Dray Tek

Vigor2925 Series

Dual-WAN Security Router



Vigor2925 Series Dual-WAN Security Router Quick Start Guide

Version: 1.0

Firmware Version: V3.7.2_RC3a

(For future update, please visit DrayTek web site)

Date: 17/06/2013

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Safety Instructions 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 conservation of the environment.

Warranty

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

Firmware & Tools Updates

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

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



European Community Declarations

Manufacturer: DrayTek Corp.

Address: No. 26, Fu Shing Road, Hukou Township, Hsinchu Industrial Park, Hsinchu County,

Taiwan 303

Product: Vigor2925 Series Router

DrayTek Corp. declares that Vigor2925 Series of routers are in compliance with the following essential requirements and other relevant provisions of R&TTE 1999/5/EC, ErP 2009/125/EC and RoHS 2011/65/EU.

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/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 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.

Please visit http://www.draytek.com/user/SupportDLRTTECE.php



This product is designed for the 2.4GHz WLAN network throughout the EC region.

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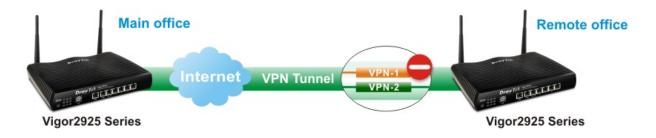
1. Introduction

Vigor2925 series is a broadband router which 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.

Vigor2925 series supports USB interface for connecting USB printer to share printing function, 3G USB modem for network connection, or connectivity for network FTP service.





1.1 Panel Explanation

1.1.1 For Vigor2925



LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running
		normally.
	Off	The router is powered off.
USB1~USB2	On	USB device is connected and ready for use.
	Blinking	The data is transmitting.
WAN1~WAN2	On	Internet connection is ready.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
VPN	On	The VPN tunnel is active.
QoS	On	The QoS function is active.
WCF	On	The Web Content Filter is active. (It is
		enabled from Firewall >> General
		Setup).
DMZ	On	The DMZ function is enabled.
	Off	The DMZ function is disabled.
	Blinking	The data is transmitting.
LED on Connect	tor	

LED on Connector

*********	Left	On	The port is connected.
WAN1~	LED	Off	The port is disconnected.
WAN2		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
T A N T 1	Left	On	The port is connected.
LAN1~	LED	Off	The port is disconnected.
LAN5		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	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.
USB1~USB2	Connecter for a USB device (for 3G USB Modem or printer).
WAN1~WAN2	Connecter for local network devices or modem for accessing Internet.
LAN1~LAN5	Connecters for local network devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

1.1.2 For Vigor2925n



LED		Status	Explanation	
ACT (Ac	tivity)	Blinking	The router is powered on and running	
`	• ,	C	normally.	
		Off	The router is powered off.	
USB		On	USB device is connected and ready for use.	
		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	
WAN1~WAN2		On	minutes.)	
WAN1~WAN2		_	Internet connection is ready.	
		Off Dlinking	Internet connection is not ready.	
VPN		Blinking	The data is transmitting.	
		On	The VPN tunnel is active.	
QoS		On	The QoS function is active.	
WCF		On	The Web Content Filter is active. (It is	
			enabled from Firewall >> General	
DMZ		On	Setup). The DM7 function is analysed	
DNIZ		Off	The DMZ function is enabled.	
		Off Dlinking	The DMZ function is disabled.	
LED on Connect		Blinking	The data is transmitting.	
LED on (T1	
WAN1~	Left LED	On	The port is connected.	
WAN2		Off	The port is disconnected.	
	D: 1	Blinking	The data is transmitting.	
	Right	On	The port is connected with 1000Mbps.	
	LED	Off	The port is connected with 10/100Mbps	
LAN1~	Left	On	The port is connected.	
LAN5	LED	Off	The port is disconnected.	
		Blinking	The data is transmitting.	

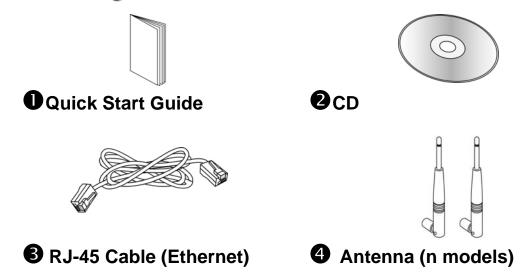
Right	On	The port is connected with 1000Mbps.
LED	Off	The port is connected with 10/100Mbps



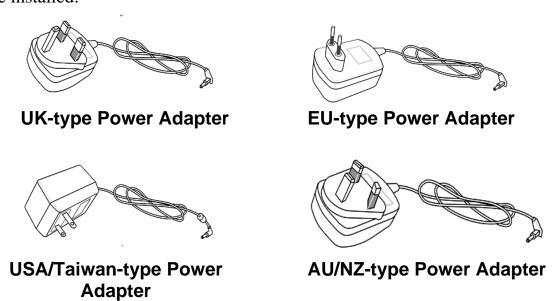


Interface	Description
Wireless LAN ON/OFF/WPS	Press "Wireless LAN ON/OFF/WPS" button once to wait for client device making network connection through WPS. Press "Wireless LAN ON/OFF/WPS" button twice to enable (WLAN LED on) or disable (WLAN LED off) wireless connection.
Factory Reset	Restore the default 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.
USB1~USB2	Connecter for a USB device (for 3G USB Modem or printer).
WAN1~WAN2	Connecter for local network devices or modem for accessing Internet.
LAN1~LAN5	Connecters for local network devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

1.2 Package Content



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



^{*} The maximum power consumption is 24 Watt.

2. Installing Your Router

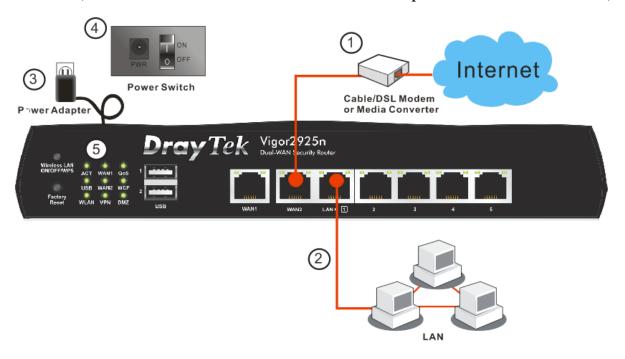
This section will guide you to install the router through hardware connection and configure the router's settings through web browser.

2.1 Hardware Installation

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

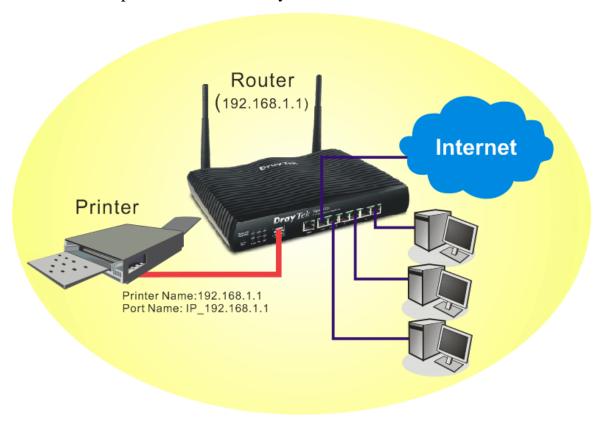
- 1. Connect the cable Modem/DSL Modem/Media Converter to any WAN port of router with Ethernet cable (RJ-45).
- 2. Connect one end of an Ethernet cable (RJ-45) to one of the **LAN** ports of the router and the other end of the cable (RJ-45) into the Ethernet port on your computer.
- 3. Connect one end of the power adapter to the router's power port on the rear panel, and the other side into a wall outlet.
- 4. Power on the device by pressing down the power switch on the rear panel.
- 5. The system starts to initiate. After completing the system test, the **ACT** LED will light up and start blinking.

(For the detailed information of LED status, please refer to section 1.1.)



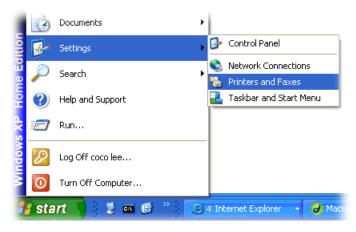
2.2 Printer Installation

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.

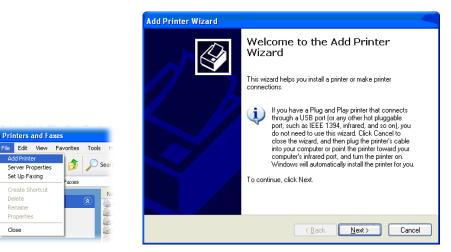


Before using it, please follow the steps below to configure settings for connected computers (or wireless clients).

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



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



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

Printers and Faxes

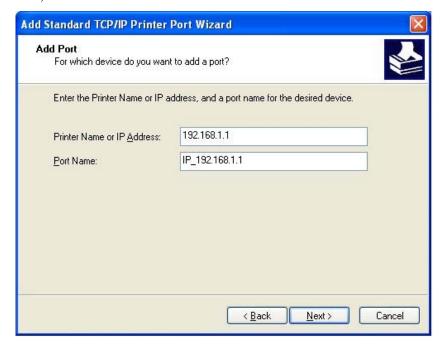
Set Up Faxing



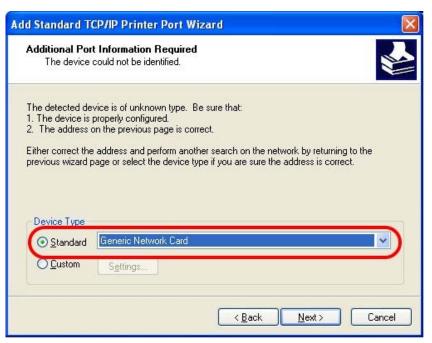
5. In this dialog, choose **Create a new port Type of port** and use the drop down list to select **Standard TCP/IP Port**. Click **Next**.



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**.



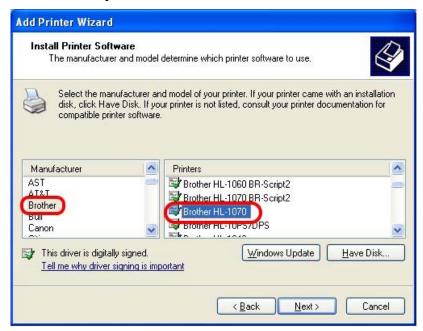
7. Click Standard and choose Generic Network Card.



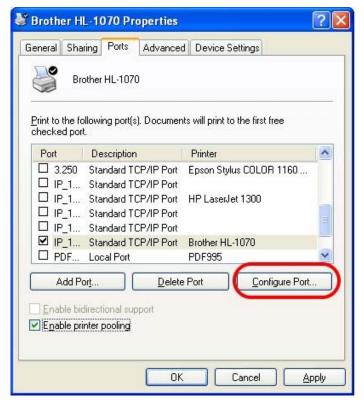
8. Then, in the following dialog, click **Finish**.



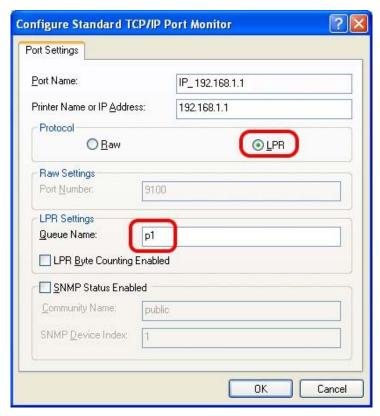
9. Now, your system will ask you to choose right name of the printer that you installed onto the router. Such step can make correct driver loaded onto your PC. When you finish the selection, click **Next**.



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.



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.



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/Application Notes**; find out the link of **USB>>Printer Server** and click it.



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



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

3. Initial Settings

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 this manual.

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.





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

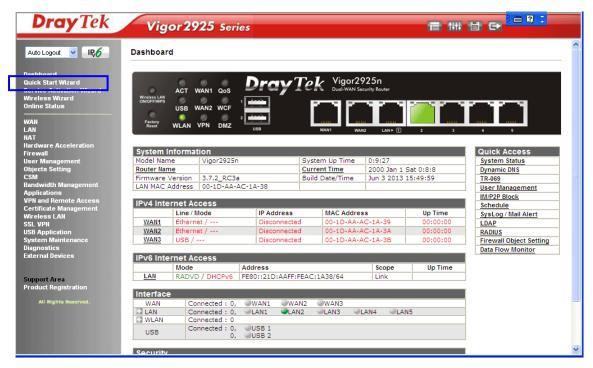
3. Now, the **Main Screen** will pop up.

4. 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.



3.2 Basic Configuration - Quick Start Wizard

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 User Interface.

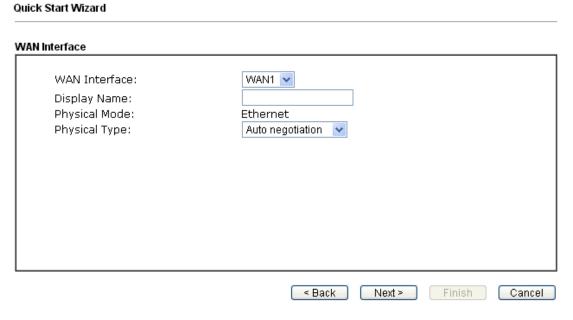


The home page will change slightly in accordance with the router model you have.

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**.

Quick Start Wizard		
Enter login password		
Please enter an alpha-numeric string	as your Password (Max 2	23 characters).
Old Password	••••	
New Password	••••	
Confirm Password		
	< Back	lext > Finish Cancel

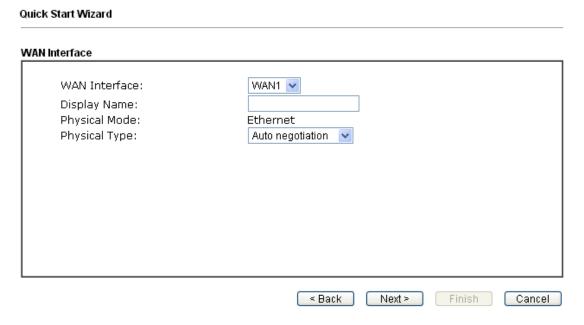
On the next page as shown below, please select the WAN interface that you use. If Ethernet interface is used, please choose WAN1/WAN2; if 3G USB modem is used, please choose WAN3. Then click **Next** for next step.



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

3.2.1 For WAN1/WAN2

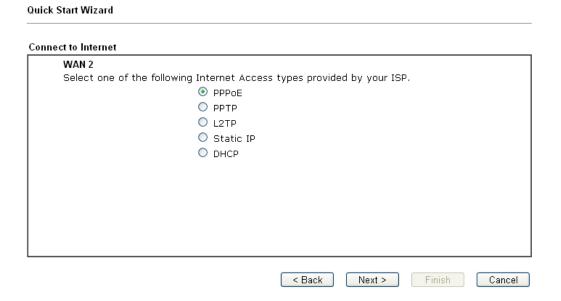
WAN1/WAN2 is dedicated to physical mode in Ethernet. If you choose WAN1/WAN2, please specify physical type. Then, click **Next**.



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.

PPPoE

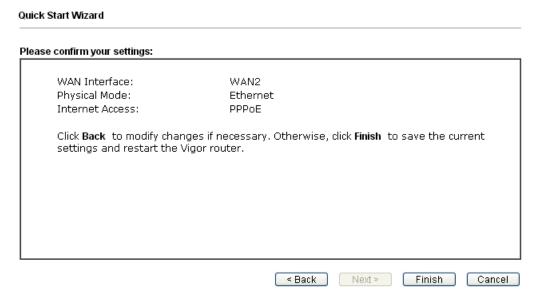
1. Choose **WAN1/WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.



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



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



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

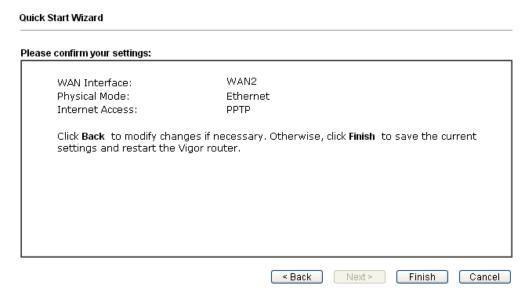
1. Choose **WAN1/WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

ick Start Wizard
onnect to Internet
WAN 2
Select one of the following Internet Access types provided by your ISP.
O PPPoE
O PPTP
O Static IP
O DHCP
(Park) News Circle Corre
< Back Next > Finish Cancer

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

WAN 2		:- !!
your ISP.	word, WAN IP configuration and Pf	PTP server IP provided by
User Name	77494727@hinet.net	
Password	******	
Confirm Password	•••••	
WAN IP Configuration		
Obtain an IP address	automatically	
Specify an IP address		
IP Address	192.16.20.86	
Subnet Mask	255.255.255.0	
Gateway	192.16.20.1	
Primary DNS	8.8.8.8	
Second DNS	8.8.4.4	
PPTP 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.



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

1. Choose **WAN1/WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

uick Start Wizard
Connect to Internet
WAN 2
Select one of the following Internet Access types provided by your ISP.
O PPPoE
O PPTP
O L2TP
ODHCP
5 51161
< Back Next > Finish Cancel

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

WAN 2		
Enter the Static IP config	guration provided by your ISP.	
WAN IP	192.16.20.86	
Subnet Mask	255.255.255.0	
Gateway	192.16.20.1	
Primary DNS	8.8.8.8	
Secondary DNS	8.8.4.4	(optional)

Quick Start Wizard

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



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 **WAN1/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 types provided by your ISP.	
O PPPoE	
О РРТР	
O L2TP	
O Static IP	
OHCP	
O Bride	
< Back Next > Finis	h Cancel

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

Quick Start Wizard	
DHCP Client Mode	
WAN 2 If your ISP requ enter it in.	uires you to enter a specific host name or specific MAC address, please
Host Name	(optional)
MAC	00 - 1D - AA - A6 - 26 - 1A (optional)
	< Back Next > Finish Cancel

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



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.

3.2.2 For WAN3 (USB)

Quick Start Wizard

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

Quick Start Wizard	
WAN Interface	
WAN Interface: Display Name: Physical Mode:	WAN3 V
	< Back Next > Finish Cancel

2. Then, click **Next** for getting the following page.

WAN 3	
Internet Access :	3G/4G USB Modem(PPP mode) ✓
	3G/4G USB Modem(PPP mode)
3G/4G USB Modem(PPP mode)	
SIM PIN code	
Modem Initial String	AT&FE0V1X1&D2&C1S0=0
	(Default:AT&FE0V1X1&D2&C1S0=0)
APN Name	Apply

3. Please type in required information originally provided by your ISP. Then, click **Next** for viewing summary of such connection.



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.

3.3 Wireless Configuration



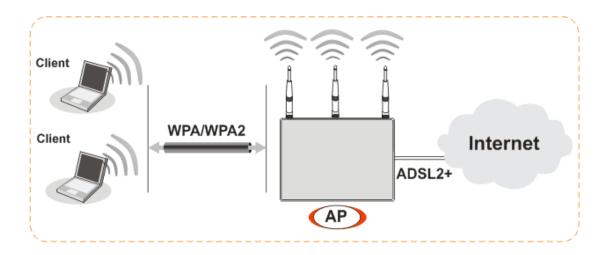
For the user of Vigor2925, please skip this section.

For operating Vigor2925n 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 >> Canaral Catum

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

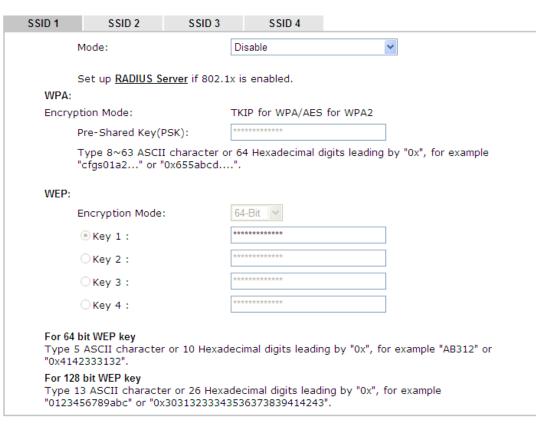
ble Wireless L	_AN						
Mode :			Mixed(11b+11g+11n) 💌				
Index(1-15) ir Only schedule other actions	profiles	that have	the action "F	, corce Dowr	, are app	, lied to th	e WLAN, all
Enable Hid	le SSID		SSID		Isola	e Membe	er Isolate VPN
1		DrayTek					
2 🗌		DrayTek_(Guest				
3 🔲					_		
4 🗆							
Isolate Membrother. Isolate VPN:is Channel: Cha	olate wire	eless with r	remote dial-in	n and LAN	to LAN VF	N.	
other. Isolate VPN:is Channel: Cha Long Preamble Packet-OVERI Tx Burst Note:	olate wire nnel 6, 24: e: necess DRIVETM	37MHz v	remote dial-in Lo ne old 802.1	n and LAN ong Preamb 1 b devices	to LAN VF	N. er perfon	mance)
other. Isolate VPN:is Channel: Cha Long Preamble Packet-OVERI Tx Burst Note: The same tec	olate wire nnel 6, 24: e: necess DRIVETM	37MHz v	remote dial-in Lo ne old 802.1	n and LAN ong Preamb 1 b devices	to LAN VF	N. er perfon	mance)
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- 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





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.

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



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.



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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

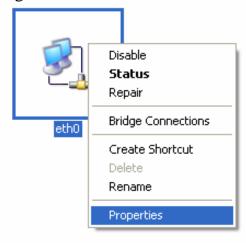


The example is based on Windows XP. As to the examples for other operation systems, please refer to the similar steps or find support notes in **www.draytek.com**.

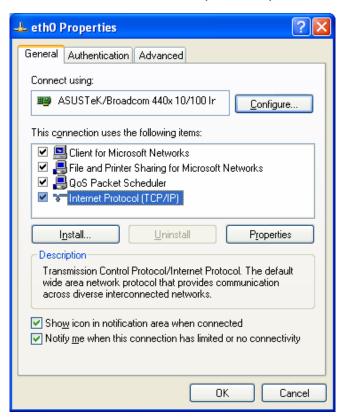
Go to Control Panel and then double-click on Network Connections.



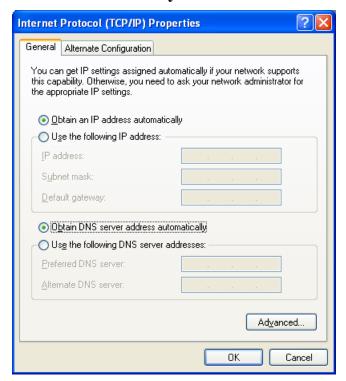
1. Right-click on Local Area Connection and click on Properties.



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

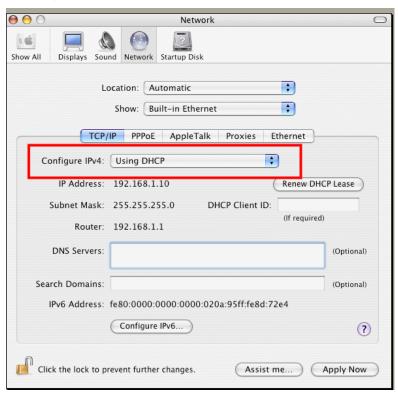


3. Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**.



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.



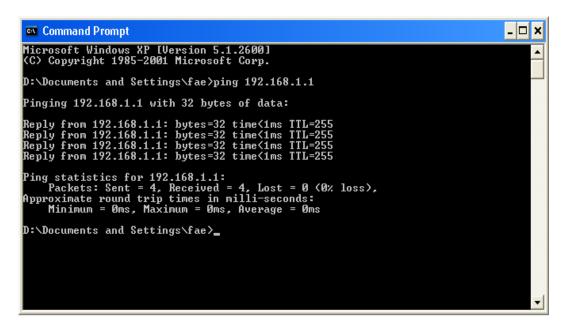
4.3 Pinging the Router from Your Computer

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.

```
Terminal — bash — 80x24

Last login: Sat Jan 3 02:24:18 on ttyp1

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

AC

--- 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 Ethernet Static or Dynamic IP Details Page IPv6 WAN2 Details Page IPv6 Ethernet None WAN3 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.

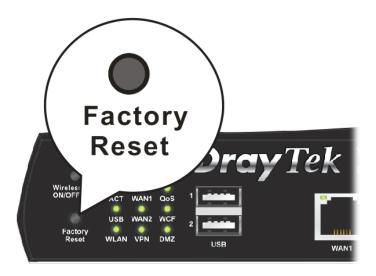
Software Reset

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 **Reboot Now**. After few seconds, the router will return all the settings to the factory settings.

System Maintenance >> Reboot System	
Reboot System	_
Do you want to reboot your router?	
Using current configuration Using factory default configuration	
Reboot Now Auto Reboot Time Schedule	
Index(1-15) in <u>Schedule</u> Setup:,,,	
Note: Action and Idle Timeout settings will be ignored.	
OK Cancel	

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.