdays	Specify which days in one week should perform the schedule. End Time: 00:00:00 Weekdays: Tue, Wed Mon V Tue V Wed Thu Fri Sat Sun					

Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving the configuration.

- 4. Enter all the settings and click **Apply**.
- 5. A new Time Object profile has been created.

4.6.15 Time Group

This page allows you to group several time object profiles.

	Objects Setting >> Time (Group		(
Auto Logout : Off	Time Group			
NAT 💽	🕼 Add 🛛 🗶 Edit	🔟 Delete 🛛 < Refresh	Pro	ofile Number Limit : 8
Objects Setting	Group Name	Description	Objects	
IP Object		No items to	show.	
IP Group				
IPv6 Object				
Country Object				
Service Type Object				
Service Type Group				
Keyword / DNS Object 🗧				
File Extension Object				
APP Object				
Web Category Object				
QQ Object				
QQ Group				
Time Object				
Time Group				
SMS Service Object				
Mail Service Object				
Notification Object				
User Management				
Applications 📃				

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (8) of the object profiles to be created.
Group Name	Display the name of the group.
Description	Display the brief explanation for such group.
Objects	Display the time objects selected by such group.

How to create a new time group profile

- 1. Open **Objects Setting>> Time Group.**
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Group Name Description : Objects :		al)
--	--	-----

Item	Description
Profile	Type the name of the time group. The number of the characters allowed to be typed here is 10.
Description	Make a brief explanation for such profile if the group name is set not clearly.
Objects	Use the drop down list to check the time object profiles under such group. All the available time objects that you have added on Objects Setting>>Time Object will be seen here.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving the configuration.

- 4. Enter all the settings and click **Apply**.
- 5. A new time group profile has been created.

4.6.16 SMS Service Object

This page allows you to set ten profiles which will be applied in **Application>>SMS/Mail Alert Service**.

Firewall	SMS Service O	: dit <u>m</u> Delete 🔇	Pofrach			Profile Number Limit : 10
Objects Setting						
IP Object	Profile	Enable	SMS Service Pro	Username	Quota	Interval(s)
IP Group			No iter	ms to show.		
IPv6 Object						
MAC / Vendor Object						
Country Object						
Service Type Object						
Service Type Group						
Keyword / DNS Object						
File Extension Object						
APP Object						
Web Category Object						
QQ Object						
QQ Group						
Time Object						
Time Group						
SMS Service Object						
Mail Service Object						
Notification Object						

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (8) of the object profiles to be created.
Profile	Display the name of the profile.
Enable	Display the status of the profile. False means disabled; True means enabled.
SMS Service Provider	Display the service provider which offers SMS service.
Username	Display the user name that the sender can use to register to selected SMS provider.
Quota	Display the number of the credit that you purchase from the service provider
Interval(s)	Display the time interval for sending the SMS.

How to create a new SMS service profile

- 1. Open **Objects Setting>> SMS Service Object.**
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Des file a	Line_down		
Profile :	Line_down		
Enable			
SMS Service Provider :	kotsms.com.tw	~	
Username :	line1		
Password :	•••••		
Quota :	10		
Interval(s):	3		

Item	Description
Profile	Type a name for such SMS profile. The maximum length of the name you can set is 20 characters.
Enable	Check this box to enable such profile.
SMS Service Provider	Use the drop down list to specify the service provider which offers SMS service.
Username	Type a user name that the sender can use to register to selected SMS provider.
	The maximum length of the name you can set is 31 characters.
Password	Type a password that the sender can use to register to selected SMS provider.
	The maximum length of the password you can set is 31 characters.
Quota	Type the number of the credit that you purchase from the service provider chosen above.
	Note that one credit equals to one SMS text message on the standard route.
Interval(s)	To avoid quota being exhausted soon, type time interval for sending the SMS.
Apply	Click it to save the configuration.



Cancel Click it to exit the dialog without saving the configuration	on.
---	-----

- 4. Enter all the settings and click **Apply**.
- 5. A new SMS object profile has been created.

4.6.17 Mail Service Object

This page allows you to set ten profiles which will be applied in **Application>>SMS/Mail Alert Service**.

ito Logout : Off	Mail Service (Object							
Firewall 🐣	🚯 Add 🄀	Edit 📺 Delete	< Refresh				Profil	e Number Limit :	10
Objects Setting	Profile	Enable	Mail From	SMTP Port	SMTP Server	2 11 122	Authenticati	Lleor Namo	
IP Object	FIONE	LIIGNIC	Wall I Tom	JWITEFUIL	JIVITE JEIVEI	331/113	Autienticat	User name	_
IP Group				No ite	ems to show.				
IPv6 Object									
MAC / Vendor Object									
Country Object									
Service Type Object									
Service Type Group									
Keyword / DNS Object									
File Extension Object 👘									
APP Object									
Web Category Object									
QQ Object									
QQ Group									
Time Object									
Time Group									
SMS Service Object									
Mail Service Object									
Notification Object									

Each item will be explained as follows:

Item	Description						
Add	Add a new profile.						
Edit	Modify the selected profile.						
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.						
Delete	Remove the selected profile.						
	To delete a rule, simply select the one you want to delete and click the Delete button.						
Refresh	Renew current web page.						
Profile Number Limit	Display the total number (8) of the object profiles to be created.						
Profile	Display the name of the profile.						
Enable	Display the status of the profile. False means disabled; True means enabled.						
Mail From	Display the mail address of the sender.						
SMTP Port	Display the port number used for the SMTP service.						
SMTP Server	Display the IP address of the SMTP Server						

Item	Description
SSL/TLS	Display the status of SSL/TLS service.
Authentication	Enable means such profile must be authenticated by the server. Disable means such profile will not be authenticated by the server.
User Name	Display the name used for authentication.

How to create a new mail service profile

- 1. Open **Objects Setting>> Mail Service Object.**
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile :	Mail_Notify
🗹 Enable	
Mail From :	carrie@draytek.com
SMTP Port :	25
SMTP Server :	192.168.1.98
SSL/TLS :	💿 Enable i 🔘 Disable
Authentication :	💿 Enable 🔵 Disable
User Name :	john
User Password	:

Item	Description
Profile	Type a name for such SMS profile. The maximum length of the name you can set is 20 characters.
Enable	Check this box to enable such profile.
Mail From	Type the e-mail address of the sender.
SMTP Port	Type the port number for SMTP server.
SMTP Server	Type the IP address of the mail server.
SSL/TLS	Click the Enable button to enable service.
Authentication	The mail server must be authenticated with the correct username and password to have the right of sending message out. Click the Enable button to enable the function.
	User Name – Type a name for authentication. The maximum length of the name you can set is 31 characters.



	User Password – Type a password for authentication. The maximum length of the password you can set is 31 characters.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving the configuration.

- 4. Enter all the settings and click **Apply**.
- 5. A new mail service object profile has been created.

4.6.18 Notification Object

This page allows you to set ten profiles which will be applied in **Application>>SMS/Mail Alert Service**.

4.6.18.1 Notification Object

	O	bjects Setti	ng >> Notificati	on Object >	> Notificatio	n Object					3
Auto Logout : Off		Notificatio	on Object Adva	anced Settin	g						
Firewall 🖉		🚯 Add	🔀 Edit 🏢 De	elete 🧔 R	efresh				Prof	le Number Li	mit : 10
Objects Setting		Profile	WAN Dis	MAN Do	Tompor	Pourtor P	CDITIleado	Memory TX I	Usage RX Usa	je Syslog	
IP Object		FIUNE	TTAILDIS	YYAR ING	remper			Memory TA	usage in usa	je sysiog	
IP Group						No iter	ms to show.				
IPv6 Object											
MAC / Vendor Object											
Country Object											
Service Type Object											
Service Type Group											
Keyword / DNS Object											
File Extension Object 🗧											
APP Object											
Web Category Object											
QQ Object											
QQ Group											
Time Object											
Time Group											
SMS Service Object											
Mail Service Object											
Notification Object											
User Management											
· ····											

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (8) of the object profiles to be created.
Profile	Display the name of the profile.
WAN Disconnection	Display if such function is enabled or disabled.

Item	Description
WAN Reconnection	Display if such function is enabled or disabled.
VPN Disconnection	Display if such function is enabled or disabled.
VPN Reconnection	Display if such function is enabled or disabled.
Temperature	Display if such function is enabled or disabled.
Router Reboot	Display if such function is enabled or disabled.
Syslog	Display if such function is enabled or disabled.

How to create a new notification profile

- 1. Open Objects Setting>> Mail Service Object.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

tification Object	_
Profile :	
WAN Disconnection :	🔘 Enable 💿 Disable
WAN Reconnection :	🔘 Enable 💿 Disable
Temperature :	🔵 Enable 💿 Disable
Router Reboot :	🔵 Enable 💿 Disable
CPU Usage :	🔵 Enable 💿 Disable
Memory Usage :	🔵 Enable 💿 Disable
TX Usage :	🔵 Enable 💿 Disable
RX Usage :	🔵 Enable 💿 Disable
Syslog :	🔵 Enable 💿 Disable

Item	Description
Profile	Type a name for such SMS profile. The maximum length of the name you can set is 20 characters.
	There are several situations to be monitored by such profile.
WAN Disconnection	Enable – When disconnection happened to WAN interface, the router system will send the alert message to the recipient.
WAN Reconnection	Enable - When reconnection happened to WAN interface, the router system will send the alert message to the recipient.
Temperature	Enable - When the temperature is out of range, the router system will send the alert message to the recipient.



Router Reboot	Enable - When the router reboots, the router system will send the alert message to the recipient.
CPU Usage	Enable – When the CPU usage reaches a certain value, the router system will send the alert message to the recipient.
Memory Usage	Enable – When the memory usage reaches a certain value, the router system will send the alert message to the recipient.
TX Usage/RX Usage	Enable – When TX/RX usage reaches a certain value, the router system will send the alert message to the recipient.
Syslog	Enable – Such notification will be recorded in Syslog.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving the configuration.

- 4. Enter all the settings and click **Apply**.
- 5. A new notification object profile has been created.

4.6.18.2 Advanced Setting

Such page is used to set the limit value for CPU, Memory, TX / RX. When CPU, Memory, TX / RX usage reaches the threshold, the router system will send the alert message to the recipient.

	Objects Setting >> Notification Obj	ect >> Advanced Settin	9	2
Auto Logout : Off	Notification Object Advanced	Setting		
LAN				
Routing	CPU Upper Limit :	90	%	
NAT	CPU Alert Time Interval :	1	Minutes	
Firewall	Memory Upper Limit :	90	%	
Objects Setting	Memory Alert Time Interval :	1	Minutes	
IP Object	Notification Interface :	× 🍃		
IP Group	TX Upper Limit :	100000	Kbps	
IPv6 Object	TX Alert Time Interval :	1	Minutes	
MAC / Vendor Object	RX Upper Limit :	100000	Kbps	
Country Object	RX Alert Time Interval :	1	Minutes	
Service Type Object				
Service Type Group				
Keyword / DNS Object				
File Extension Object				
APP Object				
Web Category Object				
QQ Object				
QQ Group				
Time Object				
Time Group				
SMS Service Object				
Mail Service Object				
Notification Object			🛅 Apply 🛛 Q	ncol
User Management 🛛 💽			🔲 Appiy 🛛 Ca	ncer

4.7 User Management

User Management can manage all the accounts (user profiles) to connect to Internet via different protocols.

Below shows the menu items for User Management:

User Management	
Web Portal	
User Profile	
User Group	
Guest Profile	
RADIUS	
LDAP / Active Directory	

4.7.1 Web Portal

Web Portal is a gateway which organizes the network access of LAN hosts. The identity of LAN host can be recognized by web portal mechanism and then be managed for functions like firewall or load balance.

This page can determine the general rule for the users controlled by User Management. The mode selected in this page will influence the contents of the filter rule(s) applied to every user.

4.7.1.1 Online User Status

The **Online User Status** is a monitoring tool which only works after you choose **HTTP** or **HTTPS** as the **Mode** setting on **General Setup** page of **User Management>>Web Portal**.

Refer to section 4.7.1.2 General Setup to get more detailed information of setting web portal.

	User Management >> V			_					
rto Logout : Off 🛛 👻	Online User Status	General Setup	Portal Page	Setup					
Quick Start Wizard	Auto Refresh : 1 Mi	nute 🔽 <table-cell-columns></table-cell-columns>	Refresh						
Online Status	Auto Nenesin.		Reiresti						
WAN	User Name	IP	Allow Time	Login Time	End Time	Rest Time	Auth Type	LDAP Group	Logout/Clear
LAN					No items to show	v.			
Routing									
NAT									
Firewall									
Objects Setting									
User Management									
Web Portal									
User Profile									
User Group									
Guest Profile									
RADIUS									
LDAP / Active Directory									
Applications									
Bandwidth Management									
USB Application									
System Maintenance									
Diagnostics									
External Devices									

Available parameters will be explained as follows:

Item	Description				
Refresh	Renew current web page.				
Auto Refresh	Specify the interval of refresh time to obtain the latest status. The information will update immediately when the Refresh button is clicked.				
User Name	Display the name information for the user who logs into the WUI of Vigor300B.				
IP	Display the IP address of the user who logs into the WUI of Vigor300B.				
Allow Time	Display the total network connection time allowed for the log-in user.				



Item	Description						
Login Time Display the starting time of the network connection.							
End Time Display the ending time of the network connection.							
Rest Time Display the rest time of the network connection.							
Auth TypeDisplay the authentication type (local, RADIUS, LDA Login Disable, Guest) used by such user.							
LDAP Group	Display the LDAP group used by such user.						
Logout/Clear	It is a button which is used to disconnect the connection manually.						

4.7.1.2 General Setup

This page configures the main settings of web portal function.

	User Management >> Web Portal >> General Setup	3	
Auto Logout : Off	Online User Status General Setup Portal Page Setup		
Quick Start Wizard		^	
Online Status			
WAN	Web Portal: OEnable ODisable		
LAN			
Routing	Login Mode : Non Auth		
NAT	Bulletin Board : C Enable O Disable		
Firewall	Block Mobile Device : O Enable 💿 Disable	=	
Objects Setting	URL Redirection After Login : User Requested 👻		
User Management	 Timeout Setting 		
Web Portal			
User Profile =	V Whitelist Setting		
User Group	Firewall Objects		
Guest Profile	► IP Object		
RADIUS	► IP Group		
LDAP / Active Directory			
Applications			
Bandwidth Management	White List :		
USB Application	TIRCE LISC.		
System Maintenance			
Diagnostics			
External Devices		-	
Product Registration	T. III III III III III III III III III I		

Available parameters will be explained as follows:

Item	Description				
Web Portal	Click Enable to enable such function.				
Login Mode	There are several login modes offered here for you to choose. Non Auth – Authentication is not required. HTTP/HTTPS - If you choose such mode, the user can access into Vigor router by HTTP or HTTPS.				
Authentication Type	This option is available when the Login Mode is set as HTTP or HTTPS. Note that the authentication sequence adopted by the system will be Local first, Guest second, RADIUS third and LDAP the last.				

	Local Guest RADIUS LDAP LDA	t>>LDAP/Active Directory)				
Bulletin Board	 Disable – The function of Bulletin Board is disabled. Enable – The function of Bulleting Board is enabled. The message on the Bulleting Board will be displayed on the screen when the user logs into the web user interface of Vigor router. Show Bulletin in Captive Portal Page – It is available when Bulletin Board is enabled and HTTP/HTTPS is selected as Login Mode. It is used to determine showing bulletin in web portal login page or not. 					
	Web Portal : Login Mode : Authentication Type :	○ Enable 				
	Bulletin Board : Show Bulletin in Captive Block Mobile Device : URL Redirection After Login	🔵 Enable 💿 Disable				
	Web Portal : Login Mode : Bulletin Board : Allow non-HTTP traffic before Portal Block Mobile Device : Alert Message : URL Redirection After Login :	 ○ Enable ○ Disable Non Auth ○ Enable ○ Disable Page shows : ○ Enable ○ Disable ○ Enable ○ Disable ○ Enable ○ Disable Mobile Device Detected User Requested 				
Block Mobile Device	mobile device trying to acces Alert Message – If a mobile	etect and block if there is any s into Internet via Vigor router. device is detected, a warning will be displayed on the screen t content is "Mobile Device				

URL Redirection After	Commune Companye
Login	🗆 : User Requested 🛛 🖌
U	User Requested
	Bulletin
	Custom URL
	 User Requested – After passed the authentication made by Vigor router, the user will be redirected to original requested web page. Bulletin – If it is selected, users will be forced to see the
	information displayed on bulletin after passing through web portal.
	Custom URL - Any user who wants to access into Internet through this router will be forcefully redirected to the URL specified here first no matter what URL he types. It is a useful method for the purpose of advertisement. For example, force the wireless user(s) in hotel to access into the web page that the hotel wants the user(s) to visit.
	• Custom URL – Type the URL of specified web page for redirection if Custom URL is selected as URL Redirection After Login.
Timeout Setting	•
Daily Logout	Enable - Force the online user logging out the web user interface of Vigor router everyday.
	• Daily Time to Logout - It is available when Daily Logout is enabled. Type that time setting (HH:MM) for the router to force online user leaving Vigor router.
	• Fully Recharge Time Quota After It is available when Daily Logout is enabled. The time quota of all local users will be recharged whenever Daily Logout is executed.
Period Logout	Enable - Force the online user logging out the web user interface of Vigor router after passing a period of time.
	• Period Time to Logout - It is available when Period Logout is enabled.
Idle Logout	Enable - Force the online user logging out the web user interface of Vigor router when the router is idle. Enable such feature if time quota is used.
	• Idle Time(min) – Set a time period. When the time is up, Vigor router will terminate the network connection for the online user.
Whitelist Setting	
White List	Select the source IP objects/groups that are ignored by web portal function.
White List IPv6	Select the source IP objects/groups that are ignored by web portal function.
Apply	Click it to save the configuration.



Note: To turn off the web portal function, disable Login Mode and Bulletin Board at the same time.

4.7.1.3 Portal Page Setup

This page allows you to configure specified messages (HTML-supported) in web portal pages, and shows them to users accessing into Internet via web portal.

No matter what the purpose of the wireless/LAN client is, he/she will be forced into the URL configured here while trying to access into the Internet or the desired web page through this router. That is, a company which wants to have an advertisement for its products to users can specify the URL in this page to reach its goal

	Us	er Management >> Web Portal >> Por	rtal Page Setup		2
Auto Logout : Off 🛛 👻		Online User Status General Setup	Portal Page Setup		
Quick Start Wizard	i I f				-
Online Status					
WAN			<center><h1>Welcome</h1></center>	1	
LAN			<center<m></center<m>		
Routing		Welcome Message		Max Size:1024	
NAT					
Firewall					
Objects Setting		Upload Bulletin Message :	Enable Disable		
User Management		opidad Buileun Message .			
Web Portal			<h1 align="center">Vigor300B</h1> <style< td=""><td></td><td></td></style<>		
User Profile			type="text/css"> .centered { text-align: left; list-style-position:inside;} <h2 align=center style="border:1px solid blue"><ul class="centered type=disc"></h2 		
User Group		Bulletin Message :	Manage Ultra Fast High-speed Internet Business Continuity by Multiple	Max Size:1024	
Guest Profile			WAN Load-balancing/Failover Advanced Firewall for The Network Security 		
RADIUS					
LDAP / Active Directory			<center>Authorization Success</center>		
Applications			<center>Hello %USER% your IP is %IP% > > > >%OPENWEB%</center>	_	
Bandwidth Management		Authorization Message		Max Size:1024	
USB Application					
System Maintenance					
Diagnostics			<center>Guest Authorization Success</center>	1	
External Devices			<center>Hello %USER% your IP is %IP%</center>		
Product Registration -		Guest Message :	> >%OPENWEB%	🔯 Max Size:1024	

Available parameters will be explained as follows:

Item	Description				
Welcome Message	Type words or sentences here. The message will be displayed on the top of the login page.				
Upload Bulletin Message	Upload Selected File - It is available when Enable is selected in Upload Bulletin Message . Choose a file to upload to Vigor300B.				
Bulletin Message	It is available when Disable is selected in Upload Bulletin Message .				
	The bulletin message is shown on login page or authorization page. In login page, it can be disabled by Show Bulletin In Login Page.				
Authorization Message	The welcome message is shown in authorization page which is the page after a user passing the authentication successfully.				
Guest Message	A welcome message is shown on the screen after the guest passing the authentication successfully.				
Customized Login Image	Specify an image file which will be displayed on the login page when a user or guest tries to access into Internet.				



Item	Description
	Upload Login Image – Choose a file to upload to Vigor300B. It is useful for advertisement.
Customized Background Image	Specify an image file which will be display on the login page as a background. It is useful for advertisement.
	Upload Background Image – Choose a file to upload to Vigor300B.
Login Page Preview	Click it to have a preview of login page (including welcome message, and bulletin message).
Reset All to Default	Reset the above message fields to default settings. Check the box and then press Apply .
Apply	Click it to save the configuration.
Cancel	Click it to discard the settings configured in this page.

After finished the above settings, click **Apply** to save the configuration.

4.7.2 User Profile

This function allows to configure all accounts (user profiles) in Vigor300B, including PPTP/L2TP/SSL/PPPoE, System user, and so on.

4.7.2.1 User Profile

User profile is used to configure different authorities, including web portal, PPTP/L2TP/ PPPoE server, system administration, etc., for different users.

											Auto Logout : Off 🛛 👻
								Apply All	User Profile /		
Number Limit : 50	Profile Nu					h	ie 🔇 Refres	it 前 Delei	🕼 Add 🔀 Edi	<u>^</u>	
Allow Radi	PPPoE Tr Allow FT	DDD-5 Ti	All DD	Demeinin	Time Overta				Username		Online Status
Allow Raul	PPPUE II Allow FI	PPPUE II	Allow PP	Remainin	Time Quota	Allow we	System	Ellanie	Username		WAN
			W.	items to sho	No						LAN
											Routing
											NAT
											Firewall
											Objects Setting
											User Management
										_	Web Portal
											User Profile
											User Group
											Guest Profile
											RADIUS
											LDAP / Active Directory
											Applications
											Bandwidth Management
											USB Application
											System Maintenance
											Diagnostics
											External Devices
										-	System Maintenance Diagnostics External Devices

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.



Item	Description
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number of the user profiles to be created.
Username	Display the name of the user.
Enable	Display the status of the profile. False means disabled; True means enabled.
System User	Display the status of the System User. False means disabled; True means enabled.
Allow Web Portal Login	Display the status (Enable/Disable) of the account usage for web portal login.
Time Quota	Display the status (Enable/Disable) of time quota mechanism for web portal use.
Remaining Time	Display the remaining time for the user profile. Recharge – It can recharge the remaining time quota of the user on-the-fly (will not log out online users).
PPPoE Time Quota(min)	Display the current PPPoE time quota usage portion for such user.
PPPoE Traffic Quota(MB)	Display the current PPPoE traffic quota usage portion for such user.
Allow FTP Server Login	Display if FTP Server Login is activated (enable or disable) or not.

How to create a new User Profile

- 1. Open User Management>>User Profile.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Dray Tek

Username :	
🗖 Enable	
Password :	
System User :	false 💌
 User Management 	
 PPPoE Server 	
 FTP/SAMBA User Settin 	Ig
∧ Radius User Setting	

Item	Description
Username	Type a name for such user profile (e.g., LAN_User_Group_1, WLAN_User_Group_A, WLAN_User_Group_B, etc). When a user tries to access Internet through this router, an authentication step must be performed first. The user has to type the Username specified here to pass the authentication. When the user passes the authentication, he/she can access Internet via this router. However the accessing operation will be restricted with the conditions configured in this user profile.
Enable	Check this box to enable such profile.
Password	Type a password for such profile (e.g., <i>lug123</i> , <i>wug123</i> , <i>wug456</i> , etc). When a user tries to access Internet through this router, an authentication step must be performed first. The user has to type the password specified here to pass the authentication. When the user passes the authentication, he/she can access Internet via this router with the limitation configured in this user profile.
System User	 Only the user profile with privilege level has the right to operate the function of the router as the administrator of the router. False – Choose it to disable the function of System User. Such user profile does not have the right to operate the router's function. True – Choose it to enable the function of System User. Privilege Level – If true is selected for System User, you have to specify the privilege level (User/Operator/Admin) for such profile.



	Operator v User Operator Admin
	Admin has the greatest authority for router operation; User has the smallest authority for router operation.
User Management	
Allow Web Portal Login	 Enable – Click it to enable web portal login with such profile. Disable – Click it to disable the option.
Time Quota	 Enable – Click it to enable time quota function. Set Time Quota (min) – Type the time value. Remaining Time – Display the remaining time for the user profile. Disable – Click it to disable the function. Note: The range of Time Quota is 1~14400 minutes.
Max Simultaneous Login	It means the maximum online number of clients logging with this profile. The range is from 1 to 2551 means not limit; 0 means No access.
PPPoE Server	
Allow PPPoE Server Login	Click Enable to activate related PPPoE configuration.
Quota Reset Frequency	It is used to configure the cycle time for PPPoE quota. Note that each time when the quota is reset, the value of Current Time Used/Current Traffic Quota will be reset to initial situation (0).
	Everyday – The quota for PPPoE will be reset every day.
	Everymonth – The quota for PPPoE will be reset every month.
	None Everyday Everymonth
Time Quota (min)	Type a time quota for PPPoE connection. Note: The range of Time Quota is 1~14400 minutes.
Current Time Used (min)	Display the cumulative amount of time that the user used. Reset - Click it to reset the setting to default value (0).
Traffic Quota(MB)	It is used to set the maximum traffic (MB) for such user profile.
Current Traffic Quota (MB)	Display the cumulative amount of data traffic that the user used. Reset - Click it to reset the setting to default value (0).

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MAC Binding	Specify a MAC address which is limited and used for such PPPoE account.
	Enable – Click it to enable the function.
	MAC Address – If MAC Binding is enabled, simply type the MAC address of the router in this field.
Idle Timeout (sec)	If the user is idle over the limitation of the timer, the network connection will be stopped for such user. By default, the Idle Timeout is set to 300 seconds.
DHCP from	Choose a LAN profile for DHCP server IP dispatching.
	Remote clients using this profile to do PPTP/L2TP dial-in will be assigned IP addresses according to this DHCP pool.
Static IP Address	Type an IP address for such user profile which accesses Internet with PPTP/L2TP connection.
FTP/SAMBA User Se	etting
Allow FTP/SAMBA Server Login	Click Enable to allow the remote user accessing into Internet via FTP/SAMBA server.
Radius User Setting	
Allow Radius Server Login	Click Enable to allow the remote user accessing into Internet via Radius server.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving the configuration.

4. Enter all the settings and click **Apply**.

5. A new User Profile has been created.

4.7.2.2 Apply All

This page allows you to modify many options for **ALL** user profiles in one apply operation. It is useful for administrator to edit the options of all users without opening profile one by one.

You can click **Apply** to save the settings and apply all of the modifications to all user profiles.

to Logout : Off 🛛 👻	User Profile Apply All	
Quick Start Wizard 📃		
Online Status	Modify Web Portal Login Status	
WAN	Modify Time Quota Status	
LAN	Modify Time Quota Value	
Routing	Modify Max User Login	
NAT	Modify Idle Timeout	
Firewall	Modify PPPoE Server Login Status	
Objects Setting	Modify FTP Server Login Status	
User Management	Modify Radius Server Login Status	
Web Portal	Modify SAMBA Server Login Status	
User Profile		
User Group Guest Profile		
RADIUS	Apply to :	
LDAP / Active Directory		
Applications		
Bandwidth Management		
USB Application		
System Maintenance		
Diagnostics		
External Devices	A A	opply 🙆 Cancel

Available parameters are listed as follows:

Item	Description
Modify Web Portal Login Status	Check the box to configure detailed setting. Enable – Click it to enable the web portal login function for remote client.
Modify Time Quota Status	Check the box to configure detailed setting. Enable – Click it to enable the time quota function for all user profiles.
Modify Time Quota Value	Check the box to configure detailed setting. You have to check this box and type the time quota value in Time Quota Value(min) .
Modify Max User Login	-1 means not limit; 0 means No access.
Modify Idle Timeout	If the user is idle over the limitation of the timer, the network connection will be stopped for such user. By default, the Idle Timeout is set to 300 seconds.
Modify PPPoE/FTP/Radius /SAMBA Server Login	Check the box to configure detailed setting. Enable – Click it to enable the PPPoE/FTP/Radius/SAMBA authentication function all user profiles.
Apply to	 All – Apply all of the modifications to all user profiles. Partial – Apply all of the modifications to specified user profile.

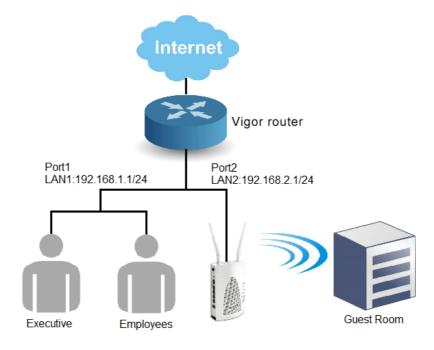
After finished the above settings, click **Apply** to save the configuration.



Example: How to Generate Mass LAN Clients with User Management on Vigor300B

The following table shows the function differences between User Profile and Guest Profile (created by using Mass Guest Generator):

	User Profile	Mass User Generator
Number of Account	Create at most 500 user accounts at a time	Create at most 255 user accounts at a time
Account	Manually	Auto-generated with regularity
Password	Distinct password created by Administrator	Randomly generated, and the length is defined by Administrator
Max Simultaneous users per account	1~255 or unlimited (-1)	Not support
Privilege	Internet Access, VPN, PPPOE client	Internet Access only
Usage Restriction /Expired Time	Time Quota (1~14400 minutes)	Time Quota (1~14400 minutes) Validity Period (days)
Authentication	YES	YES
Max Simultaneous user	YES	NO
Bind IP	YES	NO



- 1. Open User Management >> User Profile, and click Add.
- 2. Set up user profile as shown below. Type **Username**; check **Enable** and type **Password**. Then, type **Max User Login**. Click **Apply** to save the settings.



Username :	Employees
🗹 Enable	
Password	
System User :	false
 User Management 	
 PPPoE Server 	
∧ FTP/SAMBA User Se	etting
 Radius User Setting 	1

- 3. Open **Objects Setting** >> **IP Object**, and click **Add**.
- 4. Set up **IP Object** for Executive. Type the name of the **Profile** (e.g., boss in this case); choose Single as the **Address Type**; and type 192.168.1.11 as **Start IP Address**. Click **Apply** to save the settings.

^p Object		
Profile :	boss	
Address Type :	Single	~
Start IP Address :	192.168.1.11	
	💾 Apply 🔇 Ca	ancel

5. Open User Management >> Guest Profile and click the Mass Guest Generator tab to open the following page. Type the Group Name (in this case, Room); Guest Name Prefix, and Number of Generate (in this case, 100); click Enable for Validity Period to type the Start Time and End time, and click Apply to save the settings.

Dray Tek

Juest Group Ma	iss Guest Generator Expo	int	
Name Settings			
Group Name :	Room	Do append if the group exists	
Guest Name Pr	efix: Room		
Start Index :	1		
Number to Gen	erate: 100		
Random Passv	word Settings		
Length :	6		
Usage Settings			
Usage Period :	🔘 Enable 💿 Disable		
Validity Period	🖲 Enable 🔵 Disable		
Start Time :	2015-05-05-10-10	YYYY-MM-DD-HH-MM(ex:2013-01-01-08-30) (Use for unlimit)	
End Time :	2015-05-06-10-10	YYYY-MM-DD-HH-MM(ex:2013-01-01-08-30) (Use for unlimit)	
te : Jeans Dariad: A a	ountdown usage time starts af	ter the first time login	
	time period when the account i		
			💾 Apply 🛛 🐼 C

6. Open User Management >> Guest Profile and click Guest Group to check the mass user account group.

Guest Group Mass Guest Generator Export												
ſ	🕼 Add 🔀 Edit 🔟 Delete 🛷 Refresh Profile Number Limit								:			
	Group	Enable	Co	mment	Usage Pe	Usage Ti		Validity P	Sta	rt Time	End Time	
4	Room	true			Enable	180		Enable	201	4-05-0	2014-05-02.	
	🚯 Add	🔀 Edit	🛅 D	elete 🗳	Refresh				F	Profile Nur	mber Limit : 2	25
	Guest Name	(Commen	t	Apply to We	eb Portal	Firs	t Login Time		Usage Ti	me Deadline	Γ
	Room1				Enable							2
	Room2				Enable							-
	Room3				Enable							
	Room4				Enable							
	Room5				Enable							
	Room6				Enable							
	Room7				Enable							

By clicking each account (e.g., choose **Room1** and click **Edit**), we can check the information for this account, and we may also modify the account name and password manually.

Guest	t Name :	Room1		
Co	mment :		(Optional)	
Pas	ssword:	Audyzi		
Apply to Web) Portal :	💿 Enable i 🔿 Disable		
📃 Clean Dea	adline			

Note that Administrator is able to **Export** the information for the whole group to a *.csv* file, which is useful to **redistribute** the account and password combinations to guests.

Us	er Mana	gement >	>> Gue	est	Profile >> Export		
	Guest	Group	Mass	Gu	Jest Generator	Ехр	oort
		st Group ort File Na		-	oom 3900_2014-08-26	~	.csv
	A1	•	;	fx	Name		
	А	В	С		D		
1	Name	Password	Comme	ent			
2	Room1	Audyzi					
3	Room2	H7LFGw					
4	Room3	3ASAWq					
5	Room4	7JptaZ					
6	Room5	mcFdeb					
7	Room6	iJvl8V					
8	Room7	uJSagu					
9	Room8	w9UjDK					
10	Room9	zElNXq					
11	Room10	IftiiB					
12	Room11	jrbJGe					
13	Room12	v1Nh6U					

7. Open **User Management** >> **Web Portal** and click the **General Setup** tab to open the following page. Check **Local** and **Guest** as **Authentication Type**. Check IP object named of **Boss** to put it into the white list, and this will allow this IP address to access to the Internet without authentication.

	Setup P	ortal Page Setup			
Web Portal :	0	Enable 💿 Disable			
Login Mode :	HT	ГР			
Authentication Type :	Loc	al, Guest 🛛 👻	Check Sequence: Local->	Guest->Radius->LDAP	
Daily Auto Logout :	0	Enable 💿 Disable			
Bulletin Board :	\circ	Enable 💿 Disable			
🗹 Show Bulletin in Captiv	e Porta	Page			
URL Redirection After Logi	in : Use	er Requested 🛛 🎽			
		Firewall Objects			
	4	IP Object			
		Profile	Address Type	Start IP Address	End IP Addr
		🕅 boss	Single	192.168.1.11	
White List :	4	IP Group			
		m			[

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8. After finishing configuration, Vigor300B will redirect users to the authentication page when they try accessing to the Internet.

For Employees to access into Internet:

Username

Password

Room1

•••••

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Login

Welcome	← → C 🗋 192.168.1.1/portal/authorize_info.html?tmp=13958230;Q ☆ 🚍
Username Employees Password ••• Login	Logout Authorization Success Hello Employees your IP is 192.168.1.21 Click Here You can also logout manually by this link: http://192.168.1.1/portal/logout.html
For Room guest to access into Internet: Welcome	← → C f 192.168.2.1/portal/guest_authorize_info.html 🔀 🏠 =
	Guest Authorization Success

Hello Room1 your IP is 192.168.2.11



You can also logout manually by this link: http://192.168.2.1/portal/logout.html

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4.7.3 User Group

The **User Group** can consist of several us er profiles, which help the administrator to manage a large number of users conveniently.

to Logout : Off	User Group			
Quick Start Wizard	🕼 Add 💥 Edit 🛅 Delete 🗳	Deficely		Profile Number Limit : 5
Online Status				
WAN	Usergroup	Enable	Member	
LAN		No items to sh	how.	
Routing				
NAT				
Firewall				
Objects Setting				
User Management				
Web Portal				
User Profile				
User Group				
Guest Profile				
RADIUS				
LDAP / Active Directory				
Applications				
Bandwidth Management				
USB Application				
System Maintenance				
Diagnostics				
External Devices				
Product Registration 👻				

Each item will be explained as follows:

Item	Description			
Add	Add a new profile.			
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.			
Delete	Remove the selected profile. To delete a rule, simply select the one you want to delete and click the Delete button.			
Refresh	Renew current web page.			
Profile Number Limit	Display the total number (30) of the object profiles to be created.			
Usergroup	Display the name of the user group.			
Enable	Display the status of the profile. False means disabled; True means enabled.			
Member	Display the user profiles under such group.			

How to create a new User Group Profile

- 1. Open User Management>>User Group.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

User Group	
Usergroup : Grp	_marketing
🔽 Enable]
Member :	~ ×
	💾 Apply 🛛 🔞 Cancel

Item	Description		
Usergroup	Type the name of such profile.		
Enable	Check this box to enable such profile.		
Member	Use the drop down list to check the user profile(s) under such group. To clear the selected one, click is to remove current object selections.		
Apply	Click it to save the configuration.		
Cancel	Click it to exit the dialog without saving the configuration.		

- 4. Enter all the settings and click **Apply**.
- 5. A new User Group Profile has been created.

4.7.4 Guest Profile

Guest Profile allows the users to access Internet within validity period and limit the user accessing into the specified URL configured by web portal.

o Logout : Off 🛛 🖌		Gu	est Group	Mass C	Juest Generator	Export					
Quick Start Wizard		ſ								D	rofile Number Limit :
Online Status		-	🗿 Add	🔀 Edit	<u> î</u> Delete	🖈 Refresh					rome roumber cirint.
WAN			Group		Enable	Comment	Usage Period	Usage Time(min)	Validity Period	Start Time	End Time
LAN		►	Room		true		Disable	180	Enable	2015-05-05-10-1	0 2015-05-06-10-10
Routing											
NAT											
Firewall											
Objects Setting											
User Management											
Web Portal											
User Profile	-										
User Group											
Guest Profile											
RADIUS											
LDAP / Active Directory											
Applications											
Bandwidth Management											
USB Application											
System Maintenance											
Diagnostics											
External Devices											

4.7.4.1 Guest Group

Item	Description				
Add	Add a new profile.				
Edit	Modify the selected profile.				
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.				
Delete	Remove the selected profile.				
	To delete a rule, simply select the one you want to delete and click the Delete button.				
Refresh	Renew current web page.				
Profile Number Limit	Display the total number (30) of the profiles to be created.				
Group	Display the name of the guest group.				
Enable	Display the status of the profile. False means disabled; True means enabled.				
Comment	Display the description for the profile.				
Usage Period	Display the status (Enable/Disable) for the function of usage time.				
Usage Time(min)	Display the usage time for the guest accessing into Internet each time.				
Validity Period	Display the valid period for the guest accessing into Internet.				
Start Time/ End Time	Display the detailed time setting (starting and ending).				

How to create a new Guest Group Profile

- 1. Open User Management>>Guest Group. Click the Guest Group tab.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Group :	carrie	
🗹 Enable		
Comment :	test only	(Optional)
Usage Period :	💿 Enable 🔵 Disable	
Usage Time(min)	: 180	
Validity Period :	💿 Enable 🔵 Disable	
Start Time :	2014-01-01	YYYY-MM-DD-HH-MM(ex:2013-01-01-08-30) (Use for unlimit)
End Time :	2014-01-31	YYYY-MM-DD-HH-MM(ex:2013-01-01-08-30) (Use for unlimit)

Available parameters are listed as follows:

Item	Description		
Group	Type the name of such profile.		
Enable	Check this box to enable such profile.		
Comment	Give a brief description for the profile.		
Usage Period	It determines the usage time for the guest accessing into Internet each time. Click Enable to enable such option.		
	Usage Time(min) - Determines the connection time allowed for accessing Internet every time. The default setting is 180 minutes. When the time is up, the user will be forced to exit Internet.		
Validity Period	Validity Period determines the effective time for the user account/guest. Within the period of the validity, the user/guest can access into Internet whenever he wants.		
	Start Time/End Time – Specify the valid period by typing the time with the format of YYYY-MM-DD-HH-MM.		
	When it is set with "", that means such time setting is no limit.		
Apply	Click it to save the configuration.		
Cancel	Click it to exit the dialog without saving the configuration.		

4. Enter all of the settings and click **Apply**.

5. A new guest group profile has been created.



6. You can create several guest names by clicking b on the left side of the selected guest group profile. A setting page will appear for you to add new guest list.

ser Manageme	nt >> Guest Profil	e >> Guest Gr	oup							
Guest Group Mass Guest Generator Export										
🕼 Add	🕼 Add 🔀 Edit 🕅 Delete 🛭 🐼 Refresh									
Group	Group Enable Comment Usage Pe									
🕨 carrie	true	test only	Enable							

7. Move your mouse to click **Add**.

Gue	est Group Ma	ass Guest Ge	nerator E	xport		
ľ	🕽 Add 🛛 🔀 E	dit 👖 Del	lete 🛛 🗭 Ret	íresh		
	Group	Enable	Comment	Usage Pe	Usa	
4	carrie	true	test only	Enable	180	
	🕒 Add	🗶 Edit 🛛 🛅	Edit 🛛 📶 Delete 🛛 🖈 Ret		esh	
	Guest Name	Com	ment	Apply to W	Apply to Web Po	
				No item	is to sh	

8. The following page for configuration will appear.

		= ×
Mark]	
Practice	(Optional)	
12345678		
💿 Enable i 🔿 Disable		
	📑 Apply	🙆 Cancel
	Practice 12345678	Practice (Optional) 12345678

Item	Description
Guest Name	Type the name of the guest under the guest group.
Comment	Give a brief description for the guest.
Apply to Web	Enable – Click it to make such profile being applied to web

Portal	portal. Disable – Click it to disable the option.
Clean Deadline	The guest profile can be unlocked to be used by other users.

- 9. Enter all of the settings and click **Apply**.
- 10. A new guest has been added under the Guest Group (named Carrie in this case).

1	🕽 Add 🛛 🔀	Edit 🛛 🔟 Del	ete 🛛 📢 Refr	esh			Profile N	Number Limit :
	Group	Enable	Comment	Usage Pe	Usage Ti	Validity P	Start Time	End Time
4	carrie	true	test only	Enable	180	Enable	2014-01-01	2014-01-31
	🕼 Add	🔀 Edit 🛛 🛅	Delete 🛛 🖈	Refresh			Profile Num	nber Limit : 255
	Guest Name	Com	nent	Apply to W	eb Portal Firs	st Login Time	Usage Ti	me Deadl
ľ	Mark	Pract	ice	Enable				

4.7.4.2 Mass Guest Generator

This option is useful to create **a lot of** guest profiles with the most expeditious manner.

[User Management >> Guest	Profile >> Mass Guest	Generator		8	
Auto Logout : Off	Guest Group Mass Gue	est Generator Expor	t			
Quick Start Wizard	[^	
Online Status						
WAN	Name Settings					
LAN						
Routing	Group Name :		Do append if the group exists			
NAT	Guest Name Prefix :					
Firewall	Start Index :	1				
Objects Setting	Number to Generate :	100	Max:255			
User Management	Random Password Se	ttings				
Web Portal			1			
User Profile =	Length :	6			E	
User Group	Usage Settings					
Guest Profile BADIUS	Usage Period :	🔵 Enable 💿 Disable				
LDAP / Active Directory	Validity Period :	💿 Enable 🔵 Disable				
Applications	Start Time :		YYYY-MM-DD-HH-MM(ex:2013-01-01-08-30) (Use for unlimit)			
Bandwidth Management	End Time :		YYYY-MM-DD-HH-MM(ex:2013-01-01-08-30) (Use for unlimit)			
USB Application						
System Maintenance	Note :					
Diagnostics	1.Usage Period: A countdo					
External Devices	3) folidit: Dariad: 1 time n	ariad whan the account.	E Apply	🙆 Cancel		
Product Registration				w Vancer	٣	

Item	Description
Name Settings	Group Name – Type the name of the guest group.Guest Name Prefix – The guest names created with such manner requires a prefix as the basis of name input.Note: Guest Name Prefix disallows these 6 characters "^?\$%.&".
	Start Index – Type a number which will be treated as the starting number for generating mass guest profiles.
	Note: The range of Start index is 1~10000.
	Number to Generate – Type the total number of guests to be generated at one time.
	The guest name will be named by combining "Guest Name Prefix" + "Start Index", for example: Guest Name Prefix => teashop_ Start Index => 100 Number to Generate => 50 Then, the guests names generated will be: teashop_100 (starting) teashop_101 teashop_102 teashop_150 (ending)
Random Password Settings	Length – Type a number to determine the length of the random passwords which will be assigned to the mass guest profiles by the system. The range of Password Length is 6~12.

Item	Description
Usage Settings	Usage Period –It determines the usage time for the guest accessing into Internet each time. Click Enable to enable such option.
• Usage Time(min)-The default setting is 180	
	Validity Period –It determines the valid period for the guest accessing into Internet. That is, the guest cannot access into the Internet anytime outside the valid period. Click Enable to enable such option.
	• Start Time/End Time – Specify the valid period by typing the time with the format of HH-MM-SS.
Apply	Click it to save the configuration.
Cancel	Click it to discard the settings configured in this page.

4.7.4.3 Export

This function is used to export the guest profile names and random passwords.

	User Management >> Guest Profile >> Export	2
Auto Logout : Off 🛛 👻	Guest Group Mass Guest Generator Export	
Quick Start Wizard		
Online Status	Guest Group :	
WAN		
LAN	Export File Name : V300B_2015-09-15 .csv	
Routing		
NAT		
Firewall		
Objects Setting		
User Management		
Web Portal		
User Profile		
User Group		
Guest Profile		
RADIUS		
LDAP / Active Directory		
Applications		
Bandwidth Management		
USB Application		
System Maintenance		
Diagnostics		
External Devices		
Product Registration		🐺 Expor 🖕

Item	Description
Guest Group	Choose a group that you want to export the settings, including guest profile names and random passwords as a file for reference.

4.7.5 RADIUS

Remote Authentication Dial-In User Service (RADIUS) is a security authentication client/server protocol that supports authentication, authorization and accounting, which is widely used by Internet service providers. It is the most common method of authenticating and authorizing dial-up and tunneled network users.

The built-in RADIUS client feature enables the router to assist the remote dial-in user or a wireless station and the RADIUS server in performing mutual authentication. It enables centralized remote access authentication for network management.

4.7.5.1 External Radius Server

Vigor router can specify external RADIUS server for performing security authentication.

	User Management >> RADI	JS >> External Radius Se	rver	i.
Auto Logout : Off 🛛 🗸	External Radius Server	Internal Radius Server		
Quick Start Wizard				1
Online Status	Enable			
WAN	Server IP Address :			
LAN				
Routing		1812		
NAT	Shared Secret :			
Firewall	Logout After(min) :	-1	(User Management)	
Objects Setting				
User Management				
Web Portal				
User Profile				
User Group				
Guest Profile				
RADIUS				
LDAP / Active Directory				
Applications				
Bandwidth Management				
USB Application				
System Maintenance				
Diagnostics				
External Devices				1
Product Registration 🔄			🛗 Apply 🛛 😣 Cano	9 ÷

Available parameters are listed as follows:

Item	Description
Enable	Check this box to enable such profile.
Server IP Address Enter the IP address of RADIUS server.	
Destination Port	The UDP port number that the RADIUS server is using. The default value is 1812, based on RFC 2138.
Shared Secret	The RADIUS server and client share a secret that is used to authenticate the messages sent between them. Both sides must be configured to use the same shared secret.
Logout After(min)	It means the maximum usage duration for RADIUS authentication.
Apply	Click it to save the configuration.
Cancel	Click it to discard the settings configured in this page.

After finished the above settings, click **Apply** to save the configuration.

4.7.5.2 Internal Radius Server

In addition to specifying an external RADIUS server for security authentication, Vigor router also can be treated as a RADIUS server for performing security authentication and offer the RADIUS service for wireless clients.

	Iser Management >> RADIUS	5>> Internal Radius Serve	er				6
Auto Logout : Off 🛛 👻	 External Radius Server	Internal Radius Server					
Quick Start Wizard							
Online Status	Enable RADIUS Ser	ver					
WAN	Interface :	~ ×					
LAN	Port :	1812	default port:1812				
Routing	Port.						
NAT		C Add			Profile Number	Limit: 32	
Firewall		Profile	IP	Subnet Mask	Shared Secret		
Objects Setting			No	items to show.			
User Management							
Web Portal	Authentication Client :						
User Profile							
User Group							
Guest Profile							
RADIUS							
LDAP / Active Directory Applications							
Bandwidth Management							
USB Application							
System Maintenance							
Diagnostics							
External Devices						💾 Apply	🛛 🙆 Cance
Product Registration -							- Ounce
	4						•

Available parameters are listed as follows:

Item	Description					
Enable RADIUS Server	Check this box to make Vigor router as a RADIUS server.					
Interface	Only the clients from the selected interface can be authenticated by Vigor RADIUS server.					
Port	Clients can use the specified port number to exchange RADIUS information.					
Authentication Client	Only the clients specified in this field can be authenticated by Vigor RADIUS server.					
Apply	Click it to save the configuration.					
Cancel	Click it to discard the settings configured in this page.					

After finished the above settings, click **Apply** to save the configuration.

Note: "Allow Radius Server Login" can be enabled from the configuration page in User Management>>User Profile. It allows the clients to be authenticated by internal RADIUS server of Vigor router.

4.7.6 LDAP/Active Directory

Lightweight Directory Access Protocol (LDAP) is a communication protocol for using in TCP/IP network. It defines the methods to access distributing directory server by clients, work on directory and share the information in the directory by clients. The LDAP standard is established by the work team of Internet Engineering Task Force (IETF).

As the name described, LDAP is designed as an effect way to access directory service without the complexity of other directory service protocols. For LDAP is defined to perform, inquire and modify the information within the directory, and acquire the data in the directory securely, therefore users can apply LDAP to search or list the directory object, inquire or manage the active directory.

to Logout : Off 🛛 👻	LDAP / A	Active Directory								
Quick Start Wizard	Con and	Vé maia inte	Duluta (* r	D-A					Profile N	umber Limit :
Online Status	-		Delete 🧔 F							
WAN	Profile	Enable	Bind Type	Server IP Address	Port	Common	Base DN	Group DN	Regular DN	Regular P
LAN	profile	faise			389					
Routing										
NAT										
Firewall										
Objects Setting										
User Management										
Web Portal										
User Profile										
User Group										
Guest Profile										
RADIUS										
LDAP / Active Directory										
Applications										
Bandwidth Management										
USB Application										
System Maintenance										
Diagnostics										
xternal Devices										

Available parameters are listed as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.
Delete	Remove the selected profile.
	To delete a rule, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.
Profile Number Limit	Display the total number (32) of the profiles to be created.
Profile	Display the name of the profile.
Enable	Display the status of the profile. False means disabled; True means enabled.
Bind Type	Display the type setting selected for such profile.
Server IP Address	Display the IP address of the LDAP server.
Port	Display the port number set for such profile.

Dray Tek

Item	Description
Common Name Identifier	Display the name for identification.
Base DN	Display the configured Base DN if Bind Type is set with Simple Mode.
Group DN	Display the configured Group DN if Bind Type is set with Simple Mode.
Regular DN	Display the configured regular DN if Bind Type is set with Regular Mode.
Logout After(min)	Display the maximum usage duration for RADIUS authentication.

How to create a new LDAP/Active Directory Profile

- 1. Open User Management>>LDAP/Active Directory.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile :	rd1		
🗹 Enable			
Bind Type :	Simple Mode	~]
Server IP Address :	192.168.1.220		
Port :	389		
Common Name Identifier	: cn		(Optional)
Base DN :]
Group DN :			(Optional)
Regular DN :			(Optional)
Regular Password :			(Optional)
Logout After(min) :	-1		(User Management)
Logout After(min) :	-1		(User Management)

Item	Description					
Profile	Type a name for such profile.					
Enable This Profile	Check this box to enable such profile.					

Bind Type	There are three types of bind type supported. Regular Mode Simple Mode Anonymous Regular Mode Simple Mode – Just simply do the bind authentication without any search action. Anonymous – Perform a search action first with Anonymous account then do the bind authentication. Regular Mode – Mostly it is the same with anonymous mode. The different is that, the server will firstly check if you have the search authority. For the regular mode, you'll need to type in the Regular DN
	and Regular Password .
Server IP Address	Enter the IP address of LDAP server.
Port	Type a port number as the destination port for LDAP server.
Common Name Identifier	Type or edit the common name identifier for the LDAP server. The common name identifier for most LDAP server is "cn"
Base DN	It means " Base Distinguished Name ". Type the distinguished name used to look up entries on the LDAP server.
Group DN	It means " Group Distinguished Name ". Type the distinguished name used to look up entries on the LDAP server.
Regular DN	Type this setting if Regular Mode is selected as Bind Type.
Regular Password	Specify a password if Regular Mode is selected as Bind Type.
Logout After(min)	It means the maximum usage duration for RADIUS authentication.
Apply	Click it to save the configuration.
Cancel	Click it to exit the dialog without saving the configuration.

- 4. Enter all the settings and click **Apply**.
- 5. A new LADP/Active Directory Profile has been created.

4.8 Application

Below shows the menu items for Applications.

P	pplications
	Dynamic DNS
	GVRP
	IGMP Proxy
	UPnP
	Wake on LAN
	SMS / Mail Alert Service

4.8.1 Dynamic DNS

The ISP often provides you with a dynamic IP address when you connect to the Internet via your ISP. It means that the public IP address assigned to your router changes each time you access the Internet. The Dynamic DNS feature lets you assign a domain name to a dynamic WAN IP address. It allows the router to update its online WAN IP address mappings on the specified Dynamic DNS server. Once the router is online, you will be able to use the registered domain name to access the router or internal virtual servers from the Internet. It is particularly helpful if you host a web server, FTP server, or other server behind the router.

Before you use the Dynamic DNS feature, you have to apply for free DDNS service to the DDNS service providers. The router provides up to ten accounts from eight different DDNS service providers. Basically, Vigor routers are compatible with the DDNS services supplied by most popular DDNS service providers such as **www.dyndns.org**, **www.no-ip.com**, **www.dtdns.com**, **www.changeip.com**, **www.dynamic- nameserver.com**. You should visit their websites to register your own domain name for the router.

4.8.1.1 Status

This page displays the status for all the available DDNS profiles.

ito Logout : 5Min 💌	Status Setting D	DNS log		
Quick Start Wizard	Auto Refresh : 1 Minute 🗸	🐼 Refresh		
Online Status	Auto Neiresii . Miridle	•		
WAN	Profile	Status	Domain Name	
LAN	ddns1	Not Connected		
Routing	ddns2	Not Connected		
NAT	ddns3	Not Connected		
Firewall	ddns4	Not Connected		
Objects Setting	ddns5	Not Connected		
User Management	ddns6	Not Connected		
Applications	ddns7	Not Connected		
Dynamic DNS	ddns8	Not Connected		
GVRP	ddns9	Not Connected		
IGMP Proxy	ddns10	Not Connected		
UPnP				
Wake on LAN				
SMS / Mail Alert Service				
Bandwidth Management				
USB Application				
System Maintenance				
Diagnostics				
External Devices				

Each item will be explained as follows:

Item	Description					
Refresh	Renew current web page.					
Auto Refresh	Specify the interval of refresh time to obtain the latest status. The information will update immediately when the Refresh button is clicked. 10 Seconds 10 Seconds 1 Minute Disable					
Profile	Display the name of the DDNS.					
Status	Display the connection status for the DDNS sever.					
Domain Name	Display the domain name for the DDNS server.					

4.8.1.2 Setting

This page allows you to configure DDNS profiles for your request.

Auto Logout : Off 🛛 🗠	Status	Setting	DDNS log						
Quick Start Wizard	No mara di	J. Course I local							
Online Status		Force Upd							
WAN	Profile	Enable	WAN Profile	Routing P	Service P	Service T	Domain N	IP Source	Force upd
LAN	ddns1	false	wan1		dyndns	Dynamic			14400
Routing	ddns2	false	wan1		dyndns	Dynamic			14400
NAT	ddns3	false	wan1		dyndns	Dynamic			14400
Firewall	ddns4	false	wan1		dyndns	Dynamic			14400
Objects Setting	ddns5	false	wan1		dyndns	Dynamic			14400
User Management	ddns6	false	wan1		dyndns	Dynamic			14400
Applications	ddns7	false	wan1		dyndns	Dynamic			14400
Dynamic DNS	ddns8	false	wan1		dyndns	Dynamic			14400
GVRP	ddns9	false	wan1		dyndns	Dynamic			14400
IGMP Proxy	ddns10	false	wan1		dyndns	Dynamic			14400
UPnP									
Wake on LAN									
SMS / Mail Alert Service									
Bandwidth Management									
USB Application									
System Maintenance									
Diagnostics									
External Devices									

Each item will be explained as follows:

Item	Description		
Edit	Modify the selected profile.		
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected rule.		
Force Update	Force the router updates its information to DDNS server immediately.		
Profile	Display the name of the profile.		
Enable	Display the status of the profile. False means disabled; True means enabled.		
WAN Profile	Display current WAN profile used by such DDNS profile.		
Routing Policy	Display the routing policy used by such DDNS profile.		
Service Provider	Display the name of service provider used by such profile.		
Service Type	Display the type for such profile.		
Domain Name	Display the domain name of such profile.		
IP Source	Display the interface (My WAN IP or My Internet IP) selected by such DDNS profile.		
Force update interval	Display the interval setting to refresh the data for such profile.		

How to edit a DDNS Profile

There are 10 sets of DDNS server offered for you to modify and configure. Please choose any one of them and click **Edit** to open the following page for modification.

1. Open **Applications>>Dynamic DNS** and click the **Setting** tab.



2. Choose one of the DDNS profiles and click the **Edit** button.

Profile :	ddns1	
Enable		
WAN Profile :	wan1	~
Routing Policy :	selected wan first	~
Service Provider :	dyndns	*
Service Type :	Dynamic	~
Domain Name :		
User Login Name :		
Password		
IP Source :	My WAN IP	~
Wild Card :	🔵 Enable 💿 Disa	able
Backup MX :	🔵 Enable 💿 Disa	able
Mail Extender :		(Optional)
Force update interval :	14400	Minutes (1~43200)

Item	Description		
Profile	Display the name of the profile.		
Enable	Check this box to enable such profile.		
WAN Profile	Choose a WAN interface that such profile will apply to.		
Routing Policy	Choose a routing policy applied to the DDNS profile. Selected wan first Selected wan first Selected wan only Selected wan only Commit Selected wan only Sel		
Service Provider	Select the service provider for the DDNS account.		

Service Type	Select a service type (Dynamic, Custom or Static). If you choose Custom, you can modify the domain that is chosen in the Domain Name field. Dynamic Dynamic Static Custom				
Domain Name	Type in one domain name that you applied previously. Use the drop down list to choose the desired domain.				
User Login Name	Type in the login name that you set for applying domain.				
Password	Type in the password that you set for applying domain.				
IP Source	Choose My WAN IP or My Internet IP as the source for the DDNS profile. My WAN IP My WAN IP My Internet IP O Enable O Disable				
Wildcard and Backup MX	The Wildcard and Backup MX features are not supported for all Dynamic DNS providers. You could get more detailed information from their websites.				
Mail Extender	Type the IP/Domain name of the mail server.				
Force update interval	Set the time for the router to perform auto update for DDNS service.				
Clear	Click it to restore the default settings for such profile.				
Force Update	Click it to force update the profile.				
Apply	Click it to save the configuration.				
Cancel	Click it to exit the dialog without saving the configuration.				

- 3. Enter all the settings and click **Apply**.
- 4. The DDNS Profile has been modified.

Status	Setting	DDNS log					
🔀 Edit 🛛 🛅 Force Update							
Profile	Enable	WAN Profile	Routing Poli	Service Pro	Service Typ	Domain Nar	Force update interval
ddns1	true	wan1	selected_wa	dyndns	Dynamic	draytek	14400
ddns2	false	wan1		dyndns	Dynamic		
ddns3	false	wan1		dyndns	Dynamic		
ddns4	false	wan1		dyndns	Dynamic		
ddns5	false	wan1		dyndns	Dynamic		
ddns6	false	wan1		dyndns	Dynamic		
ddns7	false	wan1		dyndns	Dynamic		
ddns8	false	wan1		dyndns	Dynamic		

4.8.1.3 DDNS Log

This page displays the information related to all DDNS.

	Applications >> Dynamic DNS >> DDNS log	(2			
Auto Logout : 5Min 👻	Status Setting DDNS log				
Quick Start Wizard	Sefresh 💼 Clear All				
Online Status					
WAN	Search	(D)			
LAN	Log				
Routing	2011/01/02 12:51:32 gethostbyname() failed: members.dyndns.org				
NAT	2011/01/02 12:51:22 Connecting to DDNS server				
Firewall	2011/01/02 12:51:21 gethostbyname() failed: members.dyndns.org				
Objects Setting	2011/01/02 12:51:11 Connecting to DDNS server				
User Management	2011/01/02 12:51:10 gethostbyname() failed: members.dyndns.org				
-	2011/01/02 12:51:00 Connecting to DDNS server				
Applications	2011/01/02 12:51:00 User-Agent: Vigor3900 series, Host: members.dyndns.org				
Dynamic DNS	2011/01/02 12:51:00 >>>>> DDNS1 is updateing.<<<<<	/01/02 12:40:59 gethostbyname() failed: members.dyndns.org			
GVRP	2011/01/02 12:40:59 gethostbyname() failed: members.dyndns.org				
IGMP Proxy	/01/02 12:40:49 Connecting to DDNS server				
UPnP	1/01/02 12:40:48 gethostbyname() failed: members.dyndns.org				
Wake on LAN	11/01/02 12:40:38 Connecting to DDNS server				
SMS / Mail Alert Service	2011/01/02 12:40:37 gethostbyname() failed: members.dyndns.org				
Bandwidth Management					
USB Application					
System Maintenance					
Diagnostics					
External Devices					
Product Registration					

4.8.2 GVRP

This function can define the method for the changing the VLAN information among devices. With supporting GVRP, the device can receive the VLAN information coming from other devices.

	Applications >> GVRP	2
Auto Logout : 5Min 👻	GVRP	
Quick Start Wizard		
Online Status	Enable	
WAN	Interface : v ×	
LAN		
Routing	Join Time: 20 Seconds	
NAT		
Firewall		
Objects Setting		
User Management		
Applications		
Dynamic DNS		
GVRP		
IGMP Proxy		
UPnP		
Wake on LAN		
SMS / Mail Alert Service		
Bandwidth Management		
USB Application		
System Maintenance		
Diagnostics		
External Devices		
Product Registration	🗎 Apply	🔕 Cancel

Item	Description		
Enable	Check this box to enable GVRP function.		
Interface	Choose LAN and/or WAN profiles. To clear the selected one, click is to remove current object selections.		
Join Time	Define the time for the system to send GVRP packet to other device. The unit is second.		
Apply	Click it to save the configuration.		

Item	Description
Cancel	Click it to discard the settings configured in this page.

4.8.3 IGMP Proxy

IGMP is the abbreviation of *Internet Group Management Protocol*. It is a communication protocol which is mainly used for managing the membership of Internet Protocol multicast groups.

	A	Applications >> IGMP Proxy
uto Logout : 5Min 💌	11	IGMP Proxy
Quick Start Wizard	ī	
Online Status		Enable
WAN		IGMP Proxy Channel : wan1
LAN		
Routing		Downstream : Ian1 💌 🗙
NAT		IGMP via PPPoE :
Firewall		
Objects Setting		
User Management		
Applications		
Dynamic DNS		
GVRP		
IGMP Proxy		
UPnP		
Wake on LAN		
SMS / Mail Alert Service		
Bandwidth Management		
USB Application		

Item	Description
Enable	Check this box to enable IGMP proxy function.
IGMP Proxy Channel	The application of multicast will be executed through WAN port. In addition, such function is available in NAT mode.
Downstream	Use the drop down list to specify the LAN profile as the destination of data coming from WAN interface (defined in IGMP Proxy Channel).
IGMP via PPPoE	Enable – In LAN, the PC which uses PPPoE connection to communicate with Vigor router can accept the packets transmitted from IGMP proxy.
	Disable –In LAN, the PC which uses PPPoE connection to communicate with Vigor router can NOT accept the packets transmitted from IGMP proxy.
	• IGMP Interface IP – Type the IP address of IGMP server.
Apply	Click it to save the configuration.
Cancel	Click it to discard the settings configured in this page.

4.8.4 UPnP

The **UPnP** (Universal Plug and Play) protocol is supported to bring to network connected devices the ease of installation and configuration which is already available for directly connected PC peripherals with the existing Windows 'Plug and Play' system. For NAT routers, the major feature of UPnP on the router is "NAT Traversal". This enables applications inside the firewall to automatically open the ports that they need to pass through a router. It is more reliable than requiring a router to work out by itself which ports need to be opened. Further, the user does not have to manually set up port mappings or a DMZ. **UPnP is available on Windows XP** and the router provide the associated support for MSN Messenger to allow full use of the voice, video and messaging features.

	Applications >> UPnP		(2)
Auto Logout : 5Min 👻	UPnP		
Quick Start Wizard			
Online Status	Enable		
WAN		4	🔘 Kbps 💿 Mbps
LAN	Download :	1	Crops Comps
Routing	Upload :	512	Kbps Mbps
NAT	External Interface :	wan1 v	
Firewall		Train .	
Objects Setting	Internal Interface :	lan1 👻	
User Management	Max Session :	500	
Applications			
Dynamic DNS			
GVRP			
IGMP Proxy			
UPnP			
Wake on LAN			
SMS / Mail Alert Service			
Bandwidth Management			
USB Application			
System Maintenance			
Diagnostics			
External Devices			
Product Registration			💾 Apply 🛛 🐼 Cancel

Available parameters are listed as follows:

Item	Description
Enable	Check this box to enable UPnP function.
Download	Enter the maximum sustained WAN download speed in kilobits/second. Such information can be requested by UPnP clients.
Upload	Enter the maximum sustained WAN upload speed in kilobits/second. Such information can be requested by UPnP clients.
External Interface	Select a WAN profile for UPnP protocol.
Internal Interface	Select a LAN profile for UPnP protocol.
Max Session	Determine the maximum session number for UPnP function.
Apply	Click it to save the configuration.
Cancel	Click it to discard the settings configured in this page.

The reminder as regards concern about Firewall and UPnP Can't work with Firewall Software



Enabling firewall applications on your PC may cause the UPnP function not working properly. This is because these applications will block the accessing ability of some network ports.

Security Considerations

Activating the UPnP function on your network may incur some security threats. You should consider carefully these risks before activating the UPnP function.

- Some Microsoft operating systems have found out the UPnP weaknesses and hence you need to ensure that you have applied the latest service packs and patches.
- Non-privileged users can control some router functions, including removing and adding port mappings.

The UPnP function dynamically adds port mappings on behalf of some UPnP-aware applications. When the applications terminate abnormally, these mappings may not be removed.

4.8.5 Wake on LAN

A PC client on LAN can be woken up by the router it connects. When a user wants to wake up a specified PC through the router, he/she must type correct MAC address of the specified PC on this web page of **Wake on LAN** of this router.

In addition, such PC must have installed a network card supporting WOL function. By the way, WOL function must be set as "Enable" on the BIOS setting.

4.8.5.1 Wake on LAN

	1	oplications >> Wake on LAN >> Wake on LAN	(2
Auto Logout : 5Min 👻		Wake on LAN Schedule Wake on LAN	
Quick Start Wizard		Configure Bind IP to MAC	
Online Status			
WAN			
LAN			
Routing			
NAT			
Firewall			
Objects Setting			
User Management			
Applications			
Dynamic DNS			
GVRP			
IGMP Proxy			
UPnP			
Wake on LAN			
SMS / Mail Alert Service			
Bandwidth Management			
USB Application		Profile Name	
System Maintenance		Wake By: O IP Address : V LAN Profile : Ian1	🕟 Wake Up 🛚 🏢 Delete
Diagnostics		Mac Address	S wake op III Delete
External Devices			
Product Registration		Note : Wake on LAN integrates with Bind IP to MAC function, only binded PCs can wake up through IP	

Item	Description
Configure Bind IP to MAC	Click it to open the setting page of Bind IP to MAC.
Wake by	Three types provide for you to wake up the bound IP. If you choose Wake by MAC Address, you have to type the correct MAC address of the host in MAC Address boxes. If you choose Wake by IP Address, you have to choose the correct IP address.
	Profile Name – Choose a profile (created by LAN>>Bind



Item	Description
	IP to MAC) from the drop down list.
	IP Address - The IP addresses that have been configured in Firewall>>Bind IP to MAC will be shown in this drop down list. Choose the IP address from the drop down list that you want to wake up.
	MAC Address - Type any one of the MAC address of the bind PCs.
	LAN Profile – Use the drop down list to choose one of the LAN profiles.
Wake Up	Click this button to wake up the selected IP. See the following figure. The result will be shown on the box.
Delete	Click this button to remove all the settings.

4.8.5.2 Schedule Wake on LAN

This page is used to set profiles which will perform WOL based on the conditions specified by Bind Table profile, MAC address, LAN profile and time profile.

o Logout : 5Min 👻	Wake on LAN	Schedule Wake on LAN				
Quick Start Wizard	5 and 14 -	dit 🛅 Delete 🗳 Refi				Profile Number Limit :
Online Status						
WAN	Profile	Enable	Bind Table	MAC Address	Time Object	LAN Profile
LAN				No items to show.		
Routing						
NAT						
Firewall						
Objects Setting						
Jser Management						
pplications						
Dynamic DNS						
GVRP						
IGMP Proxy						
UPnP						
Wake on LAN						
SMS / Mail Alert Service						
landwidth Management						
JSB Application						
System Maintenance						
Diagnostics						
External Devices						

Item	Description
Add	Add a new schedule profile.
Edit	Modify the selected schedule profile.
	To edit the profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.
Delete	Remove the selected schedule profile.
	To delete a profile, simply select the one you want to delete and click the Delete button.
Refresh	Renew current web page.

Profile	Display the name of the profile.
Enable	Display the status of profile (true means Enable/ false means Disable).
Bind Table	Display the profile name from Bind Table.
MAC Address	Display the MAC address of the computer to be woke on LAN.
Time Object	Display the name of the time object selected for WOL.
LAN Profile	Display the name of LAN profile.

How to create a new schedule profile for WOL

- 1. Open Applications>>Wake on LAN and click the Schedule Wake on LAN tab.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile :	Exam_1	
🗹 Enable		
Mode :	🔵 Bind Table 💿 MAC /	Address
MAC Address	00:57:7f:12:dd:30	
Time Object :	*	
LAN Profile :	lan1	

Item	Description
Profile	Type a name for such profile.
Enable	Check the box to enable such profile.
Mode	Choose the type for data input, Bind Table or MAC Address .
Bind Table	It is available when Bind Table is selected as Mode . Choose one of the profiles listed in Bind Table.
MAC Address	It is available when MAC Address is selected as Mode . If MAC Address is selected as Mode, you have to type MAC address in this field. Then only the PC with such address will be waken up remotely.
Time Object	Choose time object profile for waking up the computer in specified time. Time object profiles can be configured in Object Settings>>Time Object previously.
LAN Profile	Choose one of the LAN profiles. The computers specified in the selected LAN profile will be waken up remotely.



Apply	Click it to save the configuration and exit the page.
Cancel	Click it to exit the dialog without saving the configuration.

4. Enter all of the settings and click **Apply**.

4.8.6 SMS / Mail Alert Service

The function of SMS (Short Message Service)/Mail Alert is that Vigor router sends a message to user's mobile or e-mail box through specified service provider to assist the user knowing the real-time abnormal situations.

Vigor router allows you to set up to **10** SMS profiles which will be sent out according to different conditions.

4.8.6.1 SMS Alert Service

This page allows you to specify SMS provider, who will get the SMS, what the content is and when the SMS will be sent.

to Logout : Off 🔍 👻	SMS Alert Service	Mail Alert Service			
Quick Start Wizard	🔀 Edit 🗳 Refi	och.			
Online Status					
WAN	Index	Enable	SMS Provider	Recipient	Notify Profile
LAN	1	false			
Routing	2	false			
NAT	3	false			
Firewall	4	false			
Objects Setting	5	false			
User Management	6	false			
Applications	7	false			
Dynamic DNS	8	false			
GVRP	9	false			
IGMP Proxy	10	false			
UPnP					
Wake on LAN					
SMS / Mail Alert Service					
Bandwidth Management					
USB Application					
System Maintenance					
Diagnostics					
External Devices					

Each item will be explained as follows:

Item	Description
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.
Refresh	Renew current web page.
Index	Display the index number (from 1 to 10) of the profile.
Enable	Display the status of the profile. False means disabled; True means enabled.
SMS Provider	Display the name of the SMS provider.
Recipient	Display the one who will receive the SMS.
Notify Profile	Display the name of the notify profile.

How to edit the SMS alert service profile

- 1. Open **Applications>> SMS/Mail Alert Service** and click the **SMS Alert Service** tab.
- 2. Choose one of the index numbers and click the **Edit** button.
- 3. The following dialog will appear.

Index : Index Enable	1	
SMS Provider :	Line_down	~
Recipient :		
Notify Profile :	Notify_attack	×

Item	Description
Enable	Check this box to enable such profile.
SMS Provider	Choose the SMS provider object profile from the drop down list. Such profiles can be created from Object Setting>>SMS Service Object.
Recipient	Type the cell phone number to receive the SMS.
Notify Profile	Choose a profile (specify the timing for sending SMS) from the drop down list. Such profiles can be created from Object Setting>>Notification Object .
Apply	Click it to save the configuration and exit the page.
Cancel	Click it to exit the dialog without saving the configuration.

- 4. Enter all the settings and click **Apply**.
- 5. The SMS alert service profile has been modified.

SMS Alert Service Mail Alert Service					
1	true	Line_down	123456789	Notify_attack	
2	false				
3	false				
4	false				



4.8.6.2 Mail Alert Service

This page allows you to specify Mail Server profile, who will get the notification e-mail, what the content is and when the message will be sent.

to Logout : Off 🛛 👻	SMS Alert Service	Mail Alert Service			
Quick Start Wizard	🔀 Edit 🛭 😒 Refi	anh .			
Online Status					
WAN	Index	Enable This Profile	Mail Profile	Recipient	Notify Profile
LAN	1	false			
Routing	2	false			
NAT	3	false			
Firewall	4	false			
Objects Setting	5	false			
User Management	6	false			
Applications	7	false			
Dynamic DNS	8	false			
GVRP	9	false			
IGMP Proxy	10	false			
UPnP					
Wake on LAN					
SMS / Mail Alert Service					
Bandwidth Management					
USB Application					
System Maintenance					
Diagnostics					
External Devices					

Each item will be explained as follows:

Item	Description
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.
Refresh	Renew current web page.
Index	Display the index number (from 1 to 10) of the profile.
Enable This Profile	Display the status of the profile. False means disabled; True means enabled.
Mail Profile	Display the name of the mail profile.
Recipient	Display the one who will receive the mail alert.
Notify Profile	Display the name of the notify profile.

How to edit the mail alert service profile

- 1. Open **Applications>> SMS/Mail Alert Service** and click the **Mail Alert Service** tab.
- 2. Choose one of the index numbers and click the **Edit** button.
- 3. The following dialog will appear.

Index :	1	
🗹 Enable Th	is Profile	
Mail Profile :	Mail_notify	~
Recipient :		
Notify Profile	notify_attack	~
Notify Profile	i notify_attack	*

Available parameters are listed as follows:

Item	Description	
Enable This Profile	Check this box to enable such profile.	
Mail Profile	Choose the mail service object profile from the drop down list.	
	Such profiles can be created from Object Setting>>Mail Service Object .	
Recipient	Type the e-mail address for receiving the mail.	
Notify Profile	Choose a profile (specify the timing for sending SMS) from the drop down list.	
	Such profiles can be created from Object Setting>>Notification Object.	
Send A Test Mail	Click it to send a test mail.	
Apply	Click it to save the configuration and exit the page.	
Cancel	Click it to exit the dialog without saving the configuration.	

- 4. Enter all the settings and click **Apply**.
- 5. The mail alert service profile has been modified.

plications >> SN	IS / Mail Alert Service >> Mail	Alert Service		
SMS Alert Servi	ice Mail Alert Service			
🔀 Edit	📢 Refresh			
Index	Enable This Profile	Mail Profile	Recipient	Notify Profile
1	true	Mail_Notify	carrie@yahoo.com	Notify_attack
2	false			
3	false			
4	false			

4.9 Bandwidth Management

Below shows the menu items for Bandwidth Management.

Bandwidth Management	l
Quality of Service	
QoS Rule	
Sessions Limit	
Bandwidth Limit	1
	1

The QoS (Quality of Service) guaranteed technology in the Vigor router allows the network administrator to monitor, analyze, and allocate bandwidth for various types of network traffic in real-time and/or for business-critical traffic. Thus, timing-sensitive applications will not be impacted by web surfing traffic or other non-critical applications, such as file transfer. Without QoS-guaranteed control, there would be virtually no way to prioritize users/services or guarantee allocation of finite bandwidth resources to network or servers for supporting timing-sensitive and mission-critical network applications, such as VoIP (Voice over IP) and online gaming applications.

Differentiated quality of service is therefore one of the most important issues over the Internet infrastructure. In Vigor router, DSCP (Differentiated Service Code Point) support is also taken into consideration in the design of the QoS-guaranteed control module.

4.9.1 Quality of Service

The QoS function handles incoming and outgoing classes independently. Users can configure incoming or outgoing separately without any impact on the other.

4.9.1.1 QoS Status

This page displays current QoS Status.

	Bandwidth M	lanagement >> Qual	ty of Service >> QoS Status		(2)
Auto Logout : 5Min 💌	QoS Stat	us Software QoS	Hardware QoS		
Quick Start Wizard	0.05	3 WAN	Status		
Online Status		Hardware QoS)			
WAN	2 wan				
LAN	3 wan				
Routing	4	2			
NAT	5				
Firewall	6				
Objects Setting	7				
User Management	,				
Applications					
Bandwidth Management					
Quality of Service					
QoS Rule					
Sessions Limit					
Bandwidth Limit					
USB Application					
System Maintenance					
Diagnostics					
External Devices					
Product Registration					

4.9.1.2 Software QoS

This page displays current software QoS status and allows you to edit related settings, including bandwidth, queue (high, medium, normal and low) for each QoS WAN.

Auto Logout : 5Min 👻	G	208 Status Software (QoS Hardware QoS			
Quick Start Wizard		🔀 Edit 🛛 🐼 Refres	h			
Online Status				0.1.1.1.5.0.1.1.W	1	harrie Bredelau
WAN		QoS WAN	Outgoing Status	Outgoing Bandwidth	Incoming Status	Incoming Bandwidth
LAN	1	wan1	disable	100000	disable	100000
Routing	2	wan2	disable	100000	disable	100000
NAT	3		disable	100000	disable	100000
Firewall	4		disable	100000	disable	100000
Objects Setting	5		disable	100000	disable	100000
User Management	6		disable	100000	disable	100000
Applications						
Bandwidth Management						
Quality of Service						
QoS Rule						
Sessions Limit						
Bandwidth Limit						
USB Application						
System Maintenance						
Diagnostics						
External Devices						
Product Registration						

Available parameters are listed as follows:

Item	Description
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.
Refresh	Renew current web page.
QoS WAN	Display the WAN interface used for QoS.
Outgoing Status	Display bandwidth for the outgoing data is enabled or disabled.
Outgoing Bandwidth	Display the total number of transmission rate for the outgoing data.
Incoming Status	Display the total number of transmission rate for the incoming data.
Incoming Bandwidth	Display bandwidth for the incoming data is enabled or disabled.

How to edit a QoS Profile

Follow the steps below to create a new maintenance profile.

- 1. Click one of the QoS WAN profiles to select the one you want to edit.
- 2. Click Edit.



Qo	S Status	Software QoS	Hardware QoS
	🔀 Edit	🖈 Refresh	
	QoS WA	N	Outgoing Status
1	wan1		disable
2	wan2		disable
3			disable
4			disable
5			disable

3. The QoS settings page appears.

QoS		->
QoS WAN :	wan1	*
– Outgoing —		
~	<u></u>	
Status :	🔵 Enable 💿 Disabl	
Bandwidth	100000	💿 Kbps 🔘 Mbps
High :	40	
Medium :	30	
Normal :	20	(Default Queue)
Low :	10	
– Incoming —		
-	🔿 Enable 🔿 Disabl	٩
Status :	◯Enable ⊙Disabl	
-	100000	le 💿 Kbps 🔵 Mbps
Status :		
Status : Bandwidth :	100000	
Status : Bandwidth : High :	40	
Status : Bandwidth : High : Medium :	100000 40 30	💿 Kbps 🔘 Mbps
Status : Bandwidth : High : Medium : Normal :	100000 40 30 20	💿 Kbps 🔘 Mbps

Item	Description	
QoS WAN	Use the drop down list to set WAN interface for QoS by choosing one of the WAN interfaces.	
Status	Enable – Click it to enable such profile. Disable – Click it to disable the QoS profile.	
Bandwidth	Type the number as the total transmission rate for the outgoing /incoming data. The range can be set from 64000 to 10000000. Click the unit (Kbps or Mbps) for such rate.	

High/Medium/ Normal/Low	There are several available outgoing queues. All queues in the data group to be initialized with weights of zero, resulting in a strict service to completion (STC) mechanism across all queues.0. Type the weight of queues in bytes, range from 0 to 1000000.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

4. Enter all of the settings and click **Apply**.

4.9.1.3 Hardware QoS

This page allows you to configure bandwidth of data and voice signals transmission for outgoing data and incoming data through hardware interface.

Note: The difference between Hardware QoS and Software QoS is that only one WAN interface is supported by Hardware QoS. However, there are six WAN interfaces supported by Software QoS.

	Bandwidth Manager	nent >> Quality of Service >>	Hardware QoS	2
Auto Logout : 5Min 👻	QoS Status S	oftware QoS Hardware QoS	3	
Quick Start Wizard	QoS WAN :	~		
Online Status				
WAN	Outgoing —			יך
LAN	Status :	🔵 Enable 💿 Disable		
Routing	Bandwidth	0	🔘 Kbps 🔘 Mbps	
	Danawiadi			
Firewall	High :	40		
Objects Setting	Medium :	30		
User Management	Normal :	20		
Applications	Low :	10		
Bandwidth Management		10		
Quality of Service	Incoming			=
QoS Rule	Status :	🔍 Enable 🔎 Disable		
Sessions Limit				
Bandwidth Limit	Bandwidth :	0	○ Kbps ● Mbps	
USB Application	High :	40		
System Maintenance	Medium :	30		
Diagnostics	Normal :	20		
External Devices				
Product Registration	Low :	10		
	Note:			
	1 Refore enabl	lo ∩n© vnii chniild toet tho ro	al handwidth firet. On9 may not work nronerly if the handwidth is not accurate	

Available parameters are listed as follows:

Item	Description	
QoS WAN	Use the drop down list to choose the WAN interface to apply hardware QoS.	
Status	Enable – Click it to enable QoS for outgoing/incoming traffic.	
	Disable – Click it to disable QoS for outgoing/incoming traffic.	
Bandwidth	Type the number as the total transmission rate for the outgoing /incoming data. The range can be set from 64 to 1000000 kbps. Click the unit (Kbps or Mbps) for such rate.	
High/Medium/ Normal/Low	It determines the weight for each queue. All queues in the data group to be initialized with weights of zero, resulting in a strict service to completion (STC) mechanism across all	

	queues.0. Type the weight of queues in bytes, range from 0 to 1000000.
Apply	Click it to save and exit the dialog.
Cancel	Click it to exit the dialog without saving anything.

Enter all of the settings and click **Apply**.

4.9.2 QoS Rule

There are 32 filter rules that can be configured in such page for incoming and outgoing data.

4.13.2.1 QoS Rule

to Logout : 5Min 👻	QoS Rule	VoIP QoS D	SCP Re-Tag						
Quick Start Wizard	🚺 Add	🕻 Edit 前 Delete	(Pename	Refresh					Profile Number Limit : 3
Online Status			-						
WAN	Profile	Enable	Local IP Object	Remote IP 0	Service Type	Match Type	DSCP	TOS	Traffic Class
LAN					No items to sh	ow.			
Routing									
NAT									
Firewall									
Objects Setting									
User Management									
Applications									
Bandwidth Management									
Quality of Service									
QoS Rule									
Sessions Limit									
Bandwidth Limit									
USB Application									
System Maintenance									
Diagnostics									
External Devices									
Product Registration									

Available parameters are listed as follows:

Item	Description	
Add	Add a new rule profile.	
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.	
Delete	Remove the selected profile. To delete a profile, simply select the one you want to delete and click the Delete button.	
Refresh	Renew current web page.	
Rename	Allow to modify the selected profile name.	
Profile Number Limit	Display the total number (32) of the profiles to be created.	
Profile	Display the name of the profile for the filter.	
Enable	Display the status of the profile. False means disabled; True means enabled.	
Local IP Object	Display the source IP address for the filter.	

Remote IP Object	Display the destination IP address for the filter.
Service Type	Display the service type (e.g., IKE, HTTP, AUTH and etc) for the filter.
Match Type	Display the match type (e.g., TOS or DSCP) for the filter.
DSCP	Display the setting of DSCP.
TOS	Display the setting of TOS.
Traffic Class	Display the queue number that such filter is categorized.

How to add a QoS rule profile

- 1. Open Bandwidth Management>> QoS Rule.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile		
Profile :	Fast	
	☑ Enable	
Match Type :	DSCP	
	Default	
	Normal Service	
Traffic Class :	Normal	
	elected in a category, the case of 'Any' is applied	
Firewall O		
🗏 Local Addre	SS	
Local IP O	oject	
🕨 Local IP G	oup	
Remote Add	ress	
🕨 Remote IF	Object	
🕨 Remote IF	Group	
Service Typ	9	
Service Ty)e	
Service Gr	pup	
		🔚 Apply 🔕 Cance

Item	Description	
Profile	Type the name of the filter profile.	
Enable Check this box to enable such profile.		
Match Type	Use the drop down list to specify a suitable match type.	

	DSCP	*		
	None DSCP			
	TOS			
	103			
DSCP	It is available who	en DSCP is selected as the Match type.		
		AF Class1 [High Drop]		
		AF Class2 [Low Drop]		
		AF Class2 [Medium Drop]		
		AF Class2 [High Drop]		
		AF Class3 [Low Drop]		
		AF Class3 [Medium Drop]		
		AF Class3 [High Drop]		
		AF Class4 [Low Drop]		
		AF Class4 [Medium Drop]		
	DSCP :	IP precedence 7		
TOS	It is available whe	en TOS is selected as the Match type.		
	Normal-Service	~		
	Normal-Service			
Traffic Class		e class to category the packets matching n configured as above. High is the highest; vest.		
Local Address	Click on the left side of the Source IP Object/Source IP Group profile. Check the object profile(s) as the source target.			
	Source P Object: Profile Address Type Start IP Address End IP Address Subnet Mask Edit P_object_1 Bubnet 392 168.1.78 255 255 255 0			
	the IP objects for	– Use the drop down list to choose one of such rule profile.		
	Local IP Group the IP group for s	– Use the drop down list to choose one of uch rule profile.		
	If you want to cree open the followin	eate a new IP object, simply click 🚳 to g dialog.		

	Local IP Object
	Profile : Address Type : Single v Start IP Address :
	💾 Apply 🔇 Cancel
	 Profile – type a new name for such IP object. Address Type –Choose the address type (Single or Range) for such rule. Each type will bring different settings for configuration.
	• Start IP Address - Type the IP address of the starting point for such profile.
	• End IP Address - Type the IP address of the ending point for such profile if you choose Range as Address Type .
	• Subnet Mask – Choose the subnet mask from the drop down list if you choose Subnet as Address Type .
Remote Address	 Click on the left side of the Remote IP Object/ Remote IP Group profile. Check the object profile(s) as the destination target. Remote IP Object – Use the drop down list to choose one of the destination IP objects for such rule profile. Remote IP Group – Use the drop down list to choose one of the destination IP group for such rule profile.
	If you want to create a new IP object, simply click to open the following dialog.
	Remote IP Object
	Profile :
	🔚 Apply 🚫 Cancel
	 Profile – Type a new name for such IP object. Address Type – Choose the address type (Single or Range) for such rule. Each type will bring different settings for configuration. Start ID Address. Type the ID address of the starting.
	• Start IP Address - Type the IP address of the starting point for such profile.

	 End IP Address - Type the IP address of the ending point for such profile if you choose Range as Address Type. Subnet Mask – Choose the subnet mask from the drop down list if you choose Subnet as Address Type.
Service Type	 Service Type - Choose one of the service types from the drop down list. If you want to create a new service type, simply click of open the following dialog. If you want to create a new service type, simply click of open the following dialog. If you content to the following dialog. Profile - type a new name for such service type. Protocol - There are two options: TCP, UDP and TCP/UDP. Select the protocol that you want to use. Source Port Start /End - Type the start /end number for the port range of the source port for such filter. Destination Port Start / End - Type the start /end
	number for the port range of the destination port for such filter.
	Clipte it to some the configuration and wit the name
Apply	Click it to save the configuration and exit the page.

- 4. Enter all the settings and click **Apply**.
- 5. A QoS rule profiler has been created.

4.9.2.2 VoIP QoS

When this feature is enabled, the VoIP SIP/UDP packets will be sent with highest priority during the process of data transmission.

	Bandwidth Management >> QoS Rule >> VoIP QoS	(2)
Auto Logout : 5Min 💌	QoS Rule VolP QoS DSCP Re-Tag	
Quick Start Wizard		
Online Status	Enable : Enable · Enabl	
WAN		
LAN	SIP UDP Port: 5060 (Default:5060)	
Routing		
NAT		
Firewall		
Objects Setting		
User Management		
Applications		
Bandwidth Management		
Quality of Service		
QoS Rule		
Sessions Limit		
Bandwidth Limit		
USB Application		
System Maintenance		
Diagnostics		
External Devices		
Product Registration		
	Apply	🔇 Cancel

Each item will be explained as follows:

Item	Description
Enable	Enable - Click it to enable VoIP QoS function.
SIP UDP Port	Set a port number used for SIP.
Apply	Click it to save and exit the dialog.
Cancel	Click it to discard the settings configured in this page.

4.9.2.3 DSCP Re-Tag

Packets coming from LAN IP can be retagged through QoS setting. When the packets sent out through WAN interface, all of them will be tagged with certain header and that will be easily to be identified by server on ISP.

	Bandwidth Management >> QoS Rule >> DSCP Re-Tag	(2)
Auto Logout : 5Min 👻	QoS Rule VolP QoS DSCP Re-Tag	
Quick Start Wizard		
Online Status	Enable :	
WAN		
LAN	High : v	
Routing	Medium : None 👻	
NAT	Normal : None 💌	
Firewall	Low : None V	
Objects Setting	AF Class1 [Medium Drop] - UXUC	
User Management	AF Class1 [High Drop] - 0x0E IP precedence 2 - 0x10	
Applications	AF Class2 [Low Drop] - 0x12	
Bandwidth Management	AF Class2 [Medium Drop] - 0x14 AF Class2 [High Drop] - 0x16	
Quality of Service	IP precedence 3 - 0x18	
QoS Rule	AF Class3 [Low Drop] - 0x1A	
Sessions Limit	AF Class3 (Medium Drop) - 0x1 C AF Class3 (High Drop) - 0x1 E	
Bandwidth Limit	IP precedence 4 - 0x20	
USB Application	AF Class4 (Low Drop) - 0x22	
System Maintenance	AF Class4 [Medium Drop] - 0x24 AF Class4 [High Drop] - 0x26	
Diagnostics	IP precedence 5 - 0x28	
External Devices	EF Class - 0x2E	
Product Registration	IP precedence 6 - 0x30 IP precedence 7 - 0x38	
	None	
		💾 Apply 🛛 🙆 Cancel

Each item will be explained as follows:

Item	Description
Enable	Enable – Click it to enable DSCP Re-Tag function.
High / Medium / Normal / Low	There are four queues allowed for QoS control. Use the drop down list to specify the heading for each queue which will be applied to the packets tagged.
Apply	Click it to save and exit the dialog.
Cancel	Click it to discard the settings configured in this page.

4.9.3 Sessions Limit

A PC with private IP address can access to the Internet via NAT router. The router will generate the records of NAT sessions for such connection. The P2P (Peer to Peer) applications (e.g., BitTorrent) always need many sessions for procession and also they will occupy over resources which might result in important accesses impacted. To solve the problem, you can use limit session to limit the session procession for specified Hosts.

In the **Bandwidth Management** menu, click **Sessions Limit** to open the web page.

	Bandwidth Manager	ment >> Sessions Limit						2
Auto Logout : 5Min 💌	Sessions Limit]						
Quick Start Wizard	🖾 Add 😼 E	dit 🍈 Delete 🛛 😭 Move Up	R Movo Dr	wn 📢 Rename 🔇 I	Pofrach		Profile Nun	ber Limit : 32
Online Status		ait III Delete Z Move Op	- move Di	win 🔥 remaine 🤿 i	tellesii			
WAN	Profile	Enable Li	mit	Source IP Object	Source IP Group	Time Object	Time Grou	p
LAN				No items to sho	w.			
Routing								
NAT								
Firewall								
Objects Setting								
User Management								
Applications								
Bandwidth Management								
Quality of Service	Default Sess	ion Limit :	0	Enable 💿 Disable				
QoS Rule	Default Max 9	Sessions	100	0				
Sessions Limit	Use Default N	lessane	۲	Enable 🔍 Disable				
Bandwidth Limit	000 001044	nooodgo .	_	-				
USB Application				ml> <head><title>Access
l>
<g><font face=arial</td><td></td><td></td><td></td><td></td></tr><tr><td>System Maintenance</td><td>Defent Course</td><td></td><td>
d></td><td>>have reached the maxim</td><td>ium number of permit</td><td>ed Internet session:</td><td>s.
<font</td><td>Q</td></tr><tr><td>Diagnostics</td><td>Default Conn</td><td>ection Limit Administration M</td><td>CUI</td><td>or=red>Please close
Contact your syste</td><td></td><td></td><td></td><td><u>~</u></td></tr><tr><td>External Devices</td><td></td><td></td><td></td><td>vered by </td><td></td><td></td><td></td><td></td></tr><tr><td>Product Registration</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>💾 Apply</td><td>🔇 Cancel</td></tr></tbody></table></title></head>				

Each item will be explained as follows:

Item	Description				
Add	Add a new profile.				
Edit	Modify the selected profile.				
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.				
Delete	Remove the selected profile.				
	To delete a profile, simply select the one you want to delete and click the Delete button.				
Move Up	Change the order of selected profile by moving it up.				
Move Down	Change the order of selected profile by moving it down.				
Rename	Allow to modify the selected profile name.				
Refresh	Renew current web page.				
Profile	Display the name of the profile.				
Enable	Display the status of the profile. False means disabled; True means enabled.				
Limit	Display the maximum session number allowed for the profile.				
Source IP Object	Display the source IP object profile name.				

Source IP Group	Display the source IP group profile name.
Time Object	If no time schedule is set, None will be shown in this field.
Time Group	Display the Time group profile selected for such application profile.
Default Session Limit	Display the default session number used for each computer in LAN.
Default Max Sessions	Display the default maximum session number used for each computer in LAN.
Use Default Message	 Enable – Use the default message to display on the page that the user tries to access into the blocked web page Disable – Type the message manually to display on the page that the user tries to access into the blocked web page.
Default Connection Limit Administration Message	Such field is available when you disable the function of Use Default Message . The message will display on the user's browser when he/she tries to access the blocked web page.
Apply	Click it to save and exit the dialog.
Cancel	Click it to discard the settings configured in this page.

How to add a session limit profile

- 1. Open Bandwidth Management>> Sessions Limit.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

Profile	- 2
Profile :	
Max Sessions : 1000	
f no object is selected in a category, the case of 'Any' is applied	
Firewall Objects	
🖃 general target	
Time Object	
Time Group	
🖃 source target	
Source IP Object	
Source IP Group	
	🔜 Anala - 🔿 Anala



Item	Description					
Profile	Type the name of the profile.					
Enable	Check this box to enable such profile.					
Max Sessions	Defines the available session number for each host in the specific range of IP addresses. If you do not set the session number in this field, the system will use the default session limit for the specific limitation you set for each index. This field cannot be typed with "0", otherwise the profile cannot be saved.					
general target	Time Object - Click the triangle icon ▶ to display the profile selection box. Choose a schedule object profile to be applied on such rule. You can click ▶ to create another new time object profile. While no target has been specified, firewall rules are applied to Any object Firewal Objects general target Time Object Frequency Start Date Start Time En Time Group - Click the triangle icon ▶ to display the profile selection box. Choose a schedule group profile to be applied on such rule. You can click ▶ to create another new time group profile.					
source target	 Source IP Object - Click the triangle icon ▶ to display the profile selection box. Choose one or more IP object profiles from the drop down list. The selected profile will be treated as source target. You can click to create another new IP object profile. Source IP Group - Click the triangle icon ▶ to display the profile selection box. Choose one or more IP group profiles from the drop down list. The selected profile will be treated as source target. You can click the triangle icon ▶ to display the profile selection box. Choose one or more IP group profiles from the drop down list. The selected profile will be treated as source target. You can click to create another new IP group profile. 					
Apply	Click it to save the configuration and exit the dialog.					
Cancel	Click it to exit the dialog without saving the configuration.					

- 4. Enter all the settings and click **Apply**.
- 5. A session limit profile has been created.

Sessions Lim	it						
🚯 Add 🌖	🗶 Edit 🛛 前 Delete	< Refresh	숨 Move Up	🐣 Mo	ove Down 🛛 📢 Re	name	
Profile	Enable	Limit	Source IP	Object	Source IP Group	Time Object	Time Gro
session 1	enable	1000	1F IPS				



4.9.4 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 Limit Bandwidth to make the bandwidth usage more efficient.

In the **Bandwidth Management** menu, click **Bandwidth Limit** to open the web page.

	Bandwidth Management >>	Bandwidth Limit					2
Auto Logout : Off 🛛 🗹	Bandwidth Limit						
Quick Start Wizard	🚳 Add 🏏 Edit 🛅 De	elete 🔺 Move Up 🔻 Move	Down (a)	Pename 🔥 Ri	ofrach	Profile	Number Limit : 32
Online Status				-			
WAN	Profile Enable	RX Limit (TX Limit (Mode	Source IP	. Source IP	. Time Object	Time Group
LAN			No items to) show.			
Routing							
NAT							
Firewall							
Objects Setting							
User Management							
Applications							
Bandwidth Management	Default TX Limit :	0	(bps 💿 Mb	ps			
Quality of Service		-	-				
QoS Rule	Default RX Limit :	0	(bps 💿 Mb	ops			
Sessions Limit	Enable Smart Band	dwidth Limit (Will apply to the I	.AN IP not in	n Limitation List،	whose sessio	n number exce	eds the threshold)
Bandwidth Limit	Sessions Threshold :	1000					
USB Application	TX Limit :	5000	(bps 🔘 Mb	ps			
System Maintenance			-				
Diagnostics	RX Limit :	5000	(bps 🔘 Mb	ps			
External Devices							
Product Registration						🗎 A	pply 🛛 😵 Cancel
	4		III)

Each item will be explained as follows:

Item	Description
Add	Add a new profile.
Edit	Modify the selected profile.
	To edit a profile, simply select the one you want to modify and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.
Delete	Remove the selected profile.
	To delete a profile, simply select the one you want to delete and click the Delete button.
Move Up	Change the order of selected profile by moving it up.
Move Down	Change the order of selected profile by moving it down.
Rename	Allow to modify the selected profile name.
Refresh	Renew current web page.
Profile	Display the name of the bandwidth limitation profile.
Enable	Display the status of the profile. False means disabled; True means enabled.
RX Limit	Display the limitation for the speed of the downstream.
TX Limit	Display the limitation for the speed of the upstream.
Mode	Display the mode selection (Each/Shared) of the selected profile.
Source IP Object	Display the source IP object profile name.

Source IP Group	Display the source IP group profile name.
Time Object	If no time schedule is set, None will be shown in this field.
Time Group	Display the Time group profile selected for such application profile.
Default TX/RX Limit	The default limit will apply to LAN IP(s) not in the above configuration profiles
	Default TX Limit – Define the limitation for the speed of the upstream.
	Default RX Limit –Define the limitation for the speed of the downstream.
Enable Smart Bandwidth Limit	Check this radio button to configure the default limitation for bandwidth for any LAN IP not included in the Limitation List.
Session Threshold	When session number exceeds the set threshold, Smart Bandwidth limit will work.
TX Limit	Define the speed of the upstream for Smart Bandwidth Limit. If you do not set the limit in this field, the system will use the default speed for the data transmission.
RX Limit	Define the speed of the downstream for Smart Bandwidth Limit. If you do not set the limit in this field, the system will use the default speed for the data transmission
Apply	Click it to save and exit the dialog.
Cancel	Click it to discard the settings configured in this page.

How to add a bandwidth limit profile

- 1. Open Bandwidth Management>>Bandwidth Limit.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

ofile					-
Profile :					
	Enable				
TX Limit :	1024	💿 Kbps 🔵 Mb	ps		
RX Limit :	1024	💿 Kbps 🔵 Mb	ps		
Mode :	💿 Each 🔘 Sh	ared			
no objecti	is selected in a (ategory, the case of 'Any' i:	s applied		
	all Objects				
general	target				
Time	Object				
🕨 Time	Group				
source	target				
Source	e IP Object				
Source	e IP Group				
				🖬 Apply	y 🛛 🙆 Cance

Item	Description
Profile	Type the name of the profile.
Enable	Check this box to enable such profile.
TX Limit(Kbps)	Define the limitation for the speed of the upstream. If you do not set the limit in this field, the system will use the default speed for the specific limitation you set for each index. Do not type the value with "0", otherwise the profile cannot be saved.
RX Limit(Kbps)	Define the limitation for the speed of the downstream. If you do not set the limit in this field, the system will use the default speed for the specific limitation you set for each index. Do not type the value with "0", otherwise the profile cannot be saved.
Mode	Select Each to make each IP within the range of Start IP and End IP having the same speed defined in TX limit and RX limit fields; select Shared to make all the IPs within the range of Start IP and End IP share the speed defined in TX limit and RX limit fields.



general target	Time Object - Click the triangle icon ▶ to display the profile selection box. Choose a schedule object profile to be applied on such rule. You can click ♠ to create another new time object profile. While no target has been specified, firewall rules are applied to Any object @general target @general target @Tme Object @general target @Tme Object @general target @general target @Tme Object @general target @Tme Object @general target @general targe
source target	 Source IP Object - Click the triangle icon ▶ to display the profile selection box. Choose one or more IP object profiles from the drop down list. The selected profile will be treated as source target. You can click ♥ to create another new IP object profile. Source IP Group - Click the triangle icon ▶ to display the profile selection box. Choose one or more IP group profiles from the drop down list. The selected profile will be treated as source target. You can click ♥ to create another new IP group profiles from the drop down list. The selected profile will be treated as source target. You can click ♥ to create another new IP group profile.
Apply	Click it to save the configuration and exit the dialog.
Cancel	Click it to exit the dialog without saving the configuration.

- 4. Enter all the settings and click **Apply**.
- 5. A bandwidth limit profile has been created.

🕼 Add	🔀 Edit 🚺	👖 Delete 🛛 📢 I	Refresh 😭	Move Up	🐣 Move Down	🔩 Rename		
Profile	Enable	RX Limit (TX Limit (K.	Mode	Source IP	Source IP	Time Object	Time G
Band_1	enable	1024	1024	Each				

4.10 USB Application

By way of Vigor router, clients on LAN can access, write and read data stored in USB storage disk with different applications. After setting the configuration in **USB Application**, you can type the IP address of the Vigor router and username/password created in **User Management>>User Profile** on the client software. Then, the client can use the FTP site (USB storage disk) through Vigor router.

Note: USB ports on Vigor router are allowed to connect to USB modem. Models of the modems supported by Vigor router can be seen from **USB Application>>Modem Support List.** For network connection via USB modem, refer to **WAN>>General Setup** for detailed information.

USB Application	
Disk Status	
FTP Server	
SAMBA Server	
Printer	
Temperature Sen	sor
Modern Support L	ist

4.10.1 Disk Status

This page is to monitor the status for the users who accessing into FTP server (USB storage disk) via the Vigor router. In addition, the status of the USB modem or USB printer connecting to Vigor router can be checked from such page.

uto Logout : Off 🛛 👻	Dials Otatua					
	Disk Status					
Quick Start Wizard	🦈 Refresh 🛛 👗 Re	estart Devices				
Online Status	Search	👁 Search	👒 Search	Search	Search	1
WAN LAN	Manufacturer	Model	Size	Free Capacity	Status	-
	manaratarat	moder			- Clarate	
Routing			No items to s	show.		
NAT						
Firewall						
Objects Setting						
User Management						
Applications						
Bandwidth Management 🗉 🖌						
USB Application						
Disk Status						
FTP Server						
SAMBA Server						
Printer						
Temperature Sensor						
Modern Support List						
System Maintenance						
Diagnostics						
External Devices						
Product Registration						

Item	Description
Refresh	Click it to refresh current USB connection status. The result will be shown on the screen immediately.
Restart Devices	Click it to restart the USB device.
Manufacturer	Display the manufacturer of the USB device.
Model	Display the type of the USB device.



Size	Display the total disk capacity of the USB device.
Free Capacity	Display the remaining disk space of the USB device.
Status	Display the status of the USB device.
(Remove Icon)	At present, FAT, EXT2, EXT3 USB format can be supported by Vigor router. If such USB is inserted into the USB slot, the Status field will display "In Use" and the remove icon will appear on the screen. If you want to remove the USB disk, simply click this icon.

4.10.2 FTP Server

This page allows you to edit FTP user setting for FTP users. Any user who wants to access into the USB storage disk must type the same username and password configured for the user profile. Before adding or modifying settings in this page, please insert a USB storage disk first.

At present, the Vigor router can support USB storage disk with versions of FAT16/32 and EXT2/3 only. Therefore, before connecting the USB storage disk into the Vigor router, please make sure the memory format for the USB storage disk is FAT16/32 or EXT2/3.

All of the profiles displayed here are created by **User Management>>User Profile**, with **Allow FTP Server Login** enabled. The **History** tab displays FTP connection status.

USB Application >> FTP Ser	ver >> FTP Sei	rver		
Auto Logout : Off	sion Status	History		
Quick Start Wizard				
Online Status				
WAN User Name	Volume	9	Path	Access Rights
LAN		No ite	ms to show.	
Routing				
NAT				
Firewall				
Objects Setting				
User Management				
Applications				
Bandwidth Management 🗉 🔤				
USB Application				
Disk Status Enable FTP				
FTP Server Port :		21	Default:21	
SAMBA Server	Connections			
Plinter		·		
Temperature Sensor Maximum Connection	ns per IP :	10		
Modem Support List				
System Maintenance Note :				
Diagnostics You need to enable ftp ac	cess in User P	rotile first.		
External Devices				💾 Apply 🛛 😪 Cance
Product Registration				

Item	Description
Edit	Click it to edit the selected USB device.
Refresh	Click it to refresh current USB connection status.
User Name	It displays the username that user uses to login to the FTP server. If there is nothing displayed here, it means there is no FTP user profile created. Just open User Management>>User Profile , create a new user profile with Allow FTP Server Login enabled.
Volume	It displays the proper volume for the connected USB disk.
Path	It displays the directory name for the connected USB disk.

Access Rights	It displays the access right for the connected USB disk.
Enable FTP	Check the box to enable FTP server.
Port	Type required port number for FTP server. Or, use the default value.
Maximum Number of Connections	It means the maximum session limit for the FTP server. The default setting is "4" for downloading, uploading and keeping network connection.
Maximum Connection per IP	It means the maximum session limit for the FTP server per each IP address. For example, an IP address is used by two FTP users for connecting network. That means there are two sessions used for the IP and the FTP server. The default setting is "10".
Apply	Click it to save the configuration.
Cancel	Click it to clear current configuration.

4.10.3 SAMBA Server

SAMBA server offers the file sharing service for users through a specified file folder. Any user who wants to access into the USB storage disk must type the same name and use the same workgroup. Before adding or modifying settings in this page, please insert a USB storage disk first.

4.10.3.1 General Setup

This page allows you to configure settings for SAMBA server.

	USB Application >> S	SAMBA Server >> General Setup 🥥	
Auto Logout : Off 🛛 👻	General Setup	SAMBA Folder	
Quick Start Wizard			
Online Status	Enable		
WAN	Name :	Vigor	
LAN	Description :	Vigor	
Routing			
NAT	Workgroup :	WORKGROUP	
Firewall			
Objects Setting			
User Management			
Applications			
Bandwidth Management 🛢			
USB Application			
Disk Status			
FTP Server			
SAMBA Server			
Printer			
Temperature Sensor			
Modern Support List			
System Maintenance			
Diagnostics			
External Devices		💾 Apply 🛛 🚱 Cancel	
Product Registration			

Item	Description	
Enable	Check the box to enable SAMBA server.	
Name	Type the NetBios name of the SAMBA Server.	
Description	Type any text to describe SMABA server.	
Workgroup	Type the name of the workgroup for the SAMBA server	



to be located by Windows system.
 Default name will be offered for Windows XP user.

4.10.3.2 SAMBA Folder

Due to the file sharing feature of SAMBA server, this page allows you to create any profile which can be shared by clients on the network.

to Logout : Off 🛛 🗠	General Set	up SAMBA Folder	-				
Quick Start Wizard	Add M	Edit 📺 Delete	A Doftoch				Profile Number Limit : 16
Online Status			-				
WAN	Profile	Enable	Visible	Comment	Volume	Path	Access
LAN				No items to s	show.		
Routing							
NAT							
Firewall							
Objects Setting							
User Management							
Applications							
Bandwidth Management 🗉							
USB Application							
Disk Status							
FTP Server							
SAMBA Server							
Printer							
Temperature Sensor							
Modem Support List							
System Maintenance							
Diagnostics							
External Devices							

How to add/edit a SMABA folder profile

- 1. Open USB Application>>SMABA Server and click SAMBA Folder tab.
- 2. Click the **Add** button. For an existed profile, simply choose that profile and click the **Edit** button.
- 3. The following dialog will appear.

Profile :	MKT_Group	
🗹 Enable		
Visible 🛛		
Comment :		
Volume :		v
Path :	1	
Access :	Specific Users	v
Read-Only User :	*	×
Read-Write User :	*	×

Item	Description
Profile	Type the name of the profile to be shared.

connected USB disk. Path It indicates the directory name for the connected	der name to ed.		
the user must know and type the path of the fol access into that folder.CommentType any text to describe such profile if require Use the drop down list to specify the proper vo connected USB disk.PathIt indicates the directory name for the connected	der name to ed.		
Volume Use the drop down list to specify the proper volume Path It indicates the directory name for the connected			
connected USB disk. Path It indicates the directory name for the connected	lume for the		
	Use the drop down list to specify the proper volume for the connected USB disk.		
The default setting is "/".	d USB disk.		
Access There are three options for you to specify. Specific Users All Users Read-only All Users Read-only Specific Users All Users Read-only – Such option allows all sharing the SAMBA service to read the file stores sharing folder. All Users Read-Write – Such option allows all sharing the SAMBA service to read and write tunder the sharing folder. If Specific Users is selected, you have to additis specify Read-Only User – User profiles (with All Server Login Enabled) created under User Management>>User Profile will be dispective to read the folder. Read-Write User - User profiles (with All Server Login Enabled) created under User Management>>User Profile will be dispective to read under User AMBA folder. Read-Write User - User profiles (with All Server Login Enabled) created under User Management>>User Profile will be dispective to choose the one to have the right to read at file on SAMBA folder.	red under the l of the users the file stored ionally llow SAMBA er blayed here. the file on llow SAMBA er blayed here.		
Apply Click it to save the configuration and exit the d	ialog.		
Cancel Click it to exit the dialog without saving the co	nfiguration.		

- 4. Enter all of the settings and click **Apply**.
- 5. A folder profile has been created.

4.10.4 Printer

This page is used to enable the printer server state when a printer device is connected via USB port.

	USB Application >> Printer Setup	0
Auto Logout : Off 🛛 👻	Printer Setup	
Quick Start Wizard		
Online Status	Printer Server State : Auto	
WAN		
LAN		
Routing		
NAT		
Firewall		
Objects Setting		
User Management		
Applications		
Bandwidth Management 🗉		
USB Application		
Disk Status		
FTP Server		
SAMBA Server		
Printer		
Temperature Sensor		
Modern Support List		
System Maintenance		
Diagnostics		
External Devices	📑 Apply 🛛 😵 Cancel	ı I
Product Registration	E Apply 🙆 Caliber	

Item	Description
Printer Server State	 Auto- It's the default setting. Vigor router will detect if the connected device is printer or not. If yes, the printer server will be enabled automatically to activate the printer. Enable – The printer server will be enabled. Disable – The printer server will be disabled.
Apply	Click it to save the configuration.
Cancel	Click it to return to factory default setting.

4.10.5 Temperature Sensor

A USB Thermometer is now available that complements your installed DrayTek router installations that will help you monitor the server or data communications room environment and notify you if the server room or data communications room is overheating.



During summer in particular, it is important to ensure that your server or data communications equipment are not overheating due to cooling system failures.

The inclusion of a USB thermometer in compatible Vigor routers will continuously monitor the temperature of its environment. When a pre-determined threshold is reached you will be alerted by either an email or SMS so you can undertake appropriate action.

4.10.5.1 Temperature Graph

Below shows an example of temperature graph:

	USB Application >> Temperature Sensor >> Temperature Graph	0	
Auto Logout : Off 🛛 🗠	Temperature Graph General Setup		
Quick Start Wizard	🔊 Refresh	-	
Online Status	· Nerson		
WAN	Terresenter Sector		
LAN	Temperature Sensor : Current Temperature : 0°C		
Routing	Max Temperature : 0°C		
NAT	Min Temperature : 0°C		
Firewall	Avg Temperature : 0°C		
Objects Setting			
User Management	USB Temperature °C	E	
Applications			
Bandwidth Management 🗉			
USB Application	1.0		
Disk Status			
FTP Server			
SAMBA Server	0.5		
Printer			
Temperature Sensor			
Modern Support List	0.0		
System Maintenance			
Diagnostics			
External Devices	-0.5	-	
Product Registration			

4.10.5.2 General Setup

	USB Application >> Tem	perature sells	n 🐖 General Betup			2
Auto Logout : Off 🛛 🗠	Temperature Graph	General Setur	0			
Quick Start Wizard						
Online Status	Enable Temper	rature Sensor				
WAN	Display Unit :		Celsius			
LAN		t Louior limit i				
Routing	Temperature Aler		0			
NAT	Temperature Aler	t Upper limit :	50			
Firewall	Calibration :		0			
Objects Setting	Temperature Aler	t Time Interval :	1	Minutes		
User Management						
Applications						
Bandwidth Management 🗉	E					
USB Application						
Disk Status						
FTP Server						
SAMBA Server						
Printer						
Temperature Sensor						
Modern Support List						
System Maintenance						
Diagnostics						
External Devices					H Apply	🙆 Cancel

Available settings are explained as follows:

Item	Description		
Enable Temperature Sensor	Check this box to enable such function.		
Display Unit	Choose Celsius or Fahrenheit as the display unit.		
Temperature Alert Lower limit / Temperature Alert Upper limit	Type the upper limit and lower limit for the system to send out temperature alert.		
Calibration	Type a value used for correcting the temperature error.		
Temperature Alert Time Interval	The default setting is one minute. That means, the temperature alert will be sent per minute.		
Apply	Click it to save the configuration.		
Cancel	Click it to clear current configuration.		

Enter all of the settings and click **Apply**.

4.10.6 Modem Support List

Such page provides the information about the brand name and model name of the USB modems which are supported by Vigor router.

Quick Start Wizard	Brand	Module	ppp	DHCP	
Online Status	Brand Huawei	Huawei E3272	Y	Y	
WAN					- All
LAN	Huawei	Huawei E3276	-	Y	
Routing	Huawei	Huawei E392	Y	Y	
NAT	Huawei	Huawei E398	Y	Y	
Firewall	LG	VL600	М	M	
Objects Setting	Novatel Wireless	Novatel 551L	М	M	
User Management	Novatel Wireless	UML290VW	М	м	=
Applications	Samsung	Samsung GT-B3730	М	М	
Bandwidth Management 🗉	Vodafone	Vodafone K4201	-	Y	=
USB Application	ZTE	ZTE MF820D	Y	Y	
Disk Status	ZTE	ZTE MF821D	-	Y	
FTP Server	ZTE	ZTE MF880D	М	М	
SAMBA Server	Alcatel	One Touch L100V	Y	-	
Printer	1				
Temperature Sensor	Note:				
Modern Support List		bility tests listed above Vigor rout	er models with USB mo	dems / mobiles. If it is confirme	d as the latest an
System Maintenance					
		cific circumstances.			
Temperature Sensor	The following compati Y: Tested and is supp M: Has not been teste	orted. d but might be supported.	er models with USB mo	dems / mobiles. If it i	s confirme

4.11 System Maintenance

For the system setup, there are several items that you have to know the way of configuration: Status, Administrator Password, Configuration Backup, Syslog/Mail Alert, Time and Date, Access Control, SNMP Setup, Reboot System, and Firmware Upgrade.

Below shows the menu items for System Maintenance.

S	ystem Maintenance
	TR-069
	Administrator Password
	Configuration Backup
	Syslog / Mail Alert
	Time and Date
	Access Control
	SNMP Setup
	Reboot System
	Firmware Upgrade
	APP Signature Upgrade
-	APP Support List

4.11.1 TR-069

This device supports TR-069 standard. It is very convenient for an administrator to manage a TR-069 device through an Auto Configuration Server, e.g., VigorACS.

	System Maintenance >> TR-069				2
Auto Logout : Off 🛛 👻	TR-069				
Quick Start Wizard					
Online Status	Enable				
WAN	ACS server on :	wan1			
LAN	Auto Failover to Active WANs :	wann	1		
Routing		× ×		-	
NAT	ACS Server URL :				
Firewall	ACS Server Username :	acs			
Objects Setting	ACS Server Password :				
User Management	Last Inform Response Time				
Applications	ACS Connection Status	0			
Bandwidth Management	Port :	8069			
USB Application	CPE URL :	http://:8069/cwmp/creg			
System Maintenance 😑	CPE Username :	vigor			
TR-069	CPE Password				
Administrator Password	Turn on log message to syslog :	Disable Description			
Configuration Backup					
Syslog / Mail Alert	Periodic Status :	🔿 Disable 💿 Enable	-		
Time and Date Access Control	Periodic Time :	900	sec		
SNMP Setup	Enable STUN :	🔵 Enable 💿 Disable			
Reboot System					
Firmware Upgrade					
APP Signature Upgrade					
APP Support List					-
Diagnostics					
External Devices					
				💾 Apply (🔇 Cancel

Each item will be explained as follows:

Item	Description
Enable	Check this box to enable such profile.
ACS server on	Choose one of the WAN/LAN profiles which will be recognized by VigorACS.
Auto Failover to Active	Specify the WAN interface to take over the job of network

WANs	connection when the original WAN interface fails.	
ACS Server URL/ ACS Server Username / ACS Server Password	Such data must be typed according to the ACS (Auto Configuration Server) you want to link. Please refer to Auto Configuration Server user's manual for detailed information.	
Last Inform Response Time	Display the response time informed by VigorACS.	
ACS Connection Status	When it lights in green, it means the router has been detected and can be managed by VigorACS.	
Port	Type the port number for Vigor300B which will be recognized by VigorACS.	
CPE URL	Display the URL of such CPE.	
CPE Username	Type the user name for the CPE which will be used by the administrator of VigorACS to log into the WUI of Vigor300B.	
CPE Password	Type the password for the CPE which will be used by the administrator of VigorACS to log into the WUI of Vigor300B.	
Turn on log message to syslog	The default setting Disable . Click Enable to make the log message being recorded by Syslog.	
Periodic Status	The default setting is Enable . Please set periodic time for VigorACS to send notification to CPE. Or click Disable to close the mechanism of notification.	
Periodic Time	Set the time for VigorACS to send notification to CPE.	
Enable STUN	Enable/Disable - The default is Disable . If you click Enable , please type the relational settings listed below:	
	Server Address – Type the IP address of the STUN server.	
	Server Port – Type the port number of the STUN server.	
	Minimum Keep Alive Period – If STUN is enabled, the CPE must send binding request to the server for the purpose of maintaining the binding in the Gateway. Please type a number as the minimum period. The default setting is "60 seconds".	
	Maximum Keep Alive Period – If STUN is enabled, the CPE must send binding request to the server for the purpose of maintaining the binding in the Gateway. Please type a number as the maximum period. A value of "-1" indicates that no maximum period is specified.	
Apply	Click it to save the configuration.	
Cancel	Click it to discard the settings configured in this page.	

4.11.2 Administrator Password

This page allows you to set new password for accessing into the web user interface of the router.

	System Maintenance >> Administrator Password	3)
Auto Logout : Off 🛛 🗠	Administrator Password	
Quick Start Wizard		_
Online Status		
WAN	Original Password :	
LAN	New Password :	
Routing		
NAT	Confirm Password :	
Firewall		
Objects Setting		
User Management		
Applications		
Bandwidth Management		
USB Application		
System Maintenance 😑		
TR-069		
Administrator Password		
Configuration Backup		
Syslog / Mail Alert		
Time and Date		
Access Control		
SNMP Setup		
Reboot System		
Firmware Upgrade		
APP Signature Upgrade		
APP Support List		
Diagnostics	Note: Passwords can be up to 100 characters in length, and only the following characters are allowed: a-z A-Z 0-9 :;	#
External Devices	🖬 Appl	1
· · · · · · · · · · · · · · · · · · ·		

Each item will be explained as follows:

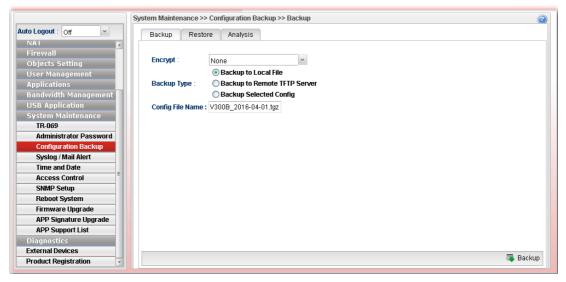
Item	Description	
Original Password	Type the old password.	
New Password	Type the new password.	
Confirm Password	Re-type the new password for confirmation.	
Apply	Click this button to save the configuration and exit the web page.	

Enter all of the settings and click **Apply**.

4.11.3 Configuration Backup

Most of the settings can be saved locally as a configuration file, and can be applied to another router. The router supports functions of **restore and backup** for the configuration file.

4.1	1	.3.1	Backup
-----	---	------	--------



Item	Description
Encrypt	None – No encryption will be used. Encrypt Config File – Choose it to encrypt the whole
	configuration file.
	• Password – Type a password for encrypting the file.
	• Confirm Password – Retype the password for confirmation.
	None None Encrypt Config File Encode Password In Config
	Encode Password in Config – Choose it to encrypt the password information in configuration file.
Backup Type	Choose one of the types to determine where the file will be stored.
	Backup to Local File – The configuration file will be stored in local host.
	Backup to Remote TFTP Server – The configuration file will be stored in the remote TFTP server specified.
	Backup Selected Config – The configuration file will be stored with an existing file in local host. You must select which file you want to store.
Config File Name	Display the default configuration file name. You can change the name if required.



Backup

Execute the file downloading job to the computer.

4.11.3.2 Restore

	System Maintenance	>> Configuration Backup >> Restore	0
Auto Logout : Off 🛛 🗠	Backup Res	store	
Quick Start Wizard			
Online Status		Decrypt Config	
WAN		Restore Settings via Local Config File	
LAN	Restore Type :	© Restore Settings via Lectar comprise	
Routing	Colored Films		
NAT	Select File :	選擇檔案	
Firewall			
Objects Setting			
User Management			
Applications			
Bandwidth Management			
USB Application			
System Maintenance 😑			
TR-069			
Administrator Password			
Configuration Backup			
Syslog / Mail Alert			
Time and Date			
Access Control			
SNMP Setup			
Reboot System			
Firmware Upgrade			
APP Signature Upgrade			
APP Support List			
Diagnostics			
External Devices		💓 Res	store

Item	Description	
Decrypt Config	Check this box to decrypt an encrypted configuration file. You can specify a password for decrypting the file for restoring it for use next time.	
	Password – Type a password for encrypting the file.	
	Confirm Password – Retype the password for confirmation.	
Restore Type	Choose one of the types to determine where the file will be downloaded from.	
	Restore Settings via Local Config File – Click it to restore the configuration settings through a configuration file stored locally.	
	Restore Settings via TFTP Server – Click it to restore the configuration settings through TFTP server.	
Select File	Use the Select button to locate the file for uploading to the router.	
Restore	router. Click it to upload the selected file to the router. After finishing the restoration, the system will ask you to reboot the router.	

4.11.3.3 Analysis

Such analysis page will show user defined settings result. In comparing the default settings with information displayed in this page, it will be convenient for administrator, user or RD member for debug possible error.

	System Maintenance >> Configuration Backup >> Analysis	6	
ito Logout : Off 🛛 👻	Backup Restore Analysis		
NAI 💽	Config *		
Firewall			
Objects Setting	▶ acc_ctrl		
User Management	▶ app_guest		
Applications	app_guest_group		
Bandwidth Management	auto_discovery		
USB Application	bandwidth_limit		
System Maintenance	bind		
TR-069	category_object		
Administrator Password	▶ cwmp		
Configuration Backup	▶ dataflow		
Syslog / Mail Alert	ipsec_cer_config		
Time and Date	▶ lb_pool		
= =	network		
Access Control	pptpd_config		
SNMP Setup			
Reboot System	• ***	V rrd	
Firmware Upgrade	switch_lan		
APP Signature Upgrade	switch_lan_300		
APP Support List	switch_port_300		
Diagnostics	Vian_wan		
External Devices	vpn_server_secret_config		
Product Registration			

4.11.4 Syslog / Mail Alert

SysLog function is provided for users to monitor router. There is no bother to directly get into the Web User Interface of the router or borrow debug equipments.

4.11.4.1 SysLog File

This page displays all the operation logs for the router.

	System Maintenance >> Syslog / Mail Alert >> Syslog File	0
Auto Logout : Off 🛛 👻	Syslog File Syslog Access Setup Mail Alert	
Quick Start Wizard	🖙 Refresh 🛛 🦉 Download Log 📩 Clear Syslog 🛛 Auto Refresh 🗄 10 Secon 🝸	
Online Status		-
WAN	Search	1
LAN	Log	
Routing	1 <157>Jan 2 09:00:02 Vigor: ntpclient(DST_check):Daylight Saving Time is NOT applied now	
NAT	2 <13>Jan 2 09:00:02 Vigor: Hourly firewall iptables snapshot done	-
Firewall	3 <13>Jan 2 08:38:46 Vigor: Web UI Setting[admin:192.168.1.5]: dataflow.profile.enable=enable	
Objects Setting	4 <157>Jan 2 08:00:01 Vigor: ntpclient(DST_check):Daylight Saving Time is NOT applied now	
User Management	5 <13>Jan 2 08:00:01 Vigor: Hourly firewall iptables snapshot done	
Applications	6 <149>Jan 2 07:40:22 Vigor: Web UI Log-in (admin:192.168.1.5:admin) Successfully	
Bandwidth Management	7 <13>Jan 2 07:30:23 Vigor: Web UI Setting[admin:192.168.1.5]: auto_discovery.profile.mode=enable	
USB Application	8 <149>Jan 2 07:15:53 Vigor: Web UI Log-in [admin:192.168.1.5:admin] Successfully	
System Maintenance 💡	9 <157>Jan 2 07:00:02 Vigor: ntpclient(DST_check):Daylight Saving Time is NOT applied now	
TR-069	10 <13>Jan 2 07:00:02 Vigor: Hourly firewall iptables snapshot done	
Administrator Password	11 <157>Jan 2 06:00:01 Vigor: ntpclient(DST_check):Daylight Saving Time is NOT applied now	
Configuration Backup	12 <13>Jan 2 06:00:01 Vigor: Hourly firewall iptables snapshot done	
Syslog / Mail Alert	13 <157>Jan 2 05:00:02 Vigor: ntpclient(DST_check):Daylight Saving Time is NOT applied now	
Time and Date	14 <13>Jan 2 05:00:01 Vigor: Hourly firewall iptables snapshot done	
Access Control	15 <157>Jan 2 04:00:01 Vigor: ntpclient(DST_check):Daylight Saving Time is NOT applied now	
SNMP Setup	16 <13>Jan 2 04:00:01 Vigor: Hourly firewall iptables snapshot done	
Reboot System	17 <157>Jan 2 03:00:02 Vigor: http://ent/DST_check):Daylight Saving Time is NOT applied now	
Firmware Upgrade	18 <13>Jan 2 03:00:01 Vigor: Hourly firewall iptables snapshot done	
APP Signature Upgrade	19 <157>Jan 2 02:00:01 Vigor: ntpclient(DST_check):Daylight Saving Time is NOT applied now	
APP Support List	20 <13>Jan 2 02:00:01 Vigor: Hourly firewall iptables snapshot done	
Diagnostics	21 <157>Jan 2 01:00:02 Vigor: http://ent/DST_check/:Davlight Saving Time is NOT applied now	
Eutornal Donicoo	22 <13>Jan 2 01:00:02 Vigor: Hourly firewall intables snapshot done	
	22 455 but 2 01:00:02 Hgd. Hoday movin guardo and and a data a file is NOT englisher.	-

Item Description		
Refresh	Renew the web page.	
Download Log Save or open the Syslog file.		

Clear Syslog	Remove all of the records.	
	Specify the interval of refresh time to obtain the latest status. The information will update immediately when the Refresh button is clicked.	

4.11.4.2 Syslog Access Setup

	System Maintenance >> System	g / Mail Hicros Systog I	-cccaa octup
uto Logout : Off	Syslog File Syslog Acces	s Setup Mail Alert	
Quick Start Wizard			
Online Status	Status	Local	
WAN		Contraction Contraction	
LAN	Log to USB :		1
Routing	USB Syslog Keep Days :	7	
NAT	Router Name :	Vigor	(Optional)
Firewall	Firewall Log :	💿 Enable 🔵 Disable	
Objects Setting	User Access Log	🔵 Enable 💿 Disable	
User Management	WAN Log :	💿 Enable 🔘 Disable	
Applications	Others Log :	Enable Disable	
Bandwidth Management	Other's Log .		
USB Application			
System Maintenance 😑			
TR-069			
Administrator Password			
Configuration Backup			
Syslog / Mail Alert			
Time and Date			
Access Control			
SNMP Setup			
Reboot System			
Firmware Upgrade			
APP Signature Upgrade			
APP Support List			
Diagnostics			
External Devices			💾 Apply 🛛 🐼 Car

Available parameters are listed as follows:

Item	Description	
Status	Choose one of the selections to determine current status for Syslog access. If you choose Local as Status, you don't ne to type any server IP and port. Just give a name for the router.	
	Disable Disable Remote Local Both	
Log to USB	Enable – Click it to save the log onto USB disk.Disable – Click it to disable the function of log to USB.	
	USB Syslog Keep Days – Type the days that USB disk will keep the log without deleting.	
Server IP	Type the IP address of the Syslog server.	
	It is available when Remote or Both is selected as Status .	
Server Port	Type the port number for the Syslog server. It is available when Remote or Both is selected as Status .	
Router Name	Type the name of the router. The default name is <i>Vigor</i> .	
Firewall Log	Click Enable to make the firewall log recorded in the	

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	Syslog.
User Access Log	Click Enable to make the user access log recorded in the Syslog.
WAN Log	Click Enable to make the WAN log recorded in the Syslog.
Others Log	Click Enable to make other logs recorded in the Syslog.
Apply	Click this button to save the configuration and exit the web page.
Cancel	Click it to discard the settings configured in this page.

4.11.4.3 Mail Alert

	System Maintenance	>> Syslog / Mail Alert >> M	ail Alert			2
Auto Logout : Off 🛛 👻	Syslog File Syslo	q Access Setup Mail Ale	ert			
Quick Start Wizard		-				
Online Status	Enable					
WAN	Mail From :					
LAN	Mailtroint	A ALL PLA		Profile Number Limit : 16		
Routing		🚯 Add 💾 Save		Frome Number Emilt . 10		
NAT		Mail To				
Firewall	Mail To :		No items to show.			
Objects Setting						
User Management						
Applications						
Bandwidth Management	SMTP Port :	25				
USB Application	SMTP Server :					
System Maintenance 💡	SSL/TLS :	🔘 Enable 💿 Disable				
TR-069 Administrator Password	Authentication :	🔘 Enable 💿 Disable				
Configuration Backup						
Syslog / Mail Alert						
Time and Date						
Access Control						
SNMP Setup						
Reboot System						
Firmware Upgrade						
APP Signature Upgrade						
APP Support List						
Diagnostics						
External Devices				🚖 Send A Test Mail	💾 Apply	🙆 Canci
🗳				Send X rest mail		w Cance

Item	Description	
Enable	Check the box to enable such profile.	
Mail From	Type a mail address for the mail sender.	
Mail To	Assign a mail address for the mail receiver. Add – Click this button to display a field for adding e-mail	
	address.	
	Save – After finished the address configuration, click Save to save the setting onto the router.	
SMTP Port	Type the port number for SMTP server.	
SMTP Server	Type the IP address for SMTP server.	
SSL/TLS	Click Enable to activate SSL/TLS server.	
Authentication	Click Enable to make any user logging into the mail server. If you click Enable , you have to type user name and user password on the below fields.	
User Name	Type the user name for authentication.	



User Password	Type the password for authentication.	
Send A Test Mail	Click it to send a test mail to the specified address.	
Apply	Click this button to save the configuration and exit the web page.	
Cancel	Click it to discard the settings configured in this page.	

4.11.5 Time and Date

This page allows you to specify where the time of the router should be inquired from.

As an NTP (Network Time Protocol) client, the router gets standard time from the time server. Some time-based functions cannot work properly until the system time functions run successfully. Typically, NTP achieves high accuracy and reliability with multiple redundant servers and diverse network paths.

	System Maintenance >> Time and Date	2
Auto Logout : Off 🛛 🗠	Time and Date	
Quick Start Wizard		
Online Status	Time Type : NTP V	
WAN		
LAN	Server : pool.ntp.org	
Routing	Port: 123	
NAT	Interval: 600	
Firewall	Time Zone : Taipei *	
Objects Setting	Daylight Saving : O Enable ③ Disable	
User Management	Daylight Saving . Claude Chisane	
Applications		
Bandwidth Management		
USB Application		
System Maintenance 😑		
TR-069		
Administrator Password		
Configuration Backup		
Syslog / Mail Alert		
Time and Date		
Access Control		
SNMP Setup		
Reboot System		
Firmware Upgrade		
APP Signature Upgrade		
APP Support List		
Diagnostics		
External Devices	🖬 Apply	🙆 Cance
		-

Item	Description	
Time Type	NTP – Select to inquire time information from Time Server on the Internet using assigned protocol.	
	Browser - Select this option to use the browser time from the remote administrator PC host as router's system time.	
Server	Type the domain name of the server.	
Port	Type the port number for the time server.	
Interval	Select a time interval for updating from the NTP server.	
Time Zone	Select the time zone where the router is located.	
Daylight Saving	Click Enable to enable the daylight saving. Such feature is available for certain area.	
Apply	Click this button to save the configuration and exit the web page.	

Cancel	Click it to discard the settings configured in this page.
--------	---

4.11.6 Access Control

4.11.6.1 Access Control

This page allows you to open or close the Web User Interface of Vigor300B by using Telnet, SSH, HTTP, HTTPS... and etc...

	System Maintenance >> Access C	ontrol >> Access Control		
tuto Logout : Off 🛛 👻	Access Control Fail to Ban	Access Barrier		
NAI				
Firewall	Default: Disable Auto-Logout	: OEnable 💿 Disable		
Objects Setting	· · · · · · · · · · · · · · · · · · ·			
User Management	Use Validation Code :	🔘 Enable 💿 Disable		
Applications	Customized Login Image :	🔘 Enable 💿 Disable		
Bandwidth Management	 Internet Access Control 			
USB Application	Apply to WAN Interface :	wan1, wan2, w 👻 🗡		
System Maintenance	Web Allow :	OEnable OEnable		
TR-069		· ·		
Administrator Password	Teinet Allow :	🔘 Enable 💿 Disable		
Configuration Backup	SSH Allow :	🔘 Enable 💿 Disable		
Syslog / Mail Alert	HTTPS Allow :	🔵 Enable 💿 Disable		
Time and Date	FTP Allow :	🔵 Enable 💿 Disable		
Access Control	SAMBA Allow :	🔵 Enable 💿 Disable		
SNMP Setup	Server Certificate	Default		
Reboot System		Delault		
Firmware Upgrade	Access List :	🔘 Enable 💿 Disable		
APP Signature Upgrade		🕼 Add 📑 Save		Profile Number Limit : 1
APP Support List		IP	Subnet Mask	
Diagnostics	IP List:	0.0.0.0	0.0.0.0	ŵ
External Devices		0.0.0.0	0.0.0	â
Product Registration	4	1	1	

Item	Description
Default: Disable Auto-Logout	 Enable – Vigor router will auto logout based on the specified time setting (e.g., 1, 3, 5 and 10 minutes). Disable – Default setting. The function of Auto-Logout will
	be disabled.
Use Validation Code	Enable – While accessing into the web user interface of Vigor router, a validation code will appear to authenticate the user trying to log into web user interface.
	Disable – No validation will be done when a user tries to log into the web user interface of Vigor router.
	Fail Times to Trigger - It is available when Use Validation Code is enabled.
	The number selected here means the times for login failure that will trigger Validation Code for authentication. The default setting is "0". That means no failure of login is allowed.
Customized Login Image	Specify an image file which will be displayed on the login page when a user or guest tries to access into Internet.
	Upload Login Image – Choose a file to upload to Vigor3900. It is useful for advertisement.
Internet Access Control	
Apply to WAN Interface	Choose the WAN interface(s) to apply such feature.



Web Allow	Click Enable to allow system administrator to login from the Internet and management the web page of the router.
Telnet Allow	Click Enable to allow system administrator to login from the telnet and management the web page of the router.
SSH Allow	Click Enable to allow system administrator to login from the SSH server and management the web page of the router.
HTTPS Allow	Click Enable to allow system administrator to login from the HTTPS server and management the web page of the router.
FTP Allow	Click Enable to allow system administrator to login from the FTP server and management the web page of the router.
Server Certificate	Use the default setting.
Access List	Click Enable to allow system administrator to login from the user defined IP address and management the web page of the router. If you enable such function, the system can be managed by these three IP addresses via WAN.
IP List	Type the first IP address for the system administrator to login.
	The former boxes indicate the IP address allowed to login to the router, and the later box indicates a subnet mask allowed to login to the router.
Allow Ping from WAN	Click Enable to allow system administrator to ping the router from WAN interface.
	WAN Profile – Specify the WAN interface to perform the "Ping" job.
LAN Access Control	
Allow management from LAN	Click Enable to control such router from LAN.
Apply to LAN Subnet	Choose the LAN profile(s) that the IPs controlled under such profile are allowed to access into the web user interface of Vigor300B.
Web Allow	Click Enable to allow system administrator to login from the Internet and management the web page of the router.
Telnet Allow	Click Enable to allow system administrator to login from the telnet and management the web page of the router.
SSH Allow	Click Enable to allow system administrator to login from the SSH server and management the web page of the router.
HTTPS Allow	Click Enable to allow system administrator to login from the HTTPS server and management the web page of the router.
FTP Allow	Click Enable to allow system administrator to login from the FTP server and management the web page of the router.
Allow Ping form LAN	Click Enable to allow system administrator to ping the router from LAN interface.
Management Port Setup	

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Web Port	Type the port number for the management through web page.
Telnet Port	Type the port number for the management through telnet page.
SSH Port	Type the port number for the management through SSH server.
HTTPS Port	Type the port number for the management through HTTPS server.
FTP Port	Type the port number for the management through FTP server.
Apply	Click this button to save the configuration and exit the web page.
Cancel	Click it to discard the settings configured in this page.

4.11.6.2 Fail to Ban

When someone tries/fails to login the router many times, Vigor router system will block the network connection for a while to protect system. At present, five protocols (Web User Interface, SSH, FTP, Telnet, PPTP/SSL) are available for configuration to avoid malicious attacks.

System Main	tenance >> Access Control >	> Fail to Ban			2
Auto Logout : Off Access C	ontrol Fail to Ban Access E	Barrier			
Quick Start Wizard					
Online Status					
WAN Final Fi	able Fail to Ban				
LAN Web U		💿 Enable 🔿 Disable			
Routing			Default 5		
INAT	I Login Max-failed Times :	5			
	l Penalty Time :	60	Seconds, Default:60seconds		
Objects Setting SSH:		💿 Enable 🔵 Disable			
	ogin Max-Failed Times :	5	Default:5		
Applications	enalty Time :	60	Seconds, Default:60seconds		
Bandwidth Management		💿 Enable 🔿 Disable			
USB Application FTP Lo FTP Lo	ain Max-Failed Times :	5	Default 5		
		60	Seconds. Default60seconds		
Administrator Password TELNE			Seconds, Deladicoseconds		
Configuration Backup		Enable Olisable	-		
Syslog / Mail Alert Teinet	Login Max-Failed Times :	5	Default:5		
	Penalty Time :	60	Seconds, Default:60seconds		
Access Control PPTP/S	SSL	💿 Enable 🔿 Disable			
SNMP Setup PPTP/S	SSL Login Max-Failed Times :	5	Default:5		
Reboot System PPTP/S	SSL Penalty Time :	60	Seconds, Default:60seconds		
Firmware Upgrade					
APP Signature Upgrade					
APP Support List Note :					
Diagnosaes	' client use anonymous login fi	rst which may result in c	ine tall login.		
External Devices				💾 Apply 🛛 🐼	Cancel

Item	Description
Enable Fail to Ban	Enable the function to protect Vigor system while being attacked by malicious accounts and passwords.
Web UI/SSH/FTP/ TELNET/PPTP/SSL	Enable – Enable the function of Fail to Ban via different protocols (Web UI/SSH/FTP/TELNET/PPTP/SSL).
	• Login Max-failed Times – The number typed here means the maximum logging times allowed for a group of user account and password trying to login Vigor router.



	 Penalty Time – This field is used to configure the blocking time. The default setting is 60 seconds. It means, when a user tries to login Vigor router with a user account for many times (defined in Login Max-failed Times) but fails, he/she will be prohibited to login for a period of time. When the penalty time limit is up, he/she is allowed to login into Vigor router again. Disable - Disable the function of Fail to Ban for Web UI/SSH/FTP/TELNET/PPTP/SSL.
Apply	Click this button to save the configuration.
Cancel	Click it to discard the settings configured in this page.

4.11.6.3 Access Barrier

This page is used to configure the access barrier to protect the system from brute-force attack and flooding attack, and ensure following protocols can run properly.

	System Maintenance >> Acc	ess Co	ntrol >> Access	s Barr	1er	6
Auto Logout : Off	Access Control Fail to B	an A	ccess Barrier			
Quick Start Wizard						
Online Status						
WAN						
LAN	Web Access Barrier :	20	packets per	10	seconds	
Routing	SSH Access Barrier :	20	packets per	60	seconds	
NAT	Telnet Access Barrier	20	packets per	60	seconds	
Firewall	Telliet Access Darrier		_ ` ` '			
Objects Setting	FTP Access Barrier :	20	packets per	60	seconds	
User Management						
Applications						
Bandwidth Management						
USB Application						
System Maintenance 😑						
TR-069						
Administrator Password						
Configuration Backup						
Syslog / Mail Alert						
Time and Date						
Access Control						
SNMP Setup						
Reboot System						
Firmware Upgrade						
APP Signature Upgrade						
APP Support List	Note :					
Diagnostics	Access Barrier is a method				ks and flooding for new connection from all WAN.	
Diagnostics						

Item	Description
PPTP/IPsec/Web/ SSH/Telnet/FTP Access Barrier	The port number used by these protocols always became the target attacked by hacker. Therefore, the settings for packet reception rate for certain protocol can be configured to avoid attack from unknown people.
Apply	Click this button to save the configuration.
Cancel	Click it to discard the settings configured in this page.

4.11.7 SNMP Setup

This page allows you to manage the settings for SNMP setup.

The SNMPv3 is **more secure than** SNMP through the encryption method (support AES and DES) and authentication method (support MD5 and SHA) for the management needs.

	System Maintenance >> SNMF	^o Agent			2
Auto Logout : Off	SNMP Agent				
Quick Start Wizard					
Online Status	C Enable SNMP				
WAN	Get Community :	public			
LAN	Set Community :	private			
Routing					
NAT	Default Host IP/Mask :	🔘 Enable 💿 Disable			
Firewall	Manager Host IP/Mask :		255.255.255.0/24		
Objects Setting	Notification Host IP :	0.0.0.0			
User Management	Enable SNMPV3 :	💿 Enable 🔘 Disable			
Applications	USM User :		(Optional)		
Bandwidth Management USB Application			(optional)		
Custom Maintonance	Auth Algorithm :	No Auth	*		
TR-069					
Administrator Password					
Configuration Backup					
Syslog / Mail Alert					
Time and Date					
Access Control					
SNMP Setup					
Reboot System					
Firmware Upgrade					
APP Signature Upgrade					
APP Support List					
Diagnostics				💾 Apply	🙆 Cancel
External Devices				idde, 📃	-
	4		"		

Item	Description				
Enable SNMP	Check the box to enable the function.				
Get Community	Set the name for getting community by typing a proper character. The default setting is public.				
Set Community	Set community by typing a proper name. The default setting is private.				
Default Host IP/Mask	Click Enable to use the default IP and mask of the host as the SNMP agent.				
	If you click Disable , you need to type the IP address and choose the mask manually in related fields.				
Notification Host IP	Type the IP address of the host for notification.				
Enable SnmpV3	Click Enable to enable this function.				
USM User	USM means user-based security mode.				
	Type a username which will be used for authentication. The maximum length of the text is limited to 23 characters.				
Auth Algorithm (Min. Length:8)	Choose one of the encryption methods listed below as the authentication algorithm. No Auth MD5 SHA				
Auth Password	Type a password for authentication. The maximum length of the text is limited to 23 characters.				



Privacy Algorithm (Min. Length:8)	Choose one of the methods listed below as the privacy algorithm. No Priv V DES AES
Privacy Password	Type a password for privacy. The maximum length of the text is limited to 23 characters.
Apply	Click this button to save the configuration and exit the web page.
Cancel	Click it to discard the settings configured in this page.

4.11.8 Reboot System

The Vigor router system can be restarted from a Web browser. You have to reboot the router to invoke the configured settings that you made before.

If you want to reboot the router using the current configuration, choose **Reboot with Current Configurations** and click **Reboot**. To reset the router settings to default values, click **Reboot with Factory Default Configurations** and click **Reboot**. The router will take a period of time to reboot the system.

4.11.8.1 Reboot System

Open System Maintenance>> Reboot System.

Auto Logout : Off 🛛 👻		
	Reboot System Schedule Reboot	
Quick Start Wizard		
Online Status	Reboot with Current Configurations	
WAN	Reboot Option : O Reboot with Factory Default Configurations	
LAN	Reboot with Customized Configurations	
Routing		
NAT		
Firewall		
Objects Setting		
User Management		
Applications		
Bandwidth Management		
USB Application		
System Maintenance 🛛 🗧		
TR-069		
Administrator Password		
Configuration Backup		
Syslog / Mail Alert		
Time and Date		
Access Control		
SNMP Setup		
Reboot System		
Firmware Upgrade		
APP Signature Upgrade		
APP Support List		
Diagnostics		
External Devices		と Rebo

Item	Description
Reboot with Current Configurations	Click it to reboot the router using the current configuration. Then, click Reboot
Reboot with Factory Default Configurations	Click it to reset the router settings to default values. Then, click Reboot .



Reboot with Customized Configurations	Click it to reboot the router using the current configuration (only the configuration settings listed and selected below). If you choose this option, Select Config File will be available for you to select.					
	Reboot Option :	 Reboot with Current Configurations Reboot with Factory Default Configurations 				
		Reboot with Customized Configurations				
	Select Config File :	lan_wan_profile, wan_ 🗸				
		Ian_wan_profile A Ioad_balance Ioad_balance				
		☑ wan_vlan ☑ lan_vlan				
		switch_mirror				
		static_route static_route port_redirect				
	After choosing th	e configuration files, click Reboot .				
	7 ther endosing th	e configuration mes, effek Reboo t.				
Reboot	Click this button	to execute the rebooting job.				

4.11.8.2 Schedule Reboot

Vigor router can be rebooted based on schedule setting. Check the box of **Enable Schedule Reboot** and choose a time object from the drop down list of **Schedule Time Object.** After clicking **Apply**, Vigor router will reboot at the specified time.

Auto Logout : Off Quick Start Wizard Online Status WAN LAN	Reboot System		Must be weekdays type				
Online Status WAN	Enable Sch	nedule Reboot	Must be weekdays type				
WAN			Must be weekdays type				
			Must be weekdays type				
LAN	Schedule Tim	e object.	must be weekuays type				
Routing							
NAT							
Firewall							
Objects Setting							
User Management							
Applications							
Bandwidth Management							
USB Application							
System Maintenance 🗧	6					Drofile M	umber Limit : 16
TR-069		t 🛅 Delete 🔇 娕 Refresh					JINDELLINIL, 10
Administrator Password	Profile	Frequency	Start D Star	rt T End Date	End Time	Weekdays	
Configuration Backup			No items to sh	iow/			
Syslog / Mail Alert							
Time and Date							
Access Control							
SNMP Setup Reboot System							
Firmware Upgrade							
APP Signature Upgrade							
APP Signature opgrade							
Diagnostics							
Eutornal Daviago							
							💾 Apply

Item	Description
Enable Schedule Reboot	Check the box to enable such option.
Schedule Time Object	Use the drop down list to choose one of the time objects to perform the schedule reboot.
Add	Add a new profile.
Edit	Modify the selected profile. To edit a profile, simply select the one you want to modify

	and click the Edit button. The edit window will appear for you to modify the corresponding settings for the selected profile.					
Delete	Remove the selected profile.					
	To delete a rule, simply select the one you want to delete and click the Delete button.					
Refresh	Renew current web page.					
Profile	Display the name of the schedule profile.					
Frequency	Display the type (Once or Weekdays) of frequency selected for the profile.					
Start Date	Display the starting date of the profile.					
Start Time	Display the starting time of the profile.					
End Date	Display the ending date of the profile.					
End Time	Display the ending time of the profile.					
Weekdays	Display which day in a week shall perform the reboot job.					

How to add a schedule profile

- 1. Open System Maintenance>>Schedule Reboot.
- 2. Simply click the **Add** button.
- 3. The following dialog will appear.

chedule Rebo	ot =>
Profile :	1_John
Frequency :	Once 👻
Start Date :	2014-03-26 🌆
Start Time :	Hour Min Sec 12 • 01 • 01 •
End Date :	2014-03-26
End Time :	Hour Min Sec
Weekdays	~
	🗎 Apply 🙆 Cancel

Item	Description
Profile	Type the name of the profile.
Frequency	Specify how often the schedule will be applied. Once -The schedule will be applied just once

	Weekdays -Specify which days in one week should perform the schedule.
Start Date	Specify the starting date of the schedule.
Start Time	Specify the starting time of the schedule.
End Date	Specify the ending date of the schedule.
End Time	Specify the ending time of the schedule.

- 4. Enter all the settings and click **Apply**.
- 5. A schedule profile has been created.

🕼 Add 🛛 💥 Eo	lit 🔟 Delete 🗳	Refresh				Profile Number Li	imit : 1
Profile	Frequency	Start D	Start T	End Date	End Time	Weekdays	
1_John	Weekdays	2014-03-26	Thu Jan O	2014-03-26	Thu Jan 0	Mon	

4.11.9 Firmware Upgrade

The following web page will guide you to upgrade firmware by using such page.

Download the newest firmware from DrayTek's web site or FTP site. The DrayTek web site is www.DrayTek.com (or local DrayTek's web site) and the FTP site is ftp.DrayTek.com.

Click System Maintenance>>Firmware Upgrade.

4.11.9.1 Upgrade Firmware

This page display current firmware version used in Vigor router. In addition, it allows you to select the newest firmware version manually and update to such Vigor router immediately.

A user must connect to website (http://www.draytek.com.tw/ftp) previously to download the newest firmware to the computer.

	System Maintenance >	> Firmware Upgrade >> Up	grade Firmware		
to Logout : Off 🛛 🖌	Upgrade Firmware	Auto Firmware Upgrade	Firmware Patch	Auto Firmware Patch	
NAI					
Firewall	Current Firmware	Version 120			
Objects Setting	Select File :	選擇檔案 未選	计学校会		
User Management	Select File .	进择幅杀」不进	计并作曲:来		
Applications					
Bandwidth Management					
USB Application					
System Maintenance					
TR-069					
Administrator Password					
Configuration Backup					
Syslog / Mail Alert					
Time and Date					
Access Control					
SNMP Setup					
Reboot System					
Firmware Upgrade					
APP Signature Upgrade					
APP Support List					
Diagnostics					
External Devices					
Product Registration					

Available parameters are listed as follows:

Item	Description
Current Firmware Version	Display current version of the firmware.
Select File	Use the Select button to locate and select the new firmware.
Upgrade	Click it to perform the firmware upgrade.

4.11.9.2 Auto Firmware Upgrade

By clicking **Check Update/Install Update**, Vigor router can download/upgrade firmware directly from website (http://www.draytek.com.tw/ftp) automatically.

Auto Logout : Off V NA I Firewall Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance TR-069	are Version : 1.2.0 re Version : - Server : Check Updat	 e	
Firewall Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance	re Version : - Server : Check Updat		
Administrator Password Configuration Backup Syslog / Mail Alert Time and Date Access Control SNMP Setup Reboot System Firmware Upgrade APP Signature Upgrade APP Signature Upgrade APP Signature Upgrade External Devices External Devices			

Item	Description
Server Firmware Version	Display the firmware version shown on website (http://www.draytek.com.tw/ftp).
Server Firmware Version	Display the firmware version shown on website (http://www.draytek.com.tw/ftp).



Upgrade from Server	Check Update –Vigor router will inquire to website (http://www.draytek.com.tw/ftp) if there is any newest firmware available for use. If yes, Vigor router will download the newest firmware from the website to the host (Vigor router) automatically.
	Install Update –If the firmware version stored on the website (http://www.draytek.com.tw/ftp) is newer than the version used by the host (Vigor router), then Vigor router will download and install the newest firmware version automatically.
	Notify me when new firmware is available – If it is enabled, after detecting the newest firmware from the website, Vigor router's system will automatically download (but not install) the firmware and store on the host. Later, when the user logs into the router's web user interface, the system will give a hint to notify the user in the logging window.

4.11.9.3 Firmware Patch

Vigor router administrator/user can manually select file (.pat) to fix/modify the mistakes, bugs or error occurred on current firmware. Usually, such firmware with instant modifications can be obtained from DrayTek MyVigor Patch Server.



4.11.9.4 Auto Firmware Patch

A firmware contains hundreds of files, and a firmware patch could be a single file or several files of a firmware. Since firmware 1.2.0, Vigor300B supports Firmware Patch feature which allows upgrading a specific firmware patch only, but not the whole firmware. The benefit is Vigor300B doesn't need to reboot the system after updating the firmware patch.

Auto Firmware Patch is similar to Auto Firmware Upgrade. While configuring Mode as "Notify me when a new patch is available", Vigor300B will check if there is a new patch available on DrayTek server daily. When a new patch is available, Vigor300B will pop-up notification window when Administrator logs in.

	System Maintenance >> I	Firmware Upgrade >> Au	ito Firmware Patch	1	0
Auto Logout : Off	Upgrade Firmware	Auto Firmware Upgrade	Firmware Patch	Auto Firmware Patch	
NA I Firewall Objects Setting User Management Applications	Current Patch Vers Server Patch Versi Server Patch Inform	on: - nation: -		-	
Bandwidth Management	Upgrade from Serv	er : Check Update	Install Update		
USB Application	Mode :	Notify me when	new patch is a	*	
System Maintenance	Server	myvigor.draytek.	com '	*	
TR-069		🗹 SysLog			
Administrator Password		-			
Configuration Backup					
Syslog / Mail Alert	Patch Log :				
Time and Date					
Access Control					
SNMP Setup					
Reboot System					
Firmware Upgrade					
APP Signature Upgrade					
APP Support List					
Diagnostics					
External Devices					
Product Registration	4				

Item	Description
Current Patch Version	Display the installed patch version on local system
Server Patch Version	Display the latest patch version on DrayTek MyVigor server.
Server Patch Information	Display detailed patch information.
Upgrade from Server	Check Update – Click the button to let the system check and get server patch version.
	Install Update – Click it to install the server patch version onto Vigor router.
Mode	There are three modes available for you to choose.
	Manual upgrade – If it is selected, check and installation for patch will be executed only when Check Update/Install Update is pressed.
	Notify me when new patch is available - If it is specified, after detecting the newest patch from MyVigor server, Vigor router's system will automatically download the patch information and store on the host. Later, when the user logs into the router's web user interface, the system will give a hint to notify the user in the logging window.
	Auto upgrade when new patch is available - If the patch information stored on MyVigor server is newer than information stored in the host (Vigor router), then Vigor

	router will download and upgrade the newest information automatically.
Server	Use the drop down list to specify a suitable server.
Syslog	Check the box to store the patch log into Syslog.
Patch Log	This area will show log related to firmware patch automatically if firmware patch is executed.

When the router is doing daily firmware patch check, Syslog will have the logs below:

<13>Dec 18 13:59:18 Vigor: [patupgrade_auto][1] Check latest patch version from server ...

<13>Dec 18 13:59:18 Vigor: [patupgrade_auto][0] Try get version from http://myvigor.draytek.com/sig/APPE/dlm/c1k/latver.txt

<13>Dec 18 13:59:19 Vigor: [patupgrade_auto][0] Get version: 1200000 (latest=1200000)

<13>Dec 18 13:59:19 Vigor: [patupgrade_auto][1] Success: Your firmware is up-to-date and need not to patch.

4.11.10 APP Signature Upgrade

The APP object profile adopted by Vigor router will be treated as the APP signature. DrayTek will periodically upgrade versions for all of the APPs supported by Vigor router. However, it might be inconvenient for users to upgrade the APP version one by one. This feature is specially designed to offer a quick method to execute APP version upgrade. Users can perform the APP signature upgrade manually or configure the settings on this page to make Vigor router performing the APP signature automatically.

4.11.10.1 APP Signature Upgrade

Before upgrading APP signature to Vigor300B, open this page and specify a signature file by clicking **Select**. Later, click **Upgrade** to execute signature upgrade.



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4.11.10.2 Auto APP Signature Upgrade

This page allows Vigor router to execute signature upgrade automatically.

	System Maintenance >> APP 9	Signature Upgrade >> Auto APP Signature Upgrade 🥥
Auto Logout : Off 🛛 👻	APP Signature Upgrade	Auto APP Signature Upgrade
NAI Firewall Objects Setting User Management Applications	Current Signature Date : Server Signature Date : Upgrade from Server :	Check Update Install Update
Bandwidth Management	Mode :	Manual upgrade 👻
USB Application	Server :	myvigor.draytek.com 👻
System Maintenance		SysLog
TR-069		
Administrator Password		
Configuration Backup		
Syslog / Mail Alert		
Time and Date		
Access Control		
SNMP Setup		
Reboot System		
Firmware Upgrade		
APP Signature Upgrade		
APP Support List		
Diagnostics		
External Devices		
Product Registration	1	m

Item	Description			
Current Signature Date	Display the date of current signature installed on Vigor300B.			
Server Signature Date	Display the newest signature version recorded on server (myvigor.draytek.com or myvigoreu.draytek.com).			
Upgrade from Server	Get the newest signature from MyVigor server (myvigor.draytek.com or myvigoreu.draytek.com).			
	Check Update –Vigor router will inquire to MyVigor server (myvigor.draytek.com or myvigoreu.draytek.com) if there is any newest signature available for use. If yes, Vigor router will download the newest signature from the website to the host (Vigor router) automatically.			
	Install Update –If the signature information stored on MyVigor server (myvigor.draytek.com or myvigoreu.draytek.com) is newer than the version used by the host (Vigor router), then the system will install the newest signature version information automatically.			
Mode	Choose the condition to execute APP signature upgrade or send a notification. Manual upgrade Manual upgrade Notify me when new signature is available Auto upgrade when new signature is availa			
	 Manual upgrade – If it is selected, check and installation for signature will be executed only when Check Update/Install Update is pressed. Notify me when new signature is available - If it is specified, after detecting the newest signature from MyVigor server, Vigor router's system will automatically download the signature information and store on the host. Later, when 			



	the user logs into the router's web user interface, the system will give a hint to notify the user in the logging window. Auto upgrade when new signature is available - If the signature information stored on MyVigor server is newer than information stored in the host (Vigor router), then Vigor router will download and upgrade the newest information automatically.
Server	Choose a proper server for signature upgrade from the drop down list. At present, only two servers (myvigor.draytek.com or myvigoreu.draytek.com) are supported.
Syslog	Check the box to record related information on Syslog.

4.11.11 APP Support List

APP Support List displays all of the applications with versions supported by Vigor router. They are separated with types of IM, P2P, Protocol and Others. Each tab will bring out different items with supported versions.

.to Logout : Off 🛛 💌	IM	P2P	Protocol	Others	APP Signature Upgrade	
Quick Start Wizard				1		
Online Status	Type	Name		ersion	Note	
WAN	IM	AIM	5.			
LAN	IM	AIM	6/		Only block Login. If users have already logged in, AIM services can not be blocked.	
Routing	IM	Alivwv		08		
NAT	IM	Ares	2.			
Firewall	IM	BaiduHi	37	378		
Objects Setting	IM	Fetion		10		
User Management	IM	GaduGad	u Prot			
Applications	IM	Google C	hat			
andwidth Management	IM	iMessage				
JSB Application	IM	ICQ	7		In ICQ6, if Videos are blocked, Voices will be blocked at the same time. In ICQ5 or former v.	
System Maintenance 💡 🚽	IM	ICU2	8.	0.6		
TR-069	IM	iSpQ	8.	0.60		
Administrator Password	IM	Jabber Pr	rotocol/			
Configuration Backup	IM	Lava-Lava	a 20	07		
Syslog / Mail Alert	IM	MobileMS	N			
Time and Date	IM	MSN	20	11		
Access Control	IM	Paltalk	9			
SNMP Setup	IM	POCO	20	107	To block P2P, please check the P2P Object item.	
Reboot System	IM	Qnext	3.	11		
Firmware Upgrade	IM	QQ/TM		12/2009 b		
APP Signature Upgrade	IM	UC		09		
APP Support List	IM	XFire		432		
Diagnostics	IM	YM	11		Please note that the login action in YahooWebMail to YM will also be blocked if this item is	
External Devices	IM	LINE		4.1	To block LINE for PC (v3.6.0.32) and mobile phone (v4.4.1).	

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4.12 Diagnostics

In some cases, a user may need to know some information about the router, such as static or dynamic databases, or other routing information. The Vigor300B supports five functions, **Routing Table**, **ARP Cache Table**, **DHCP Assignment Table**, **Sessions Table** and **Traffic Graph** for the user to review such information.

	ignostics
	Routing Table
	ARP Cache Table
	DHCP Table
!	Session Table
	MAC Address Table
	Traffic Statistics
	Traffic Graph
1	Web Console
	Ping/Trace Route
	Data Flow Monitor
	User Status

4.12.1 Routing Table

Click **Diagnostics** and click **Routing Table** to open the web page.

4.12.1.2 Routing Table

Display the information for each route.

Di	iagnostics >> Routing	J Table >> Routing Table	e				2
Auto Logout : 5Min 🗠	Routing Table IP	6 Routing Table					
Quick Start Wizard	🔄 Refresh				L	_egend : U=Up;G=Gatev	wav:H=Hos
Online Status							
WAN	Search	Search	🧐 Search	Search	🧆 Search	Search	1
LAN	Destination	Gateway	Genmask	Flags	Metric	lface	
Routing	1 192.168.1.0	0.0.0.0	255.255.255.0	U	0	lan-lan1	
NAT							
Firewall							
Objects Setting							
User Management							
Applications							
Bandwidth Management							
USB Application							
System Maintenance 😑 🗧							
Diagnostics							
Routing Table							
ARP Cache Table							
DHCP Table							
Session Table							
MAC Address Table							
Traffic Statistics							
Traffic Graph							
Web Console							
Ping/Trace Route							
Data Flow Monitor							
User Status							
Extornal Dovices							

Item	Description
Refresh	Renew the web page.
Search	Move the mouse cursor onto the box of Search. Click the mouse button and type the keyword inside the box. The



	Routing Tab	le IPv6 Routing	Table			
	📢 Refr	esh				
	Search	1	\infty Search	1		
	Destination	Gateway	Genmask	_		
	192.168.1.0	0.0.0.0	255.255.25	5.0		
	192.168.123.0	0.0.0.0	255.255.25	5.0		
Destination	Display the des	tination IP add	lress for various ro	outings.		
Gateway	Display the def	ault gateway.				
Genmask	Display the sub	onet mask for v	arious routings.			
Flags	Display the flag of the routing entry. Possible flags include					
	U (route is up)					
	H (target is a h	ost)				
	G (use gateway	·)				
	R (reinstate rou	te for dynamic	c routing)			
	D (dynamically	installed by d	aemon or redirect))		
	M (modified fr	om routing dae	emon or redirect)			
	A (installed by	addrconf)				
	C (cache entry)					
	! (reject route)					
Metric	Display the dis It may be needed		get (usually count laemons.	ed in ho		
Iface		ofile (starting f	route represented v rom LAN/WAN p			

4.12.1.2 IPv6 Routing Table

Display the information for each route with IPv6 protocol.

Auto Logout : 5Min 👻	Ro	uting Table IPv6 Rou	ting Table				
Quick Start Wizard		-					
Online Status		s Refresh					
WAN		Search	I Search	🧐 Search	🧐 Search	🧐 Search	3
LAN		Destination	Next Hop	Flags	Metric	lface	
Routing	1	::/0	:	UG	1024	lo	
NAT	2	fe80::/64		U	256	eth0	
Firewall	3	fe80::/64	:	U	256	eth2	
Objects Setting	4	fe80::/64		U	256	eth2.1	
User Management	5	fe80::/64	:	U	256	eth2.2	
Applications	6	fe80::/64		U	256	eth2.3	
Bandwidth Management	7	fe80::/64		U	256	eth2.4	
USB Application	8	fe80::/64		U	256	lan-lan1	
System Maintenance 🔤	9	::1/128		U	0	lo	
Diagnostics	10	fe80::/128	:	U	0	lo	
Routing Table	11	fe80::/128		U	0	lo	
ARP Cache Table	12	fe80::/128	:	U	0	lo	
DHCP Table	13	fe80::/128		U	0	lo	
Session Table	14	fe80::/128		U	0	lo	
MAC Address Table	15	fe80::/128	:	U	0	lo	
Traffic Statistics	16	fe80::/128		U	0	lo	
Traffic Graph	17	fe80::21d:aaff:fea6:	62c8/ ::	U	0	lo	
Web Console	18	fe80::21d:aaff:fea6:	52c8/ ::	U	0	lo	
Ping/Trace Route	19	fe80::21d:aaff:fea6:	52c9/ ::	U	0	lo	
Data Flow Monitor	20	fe80::21d:aaff:fea6:	52c9/ ::	U	0	lo	
User Status	21	fe80::21d:aaff:fea6:	52c9/ ::	U	0	lo	
External Devices	22	fe80::21d:aaff:fea6:	62c9/ ::	U	0	lo	
External Devices	23	fe80::21d:aafffea6:	52r9/ ···	11	0	lo	

Item	Description							
Refresh	Renew the web page.							
Search	Move the mouse cursor onto the box of Search. Click the mouse button and type the keyword inside the box. The system will display the records relating to the keyword. Diagnostics >> Routing Table >> IPv6 Routing Table							
	Routing Table IPv6 Routing Table							
	🔇 Refresh							
	Search 🗞	Search	Sear					
	Destination Next Hop	Flags	Metr					
	fe80::/64 ::	U	256					
	fe80::/64 ::	U	256					
	fe80::/64 ::	U	256					
Destination	Display the destination IP address for	r various routing	s.					
Next Hop	Display the next hop address for such	n route °						
Flags	Display the flag of the routing entry. Possible flags include: U (route is up) H (target is a host) G (use gateway) R (reinstate route for dynamic routing) D (dynamically installed by daemon or redirect) M (modified from routing daemon or redirect) A (installed by <i>addrconf</i>) C (cache entry) ! (reject route)							



Metric	Display the distance to the target (usually counted in hops). It may be needed by routing daemons.
Iface	Display the direction of such route represented with LAN/WAN profile (starting from LAN/WAN profile to LAN/WAN profile).

4.12.2 ARP Cache Table

Click **Diagnostics** and click **ARP Cache Table** to view the content of the ARP (Address Resolution Protocol) cache held in the router. The table shows a mapping between an Ethernet hardware address (MAC Address) and an IP address.

4.16.2.1 ARP Cache Table

Ouick Start Wizard If V Outlet Isbu in Voltegiuou Table Online Status Refresh is Clear All WAN Search LAN Search Routing NAT Firewall Objects Setting User Management Applications Bandwidth Management User Management ARP Cache Table Session Table MAC Address Table Traffic Graph Web Console Philor Table Session Table MAC Address Table Pricewall Objects Setting User Status User Status		Di	agnosti	ics >> ARP (Cac	he Table >> ARP Cac	he Table							6
Online Status Clear All Legend: C=Complete.m=Permanenty=Publis WAN EAN Search Se	Auto Logout : Off 🛛 🗸		ARP	Cache Table		Pv6 Neighbor Table								
Online Status WAN LAN Routing NAT Firewall Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics Routing Table MAC Address Table MAC Address Table MAC Address Table MAC Address Table Diagnostics Traffic Graph Web Console PingTrace Route Object Status PingTrace Route	Quick Start Wizard			Defeash	-	Clear III					Lo	and : C=Compl	ate:M-Permanent:P	-Publiche
LAN IP Address MAC Address Interface User Netbios Name Vendor Clear Routing NAT Firewall 00:05:5dte4:d8:ee Ian-lan1 NA NA D-Link Immediate Objects Setting User National Sector National Sector National Sector Immediate	Online Status			Refresh	1									
Link Instrument Routing NAT Firewall Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics Diagnostics Routing Table ARP Cache Table MAC Address Table Traffic Statistics Traffic Statistics	WAN					1 1	1	2	1	3				1
NAT Firewall Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics Routing Table ARP Cache Table DHCP Table Session Table MAC Address Table Traffic Statistics Traffic Graph Web Console PingTrace Route Data Flow Monitor User Status	LAN			IP Address		MAC Address	Interface		User		Netbios Name	Vendor		
Firewall Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics Routing Table ARP Cache Table DHCP Table Session Table MAC Address Table Traffic Statistics Traffic Graph Web Console Ping/Trace Route Data Flow Monitor User Status	Routing		1	192.168.1.5	5	00:05:5d:e4:d8:e	e lan-lan1		NA		NA	D-Link	ma	
Objects Setting User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics Routing Table ARP Cache Table DHCP Table Session Table MAC Address Table Traffic Graph Web Console PingTrace Route Data Flow Monitor User Status	NAT													
User Management Applications Bandwidth Management USB Application System Maintenance Diagnostics Routing Table ARP Cache Table DHCP Table Session Table MAC Address Table Traffic Statistics Traffic Statistics Traffic Statistics Diagnostics Traffic Statistics Traffic Statistics Traffic Statistics Traffic Statistics Traffic Statistics Diagnostics Diagnostics Diagnostics Diagnostics ARP Cache Table DHCP Table Session Table MAC Address Table Traffic Statistics Traffic Statistics Diagnostics Diagnostics Diagnostics Diagnostics DHCP Table DHCP Tabl	Firewall													
Applications Bandwidth Management USB Application System Maintenance Diagnostics Routing Table ARP Cache Table DHCP Table DHCP Table Session Table MAC Address Table Traffic Graph Web Console Ping/Trace Route Data Flow Monitor User Status	Objects Setting													
Bandwidth Management USB Application System Mainteance Diagnostics Routing Table ARP Cache Table DHCP Table Session Table MAC Address Table Traffic Statistics Traffic Graph Web Console PingTrace Route Data Flow Monitor User Status	User Management													
USB Application System Maintenance Diagnostics Routing Table ARP Cache Table DHCP Table Session Table MAC Address Table MAC Address Table Traffic Statistics Traffic Statistics Traffic Craph Web Console Ping/Trace Route Data Flow Monitor User Status	Applications													
System Maintenance Diagnostics Routing Table ARP Cache Table DHCP Table Session Table MAC Address Table Traffic Statistics Traffic Statistics Traffic Craph Web Console PhingTrace Route Data Flow Monitor User Status	Bandwidth Management													
Diagnostics Routing Table ARP Cache Table DHCP Table Session Table MAC Address Table Traffic Statistics Traffic Graph Web Console Ping/Trace Route Data Flow Monitor User Status	USB Application													
Diagnostics Routing Table ARP Cache Table DHCP Table Session Table MAC Address Table Traffic Statistics Traffic Statistics Traffic Craph Web Console Pling/Trace Route Data Flow Monitor User Status	System Maintenance 💡 📻													
ARP Cache Table DHCP Table Session Table MACA ddress Table Traffic Statistics Traffic Statistics Traffic Graph Web Console Pling/Trace Route Data Flow Monitor User Status														
DHCP Table Session Table MAC Address Table Traffic Statistics Traffic Graph Web Console Ping/Trace Route Data Flow Monitor User Status	Routing Table													
Session Table MAC Address Table Traffic Statistics Traffic Graph Web Console Ping/Trace Route Data Flow Monitor User Status	ARP Cache Table													
MAC Address Table Traffic Statistics Traffic Graph Web Console Ping/Trace Route Data Flow Monitor User Status	DHCP Table													
Traffic Statistics Traffic Graph Web Console Ping/Trace Route Data Flow Monitor User Status	Session Table													
Traffic Graph Web Console Ping/Trace Route Data Flow Monitor User Status	MAC Address Table													
Web Console Ping/Trace Route Data Flow Monitor User Status	Traffic Statistics													
Ping/Trace Route Data Flow Monitor User Status	Traffic Graph													
Data Flow Monitor User Status	Web Console													
User Status	Ping/Trace Route													
Enternal Devices	Data Flow Monitor													
External Devices	User Status													
	External Devices													

Each item will be explained as follows:

Item	Description							
Refresh	Renew the web page.							
Clear All	Remove all of the information from this page.							
Search	Move the mouse cursor onto the box of Search. Click the mouse button and type the keyword inside the box. The system will display the records relating to the keyword.							
	192.168 🗞 Search 🗞 Search							
	IP Address HW Type MAC Address Flags							
	192.168.1.10 ether e0:cb:4e:da:48:C							
IP Address	Display the IP address for different ARP cache.							

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Item	Description
MAC Address	Display the MAC address for different ARP cache.
Interface	Display the LAN profiles used.
User	Display the name of the user.
Netbios Name	Display the Netbios name used by such device.
Vendor	Display the identity the vendor type.
Clear	Delete the selected profile.

4.12.2.2 IPv6 Neighbor Table

)iagnostics >> ARP Cache 1	able >> IPv6 Neighbor Table			2
Auto Logout : Off	ARP Cache Table IPv6	Neighbor Table			
Quick Start Wizard	🔄 Refresh	-			
Online Status	s Refresh				
WAN	Search	🐟 Search	Search	Search	10
LAN	IP Address	Profile	MAC Address	Status	
Routing			No items to show.		
NAT					
Firewall					
Objects Setting					
User Management					
Applications					
Bandwidth Management					
USB Application					
System Maintenance 🔤					
Diagnostics					
Routing Table					
ARP Cache Table					
DHCP Table					
Session Table					
MAC Address Table					
Traffic Statistics					
Traffic Graph					
Web Console					
Ping/Trace Route					
Data Flow Monitor					
User Status					
External Devices					
nn 💴					

Item	Description							
Refresh	Renew the web page.							
Search	Move the mouse cursor onto the box of Search. Click the mouse button and type the keyword inside the box. The system will display the records relating to the keyword.							
	Diagnostics >> ARP Cache Table >> IPv6 Neighbor Table							
	ARP Cache Table IPv6 Neighbor Table							
	i Refresh							
	Search 🗞 Search							
	IP Address Profile MAC Add							
	No items to show							
IP Address	Display the IPv6 address of the neighbor.							
Profile	Display the interface to which this neighbor is attached.							
MAC Address	Display the MAC address of the neighbor.							

Item	Description
Status	Display the status for such neighbor.
	INCOMPLETE - Address resolution is in progress and the link-layer address of the neighbor has not yet been determined.
	REACHABLE - The neighbor is reachable recently (within tens of seconds ago).
	STALE -The neighbor is no longer to be reachable. Yet, until traffic is sent to the neighbor, no attempt should be made to verify its reachability.
	DELAY - The neighbor is no longer to be reachable, and the traffic has recently been sent to the neighbor.
	Rather than probe the neighbor immediately, however, delay sending probes for a short while in order to give upper layer protocols a chance to provide reachability confirmation.
	PROBE - The neighbor is no longer to be reachable, and unicast Neighbor Solicitation probes are being sent to verify reachability.

4.12.3 DHCP Table

The facility provides information on IP address assignments. This information is helpful in diagnosing network problems, such as IP address conflicts, etc.

4.12.3.1 DHCP Table

Click **Diagnostics** and click **DHCP Table** to open the web page.

o Logout : Off 🛛 👻	DH	CP Table DHO	Pv6 Table						
Quick Start Wizard									
Online Status		🔊 Refresh							_
WAN		Search	Search	🧐 Search	Search	Search		Search 🕫	-
LAN		IP Address	Start Date	Start Time	End Date	End Time	Mac Address	Host ID	
Routing	1	10.39.0.14	2014/12/12	11:43:02	2014/12/13	11:43:02	00:1d:aa:af:52:39	Vigor2925	
NAT	2	10.39.0.10	2014/12/12	11:54:23	2014/12/13	11:54:23	00:50:c5:00:00:6f	AlphadeMBP	
Firewall									
Objects Setting									
Jser Management									
pplications									
andwidth Management									
ISB Application									
system Maintenance 💡 💼									
agnostics									
Routing Table									
ARP Cache Table									
DHCP Table									
Session Table									
MAC Address Table									
Traffic Statistics									
Traffic Graph									
Web Console									
Ping/Trace Route									
Data Flow Monitor									
User Status									
xternal Devices									

Item	Description								
Refresh	Renew the web page.								
Search	Move the mouse cursor onto the box of Search. Click the mouse button and type the keyword inside the box. The system will display the records relating to the keyword.								
	DHCP Table DHCPv6 Table								
	Kefresh								
	192 🗞 Search 🗞 Search Search								
	IP Address Start Date Start Time End								
	No items to si								
IP Address	Display the IP address of the static DHCP server.								
Start Date	Display the starting date that DHCP server is activated.								
Start Time	Display the starting time that DHCP server is activated.								
End Date	Display the end date that DHCP server is closed.								
End Time	Display the end time that DHCP server is closed.								
Mac Address	Display the MAC address of the static DHCP server.								



4.12.3.2 DHCPv6 Table

Click **DHCPv6 Table** to open the web page.

	Diagnostics >> DHCP Table	e >> DHCPv6 Table				2
Auto Logout : Off	DHCP Table DHCPv8	i Table				
Quick Start Wizard	S Refresh					
Online Status	-					
WAN	Search	Search	Search	Search 🕫	Search	10
LAN	Interface	IPv6 Address	Start Time	End Time	DUID	
Routing			No items to sho	w.		
NAT						
Firewall						
Objects Setting						
User Management						
Applications						
Bandwidth Management						
USB Application						
System Maintenance 💡						
Diagnostics						
Routing Table						
ARP Cache Table						
DHCP Table						
Session Table						
MAC Address Table						
Traffic Statistics						
Traffic Graph						
Web Console						
Ping/Trace Route						
Data Flow Monitor						
User Status						
External Devices						

Item	Description								
Refresh	Renew the web page.								
Search	Move the mouse cursor onto the box of Search. Click the mouse button and type the keyword inside the box. The system will display the records relating to the keyword.								
	Diagnostics >> DHCP Table >> DHCP Table								
	DHCP Table DHCPv6 Table								
	192 \infty Search \infty Search								
	IP Address Start Date Start Time End								
	No items to s								
Interface	Display the interface used by the DHCP server.								
IPv6 Address	Display the IPv6 address of the static DHCP server.								
Start Time	Display the starting time that DHCP server is activated.								
End Time	Display the end time that DHCP server is closed.								
DUID	Display the detailed information for DUID.								

4.12.4 Session Table

This table can display about 30000 sessions with 20 pages.

	Diagnostics >> Sessi							
uto Logout : Off	NAT Loca	al Service Open Port	t VPN					
Quick Start Wizard	🔹 Refresh	💼 Clear						
Online Status								
WAN	Search	🕫 Search	🔊 Search	👒 Search	🕫 Search	Search	Search 🕫	9
LAN	Source	Destination	Interface	Protocol	State	TTL	Class	
Routing				No items to sl	how.			
NAT								
Firewall								
Objects Setting								
User Management								
Applications								
Bandwidth Management								
USB Application								
System Maintenance 💡								
Diagnostics								
Routing Table								
ARP Cache Table								
DHCP Table								
Session Table								
MAC Address Table								
Traffic Statistics								
Traffic Graph								
Web Console								
Ping/Trace Route								
Data Flow Monitor								
User Status								
External Devices								

Item	Description								
Refresh	Renew the web page.								
Clear	Clear all of the information in this page.								
Search	Move the mouse cursor onto the box of Search. Click the mouse button and type the keyword inside the box. The system will display the records relating to the keyword.								
	Diagnostics >> NAT Session Table								
	🔇 Refresh								
	Search 🗞 168 🗞 Search 🗞 Sea								
	Source Destination WAN Pro								
	192.168.1.10:4655 192.168.1.3:80 192.168.1.3 tcp								
	102 168 1 10-6558 102 168 1 8-80 102 168 1 9 Hon								
Source	Display the source IP address and port of local PC.								
Destination	Display the destination IP address and port of remote host.								
Interface	Display the WAN IP address of the router.								
Protocol	Display the protocol of such NAT session used.								
State	Display the actual state of the TCP connection.								
TTL	Display how long the conntrack entry has to live.								

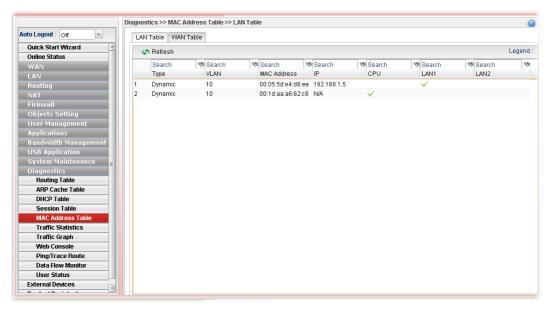


4.12.5 MAC Address Table

The MAC Address Table contains up to 8192 entries, and is sorted first by VLAN ID, then by MAC address.

Each page shows up to 999 entries from the MAC table, default being 20, selected through the "entries per page" input field. When first visited, the web page will show the first 20 entries from the beginning of the MAC Table. The first displayed will be the one with the lowest VLAN ID and the lowest MAC address found in the MAC Table.

Clicking the **Refresh** button will update the displayed table starting from that or the closest next MAC Table match.



4.12.6 Traffic Statistics

Port Statistics Overview offers an overview of general traffic statistics for all connecting ports.

to Logout : Off 🛛 🗠	Po	rt Statistics O	verview Port Detailed	Statistics					
Quick Start Wizard		🔹 Refresh	💼 Clear						
Online Status		S Refresh							
WAN		Search		1					🗞 Search 🛛 🦻
LAN		Port	Receive(Pack	. Transmit(Pac.	Receive(Bytes)	Transmit(Bytes) Receive(Errors)	Transmit(Err	Filtered Receive
Routing	1	WAN1	0	0	0	0	0	0	0
NAT	2	WAN2	0	0	0	0	0	0	0
Firewall	3	WAN3	0	0	0	0	0	0	0
Objects Setting	4	WAN4	0	0	0	0	0	0	0
User Management	5	LAN1	122	115	27.12 (KB)	26.42 (KB)	0	0	0
Applications	6	LAN2	0	0	0	0	0	0	0
Bandwidth Management									
USB Application									
System Maintenance 📄									
Diagnostics									
Routing Table									
ARP Cache Table									
DHCP Table									
Session Table									
MAC Address Table									
Traffic Statistics									
Traffic Graph									
Web Console									
Ping/Trace Route									
Data Flow Monitor									
User Status									
External Devices	22								

Each item will be explained as follows:

Item Description



Refresh	Click it to reload the page.			
Clear	Click it to clear the counters for all ports.			
Port	Display the interface that data transmission passing through.			
Receive/Transmit (Packets)	Display the packet sizes for data transmission in receiving and sending.			
Receive/Transmit (Bytes)	Display the number of received and transmitted bytes per port.			
Receive/Transmit (Error)	Display the number of the error occurred in data receiving and data sending.			
Filtered Receive	Display the number of received frames filtered by the forwarding process.			

Port Detailed Statistics displays detailed statistics for WAN/LAN interface.

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4.12.7 Traffic Graph

Click **Diagnostics** and click **Traffic Graph** to pen the web page. Choose the **Setup** tab to specify LAN and WAN profiles to display corresponding graphs for CPU, Memory, LAN, WAN configurations and session. Click **Refresh** to renew the graph at any time.

	Diagnostics >> Traffic Graph >> Setup	2
Auto Logout : Off	CPU Memory LAN WAN Session Setup	
Quick Start Wizard		
Online Status	Enable	
WAN		
LAN		
Routing	WAN :	
NAT	want	
Firewall	a wan2 wan3	
Objects Setting	wan4	
User Management	usb1	
Applications	usb2	
Bandwidth Management		
USB Application		
System Maintenance 😑		
Diagnostics		
Routing Table		
ARP Cache Table		
DHCP Table		
Session Table		
MAC Address Table		
Traffic Statistics		
Traffic Graph		
Web Console		
Ping/Trace Route		
Data Flow Monitor		
User Status		
External Devices		💾 Apply
		,

Item	Description
Setup	In this page, simply specify which LAN profile and WAN profile will be applied. The traffic graph will be drawn based on the profiles selected.
	Enable – Check this box to enable such profile.
	LAN – Use the drop down menu to choose a LAN profile.
	WAN –Use the drop down menu to choose a WAN profile.
	Apply - Click it to save the configuration configured under the Setup tab.
CPU	Click the CPU tab.
	There are three selections provided for you to specify.
	Recent 24 Hours – Display the information of CPU operation about recent 24 hours.
	Recent 7 Days – Display the information of CPU operation about recent 7 days.
	Recent 4 Weeks – Display the information of CPU operation about recent 4 weeks.
Memory	Click the Memory tab.
	There are three selections provided for you to specify.
	Recent 24 Hours – Display the information of memory operation about recent 24 hours.
	Recent 7 Days – Display the information of memory operation about recent 7 days.
	Recent 4 Weeks – Display the information of memory

Item	Description
	operation about recent 4 weeks.
LAN	Click the LAN tab.
	Network Interface – Display the information of LAN operation.
	There are three selections provided for you to specify.
	Recent 24 Hours – Display the information of LAN operation about recent 24 hours.
	Recent 7 Days – Display the information of LAN operation about recent 7 days.
	Recent 4 Weeks – Display the information of LAN operation about recent 4 weeks.
WAN	Click the WAN tab.
	Network Interface – Display the information of WAN operation.
	There are three selections provided for you to specify.
	Recent 24 Hours – Display the information of WAN operation about recent 24 hours.
	Recent 7 Days – Display the information of WAN operation about recent 7 days.
	Recent 4 Weeks – Display the information of WAN operation about recent 4 weeks.
Session	Click the Session tab.
	There are three selections provided for you to specify.
	Recent 24 Hours – Display the information of sessions about recent 24 hours.
	Recent 7 Days – Display the information of sessions about recent 7 days.
	Recent 4 Weeks – Display the information of sessions about recent 4 weeks.

Below show a graphic for CPU:

agnostics >> Traffic Graph >> CPU
CPU Memory LAN WAN Session Setup
Interval : Recent 24 Hours Recent 7 Days Recent 4 Weeks
CPU Usage(%)
V Idle V System V User V Nice
0.5
0.0
-0.5
-1.0
0:00
4 m s

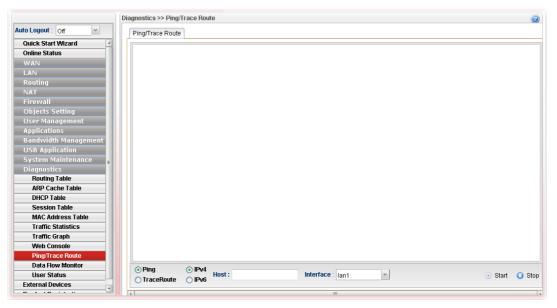
4.12.8 Web Console

Click **Diagnostics** and click **Web Console** to pen the web page for typing commands used in console connection. A remote user can operate Vigor300B from this web page without installing and opening other connection utility.

: MARIE (D)	el http://192.168.1.1/webshell/	_
login:		

4.12.9 Ping/Trace Route

This page allows you to trace the routes from router to the host. Simply type the IP address of the host in the box and click **Start**. The result of route trace will be shown on the screen.



Each item will be explained as follows:

Item	Description
Ping / TraceRoute	Click Ping to perform ping function. Click TraceRoute to invoke trace router function.
IPv4 / IPv6	Click IPv4 /IPv6 to determine the format of the IP address that you can type.
Host	Type the IP address of the host.
Interface	Choose one of the LAN or WAN profile to be applied by such function.
Start	Click it to start the action of Ping or TraceRoute.
Stop	Click it to terminate the action of Ping or TraceRoute.

4.12.10 Data Flow Monitor

This page displays the running procedure (such as IP address, session number, transmission rate, receiving rate, and duration of the time block) by list or by chart for the IP address monitored and refreshes the data in an interval of several seconds.

IP Address	RX Rate (Kbps)	TX Rate (Kbps)	RX Bytes No items to show.	TX Bytes	Sessions	Block Time
			No items to show			
Profile	IP	RX Rate (Kbps)	TX Rate (Kbps)	RX Bytes	TX Bytes	
wan1	172.16.3.123	24	15	34.85 (MB)	5.66 (MB)	
wan2	10.0.0.39	0	0	371.06 (KB)	326.48 (KB)	
total		24	15	35.22 (MB)	5.97 (MB)	

4.12.10.1 Data Flow Monitor

Each item will be explained as follows:

Item	Description				
Enable Dataflow Monitor	Check this box to enable dataflow monitor performed by the router.				
Refresh	Click it to renew the web page.				
Chart	Click this button to illustrate data chart. Refer to the following figure as an example.				
Recent 1 Hour/ Recent 24 Hours / Recent 7 Days	Display the records with 1 hour/24 hours/7 days recently.				
Auto Refresh	Specify the interval of refresh time to obtain the latest status. The information will update immediately when the Refresh				

	button is clicked.
IP Address	Display the IP address of the monitored device.
RX Rate (kbps)	Display the receiving speed of the monitored device.
TX Rate (kbps)	Display the transmission speed of the monitored device.
RX Bytes	Display the receiving file size of the monitored device.
TX Bytes	Display the transmitted file size of the monitored device.
Sessions	Display the session number that you specified in Limit Session web page.
Block Time	Display the time for the duration of the block.
Profile	Display the WAN interface.
IP	Display the IP address of the WAN interface.
RX Rate(kbps)	Display the rate of data received.
TX Rate(kbps)	Display the rate of data transmitted.
RX Bytes	Display the file size of data received.
TX Bytes	Display the file size of data transmitted.

4.12.10.2 Service Usage Monitor

uto Logout : Off	Data Flow Mo	nitor Service U	Jsage Monitor					
NAI 💽	Fnable Da	taflow Monitor	Filter Status IP Ad	dress · 0.0.0.0	Subnet	Mask : 255.25	5.255.255/32 💌	
Objects Setting						233.23	5.255.255/52	
User Management	🕼 Add 🄀	Edit <u> î</u> Delete	Auto Refresh : 1 Mi	nute 🛛 👱 娕 Refre	sh	F	Profile Number Lin	nit : 10
Applications	Profile	Port	Protocol	RX Rate (Kbps)	TX Rate (Kbps)	RX Bytes	TX Bytes	
Bandwidth Management	FTP-data	20	TCP/UDP	0	0	0	0	-
USB Application	FTP-ctl	21	TCP/UDP	0	0	0	0	ſ
System Maintenance	SSH	22	TCP/UDP	0	0	0	0	
Diagnostics	Teinet	23	TCP/UDP	0	0	0	0	
Routing Table	SMTP	25	TCP/UDP	0	0	0	0	
ARP Cache Table	DNS	53	TCP/UDP	0	0	0	0	
DHCP Table	TETP	69	TCP/UDP	0	0	0	0	
Session Table	HTTP	80	TCP/UDP	0	0	7.79 (MB)	0	
MAC Address Table	POP3	110	TCP	0	0	0	0	
Traffic Statistics	SFTP	115	TCP	0	0	0		
Traffic Graph				-	-	-	0	
Web Console	NNTP	119	TCP	0	0	0	0	
Ping/Trace Route	Profile	IP	RX Rate	(Kbps) TX Rate	(Kbps) RX E	lytes	TX Bytes	
Data Flow Monitor	wan1		0	0	0		0	
User Status	total		0	0	0		0	
External Devices								

Each item will be explained as follows:

Item	Description
Enable Dataflow Monitor	Check this box to enable such function.

4.12.11 User Status

This page displays related information of user status, PPPoE Server, and User Management, for reference.

	Diag	nostics >> User Status >> Use	r Status				2
Auto Logout : Off 🛛 💌		User Status PPPoE Server	Jser Management				
NAI 💽		Auto Refresh : 1 Minute	🔹 Refresh				
Firewall			v ivenesii				
Objects Setting		User Name / VPN	Туре	IP / Remo	ote IP	Up Time / Login Time	
User Management				No items to show.			
Applications				NO REHIS LO SHOW.			
Bandwidth Management							
USB Application							
System Maintenance							
Diagnostics							
Routing Table							
ARP Cache Table							
DHCP Table							
Session Table							
MAC Address Table							
Traffic Statistics							
Traffic Graph							
Web Console							
Ping/Trace Route							
Data Flow Monitor							
User Status							
External Devices							
Product Registration							

4.13 External Devices

Vigor router can be used to connect with many types of external devices. In order to control or manage the external devices conveniently, open **External Devices** to make detailed configuration.

to Logout 🗄 5Min 🔤 👻	External Device	es					
Quick Start Wizard	Extornal D	evice Auto Discovery 🧔	Defrech				
Online Status							_
WAN	Status	Model Name	MAC Address	IP Address	Connection Time	Clear	
LAN			No	items to show.			
Routing							
NAT							
Firewall							
Objects Setting							
User Management							
Applications							
Bandwidth Management							
USB Application							
System Maintenance							
Diagnostics							
External Devices							
Product Registration							

Each item will be explained as follows:

Item	Description
Enable External Devices	Check the box to detect the external device connected to Vigor300B.
Refresh	Click it to renew the web page.
Status	Display the status (on line or off line) of the external device.
Model Name	Display the model name of the external product.
MAC Address	Display the MAC address of the external product.
IP Address	Display the IP address of the external product.
Connection Time	Display the connection time that the external product connecting to Vigor300B.
Clear	Allow to delete the selected profile. Click the icon to remove the record of the device when it is offline.

From this web page, check the box of **Enable External Devices**. Later, all the available devices will be displayed in this page with icons and corresponding information. You can change the device name if required or remove the information for off-line device whenever you want.

Note: Only DrayTek products can be detected by this function.

4.14 Product Registration

Please refer to section 2.3 Register Vigor Router for more detailed information.

Chapter 5: Trouble Shooting

This section will guide you to solve abnormal situations if you cannot access into the Internet after installing the router and finishing the web configuration. Please follow sections below to check your basic installation status stage by stage.

- Checking if the hardware status is OK or not.
- Checking if the network connection settings on your computer are OK or not.
- Pinging the router from your computer.
- Checking if the ISP settings are OK or not.
- Backing to factory default setting if necessary.

If all above stages are done and the router still cannot run normally, it is the time for you to contact your dealer for advanced help.

5.1 Checking If the Hardware Status Is OK or Not

Follow the steps below to verify the hardware status.

- 1. Check if the power line and WLAN/LAN cable connections is OK. If not, refer to "**1.3 Hardware Installation**" for reconnection.
- 2. Turn on the router. Make sure the **ACT LED** blink once per second and the correspondent **LAN LED** is bright.



3. If not, it means that there is something wrong with the hardware status. Simply back to "**1.3 Hardware Installation**" to execute the hardware installation again. And then, try again.



5.2 Checking If the Network Connection Settings on Your Computer Is OK or Not

Sometimes the link failure occurs due to the wrong network connection settings. After trying the above section, if the link is stilled failed, please do the steps listed below to make sure the network connection settings is OK.

For Windows

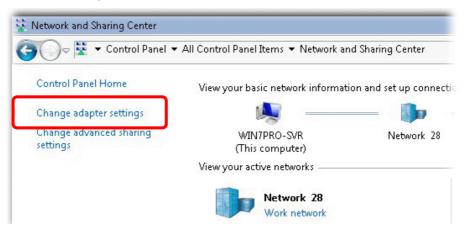


The example is based on Windows XP. As to the examples for other operation systems, please refer to the similar steps or find support notes in **www.draytek.com**.

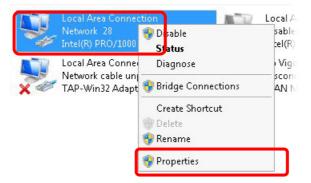
1. Open All Programs>>Getting Started>>Control Panel. Click Network and Sharing Center.



2. In the following window, click Change adapter settings.



3. Icons of network connection will be shown on the window. Right-click on Local Area Connection and click on Properties.



4. Select Internet Protocol Version 4 (TCP/IP) and then click Properties.

Local Area Connect	ion Properties	
Networking Sharing		
Connect using:		
11tel(R) PRO/10	000 MT Network Conne	ection
		Configure
This connection uses	the following items:	
🗹 🔮 Client for Mic		
Privacyware		
QoS Packet		5. F
	er Sharing for Microsoft	
	ocol Version 4 (TCP/IP)	
	opology Discovery Map	
	opology Discovery Res	ponder
Install	Uninstall	Properties
- Description		

5. Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**. Finally, click **OK**.

ou can get IP settings assigned aut is capability. Otherwise, you need r the appropriate IP settings.					
Obtain an IP address automatic	ally:				
😳 Use the following IP address:—					
IP address:			9	1	
Subnet mask:		10			
Default gateway:			- D		
Obtain DNS server address aut	omatic	ally			
🔿 Use the following DNS server a	ddress	es:			
Preferred DNS server:		3		аў. Г	
Alternate DNS server:		2	1		
Validate settings upon exit				Adv	anced

For Mac OS

- 1. Double click on the current used Mac OS on the desktop.
- 2. Open the **Application** folder and get into **Network**.
- 3. On the **Network** screen, select **Using DHCP** from the drop down list of Configure IPv4.

	Network	
how All Display	s Sound Network Startup Disk	
	Location: Automatic	
	Show: Built-in Ethernet	
	TCP/IP PPPoE AppleTalk Proxies Etherne	t
Configure	IPv4: Using DHCP	
IP Add	dress: 192.168.1.10	w DHCP Lease
		quired)
R	outer: 192.168.1.1	
DNS Se	rvers:	(Optional)
Search Don	nains:	(Optional)
IPv6 Add	lress: fe80:0000:0000:0000:020a:95ff:fe8d:72e4	
	Configure IPv6	(?)

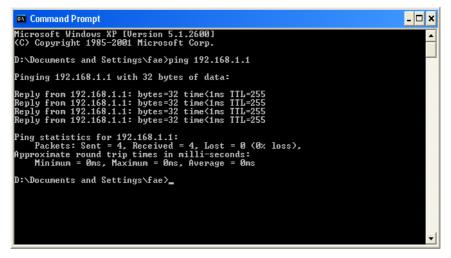
5.3 Pinging the Router from Your Computer

The default gateway IP address of the router is 192.168.1.1. For some reason, you might need to use "ping" command to check the link status of the router. **The most important thing is that the computer will receive a reply from 192.168.1.1.** If not, please check the IP address of your computer. We suggest you setting the network connection as **get IP automatically**. (Please refer to the section 5.2)

Please follow the steps below to ping the router correctly.

For Windows

- 1. Open the **Command** Prompt window (from **Start menu> Run**).
- 2. Type **command** (for Windows 95/98/ME) or **cmd** (for Windows NT/ 2000/XP/Vista/7). The DOS command dialog will appear.



- 3. Type ping 192.168.1.1 and press [Enter]. If the link is OK, the line of **"Reply from 192.168.1.1:bytes=32 time<1ms TTL=255"** will appear.
- 4. If the line does not appear, please check the IP address setting of your computer.

For Mac OS (Terminal)

- 1. Double click on the current used Mac OS on the desktop.
- 2. Open the Application folder and get into Utilities.
- 3. Double click **Terminal**. The Terminal window will appear.
- 4. Type **ping 192.168.1.1** and press [Enter]. If the link is OK, the line of **"64 bytes from 192.168.1.1: icmp_seq=0 ttl=255 time=xxxx ms**" will appear.



000	Terminal – bash – 80x24	
Welcome to Darwin! Vigor18:~ draytek\$ p PING 192.168.1.1 (19 64 bytes from 192.16 64 bytes from 192.16 64 bytes from 192.16 64 bytes from 192.16	3 02:24:18 on ttyp1 ping 192.168.1.1 92.168.1.1): 56 data bytes 58.1.1: icmp_seq=0 ttl=255 time=0.755 ms 58.1.1: icmp_seq=1 ttl=255 time=0.697 ms 58.1.1: icmp_seq=2 ttl=255 time=0.716 ms 58.1.1: icmp_seq=3 ttl=255 time=0.721 ms 58.1.1: icmp_seq=4 ttl=255 time=0.72 ms	(N)
192.168.1.1 ping 5 packets transmitte	ed, 5 packets received, 0% packet loss max = 0.697/0.723/0.755 ms	

5.4 Checking If the ISP Settings are OK or Not

Open Online Status to check current network status. Be careful to check if the settings coming from your ISP have been typed correctly or not.



If there is something wrong with the configuration, please go to **WAN** page and choose **General Setup** again to modify the WAN connection.

5.5 Backing to Factory Default Setting If Necessary

Sometimes, a wrong connection can be improved by returning to the default settings. Try to reset the router by software or hardware.



Warning: After pressing **factory default setting**, you will lose all settings you did before. Make sure you have recorded all useful settings before you pressing. The password of the factory default is null.

Software Reset

You can reset router to factory default via Web page.

Go to **System Maintenance** and choose **Reboot System** on the web page. The following screen will appear. Choose **Reboot with Factory Default Configuration** and click **Reboot**. After few seconds, the router will return all the settings to the factory settings.

System Maintenanc	System Maintenance >> Reboot System >> Reboot System 🥥					
Reboot System	Schedule Reboot					
	 Reboot with C Reboot with Factoria 	urrent Configurations actory Default Configurat ustomized Configuration cate Files				
						🕹 Reboot

Hardware Reset

While the router is running (ACT LED blinking), press the **Factory Reset** button and hold for more than 5 seconds. When you see the ACT LED blinks rapidly, please release the button. Then, the router will restart with the default configuration.





After restore the factory default setting, you can configure the settings for the router again to fit your personal request.

5.6 Contacting DrayTek

If the router settings are correct at all, and the router still does not connect to internet, please contact your ISP technical support representative to help you for configuration.

Also, if the router still cannot work correctly, please contact your dealer for help. For any further questions, please send e-mail to **<u>support@draytek.com</u>**.