

Vigor2850 Series VDSL2 Security Firewall



V2.0

Quick Start Guide

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Vigor2850 Series VDSL2 Security Firewall Quick Start Guide

Version: 1.1 Firmware Version: V3.6.2_RC1 Date: 02/03/2012

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Safety Instruction	s and Approval
Safety Instructions	 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. Do not stack the routers. 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
Warranty	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 Registered Owner	Web registration is preferred. You can register your Vigor router via http://www.draytek.com.
Firmware & Tools Updates	Due to the continuous evolution of DrayTek technology, all routers will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents. http://www.draytek.com

Dray Tek

European Community Declarations

Manufacturer:	DrayTek Corp.
Address:	No. 26, Fu Shing Road, Hukou Township, Hsinchu Industrial Park, Hsinchu County,
	Taiwan 303
Product:	Vigor2850 Series Router

DrayTek Corp. declares that Vigor2850 Series of routers are in compliance with the following essential requirements and other relevant provisions of R&TTE Directive 1999/5/EEC.

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

The product conforms to the requirements of Low Voltage (LVD) Directive 2006/95/EEC 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 B 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.

http://www.draytek.com/user/AboutRegulatory.php



This product is designed for the DSL, ISDN, POTS, and 2.4GHz/5GHz WLAN network throughout the EC region and Switzerland with restrictions in France. Please see the user manual for the applicable networks on your product.



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1. Introduction

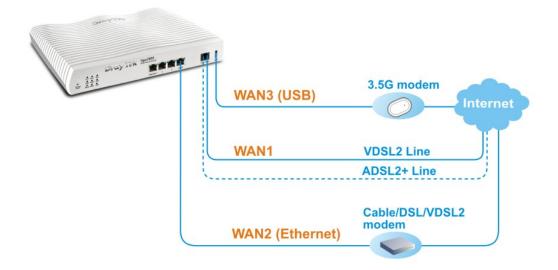
Vigor2850 series is a VDSL2 router with multi-subnet for secure and efficient workgroup management. It integrates IP layer QoS, NAT session/bandwidth management to help users control works well with large bandwidth.

By adopting hardware-based VPN platform and hardware encryption of AES/DES/3DES, and hardware key hash of SHA-1/MD5, the router increases the performance of VPN greatly and offers several protocols (such as IPSec/PPTP/L2TP) with up to 32 VPN tunnels.

The object-based design used in SPI (Stateful Packet Inspection) firewall allows users to set firewall policy with ease. CSM (Content Security Management) provides users control and management in IM (Instant Messenger) and P2P (Peer to Peer) more efficiency than before. In addition, DoS/DDoS prevention and URL/Web content filter strengthen the security outside and control inside.

Vigor2850 series supports USB interface for connecting USB printer to share printing function, 3G USB modem for network connection, or connectivity for network FTP service.

Multi-WAN Load Balancing/Failover

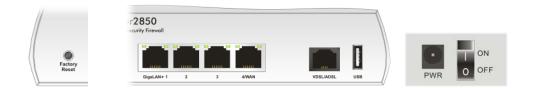




1.1 Panel Explanation

1.1.1 For Vigor2850

	Dro	Tek	Vigor2850 IDSL2 Security Firewall			
Factory Reset W	SB ADSL VPN		GigaLAN>1 2 3 4WAN VOSLADSL USB			
LED		Status	Explanation			
ACT (Activi	ity)	Blinking	The router is powered on and running normally.			
		Off	The router is powered off.			
USB		On	USB device is connected and ready for use.			
		Blinking	The data is transmitting.			
WAN2		On	Internet connection is ready.			
		Off	Internet connection is not ready.			
		Blinking	The data is transmitting.			
WCF		On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).			
ADSL		On	The router is ready to access Internet through ADSL link.			
		Blinking	Slowly: The ADSL connection is ready. Quickly: The connection is training.			
VDSL	VDSL		The router is ready to access Internet through VDSL link.			
		Blinking	Slowly: The VDSL connection is ready. Quickly: The connection is training.			
DoS		On	The DoS/DDoS function is active.			
		Blinking	It will blink while detecting an attack.			
VPN		On	The VPN tunnel is active.			
QoS		On	The QoS function is active.			
LED on Co	nnector		•			
	Left LED	On	The port is connected.			
GigaLAN	(Green)	Off	The port is disconnected.			
1/2/3		Blinking	The data is transmitting.			
	Right LED	On	The port is connected with 1000Mbps.			
	(Green)	Off	The port is connected with 10/100Mbps			
	Left LED	On	The port is connected.			
GigaLAN	(Green)	Off	The port is disconnected.			
4/WAN		Blinking	The data is transmitting.			
	Right LED	On	The port is connected with 1000Mbps.			
	(Green)	Off	The port is connected with 10/100Mbps			



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.
GigaLAN (1-3)	Connecters for local network devices.
4/WAN	Connecter for local network devices or modem for accessing Internet.
VDSL/ADSL	Connecter for accessing the Internet.
USB	Connecter for a USB device (for 3G USB Modem or printer).
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.



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1.1.2 For Vigor2850n

۲			DretyTek	Vigor2850n VDSL2 Security Firewall					
Wireless LAN ON/OFF/WPS	USB A	AN DoS							
Reset	WAN2 VE	SL Q05		GigaLAN ► 1	2	3	4/WAN	VDSL/ADSL	USB

LED		Status	Explanation		
ACT (Activi	ity)	Blinking	The router is powered on and running normally.		
		Off	The router is powered off.		
USB	USB		USB device is connected and ready for use.		
			The data is transmitting.		
WAN2		On	Internet connection is ready.		
			Internet connection is not ready.		
		Blinking	The data is transmitting.		
WLAN		On	Wireless access point is ready.		
			It will blink slowly while wireless traffic goes through. ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)		
ADSL	ADSL		ADSL		The router is ready to access Internet through ADSL link.
			Slowly: The ADSL connection is ready. Quickly: The connection is training.		
VDSL	VDSL		The router is ready to access Internet through VDSL link.		
		Blinking	Slowly: The VDSL connection is ready. Quickly: The connection is training.		
DoS		On	The DoS/DDoS function is active.		
		Blinking	It will blink while detecting an attack.		
VPN		On	The VPN tunnel is active.		
QoS		On	The QoS function is active.		
LED on Co	nnector				
	Left LED	On	The port is connected.		
GigaLAN	(Green)	Off	The port is disconnected.		
1/2/3		Blinking	The data is transmitting.		
	Right LED	On	The port is connected with 1000Mbps.		
	(Green)	Off	The port is connected with 10/100Mbps		
	Left LED	On	The port is connected.		
GigaLAN	(Green)	Off	The port is disconnected.		
4/WAN		Blinking	The data is transmitting.		
	Right LED	On	The port is connected with 1000Mbps.		
	(Green)	Off	The port is connected with 10/100Mbps		
			· • •		



Interface	Description
Wireless LAN	Press "Wireless LAN ON/OFF/WPS" button once to wait for client
ON/OFF/WPS	device making network connection through WPS.
	Press "Wireless LAN ON/OFF/WPS" button twice to enable (WLAN
	LED on) or disable (WLAN LED off) wireless connection.
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.
GigaLAN (1-3)	Connecters for local network devices.
4/WAN	Connecter for local network devices or modem for accessing Internet.
VDSL/ADSL	Connecter for accessing the Internet.
USB	Connecter for a USB device (for 3G USB Modem or printer).
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

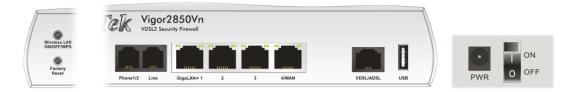


1.1.3 For Vigor2850Vn

			Droy Tek	Vi	gor2	2850Vn rity Firewall					
Factory	ACT WLAN	O Phone1	[Ī.				 			
100001	THAT TOOL	HUHUL	Phone1	2 L	ine	GigaLAN ► 1	2	3	4/WAN	VDSL/ADSL	USB

LED		Status	Explanation	
ACT (Activity	y)	Blinking	The router is powered on and running normally.	
		Off	The router is powered off.	
USB		On	USB device is connected and ready for use.	
		Blinking	The data is transmitting.	
WAN2		On	Internet connection is ready.	
			Internet connection is not ready.	
		Blinking	The data is transmitting.	
WLAN		On	Wireless access point is ready.	
		Blinking	It will blink slowly while wireless traffic goes through. ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)	
ADSL		On	The router is ready to access Internet through ADSL link.	
		Blinking	Slowly: The ADSL connection is ready. Quickly: The connection is training.	
VDSL		On	The router is ready to access Internet through VDSL link.	
		Blinking	Slowly: The VDSL connection is ready. Quickly: The connection is training.	
Line	Line		A PSTN phone call comes (in and out). However, when the phone call is disconnected, the LED will be off.	
		Off	There is no PSTN phone call.	
Phone 1/2		On	The phone connected to this port is off-hook.	
		Off	The phone connected to this port is on-hook.	
		Blinking	A phone call comes.	
LED on Con	nector			
	Left LED	On	The port is connected.	
GigaLAN	(Green)	Off	The port is disconnected.	
1/0/2			· · · ·	

	Left LED	On	The port is connected.
GigaLAN	(Green)	Off	The port is disconnected.
1/2/3		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
	(Green)	Off	The port is connected with 10/100Mbps
	Left LED	On	The port is connected.
GigaLAN	(Green)	Off	The port is disconnected.
4/WAN		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 1000Mbps.
	(Green)	Off	The port is connected with 10/100Mbps



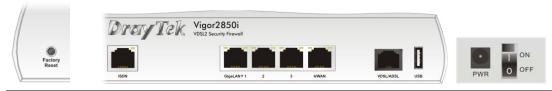
Interface	Description
Wireless LAN ON/OFF/WPS	Press "Wireless LAN ON/OFF/WPS" button once to wait for client device making network connection through WPS. Press "Wireless LAN ON/OFF/WPS" button twice to enable (WLAN
	LED on) or disable (WLAN LED off) wireless connection.
Factory Reset	Restore the default 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.
Phone 1/2	Connecter for analog phone(s).
Line	Connector for PSTN life line.
GigaLAN (1-3)	Connecters for local network devices.
4/WAN	Connecter for local network devices or modem for accessing Internet.
VDSL/ADSL	Connecter for accessing the Internet.
USB	Connecter for a USB device (for 3G USB Modem or printer).
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.



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1.1.4 For Vigor2850i

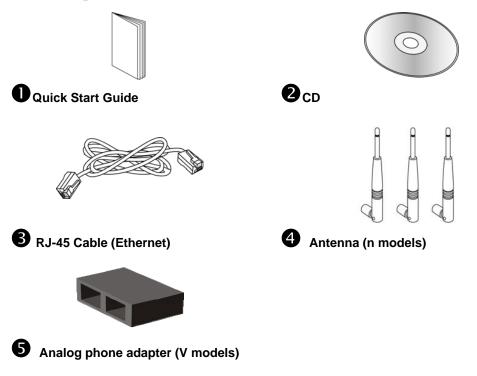
	Dre	Tek 🖁	/igor2850i DSL2 Security Firewall		
Factory Reset WA	T WCF DoS B ADSL VPN N2 VDSL QoS ISDN		GigsLAN > 1 2 3 4/WAN VDSL/ADSL USB		
LED		Status	Explanation		
ACT (Activi	ity)	Blinking	The router is powered on and running normally.		
	-	Off	The router is powered off.		
USB		On	USB device is connected and ready for use.		
		Blinking	The data is transmitting.		
WAN2		On	Internet connection is ready.		
			Internet connection is not ready.		
		Blinking	The data is transmitting.		
WCF		On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).		
		Off	The Web Content Filter is disabled.		
ADSL		On	The router is ready to access Internet through ADSL link.		
		Blinking	Slowly: The ADSL connection is ready. Quickly: The connection is training.		
VDSL		On	The router is ready to access Internet through VDSL link.		
		Blinking	Slowly: The VDSL connection is ready. Quickly: The connection is training.		
DoS		On	The DoS/DDoS function is active.		
		Blinking	It will blink while detecting an attack.		
VPN		On	The VPN tunnel is active.		
QoS		On	The QoS function is active.		
LED on Co	nnector				
	Right LED	On	The port is connected.		
ISDN	(Green)	Off	The port is disconnected.		
		Blinking	The data and voice are transmitting.		
	Left LED	On	The port is connected.		
GigaLAN	(Green)	Off	The port is disconnected.		
1/2/3	. ,	Blinking	The data is transmitting.		
	Right LED	On	The port is connected with 1000Mbps.		
	(Green)	Off	The port is connected with 10/100Mbps		
	Left LED	On	The port is connected.		
GigaLAN	(Green)	Off	The port is connected.		
4/WAN		Blinking	The data is transmitting.		
	Right LED	On	The port is connected with 1000Mbps.		
	(Green)	Off	The port is connected with 10/100Mbps		
	(<i>-</i> /	011	The port is connected with 10/100000ps		



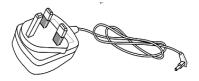
Interface	Description
Factory Reset	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
ISDN	Connecter for ISDN line.
GigaLAN (1-3)	Connecters for local network devices.
4/WAN	Connecter for local network devices or modem for accessing Internet.
VDSL/ADSL	Connecter for accessing the Internet.
USB	Connecter for a USB device (for 3G USB Modem or printer).
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.



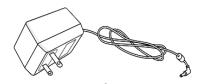
1.2 Package Content



6 The type of the power adapter depends on the country that the router will be installed:

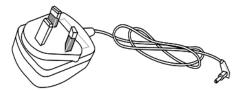


UK-type Power Adapter



USA/Taiwan-type Power Adapter

EU-type Power Adapter



AU/NZ-type Power Adapter

* The maximum power consumption is 24 Watt.

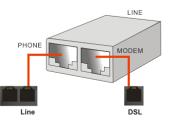
2. Installing Your Router

This section will guide you to install the router through hardware connection and configure the router's settings through web browser.

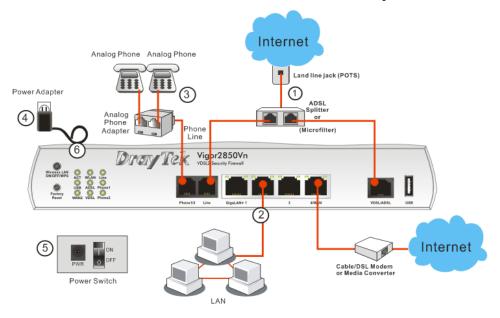
2.1 Hardware Installation

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

1. Connect the XDSL interface to the external XDSL splitter with an XDSL line cable for all models. For Vigor2850Vn, also connect Line interface to external XDSL splitter.



- 2. Connect one end of an Ethernet cable (RJ-45) to one of the LAN ports of the router and the other end of the cable (RJ-45) into the Ethernet port on your computer.
- 3. Connect the telephone set with phone lines (for using VoIP function). For the model without phone ports, skip this step.
- 4. Connect one end of the power adapter to the router'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.
- 6. The system starts to initiate. After completing the system test, the **ACT** LED will light up and start blinking.

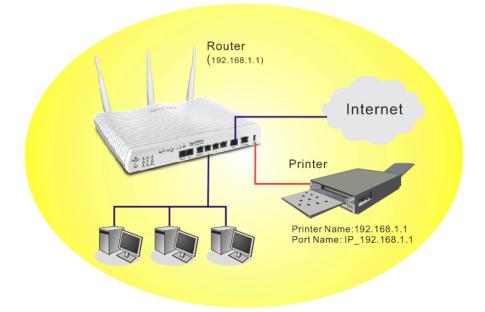


(For the hardware connection, we take "Vn" model as an example.)



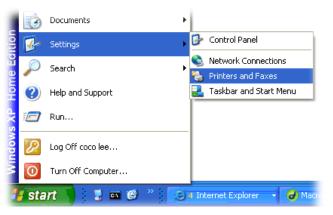
2.2 Printer Installation

You can install a printer onto the router for sharing printing. All the PCs connected this router can print documents via the router. The example provided here is made based on Windows XP/2000. For Windows 98/SE/Vista, please visit www.draytek.com.



Before using it, please follow the steps below to configure settings for connected computers (or wireless clients).

- 1. Connect the printer with the router through USB port.
- 2. Open Start->Settings-> Printers and Faxes.



3. Open File->Add a New Computer. A welcome dialog will appear. Please click Next.



4. Click Local printer attached to this computer and click Next.



5. In this dialog, choose **Create a new port Type of port** and use the drop down list to select **Standard TCP/IP Port**. Click **Next**.

Select the port you want yo new port.	our printer to use. If the port is not listed, you can c	reate a
OUse the following port:	LPT1: (Recommended Printer Port)	*
These encourses after fair their	port should look something like this:	
	por should how some ing ince this	



6. In the following dialog, type **192.168.1.1** (router's LAN IP) in the field of **Printer Name or IP Address** and type **IP_192.168.1.1** as the port name. Then, click **Next**.

Standard TCP/IP Printer Add Port For which device do you want	
Enter the Printer Name or IP a	ddress, and a port name for the desired device.
Printer Name or IP <u>A</u> ddress:	192.168.1.1
Port Name:	IP_192.168.1.1
	< <u>Back</u> Next> Cancel

7. Click Standard and choose Generic Network Card.

ld Standard TCP/IP Printer Port Wizard 🛛 🛛 🔯
Additional Port Information Required The device could not be identified.
The detected device is of unknown type. Be sure that: 1. The device is properly configured. 2. The address on the previous page is correct. Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct. Device Type
© Standard Generic Network Card
< <u>₿</u> ack <u>N</u> ext > Cancel

8. Then, in the following dialog, click **Finish**.

Add Standard TCP/IP Prin	ter Port Wiza	ard 🛛 🕅
	TCP/IP	ting the Add Standard Printer Port Wizard cted a port with the following characteristics.
	Device: Port Name:	No RAW, Port 9100 192.168.1.1 IP_192.168.1.1 Generic Network Card
	To complete th	ile wizard, click Finish.

9. Now, your system will ask you to choose right name of the printer that you installed onto the router. Such step can make correct driver loaded onto your PC. When you finish the selection, click **Next**.

Install Printer Softw The manufacturer	are and model determine which printer software to	use.
	facturer and model of your printer. If your printe Disk. If your printer is not listed, consult your p er software.	
Manufacturer	Printers	
	Brother HL-1060 BR-Script2	
AST AT&T		-
Brother	Brother HL-1070 BR-Script2	
AT&T		
AT&T Brother Bull Canon	Brother HL-1070 BR-Script2 Brother HL-1070 Brother HL-10PS7DPS	
AT&T Brother Buil Canon	Signed.	date <u>H</u> ave Disk

10. For the final stage, you need to go back to **Control Panel-> Printers** and edit the property of the new printer you have added.

eneral S	iharing P	orts	Advance	d Dev	ice Setti	ngs	
	Brother Hl	1070	J				
checked		port(s). Documer		5072000	e first free	
Port	Desc	ription		Printe	a 🛛		^
3.25	i0 Stand	ard TO	CP/IP Port	Epsor	n Stylus I	COLOR 1160	
□ IP_1	Stand	Standard TCP/IP Port					
□ IP_1	Stand	ard TO	CP/IP Port	HP LaserJet 1300			
□ IP_1	Stand	ard TO	P/IP Port				
□ IP_1	Stand	ard TO	P/IP Port				
✓ IP_1	Stand	ard TO	P/IP Port	Brothe	er HL-10	70	1
D PDF	Local	Port		PDF9	95		~
Ado	l Por <u>t</u>		<u>D</u> elet	e Port	7	Configure Port.	
	10000		80				-
	bidirection		port				
Enable	printer poo	olingi					

11. Select "LPR" on Protocol, type **p1** (number 1) as Queue Name. Then click **OK**. Next please refer to the red rectangle for choosing the correct protocol and LPR name.

Port Name:	IP_192.168.1.1
Printer Name or IP Address:	192.168.1.1
Protocol O <u>R</u> aw	(O LPR
Raw Settings	
Port Number: 910	10
LPR Settings	
Queue Name: p1	
LPR Byte Counting Enabl	led
SNMP Status Enabled	
Community Name: put	blic



The printer can be used for printing now. Most of the printers with different manufacturers are compatible with vigor router.

Note 1: Some printers with the fax/scanning or other additional functions are not supported. If you do not know whether your printer is supported or not, please visit www.draytek.com to find out the printer list. Open **Support >FAQ**; find out the link of **Printer Server** and click it.

me > Support > Late:	ST FAU	
	FAQ - Latest FAQ	
Basic	01. Best Solution for VDSL	2011/09/13
Advanced	02. What types of 3.5G modem are compatible with Vigor router ?	2011/08/30
NAT	03. What types of printers are compatible with Vigor router?	2011/08/08
VPN	04. How to Configure Dynamic DNS Service on Vigor 2130	2011/07/25
DHCP	05. What types of printers are compatible with Vigor router?	2011/07/19
Wireless	D6. What types of 3.5G cellphone are compatible with Vigor router ?	2011/06/29
VoIP	07. How to open UDP 5060 port to the internal SIP server behind Vigor VoIP routers ?	2011/06/28
QoS	08. How to Recovery Password on VigorSwitch G2240	2011/06/01
SDN	09. How to monitor VPN status via Syslog Utility	2011/03/15
PPBX	10. How to add a new printer in Windows7	2011/03/03
Firewall / IP Filter	11. How to force all traffics going through WAN2 when both WANs on Vigor are active	2011/01/04

Then, click the What types of printers are compatible with Vigor router? link.

AQ - Printer Server	
01. What types of printers are compatible with Vigor router?	2011/08/08
02. How to add a new printer in Windows7	2011/03/03
03. How do I configure LPR printing on Windows2000/XP ?	2010/04/06
04. How do I configure LPR printing on Windows98/Me ?	2009/01/20
05. How do I configure LPR printing on Linux boxes ?	2009/01/20
06. Why there are some strange print-out when I try to print my documents through Vigor2104P / 2300's print server?	2009/01/20
07. What are the limitations in the USB Printer Port of Vigor Router ?	2009/01/20

Note 2: Vigor router supports printing request from computers via LAN ports but not WAN port.

3. Configuring Web Pages

To access Internet, please finish basic configuration after completing the hardware installation.

3.1 Accessing Web Page

- 1. Make sure your PC 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 the guide.
- 2. Open a web browser on your PC and type **http://192.168.1.1.** The following window will be open to ask for username and password. Please type "**admin/admin**" on Username/Password and click Login.

Usernan Passwoi			
			Login
			Login
	Corn. Al	ll Rights Reserved.	Dray Tek



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

3. The web page can be logged out according to the chosen condition. The default setting is **Auto Logout**, which means the web configuration system will logout after five minutes without any operation. Change the setting for your necessity.

Off	~	
Auto Logout		ard
Off		
1 min		
3 min		
5 min		
10 min		

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

Dray Tek

3.2 Basic Configuration

The **Quick Start Wizard** is designed for you to easily set up your router for Internet access. You can directly access the **Quick Start Wizard** via Web Configurator.

ito Logout 👻 🛛 🥵	System Status					
ick Start Wizard vice Activation Wizard line Status SI	Model Name Firmware Version Build Date/Time	: Vigor2850i : 3.6.2_RC1 : Feb 24 2012 16:55:3	0			
			LAN			
N N	LAN1	MAC Address 00-1D-AA-00-00-00	IP Address 192.168.1.1	Subnet Mask 255.255.255.0	DHCP Server Yes	DNS 8.8.8.8
Г	LAN2	00-1D-AA-00-00-00	192.168.2.1	255.255.255.0	Yes	8.8.8.8
ewall	LAN3	00-1D-AA-00-00-00	192.168.3.1	255.255.255.0	Yes	8.8.8.8
r Management	LAN4	00-1D-AA-00-00-00	192.168.4.1		Yes	8.8.8.8
ects Setting ■ M	IP Routed Subnet	00-1D-AA-00-00-00	192.168.0.1	255.255.255.0	Yes	8.8.8.8
ndwidth Management			WAN			
olications	Link Statu	s MAC Address	Connec	tion IP Address	Default Gat	
N and Remote Access	WAN1 Disconnec				Default Gat	.eway
tificate Management	WAN1 Disconnec					
N 3 Application	WAN3 Disconnec					
tem Maintenance						
gnostics			IPv6			
ernal Devices	Address		Scop	e Internet Acc	ess Mode	
	LAN FE80::21D:	AAFF:FE00:0/64	Link			

The home page will change slightly in accordance with the router model you have.

If your router can be under an environment with high speed NAT, the configuration provide here can help you to deploy and use the router quickly. The first screen of **Quick Start Wizard** is entering login password. After typing the password, please click **Next**.

Please enter an alpha-nume	ric string as your Passv	word (Max 23 characters).
Old Password	••••	
New Password	••••	
Confirm Password	••••	

On the next page as shown below, please select the WAN interface that you use. If DSL interface is used, please choose WAN1; if Ethernet interface is used, please choose WAN2; if 3G USB modem is used, please choose WAN3. Then click **Next** for next step.

Vigor2850 Series Quick Start Guide

Quick Start Wizard

Quick Start Wizard

WAN Interface:	WAN1 V
Display Name:	
Physical Mode:	ADSL / VDSL
Physical Type:	Auto negotiation 😽

WAN1, WAN2 and WAN3 will bring up different configuration page. Refer to the following for detailed information.

3.2.1 For WAN1 (ADSL/VDSL)

WAN1 is specified for ADSL or VDSL connection.

Quick Start Wizard

Interface	
WAN Interface:	WAN1 💌
Display Name:	
Physical Mode:	ADSL / VDSL
Physical Type:	Auto negotiation 😪
	< Back Next > Finish Co

You have to select the appropriate Internet access type **according to the information from your ISP**. For example, you should select PPPoE mode if the ISP provides you PPPoE interface. In addition, the field of **For ADSL Only** will be available only when ADSL is detected. Then click **Next** for next step.



Quick Start Wizard

WAN 1	
Protocol	PPPoE / PPPoA
For ADSL Only:	
Encapsulation	PPPoe LLC/SNAP 🔽
VPI	O Auto detect
VCI	33
Fixed IP	○ Yes ④ No(Dynamic IP)
IP Address	
Subnet Mask	
Default Gateway	
Primary DNS	
Second DNS	
	< Back Next > Finish Cancel
N 1	
tocol	PPPoE / PPPoA
	PPPoE / PPPoA
	MPoA / Static or Dynamic IP

PPPoE/PPPoA

Quick Start Wizard

1. Choose **WAN1** as WAN Interface and click the **Next** button; you will get the following page.

WAN 1	
Protocol	PPPoE / PPPoA
For ADSL Only:	
Encapsulation	PPP₀E LLC/SNAP 💌
VPI	0 Auto detect
VCI	33
Fixed IP	◯Yes ⑧No(Dynamic IP)
IP Address	
Subnet Mask	
Default Gateway	
Primary DNS	
Second DNS	

2. After finished the above settings, simply click Next.

ΡΡοΕ/ΡΡΡοΑ	
WAN 1	
User Name	84005755@hinet.net
Password	•••••
Confirm Password	••••

3. Please manually enter the Username/Password provided by your ISP. Then click **Next** for viewing summary of such connection.

ADSL / VDSL AUTO
0
33 PPPoE / LLC No

4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.

Quick Start Wizard Setup OK !!!

5. Now, you can enjoy surfing on the Internet.

Quick Start Wizard



MPoA / Static or Dynamic IP

Quick Start Wizard

1. Choose **WAN1** as WAN Interface and click the **Next** button; you will get the following page.

ct to Internet	
WAN 1	
Protocol	MPoA / Static or Dynamic IP 💌
For ADSL Only:	
Encapsulation	1483 Bridged IP LLC
VPI	0 Auto detect
VCI	33
Fixed IP	◯ Yes
IP Address	
Subnet Mask	
Default Gateway	
Primary DNS	
Second DNS	

2. Please type in the IP address/mask/gateway information originally provided by your ISP. Then click **Next** for viewing summary of such connection.

WAN Interface: Physical Mode:	WAN1 ADSL
Fallback Mode:	ADSL only
VPI: VCI:	0 33
Protocol / Encapsulation:	1483 Bridge LLC
Fixed IP:	No
Primary DNS:	
Secondary DNS:	

3. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.

Quick Start Wizard Setup OK !!!

4. Now, you can enjoy surfing on the Internet.

3.2.2 For WAN2 (Ethernet)

WAN2 is dedicated to physical mode in Ethernet. If you choose WAN2, please specify physical type. Then, click **Next**.

Interface	
WAN Interface:	WAN2 🗸
Display Name:	
Physical Mode:	Ethernet
Physical Type:	Auto negotiation 💌

On the next page as shown below, please select the appropriate Internet access type according to the information from your ISP. For example, you should select PPPoE mode if the ISP provides you PPPoE interface. Then click **Next** for next step.

PPPoE

1. Choose **WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

ct to Internet				
WAN 2				
Select one of the	following Internet Ac	cess types provid	led by your ISP.	
	PPPoE			
	🔘 РРТР			
	🔘 L2TP			
	🔘 Static IF	1		
	🔘 DHCP			



2. Click **PPPoE** as the Internet Access Type. Then click **Next** to continue.

Quick Start Wizard

Quick Start Wizard

WAN 2			
Enter the user name and p	assword provided by you	r ISP.	
User Name	84005657@hinet	.net	
Password	••••		
Confirm Password	•••••		

3. Please manually enter the Username/Password provided by your ISP. Click **Next** for viewing summary of such connection.

WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	PPPoE
settings and restart the V	

4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.

Quick Start Wizard Setup OK !!!

5. Now, you can enjoy surfing on the Internet.

PPTP/L2TP

1. Choose **WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

Quick Start Wizard	
Connect to Internet	
WAN 2	
Select one of the following Internet Access types provided by your ISF	».
O PPPoE	
О РРТР	
O L2TP	
Static IP	
O DHCP	
O DHCP	
<u>.</u>	
< Back Next >	Finish Cancel

2. Click **PPTP/L2TP** as the Internet Access Type. Then click **Next** to continue.

Quick Start Wizard

WAN 2 Enter the user name, pas your ISP.	word, WAN IP configuration and L2TP server IP provided	by
User Name	test	
Password	••••	
Confirm Password	••••	
WAN IP Configuration		
💿 Obtain an IP addres:	automatically	
🔘 Specify an IP addres	5	
IP Address		
Subnet Mask		
Gateway	undefined	
Primary DNS		
Second DNS		
L2TP Server		



3. Please type in the IP address/mask/gateway information originally provided by your ISP. Then click **Next** for viewing summary of such connection.

se confirm your settings:	
WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	L2TP
Click Back to modify chan settings and restart the V	iges if necessary. Otherwise, click Finish to save the current igor router.

4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.

Quick Start Wizard Setup OK !!!

5. Now, you can enjoy surfing on the Internet.

Static IP

Quick Start Wizard

1. Choose **WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

WAN 2				
Select one of the	following Internet Acc	cess types provided	d by your ISP.	
	🔘 PPPoE			
	🔘 РРТР			
	🔘 L2TP			
	💿 Static IP			
	O DHCP			

2. Click **Static IP** as the Internet Access type. Simply click **Next** to continue.

tic IP Client Mode		
WAN 2		
Enter the Static IP config	juration provided by your ISP.	
WAN IP	172.16.3.102	
Subnet Mask	255.255.0.0	
Gateway	172.16.1.1	
Primary DNS	168.95.1.1	
Secondary DNS		(optional)

3. Please type in the IP address information originally provided by your ISP. Then click **Next** for next step.

ck Start Wizard		
se confirm your settings:		
WAN Interface:	WAN2	
Physical Mode:	Ethernet	
Physical Type:	Auto negotiation	
Internet Access:	Static IP	
Click Back to modify char settings and restart the V	nges if necessary. Otherwise, click Finish to save the current igor router.	

4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.

Quick Start Wizard Setup OK !!!

5. Now, you can enjoy surfing on the Internet.



DHCP

1. Choose **WAN2** as WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

Quick Start Wizard				
Connect to Internet				
WAN 2				
Select one of the following Internet Access	s types provid	ed by your ISP	P.	
O PPPoE				
О РРТР				
○ L2TP				
🔘 Static IP				
• DHCP				
1				
	< Back	Next >	Finish	Cancel

2. Click **DHCP** as the Internet Access type. Simply click **Next** to continue.

WAN 2	
If your ISP requenter it in.	uires you to enter a specific host name or specific MAC address, please
Host Name	(optional)
MAC	00 -50 -7F -00 -00 -02 (optional)

3. After finished the settings above, click **Next** for viewing summary of such connection.

Quick Start Wizard

ise confirm your settings:	
WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	DHCP
settings and restart the V	

4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.

Quick Start Wizard Setup OK !!!

5. Now, you can enjoy surfing on the Internet.

Quick Start Wizard



3.2.3 For WAN3 (USB)

1. Choose **WAN3** as WAN Interface.

Quick Start Wizard

nterface	
WAN Interface:	WAN3 🕶
Display Name:	
Physical Mode:	USB
Physical Type:	Auto negotiation
	< Back Next > Finish Can

2. Then, click **Next** for viewing summary of such connection.

Quick Start Wizard

ise confirm your settings:	
WAN Interface:	WAN3
Physical Mode:	
Internet Access:	DHCP
settings and restart the V	· · · · · · · · · · · · · · · · · · ·
	<pre></pre>

3. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.

Quick Start Wizard Setup OK !!!

4. Now, you can enjoy surfing on the Internet.

3.3 Wireless Configuration

Í

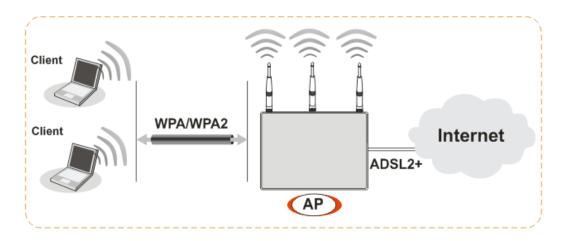
For the user of Vigor2850/Vigor2850i, please skip this section.

For operating Vigor2850n/Vigor2850Vn well, it is necessary for you to set the wireless LAN settings for using wireless function. Please read the following section carefully for configuring the settings for this router.

(The default value of Frequency Domain was set by factory depends on the reselling region.)

3.3.1 Basic Wireless LAN Concept

In an Infrastructure Mode of wireless network, Vigor wireless router plays a role as an **Access Point (AP)** connecting to lots of wireless clients or Stations (STA). All the STAs (clients) will share the same Internet connection with other wired hosts via Vigor wireless router.





3.3.2 General Setup

Wireless LAN >> General Setup

1. On the **Wireless LAN** group, select **General Setup**. The following page will be shown.

ble Wireless (_AN			
Mode :		Mixed(11b+	11g+11n) 💙	
(ndex(1-15) i	n <u>Schedule</u>	Setup:,	,,	
Only schedule other actions		at have the action "Force Dow I.	n" are applied to the V	WLAN, all
Enable Hic	le SSID	SSID	Isolate Member	Isolate VPN
1		DrayTek		
2				
3 🔲				
4				
other. Isolate VPN:is	olate wirele	clients (stations) with the sam ess with remote dial-in and LAN MHz v Long Pream	I to LAN VPN.	s for each
other. Isolate VPN:is Channel: Cha	olate wirele mnel 6, 24371 e: necessar	ess with remote dial-in and LAN	I to LAN VPN.	
other. Isolate VPN:is Channel: Cha Long Preamble Packet-OVERI	olate wirele mnel 6, 24371 e: necessar	MHz	I to LAN VPN.	
other. Isolate VPN:is Channel: Cha Long Preamble Packet-OVERI Tx Burst Note:	olate wirele Innel 6, 2437! e: necessar DRIVE TM	MHz	l to LAN VPN. ble: 🔲 es only(lower performa	ance)
other. Isolate VPN:is Channel: Cha Long Preambl Packet-OVERI T X Burst Note:	olate wirele Innel 6, 2437! e: necessar DRIVE TM	MHz V Long Pream	I to LAN VPN. ble: es only(lower performa to boost WLAN perfor	ance)
other. Isolate VPN:is Channel: Cha Long Preamble Packet-OVERI Tx Burst Note: The same tec Rate Control	olate wirele innel 6, 24371 e: necessar DRIVE TM ihnology mu Enable	MHz V Long Pream y for some old 802.11 b device st also be supported in clients	I to LAN VPN. ble: es only(lower performa to boost WLAN perfor Download	ance) rmance.
other. Isolate VPN:isi Channel: Cha Long Preamble Packet-OVERI Tx Burst Note: The same tec Rate Control SSID 1	olate wirele innel 6, 24371 e: necessar DRIVE™ Chnology mu Enable	MHz Long Pream y for some old 802.11 b device st also be supported in clients Upload	I to LAN VPN. ble: es only(lower performa to boost WLAN perfor Download 30000	ance)
other. Isolate VPN:is Channel: Cha Long Preamble Packet-OVERI Tx Burst Note: The same tec Rate Control	olate wirele innel 6, 24371 e: necessar DRIVE TM ihnology mu Enable	MHz V Long Pream y for some old 802.11 b device st also be supported in clients	I to LAN VPN. ble: es only(lower performa to boost WLAN perfor Download	ance) rmance.
other. Isolate VPN:isi Channel: Cha Long Preamble Packet-OVERI Tx Burst Note: The same tec Rate Control SSID 1	olate wirele innel 6, 24371 e: necessar DRIVE™ Chnology mu Enable	MHz Long Pream y for some old 802.11 b device st also be supported in clients Upload	I to LAN VPN. ble: es only(lower performa to boost WLAN perfor Download 30000	rmance) kbps

- 2. Check Enable Wireless LAN to enable the wireless function.
- 3. At present, the router can connect to 11n Only, 11g Only, Mixed (11b+11g), Mixed (11a+11n), Mixed (11g+11n), and Mixed (11b+11g+11n) stations simultaneously. Simply choose **Mixed (11b+11g+11n)** mode.
- 4. Type in the name of the **SSID**. The default name for SSID is **DrayTek**. We suggest you to change it with a particular name.
- 5. Click **OK** to save the configuration.

3.3.3 Security Settings

1. On the Wireless LAN group, select Security.

```
Wireless LAN >> Security Settings
```

SID 1	SSID 2	SSID 3	SSID 4	
	Mode:		Disable	*
	Set up <u>RADIUS S</u>	<u>erver</u> if 802.1×	is enabled.	
WPA	-			
Encr	yption Mode:	-	KIP for WPA/AES for WPA	2
	Pre-Shared Key(F	PSK):	**********	
	Type 8~63 ASCI) "cfgs01a2" or "		54 Hexadecimal digits leac	ling by "0x", for example
WEP	:			
	Encryption Mode:	: [i4-Bit 💌	
	⊙Key 1 :		******	
	○Key 2 :		**********	
	○КеуЗ:		**********	
	⊖Key 4 :		******	
Type "0x4: For 1	142333132". <mark>28 bit WEP key</mark>		cimal digits leading by "Ox acimal digits leading by "O	
	3456789abc" or "Ox			x , ioi example

2. The default security mode is **Mixed** (**WPA+WPA2**)/**PSK**. For the wireless client who wants to access into Internet through such router, please **input the default PSK** value for connection.

0K

Default Pre-Shared Key (PSK) with 13 ASCII characters is provided and stated on the label pasted on the bottom of the router.

Cancel





3. Click **OK** to save settings.

Be aware that for the communication, all wireless devices must support the same encryption bit length and share the same key. If WEP mode is selected, only one of four preset keys can be selected at one time.

4. 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.

4.1 Checking If the Hardware Status Is OK or Not

Follow the steps below to verify the hardware status.

- 1. Check the power line and LAN cable connections. Refer to "2.1 Hardware Installation" for details.
- 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 **"2.1 Hardware Installation"** to execute the hardware installation again. And then, try again.

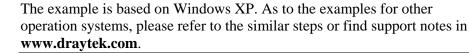


4.2 Checking If the Network Connection Settings on Your Computer Is OK or Not

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

氲



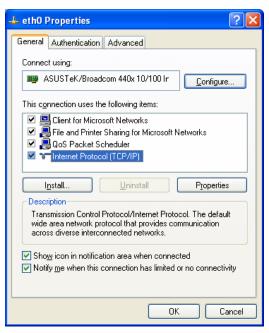
1. Go to Control Panel and then double-click on Network Connections.



2. Right-click on Local Area Connection and click on Properties.



3. Select Internet Protocol (TCP/IP) and then click Properties.





4. Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**.

Internet Protocol (TCP/IP) Pro	perties ?
General Alternate Configuration	
	utomatically if your network supports to ask your network administrator for
⊙ <u>O</u> btain an IP address automat	ically
OUse the following IP address:	
IP address:	
S <u>u</u> bnet mask:	
Default gateway:	
Obtain DNS server address at	utomatically
OUse the following DNS server	addresses:
Preferred DNS server:	
Alternate DNS server:	
	Advanced
	OK Cancel

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.

	Netv	work		
iow All	Displays Sound Network	sk		
	Location: Automatic		•	
	Show: Built-in Ethe	ernet	÷	
_	TCP/IP PPPoE AppleT	Talk Proxies	Ethernet	
Co	onfigure IPv4: Using DHCP		•	
-	IP Address: 192.168.1.10		(Renew DH	CP Lease
:	Subnet Mask: 255.255.255.0	DHCP Client ID	: (If required)
	Router: 192.168.1.1		(in required)	,
	DNS Servers:			(Optional)
Sea	rch Domains:			(Optional)
I	Pv6 Address: fe80:0000:0000:000	0:020a:95ff:fe8d:	72e4	
	Configure IPv6			?

Dray Tek

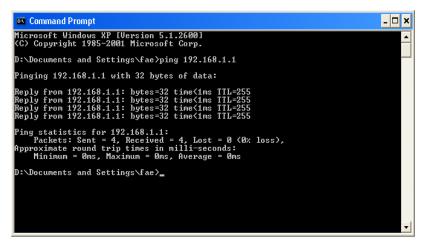
4.3 Pinging the Router from Your Computer

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 4.2)

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.

Last login: Sat Jan 302:24:18 on ttyp1	8
Welcome to Darwin!	
Vigor10:~ draytek\$ ping 192.168.1.1	
PING 192.168.1.1 (192.168.1.1): 56 data bytes	
64 bytes from 192.168.1.1: icmp_seq=0 ttl=255 time=0.755 ms	
64 bytes from 192.168.1.1: icmp_seq=1 ttl=255 time=0.697 ms	
64 bytes from 192.168.1.1: icmp_seq=2 ttl=255 time=0.716 ms	
64 bytes from 192.168.1.1: icmp_seq=3 ttl=255 time=0.731 ms	
64 bytes from 192.168.1.1: icmp_seq=4 ttl=255 time=0.72 ms ^C	
192.168.1.1 ping statistics	
5 packets transmitted, 5 packets received, 0% packet loss round-trip min/avg/max = 0.697/0.723/0.755 ms Vigor10:~ draytek\$	

4.4 Checking If the ISP Settings are OK or Not

Open **WAN** >> **Internet Access** page and then check whether the ISP settings are set correctly. Click **Details Page** of WAN1/WAN2/WAN3 to review the settings that you configured previously.

WAN >> Internet Access

Internet	Access				
Index	Display Name	Physical Mode	Access Mode		
WAN1		ADSL / VDSL	PPPoE / PPPoA	*	Details Page IPv6
WAN2		Ethernet	None	*	Details Page IPv6
WAN3		USB	None	~	Details Page IPv6

Note : Only one WAN can support IPv6.

4.5 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 loose all settings you did before. Make sure you have recorded all useful settings before you pressing. The password of factory default is null.

Software Reset

You can reset the 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 **Using factory default configuration** and click **OK**. After few seconds, the router will return all the settings to the factory settings.

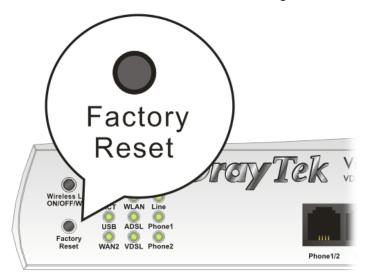


System Maintenance >> Reboot Systen

	Do you want to reboot your router ?
	Osing current configuration
	O Using factory default configuration
uto Rebo	Reboot Now
	Index(1-15) in <u>Schedule</u> Setup:,,,,
	Note: Action and Idle Timeout settings will be ignored.

Hardware Reset

While the router is running (ACT LED blinking), press the **RST** 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.

4.6 Contacting Your Dealer

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

