

# DrayTek

## Vigor2830n V2

ADSL2+ Security Firewall



## Quick Start Guide

V1.0



# **Vigor2830n V2 ADSL2+ Security Firewall Quick Start Guide**

**Version: 1.0**

**Firmware Version: V3.7.4**

**(For future update, please visit DrayTek web site)**

**Date: September 03, 2014**

## Copyright Information

### Copyright Declarations

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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 by 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 to restore 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>

## European Community Declarations

Manufacturer: DrayTek Corp.  
Address: No. 26, Fu Shing Road, HuKou County, HsinChu Industrial Park, Hsin-Chu, Taiwan 303  
Product: Vigor2830n V2 Router

DrayTek Corp. declares that Vigor2830n V2 router is in compliance with the following essential requirements and other relevant provisions of R&TTE Directive **1999/5/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 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.

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

## 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.

**The antenna/transmitter should be kept at least 20 cm away from human body.**



Please visit <http://www.draytek.com> for more detailed information.



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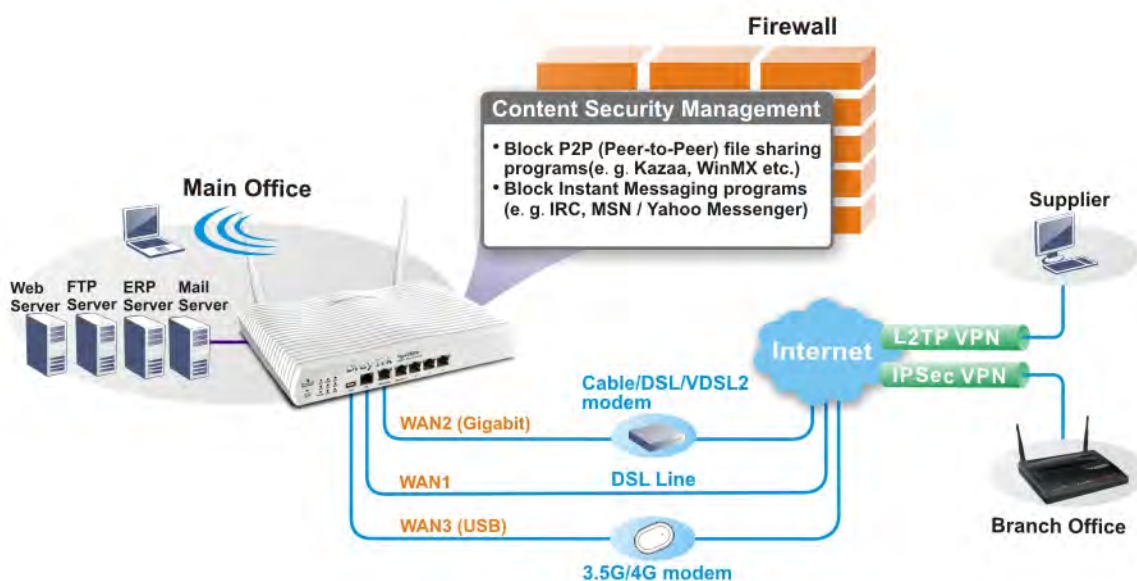
# 1. Introduction

Vigor2830n is an ADSL2+ router. 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. By the way, DoS/DDoS prevention and URL/Web content filter strengthen the security outside and control inside.

In addition, Vigor2830n supports USB interface for connecting USB printer to share printer or USB storage device for sharing files.



## 1.1 Panel Explanation



LED	Status	Explanation
ACT (Activity)	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.
CSM	On	The profile(s) of CSM (Content Security Management) for IM/P2P, URL/Web Content Filter application can be enabled from <b>Firewall &gt;&gt;General Setup</b> . (Such profile must be established under <b>CSM</b> menu).
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.)
DSL	On	The router is ready to access Internet through DSL link.
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
WAN2	On	The WAN2 connection is ready.
	Blinking	It will blink while transmitting data.
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 Connector

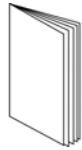
GigaLAN 1/2/3/4	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED (Green)	On	The port is connected with 1000Mbps.

		Off	The port is disconnected with 10/100Mbps when left LED is on.
WAN2 (Giga)	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED (Green)	On	The port is connected with 1000Mbps.
		Off	The port is disconnected with 10/100Mbps when left LED is on.

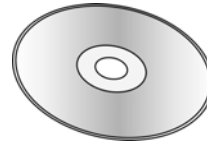


Interface	Description
Wireless LAN ON/OFF/WPS	Press "Wireless LAN ON/OFF/WPS" button once to wait for client device making network connection through WPS. Press "Wireless LAN ON/OFF/WPS" button twice to enable (WLAN LED on) or disable (WLAN LED off) wireless connection.
Factory Reset	Restore the default 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.
USB	Connector for a USB device (for 3G/4G USB Modem or printer).
DSL	Connector for accessing the Internet through ADSL2/2+.
WAN2(Giga)	Connector for remote network devices.
GigaLAN (1-4)	Connectors for local network devices.
PWR	Connector for a power adapter.
ON/OFF	Power Switch.

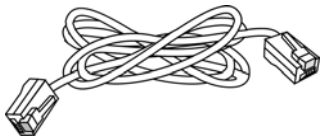
## 1.2 Package Content



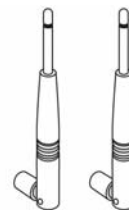
**1** Quick Start Guide



**2** CD



**3** RJ-45 Cable (Ethernet)



**4** Antenna (n models)

**5** The type of the cable depends on the country that the router will be installed:



**RJ-11 to RJ-11 Cable  
(Annex A)**

Or



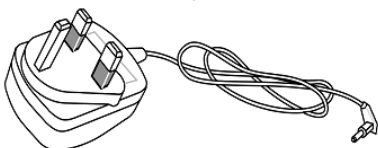
**RJ-11 to RJ-45 Cable  
(Annex B)**

Or

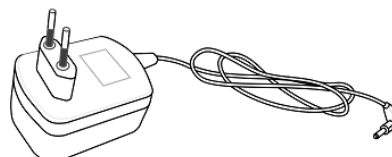


**RJ-45 to RJ-45 Cable  
(Annex B)**

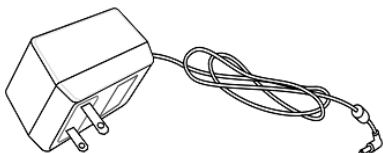
**6** The type of the power adapter depends on the country that the router will be installed:



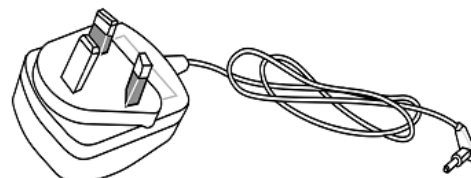
**UK-type Power Adapter**



**EU-type Power Adapter**



**USA/Taiwan-type Power Adapter**



**AU/NZ-type Power Adapter**

\* The maximum power consumption is *20 Watt*.

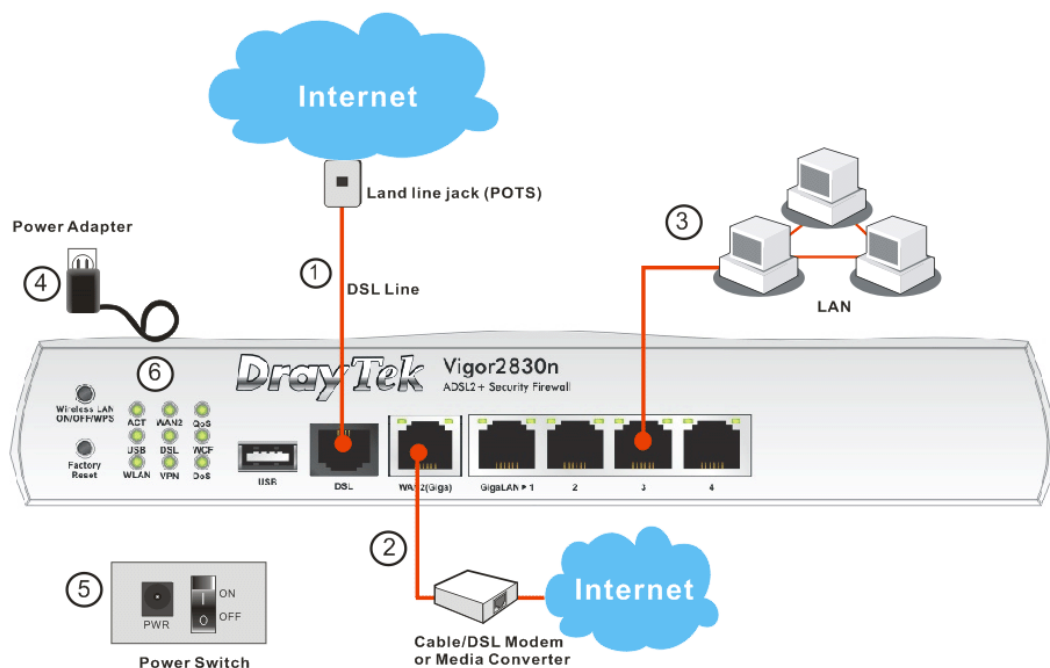
## 2. Installing Your Router

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

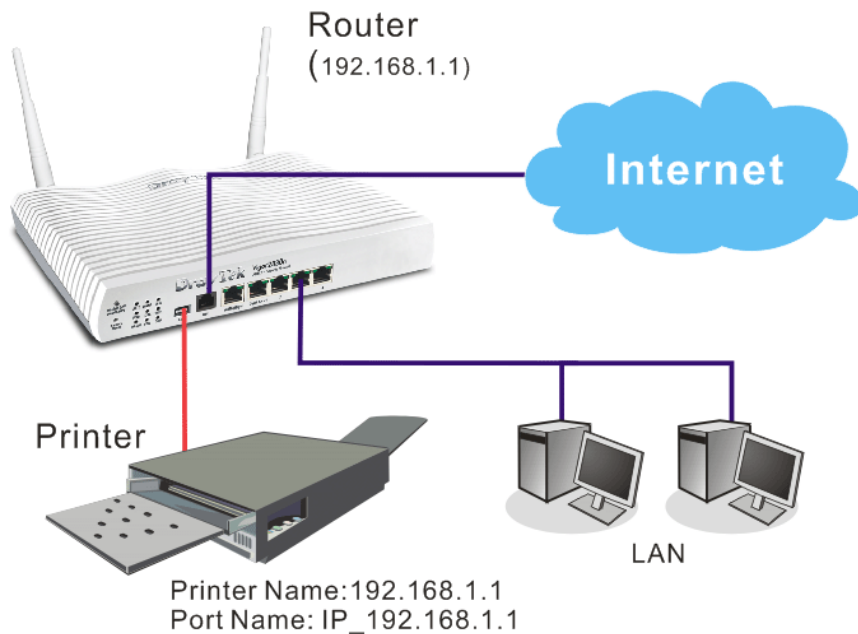
Before starting to configure the router, you have to connect your devices correctly.

1. Use one end of the DSL line cable to DSL port on the router to the land line jack on the wall for accessing Internet.
2. Or, you can connect the WAN1 interface to the Cable/DSL Modem or media converter for accessing Internet.
3. 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.
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.



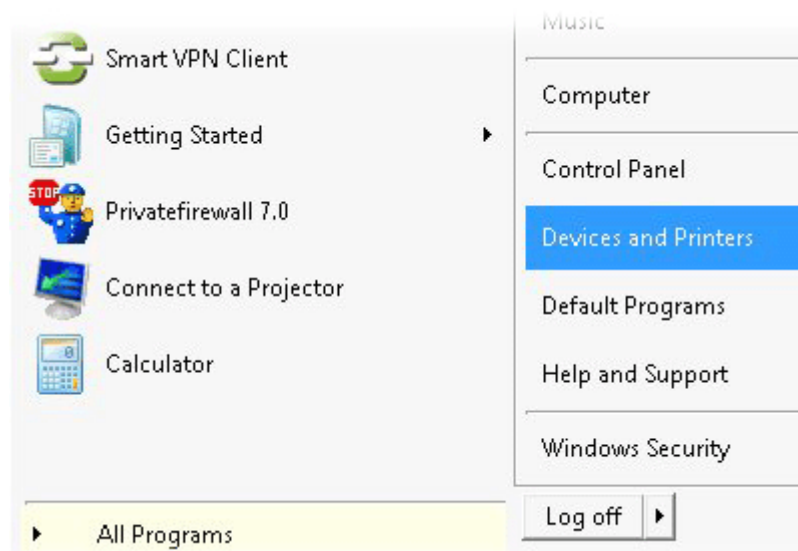
## 2.2 Printer Installation

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 7. For installation on other Windows systems, please visit [www.DrayTek.com](http://www.DrayTek.com).

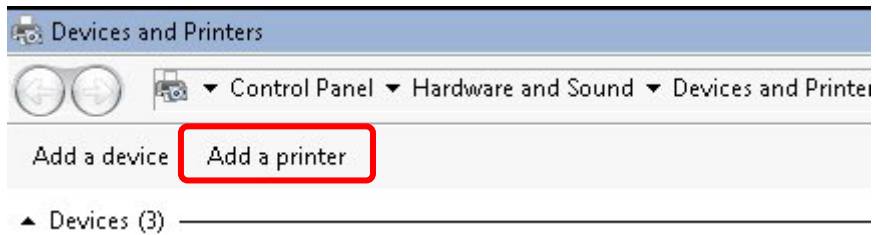


Before using it, please follow the steps below to configure settings for connected computers (or wireless clients).

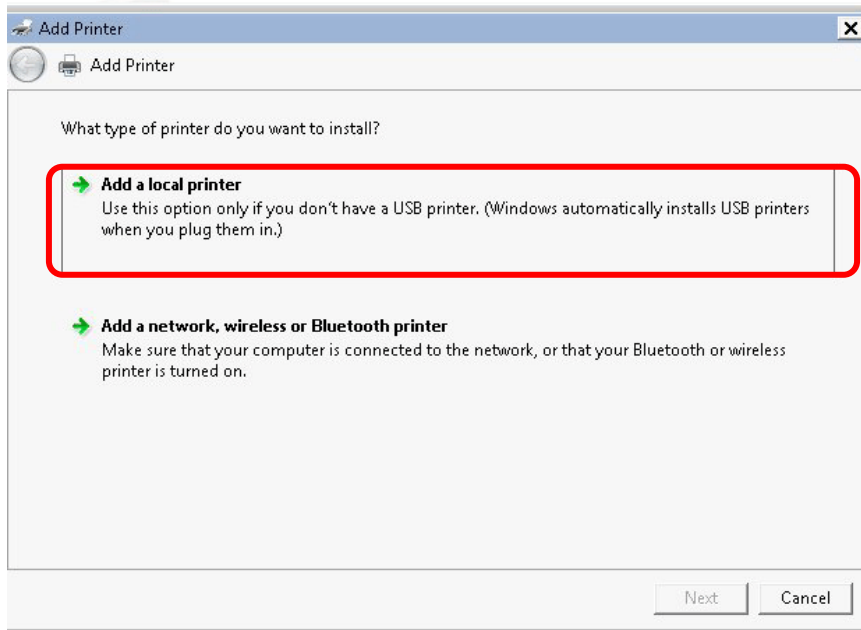
1. Connect the printer with the router through USB/parallel port.
2. Open **All Programs>>Getting Started>>Devices and Printers**.



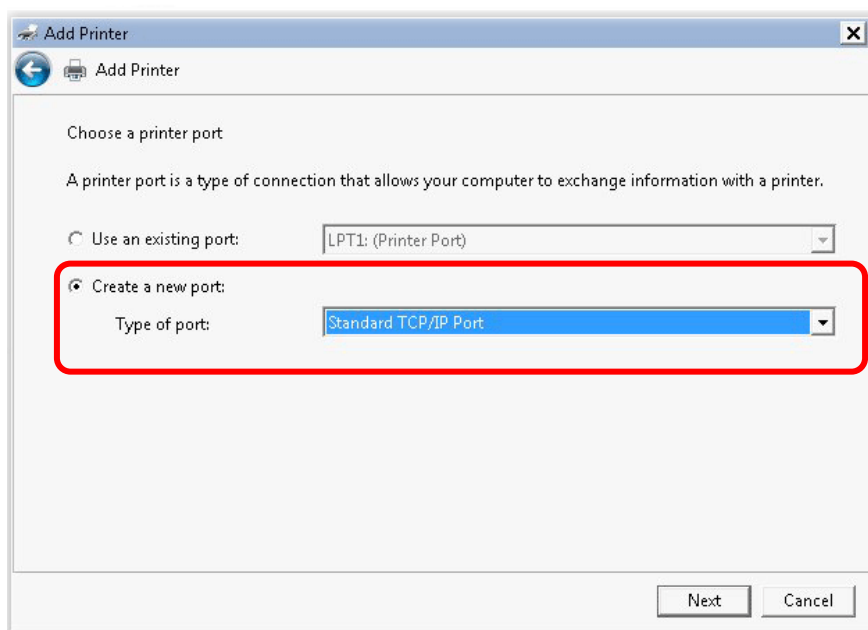
3. Click **Add a printer**.



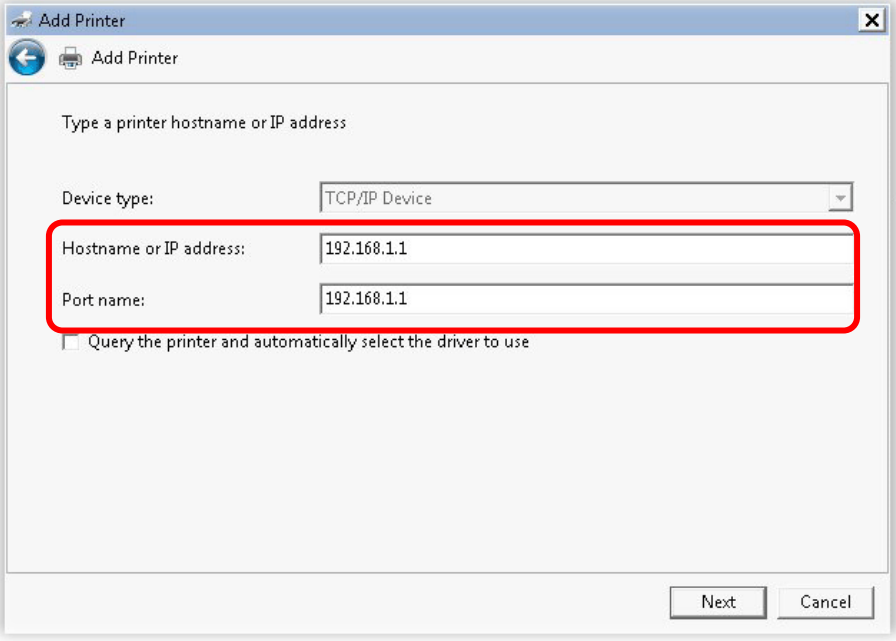
4. A dialog will appear. Click **Add a local printer** and click **Next**.



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



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

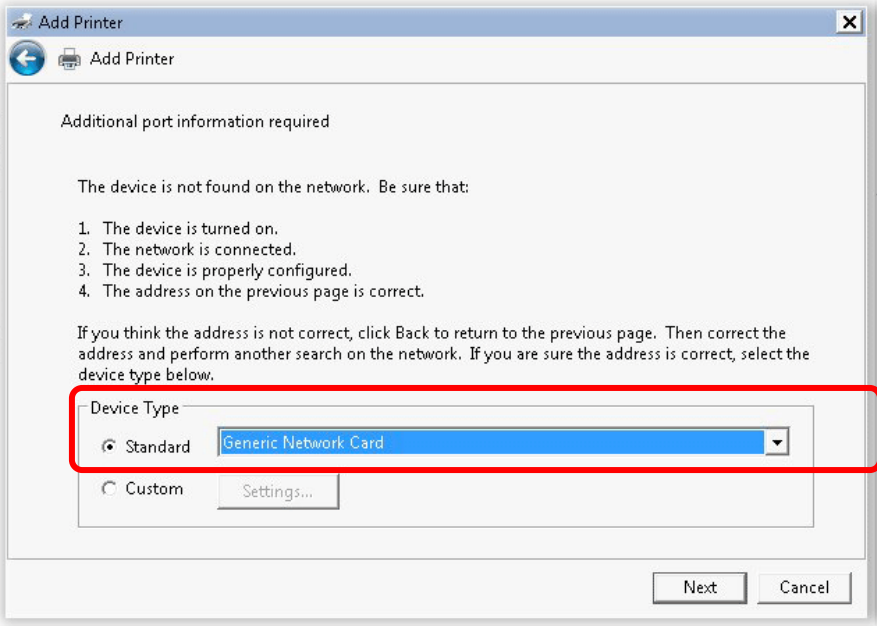


The screenshot shows the 'Add Printer' dialog box with the following fields and options:

- Device type: TCP/IP Device
- Hostname or IP address: 192.168.1.1
- Port name: 192.168.1.1
- Query the printer and automatically select the driver to use

Buttons: Next, Cancel

7. Click **Standard** and choose **Generic Network Card**.



The screenshot shows the 'Add Printer' dialog box with the following content:

Additional port information required

The device is not found on the network. Be sure that:

1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.

If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.

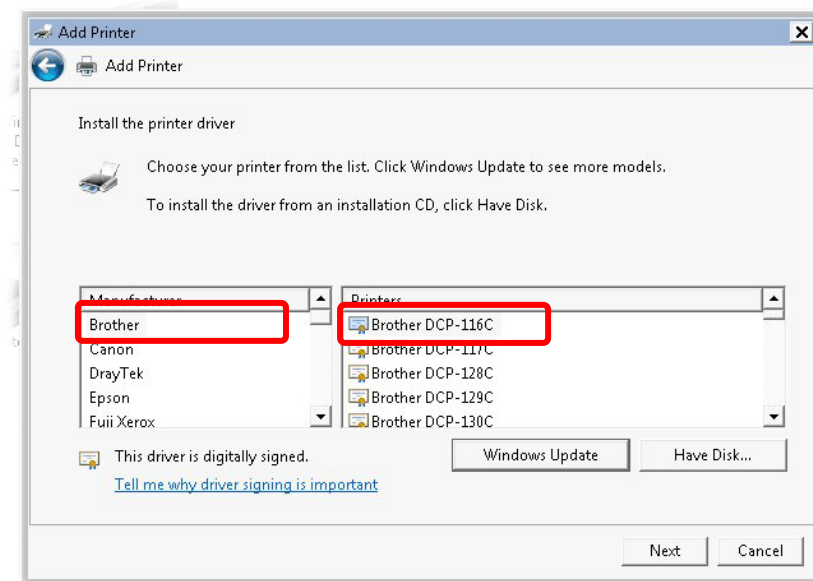
Device Type

- Standard: Generic Network Card
- Custom: Settings...

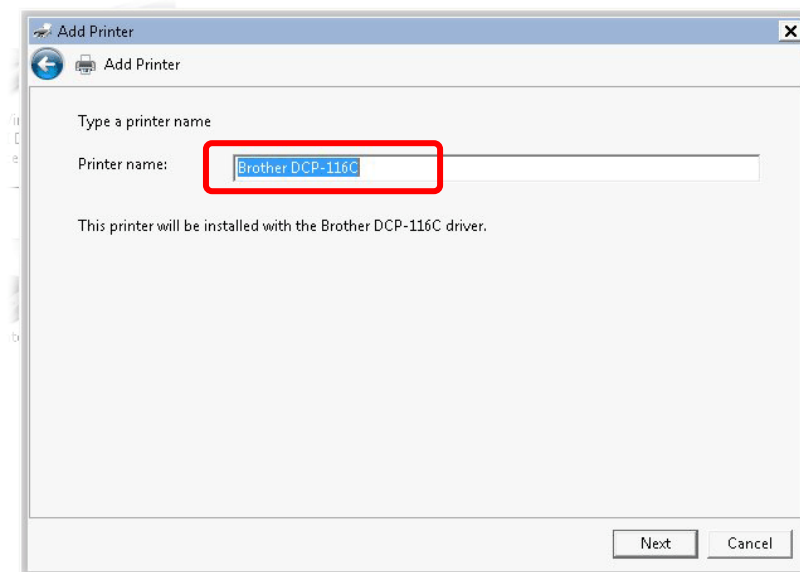
Buttons: Next, Cancel



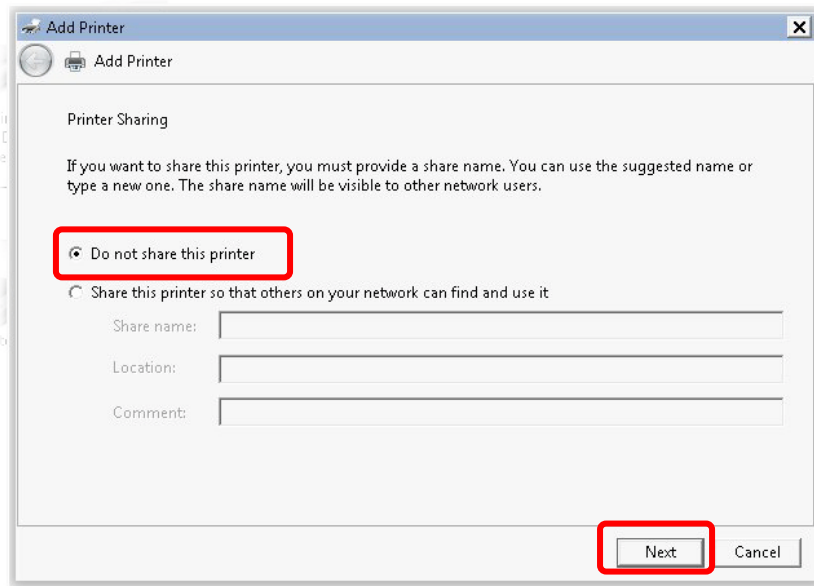
8. Now, your system will ask you to choose right name of the printer that you installed onto the router. Such step can make correct driver loaded onto your PC. When you finish the selection, click **Next**.



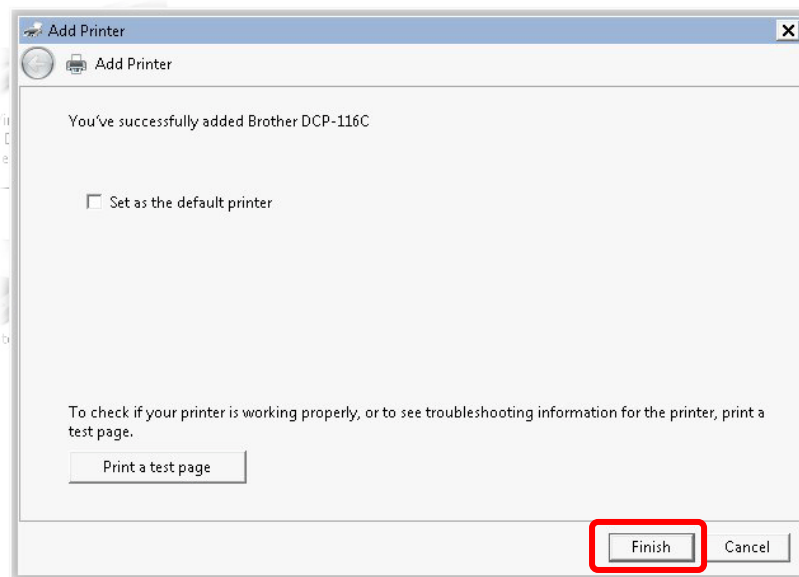
9. Type a name for the chosen printer. Click **Next**.



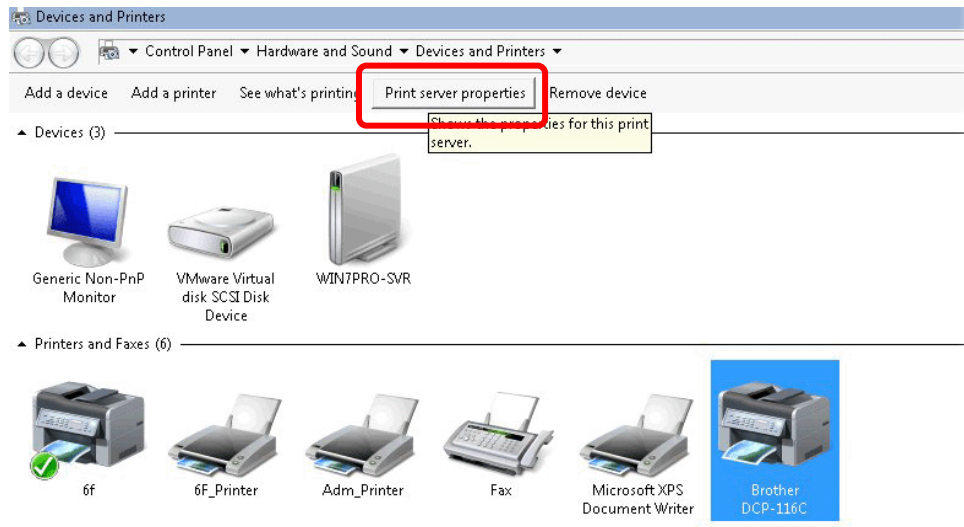
10. Choose **Do not share this printer** and click **Next**.



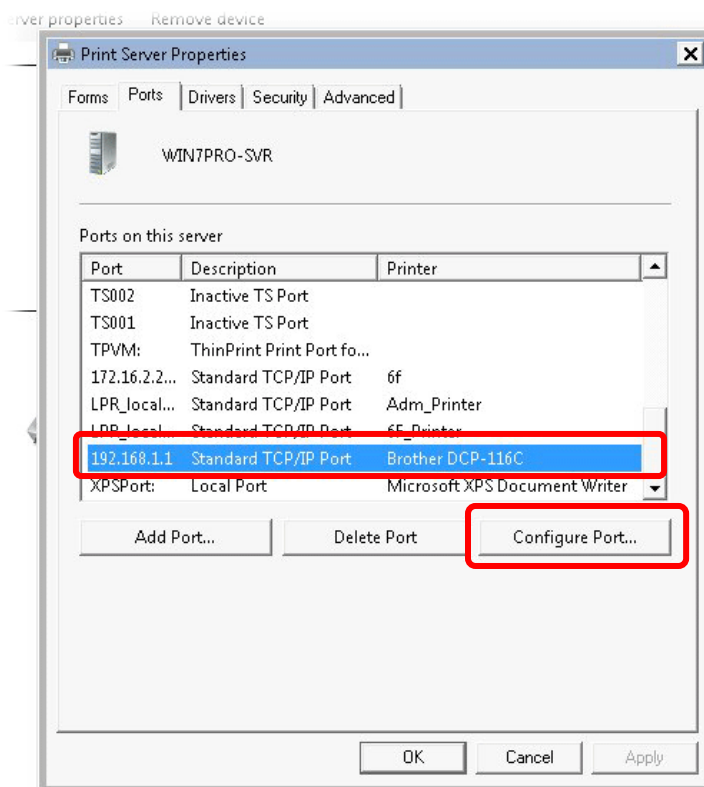
11. Then, in the following dialog, click **Finish**.



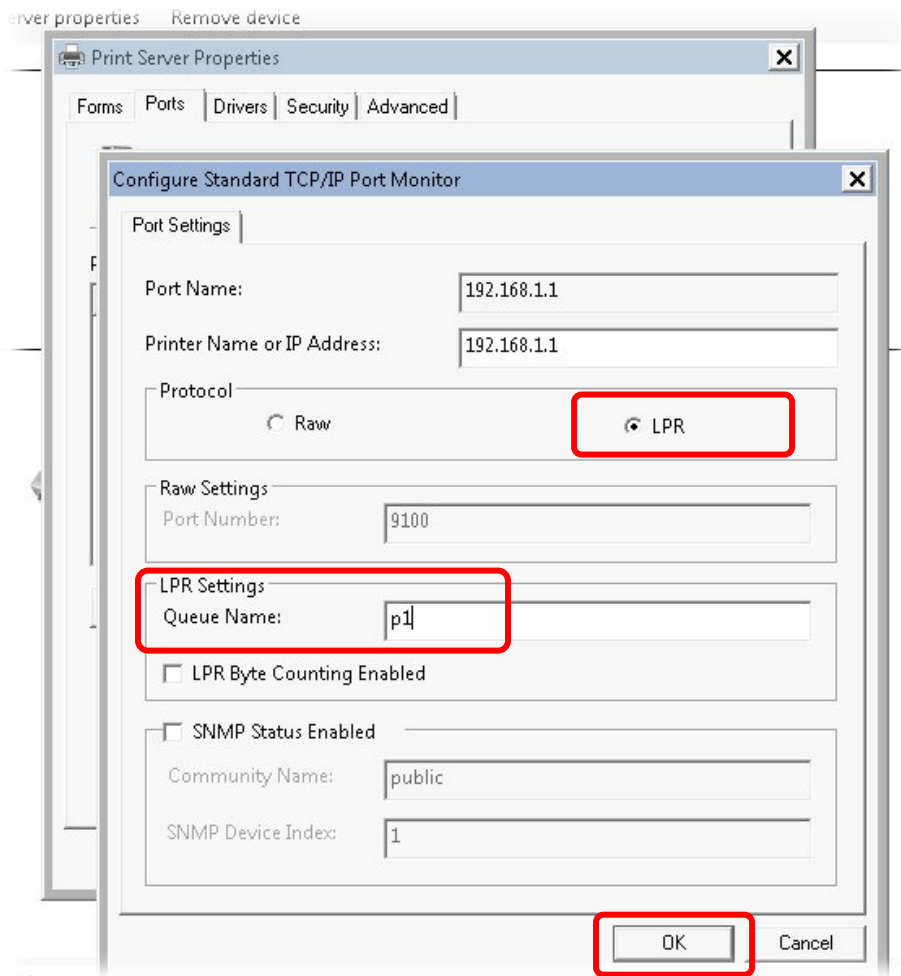
12. The new printer has been added and displayed under **Printers and Faxes**. Click the new printer icon and click **Printer server properties**.



13. Edit the property of the new printer you have added by clicking **Configure Port**.



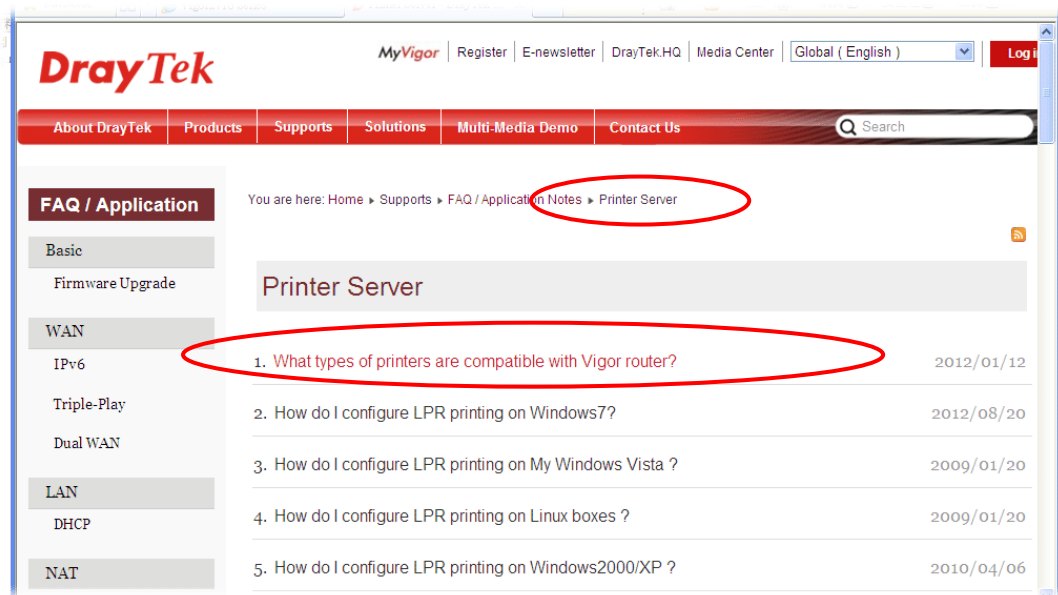
14. Select "LPR" on Protocol, type **p1** (number 1) as **Queue Name**. Then click **OK**. Next please refer to the red rectangle for choosing the correct protocol and LPR name.



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

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**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](http://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.



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

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## 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.



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**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.

Username

Password

Login

Copyright©, DrayTek Corp. All Rights Reserved. **DrayTek**

3. Please type “admin/admin” as the Username/Password and click **Login**.

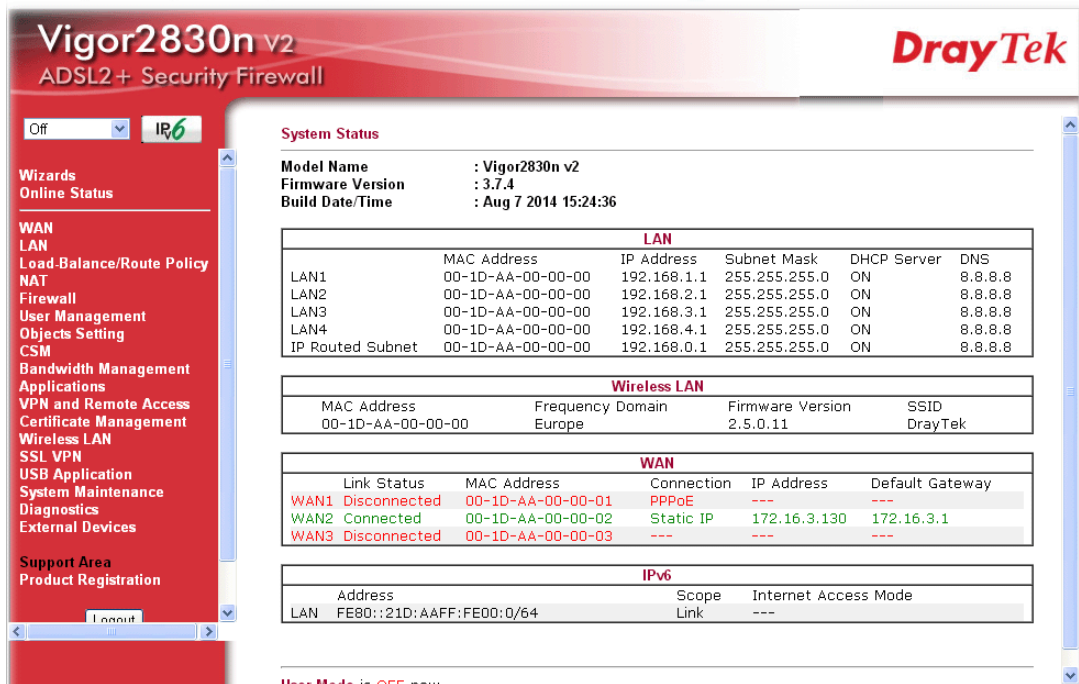


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**Notice:** If you fail to access to the web configuration, please go to “Trouble Shooting” for detecting and solving your problem.

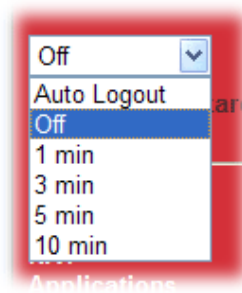
---

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



**Note:** The home page will be different slightly in accordance with the type of the router you have.

5. 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

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.

1. Click **Quick Start Wizard**.
2. Enter the login password on the field of **New Password** and retype it on the field of **Confirm Password**. Then click **Next** to continue.

### Quick Start Wizard

#### Enter login password

Please enter an alpha-numeric string as your **Password** (Max 23 characters).

Old Password	<input type="password"/>
New Password	<input type="password"/>
Confirm Password	<input type="password"/>

3. 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/4G USB modem is used, please choose WAN3. Then click **Next** for next step.

### Quick Start Wizard

#### WAN Interface

WAN Interface:	<input type="text" value="WAN1"/>
Display Name:	<input type="text"/>
Physical Mode:	ADSL
Physical Type:	<input type="text" value="Auto negotiation"/>

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

## For WAN1

Choose WAN1 and click **Next** to display the following page. 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.

### Quick Start Wizard

#### Connect to Internet

<b>WAN 1</b>	
VPI	<input type="text" value="0"/> <input type="button" value="Auto detect"/>
VCI	<input type="text" value="33"/>
Protocol / Encapsulation	<input type="text" value="PPPoE LLC/SNAP"/>
Fixed IP	<input type="radio"/> Yes <input checked="" type="radio"/> No(Dynamic IP)
IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
Default Gateway	<input type="text"/>
Primary DNS	<input type="text"/>
Second DNS	<input type="text"/>

PPPoE LLC/SNAP

- PPPoE LLC/SNAP
- PPPoE VC MUX
- PPPoA LLC/SNAP
- PPPoA VC MUX
- 1483 Bridged IP LLC
- 1483 Routed IP LLC
- 1483 Bridged IP VC-Mux
- 1483 Routed IP VC-Mux (IPoA)
- 1483 Bridged IP (IPoE)

**PPPoE/PPPoA:** if you click PPPoE or PPPoA as the protocol, please manually enter the Username/Password provided by your ISP. Then click **Next**.

### Quick Start Wizard

#### Set PPPoE / PPPoA

<b>WAN 1</b>	
Service Name (Optional)	<input type="text" value="CHT"/>
Username	<input type="text" value="84005755@hinet.net"/>
Password	<input type="password" value="....."/>
Confirm Password	<input type="password" value="....."/>

**1483 Bridged IP /1483 Routed IP:** if you choose 1483 Bridged IP / 1483 Routed IP as the protocol, you will get the following page. Please type in the IP address information originally provided by your ISP. Then click **Next** for next step.

Quick Start Wizard

Connect to Internet

WAN 1	
VPI	<input type="text" value="0"/> <input type="button" value="Auto detect"/>
VCI	<input type="text" value="33"/>
Protocol / Encapsulation	1483 Routed IP LLC <input type="button" value="v"/>
Fixed IP	<input type="radio"/> Yes <input checked="" type="radio"/> No(Dynamic IP)
IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
Default Gateway	<input type="text"/>
Primary DNS	<input type="text" value="168.95.1.1"/>
Second DNS	<input type="text" value="168.95.1.10"/>

Now you can see the following screen. It indicates that the setup is complete. Different types of connection modes will have different summary. Click **Finish** and then restart the router. Afterward, you will enjoy surfing on the Internet.

Quick Start Wizard

Please confirm your settings:

WAN Interface:	WAN1
Physical Mode:	ADSL
Physical Type:	Auto negotiation
VPI:	0
VCI:	33
Protocol / Encapsulation:	1483 Route LLC
Fixed IP:	No
Primary DNS:	168.95.1.1
Secondary DNS:	168.95.1.10

## For WAN2

If you choose WAN2, you have to choose physical mode and specify physical type. Then, click **Next**.

### Quick Start Wizard

#### WAN Interface

WAN Interface:	WAN2 ▾
Display Name:	<input type="text"/>
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.

### Quick Start Wizard

#### Connect to Internet

**WAN 2**

Select one of the following Internet Access types provided by your ISP.

- PPPoE
- PPTP
- L2TP
- Static IP
- DHCP

**PPPoE:** if you click PPPoE as the protocol, please manually enter the Username/Password provided by your ISP. Then click **Next**.

**Quick Start Wizard**

**PPPoE Client Mode**

**WAN 2**  
Enter the user name and password provided by your ISP.

Service Name (Optional)	<input type="text" value="CHT"/>
Username	<input type="text" value="84005755@hinet.net"/>
Password	<input type="password" value="*****"/>
Confirm Password	<input type="password" value="*****"/>

**PPTP/L2TP:** if you click PPTP/L2TP, you will get the following page. Please type in all the information originally provided by your ISP. Then click **Next** for next step.

**Quick Start Wizard**

**L2TP Client Mode**

**WAN 2**  
Enter the user name, password, WAN IP configuration and L2TP server IP provided by your ISP.

User Name	<input type="text" value="test"/>
Password	<input type="password" value="****"/>
Confirm Password	<input type="password" value="****"/>
WAN IP Configuration	
<input checked="" type="radio"/> Obtain an IP address automatically	
<input type="radio"/> Specify an IP address	
IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
Gateway	<input type="text" value="undefined"/>
Primary DNS	<input type="text"/>
Second DNS	<input type="text"/>
L2TP Server	<input type="text"/>

**Static IP:** if you click Static IP, you will get the following page. Please type in the IP address information originally provided by your ISP. Then click **Next** for next step.

**Quick Start Wizard**

---

**Static IP Client Mode**

**WAN 2**  
Enter the Static IP configuration provided by your ISP.

WAN IP	<input type="text" value="172.16.3.102"/>
Subnet Mask	<input type="text" value="255.255.0.0"/>
Gateway	<input type="text" value="172.16.1.1"/>
Primary DNS	<input type="text" value="168.95.1.1"/>
Secondary DNS	<input type="text"/> (optional)

**DHCP:** if you click DHCP, you will get the following page. Simply click **Next** to continue.

**Quick Start Wizard**

---

**DHCP Client Mode**

**WAN 2**  
If your ISP requires you to enter a specific host name or specific MAC address, please enter it in.

Host Name	<input type="text"/> (optional)
MAC	<input type="text" value="00"/> - <input type="text" value="50"/> - <input type="text" value="7F"/> - <input type="text" value="00"/> - <input type="text" value="00"/> - <input type="text" value="02"/> (optional)

Now you can see the following screen. It indicates that the setup is complete. Different types of connection modes will have different summary. Click **Finish** and then restart the router. Afterward, you will enjoy surfing on the Internet.

#### Quick Start Wizard

---

#### Please confirm your settings:

WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	DHCP

Click **Back** to modify changes if necessary. Otherwise, click **Finish** to save the current settings and restart the Vigor router.

< Back

Next >

Finish

Cancel

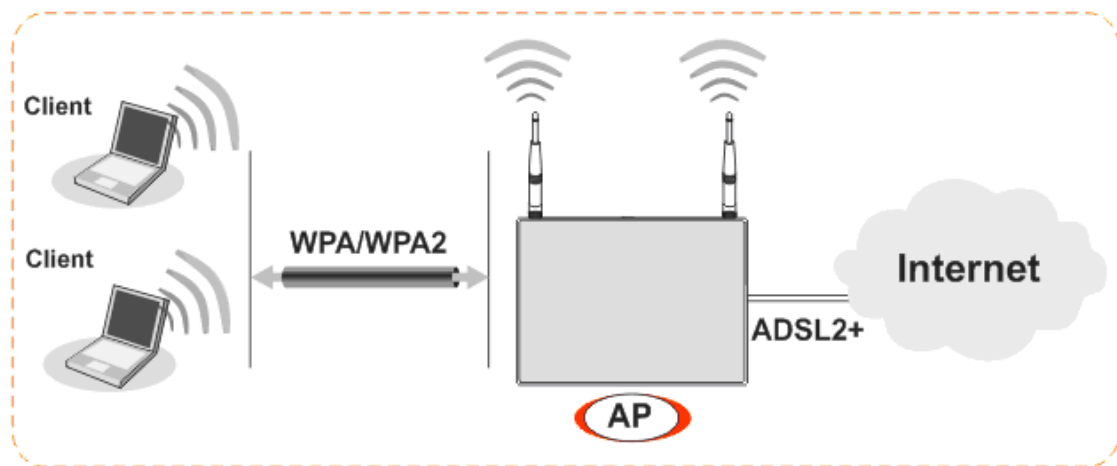
## 3.3 Wireless Configuration

For operating Vigor2830n 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

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

Wireless LAN >> General Setup

**General Setting ( IEEE 802.11 )**

Enable Wireless LAN

Mode :

Channel:

	Enable	Hide SSID	SSID	Isolate Member	Isolate VPN
1	<input type="checkbox"/>	<input type="checkbox"/>	DrayTek	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	DrayTek_Guest	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

**Note:**  
Enabling the Isolate Member configuration will forbid the wireless clients associated to the same SSID from connecting to each other.

The isolate VPN configuration will isolate the wireless traffic from VPN connections and thus, wireless clients will not be able to access the VPN network under this setting.

Rate Control

	Enable	Upload	Download
SSID 1	<input type="checkbox"/>	<input type="text" value="30000"/> kbps	<input type="text" value="30000"/> kbps
SSID 2	<input type="checkbox"/>	<input type="text" value="30000"/> kbps	<input type="text" value="30000"/> kbps
SSID 3	<input type="checkbox"/>	<input type="text" value="30000"/> kbps	<input type="text" value="30000"/> kbps
SSID 4	<input type="checkbox"/>	<input type="text" value="30000"/> kbps	<input type="text" value="30000"/> kbps

**Note:**  
Configurable upload and download rates are from 100 to 50,000(kbps).

Associated **Schedule** Profiles:  ,  ,  ,

**Note:**  
Only schedule profiles that have the action "Force Down" are applied to the WLAN, all other actions are ignored. Valid settings are profile indexes 1 to 15.

2. Check **Enable Wireless LAN** to enable the wireless function.
3. At present, the router can connect to IEEE802.11b, IEEE802.11g and IEEE802.11n 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 change it to a particular name for your necessity.
5. Click **OK** to save settings.

### 3.3.3 Security Settings

For the wireless client who wants to access into Internet through such router, please input the default PSK value for connection.

1. On the **Wireless LAN** group, select **Security** to open the following page.

Wireless LAN >> Security Settings

Mode: Mixed(WPA+WPA2)/PSK

WPA

Encryption Mode: TKIP for WPA/AES for WPA2

Pre-Shared Key(PSK): \*\*\*\*\*

Type 8~63 ASCII character or 64 Hexadecimal digits leading by "0x", for example "cfigs01a2..." or "0x655abcd....".

WEP

Encryption Mode: 64-Bit

Key 1 : \*\*\*\*\*

Key 2 : \*\*\*\*\*

Key 3 : \*\*\*\*\*

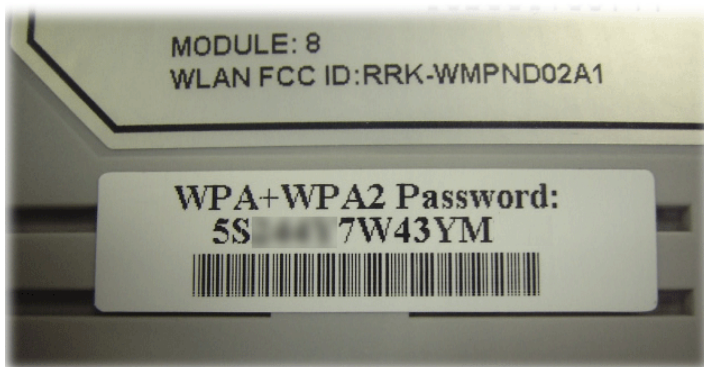
Key 4 : \*\*\*\*\*

**Note:**  
Please configure the **RADIUS Server** if 802.1x is used.  
For 64 bit WEP key configurations, please insert 5 ASCII characters or 10 Hexadecimal digits leading by "0x". Examples are "AB312" or "0x4142333132".  
For 128 bit WEP key configurations, please insert 13 ASCII characters or 26 Hexadecimal digits leading by "0x".

OK Cancel

2. The default security mode is **Mixed (WPA+WPA2)/PSK**.

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



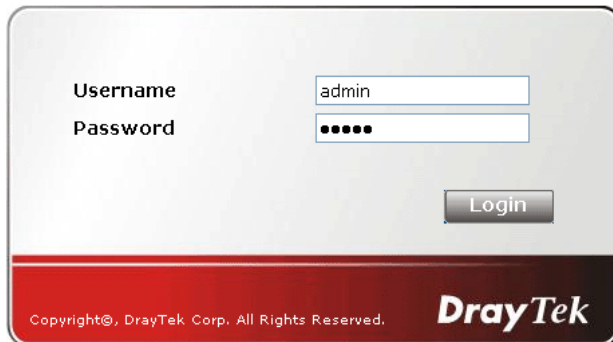
3. Click **OK** to save settings.

Note 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.

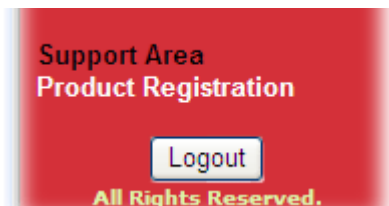
### 3.4 Registering Vigor Router

You have finished the configuration of Quick Start Wizard and you can surf the Internet at any time. Now it is the time to register your Vigor router to MyVigor website for getting more service. Please follow the steps below to finish the router registration.

1. Please login the web configuration interface of Vigor router by typing “**admin/admin**” as User Name / Password.



2. Click **Support Area>>Production Registration** from the home page.



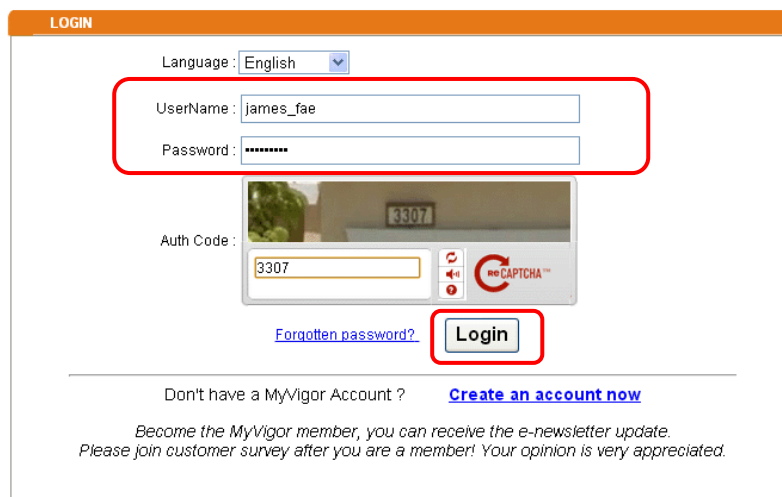
3. A **Login** page will be shown on the screen. Please type the account and password that you created previously. And click **Login**.



**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.





**Notice:** If you haven't an accessing account, please refer to section 4.13 Creating an Account for MyVigor on User's Guide to create your own one. Please **read the articles on the Agreement regarding user rights** carefully while creating a user account.

4. The following page will be displayed after you logging in MyVigor. From this page, please click **Add** or **Product Registration**.

The screenshot shows the MyVigor user interface. The top navigation bar includes the DrayTek logo, a 'Home' button, and a search field. A left sidebar contains menu items: About Us, Product, My Information, VigorACS SI, Vigor Series, Management, Product Registration (highlighted with a red box), and Customer Survey. The main content area is titled 'My Information' and displays user details for 'james\_fae', including last and current login times and IP addresses. Below this is a 'Your Device List' section with a table of devices and a pagination control showing 'RowNo : 5' and 'PageNo : 1' with an 'Add' button (highlighted with a red box).

Serial Number / Host ID	Device Name	Model	Note
<a href="#">104001703857</a>	Vigor2710	Vigor2710	-
<a href="#">200807100001</a>	VigorPro5300	VigorPro5300	-
<a href="#">200911030001</a>	ryan	VigorPro5300	-

5. When the following page appears, please type in Nickname (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**.

The screenshot shows the DrayTek MyVigor registration interface. The page has a red header with the DrayTek logo and 'MyVigor' text. A navigation menu on the left includes 'Home', 'About Us', 'Product', 'My Information', 'VigorACS SI', 'Vigor Series', 'Management', 'Product Registration', and 'Customer Survey'. The main content area is titled 'My Product' and 'Registration Device'. The form fields are as follows:

- Serial number : 2011082214320301
- Nickname : \* vigor2830
- Registration Date : \* 08-24-2011
- Usage : - Select -
- Product Rating : - Select - [ Your opinion so far ]
- No. of Employees : - Select - [ In total within your company ]
- Supplier : [ ] [ Where you bought it from ]
- Date of Purchase : [ ] [ mm-dd-yyyy ]
- Internet Connection : \*
  - Cable
  - ADSL
  - VDSL
  - Fiber
  - 3G
  - WIMAX
  - LTE

At the bottom right, there are 'Cancel' and 'Submit' buttons. The 'Submit' button is highlighted with a red box.

6. When the following page appears, your router information has been added to the database.

Your device has been successfully added to the database.

OK

7. Now, you have finished the product registration.

8. After clicking **OK**, you will see the following page. Your router has been registered to *myvigor* website successfully.

The screenshot shows the MyVigor website interface. At the top, there is a red header with the DrayTek logo on the left and the MyVigor logo on the right. Below the header, there is a navigation menu on the left with options: Home, About Us, Product, My Information, VigorACS SI, Vigor Series, Management, and Customer Survey. The main content area is titled "My Information" and displays the following details:

Welcome, **draytekfae**  
Last Login Time : 2011-08-24 09:39:13  
Last Login From : 123.110.144.220  
Current Login Time : 2011-08-24 23:01:15  
Current Login From : 114.37.142.184

Below the user information, there is a "Your Device List" section with a table. The table has four columns: Serial Number / Host ID, Device Name, Model, and Note. The table contains five rows of data. The last row, which is highlighted with a red box, is:

Serial Number / Host ID	Device Name	Model	Note
<a href="#">20100707144801</a>	Vigor3300V	Vigor3300	-
<a href="#">20100708105301</a>	Vigor2820	Vigor2820	-
<a href="#">20101005104801</a>	Vigor2710vn	Vigor2710	-
<a href="#">2010121707335201</a>	Vigor2920	Vigor2920	-
<a href="#">2011082214320301</a>	Vigor2830	Vigor2830	-

## 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 still failed, please do the steps listed below to make sure the network connection settings is OK.

### For Windows

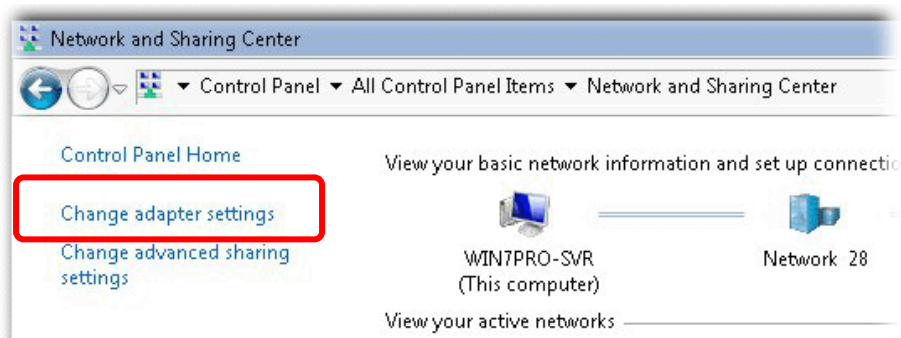


The example is based on Windows 7 (Professional Edition). As to the examples for other operation systems, please refer to the similar steps or find support notes in [www.draytek.com](http://www.draytek.com).

1. Open **All Programs>>Getting Started>>Control Panel**. Click **Network and Sharing Center**.

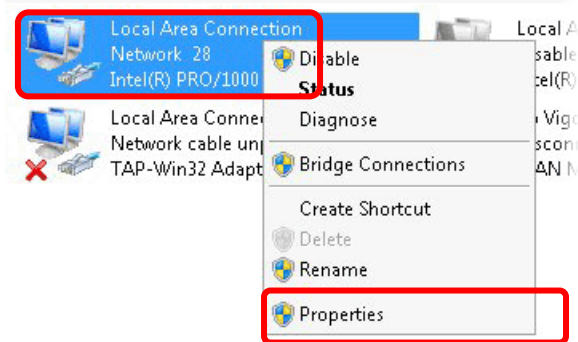


2. In the following window, click **Change adapter settings**.

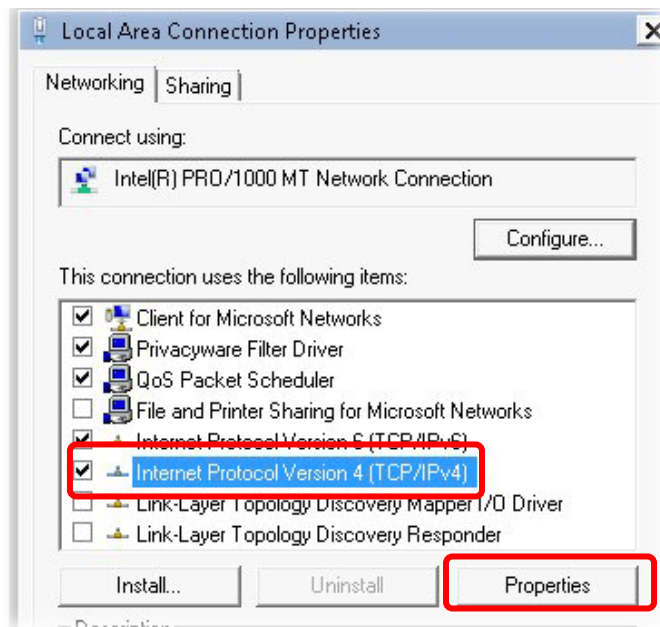




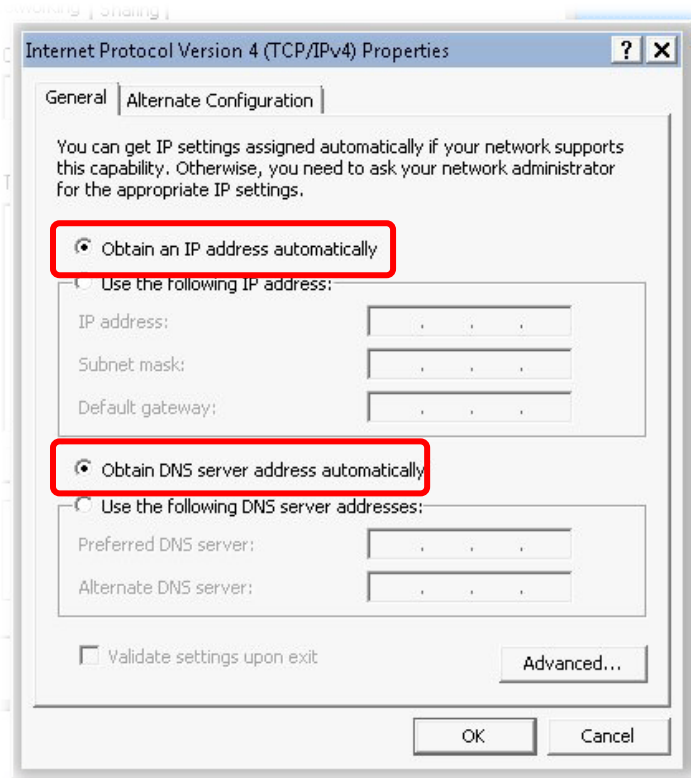
- Icons of network connection will be shown on the window. Right-click on **Local Area Connection** and click on **Properties**.



- Select **Internet Protocol Version 4 (TCP/IP)** and then click **Properties**.

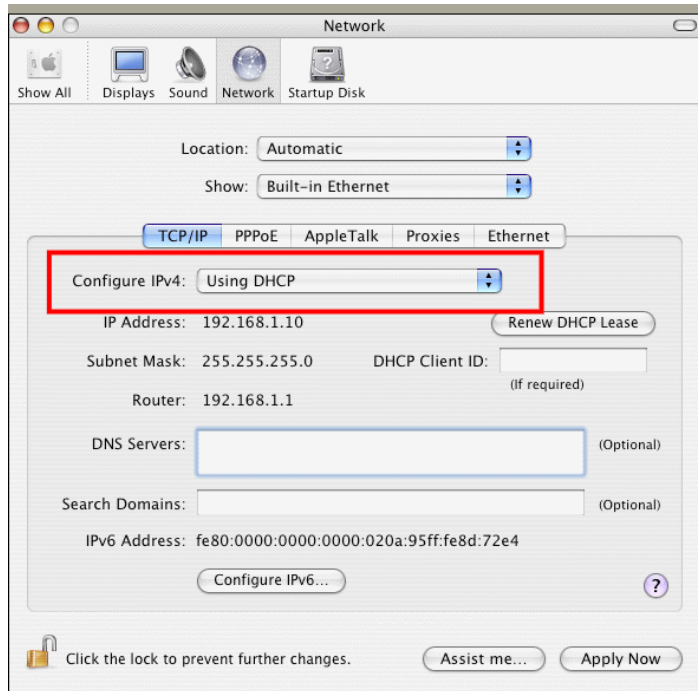


5. Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**. Finally, click **OK**.



## 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.



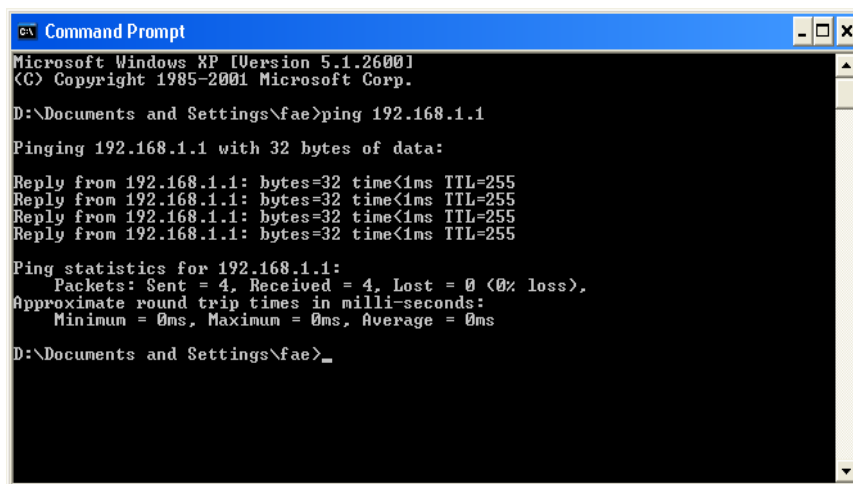
## 4.3 Pinging the Router from Your Computer

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.



```
CA Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

D:\Documents and Settings\fae>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255

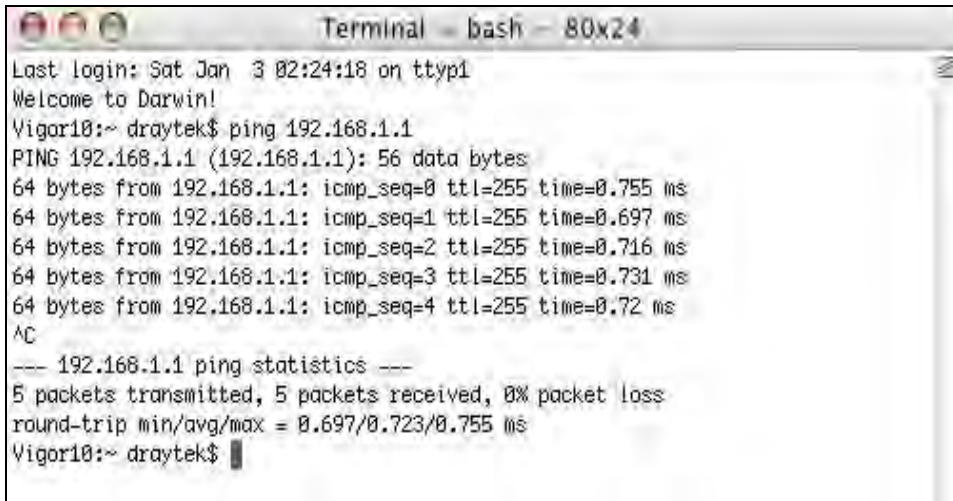
Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

D:\Documents and Settings\fae>_
```

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 ttty1
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	PPPoE / PPPoA	<a href="#">Details Page</a> <a href="#">IPv6</a>
WAN2		Ethernet	Static or Dynamic IP	<a href="#">Details Page</a> <a href="#">IPv6</a>
WAN3		USB	None PPPoE Static or Dynamic IP PPTP/L2TP	<a href="#">Details Page</a> <a href="#">IPv6</a>

**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 only.



**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 factory default is null.

### Software Reset

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 **Schedule** Setup: , , ,

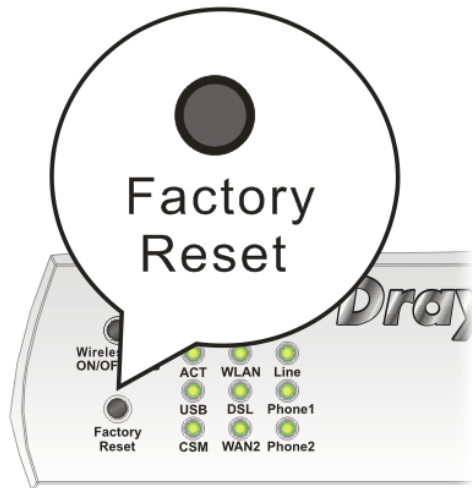
**Note:** Action and Idle Timeout settings will be ignored.

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 DrayTek

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](mailto:support@draytek.com).