

Vigor2930 Series Dual-WAN Security Firewall Quick Start Guide

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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 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	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 303Product:Vigor2930 Series Router

DrayTek Corp. declares that Vigor2930 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 89/336/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 73/23/EEC by complying with the requirements set forth in EN60950.

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 use 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 form 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 www.draytek.com/about_us/Regulatory.php.



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1. Introduction

Vigor2930 is a broadband router with dual-WAN interface. It provides policy-based load-balance, fail-over and BOD (Bandwidth on Demand), also it integrates IP layer QoS, NAT session/bandwidth management to help users control works well with large bandwidth.

By adopting hardware-based VPN platform, hardware encryption of AES/DES/3DS 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 100 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.

Vigor2930 V models provide twin analogue phone ports. S models support ISDN ports. Combining the characteristics of V and S models can offer two ISDN ports additionally besides analogue phone ports. ISDN S0 port is dedicated for ISDN phone; the other ISDN port is configurable for ISDN line and phone. It supports multiple SIP registrars with highly flexible configuration and call handling options.

Definitions for ISDN Ports

Below shows the names that displayed on front panel of the device and the WEB UI of this device.

ISDN TE (Terminal Equipment) means an interface for transmitting analog signal through Internet between Switching and router. Such interface is also named with **ISDN S0 extern** in Germany.

ISDN NT (Network Terminator) is a port that used to connect general phone. Such interface is also named with **ISDN S0 intern** in Germany.

The **ISDN S0 1** port on Vigor2930 series is fixed to connect phone forever and the LED on the connecter will light orange always. However **ISDN S0 2** port on this device is configurable for connecting phone or accessing Internet according to the settings that you adjust on WEB UI (please refer to **VoIP>>Phone Setting** for detailed information).



Warning: When the orange LED lights (means ISDN NT mode), the ISDN port can be used to connect phone only. Wrong ISDN connection might cause severe damage on your device.

1.1 Panel Explanation

1.1.1 For Vigor2930

Dray VIGOR2930 DUAL-WAN SECURT		Destard	2 2 2 WAN LAN
LED		Status	Explanation
ACT (Activity)		Blinking	The router is powered on and running normally.
		Off	The router is powered off.
DoS		On	The DoS/DDoS function is active.
		Blinking	It will blink while deleting an attack.
CSM		On	The profile of CSM (Content Security Management) for IM/P2P application is active. (It is enabled from Objects Setting >> CSM Profile).
CPA (Content P	Portal Authority)	On	The Web Content Filter is active. (It is enabled from Firewall >> Web Content Filter Setup)
WAN1/2		On	The WAN1 or WAN2 connection is ready.
		Blinking	It will blink while transmitting data.
MGMT		On	The router is managed (handled) by Telnet.
		Blinking	It will blink while being managed by IE browser.
VPN		On	The VPN tunnel is active.
QoS		On	The QoS function is active.
LED on Conne	ector		
	Left LED	On	The port is connected.
WAN 1/2	(Green)	Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 100Mbps.
	(Green)	Off	The port is disconnected with 10Mbps.
LAN 1/2/3/4	Left LED	On	The port is connected.
	(Green)	Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 100Mbps.
	(Green)	Off	The port is disconnected with 10Mbps.

Factory Robert Hanitari		PWR ON
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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.		
Restart	Restart the router forcefully.		
WAN(1/2)	Connecters for remote networked devices.		
LAN (1-4)			
PWR			
ON/OFF Power Switch.			

1.1.2 For Vigor2930n

VIGOR2	YTEK DIGIN DURITY FIREWALL	AGT WILAN MOMT Dos Wani VPN SM Wanz Qos	Factory Reset Restart 2 WAN LAN
LED		Status	Explanation
ACT (Activity)		Blinking	The router is powered on and running normally.
		Off	The router is powered off.
DoS		On	The DoS/DDoS function is active.
		Blinking	It will blink while deleting an attack.
CSM		On	The profile of CSM (Content Security Management) for IM/P2P application is active. (It is enabled from Objects Setting >> CSM Profile).
WLAN		On	Wireless access point is ready.
		Blinking	It will blink while wireless traffic goes through.
WAN1/2		On	The WAN1 or WAN2 connection is ready.
		Blinking	It will blink while transmitting data.
MGMT		On	The router is managed (handled) by Telnet.
		Blinking	It will blink while being managed by IE browser.
VPN		On	The VPN tunnel is active.
QoS		On	The QoS function is active.
LED on Conne	ector		•
	Left LED	On	The port is connected.
WAN 1/2	(Green)	Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 100Mbps.
	(Green)	Off	The port is disconnected with 10Mbps.
	Left LED	On	The port is connected.
LAN 1/2/3/4	(Green)	Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 100Mbps.
	(Green)	Off	The port is disconnected with 10Mbps.





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.
Restart	Restart the router forcefully.
Phone (1/2)	Connecters for PSTN phones.
WAN (1/2)	Connecters for remote networked devices.
LAN (1-4)	Connecters for local networked devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

1.1.3 For Vigor2930Vn

ON/OFF

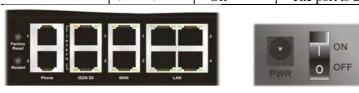
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Restart Restart the router forcefully.			
Phone (1/2) Connecters for PSTN phones.			
WAN (1/2)Connecters for remote networked devices.			
LAN (1-4) Connecters for local networked devices.			
PWR Connecter for a power adapter.			

Power Switch.

1.1.4 For Vigor2930VS

VIGOR2	yTek	T CPA MGMT S WANI Phone1 M WAN2 Phone2	Pectory Result Result Phone ISON S0 WAN LAN
LED		Status	Explanation
ACT (Activity)		Blinking	The router is powered on and running normally.
		Off	The router is powered off.
DoS		On	The DoS/DDoS function is active.
		Blinking	It will blink while deleting an attack.
CSM		On	The profile of CSM (Content Security Management) for IM/P2P application is active. (It is enabled from Objects Setting >> CSM Profile).
CPA (Content I	Portal Authority)	On	The Web Content Filter is active. (It is enabled from Firewall >> Web Content Filter Setup)
WAN1/2		On	The WAN1 or WAN2 connection is ready.
		Blinking	It will blink while transmitting data.
MGMT		On	The router is managed (handled) by Telnet.
		Blinking	It will blink while being managed by IE browser.
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 Conn	ector		
ISDN S0 1	Left LED	On	ISDN NT (ISDN S0 intern) mode is active and an ISDN phone adapter is connected.
	(Orange)	Blinking	ISDN NT (ISDN S0 intern) mode is active and an ISDN phone adapter is not connected.
	Right LED	On	A phone has been connected. If not, green LED will be off.
	(Green)	Blinking	An ISDN phone is off-hook or a phone call comes.
ISDN S0 2	Left LED (Orange)	On	ISDN NT (ISDN S0 intern) mode is active configured from VoIP>>Phone Settings and an ISDN phone adapter is connected.
		Blinking	ISDN NT (ISDN S0 intern) mode configured from VoIP>>Phone Settings is active and an ISDN phone adapter is not connected.
		Off	It means ISDN TE mode is active which is configured from VoIP>>Phone Settings .
	Right LED (Green)	On	A phone adapter with phone set has been connected (ISDN S0 intern mode) or ISDN line has been connected (ISDN S0 extern mode). It will be off if there is nothing connected.
		Blinking	In ISDN NT (ISDN S0 intern) mode, it means an ISDN phone is off-hook or a phone call comes. In ISDN TE mode, it means data, fax or voice (phone call) is transmitting.
	Left LED	On	The port is connected.
WAN 1/2	(Green)	Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 100Mbps.
	(Green)	Off	The port is disconnected with 10Mbps.
	Left LED	On	The port is connected.

(Green)	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right LED	On	The port is connected with 100Mbps.
(Green)	Off	The port is disconnected with 10Mbps.





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.	
Restart	Restart the router forcefully.	
Phone $(1/2)$	Connecters for PSTN phones.	
ISDN S0 1	Connecter for ISDN phone(s) only via ISDN phone adapter. Do not connect any other device to such port or connect ISDN line, otherwise the router might be damaged.	
ISDN S0 2	Connecter for ISDN line or ISDN phone adapter in particular condition. Refer to section 2.2 for more details.	
WAN (1/2)	Connecters for remote networked devices.	
LAN (1-4) Connecters for local networked devices.		
PWR	Connecter for a power adapter.	
ON/OFF	Power Switch.	

1.1.5 For Vigor2930VSn

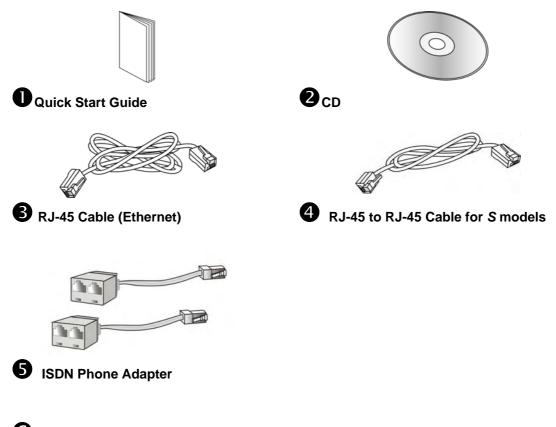
VIGOR2	SUVSn BUNITY FIREWALL	CT WLAN MGMT S WANI Phono1 SM WAN2 Phono2	Restart Phone ISDN S0 WAN LAN
LED		Status	Explanation
ACT (Activity)		Blinking	The router is powered on and running normally.
		Off	The router is powered off.
DoS		On	The DoS/DDoS function is active.
		Blinking	It will blink while deleting an attack.
CSM		On	The profile of CSM (Content Security Management) for IM/P2P application is active. (It is enabled from Objects Setting >> CSM Profile).
WLAN		On	Wireless access point is ready.
		Blinking	It will blink while wireless traffic goes through.
WAN1/2		On	The WAN1 or WAN2 connection is ready.
		Blinking	It will blink while transmitting data.
MGMT		On	The router is managed (handled) by Telnet.
		Blinking	It will blink while being managed by IE browser.
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 Conn	ector		
ISDN S0 1	Left LED	On	ISDN NT (ISDN S0 intern) mode is active and an ISDN phone adapter is connected.
	(Orange)	Blinking	ISDN NT (ISDN S0 intern) mode is active and an ISDN phone adapter is not connected.
	Right LED (Green)	On	A phone has been connected. If not, green LED will be off.
		Blinking	An ISDN phone is off-hook or a phone call comes.
ISDN S0 2	Left LED (Orange)	On	ISDN NT (ISDN S0 intern) mode is active configured from VoIP>>Phone Settings and an ISDN phone adapter is connected.
	(Orange)	Blinking	ISDN NT (ISDN S0 intern) mode configured from VoIP>>Phone Settings is active and an ISDN
		Off	phone adapter is not connected. It means ISDN TE mode is active which is configured from VoIP>>Phone Settings.
	Right LED (Green)	On	A phone adapter with phone set has been connected (ISDN S0 intern mode) or ISDN line has been connected (ISDN S0 extern mode). It will be off if there is nothing connected.
		Blinking	In ISDN NT (ISDN S0 intern) mode, it means an ISDN phone is off-hook or a phone call comes. In ISDN TE mode, it means data, fax or voice (phone call) is transmitting.
	Left LED	On	The port is connected.
WAN 1/2	(Green)	Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED	On	The port is connected with 100Mbps.
	(Green)	Off	The port is disconnected with 10Mbps.
	Left LED	On	The port is connected.
LAN 1/2/3/4	(Green)	Off	The port is disconnected.

	Blinking	The data is transmitting.
Right LED	On	The port is connected with 100Mbps.
(Green)	Off	The port is disconnected with 10Mbps.

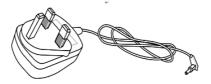
-	ſ	·			-
t	÷		2	1000	ON
laset					AN AN
estart	A second di		and the second second	and the owner water w	O OFF

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.
Restart	Restart the router forcefully.
Phone (1/2)	Connecters for PSTN phones.
ISDN S0 1	Connecter for ISDN phone(s) only via ISDN phone adapter. Do not connect any other device to such port or connect ISDN line, otherwise the router might be damaged.
ISDN S0 2	Connecter for ISDN line or ISDN phone adapter in particular condition. Refer to section 2.2 for more details.
WAN (1/2)	Connecters for remote networked devices.
LAN (1-4)	Connecters for local networked devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

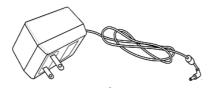
1.2 Package Content



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



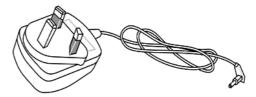
UK-type Power Adapter



USA/Taiwan-type Power Adapter



EU-type Power Adapter



AU/NZ-type Power Adapter

* The maximum power consumption is 17-23 Watt.

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2. Installing Your Router

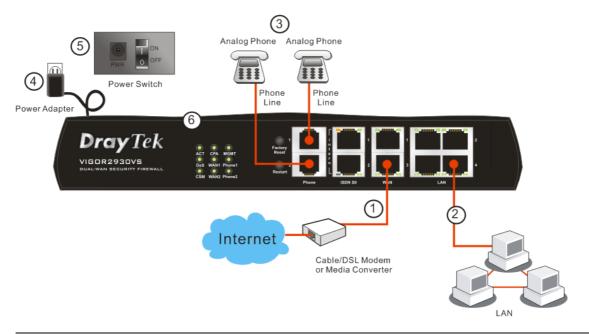
This section will guide you to install the router through hardware connection and configure the router's settings through web browser.

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). The **WAN1/WAN2** LED (Left or Right) will light up according to the speed (100 or 10) of the device that it connected.
- 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. The LAN LED (Left or Right) will light up according to the speed (100 or 10) of the device that it connected.
- 3. Connect the telephone sets 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 detailed information of LED status, please refer to section 1.1.)

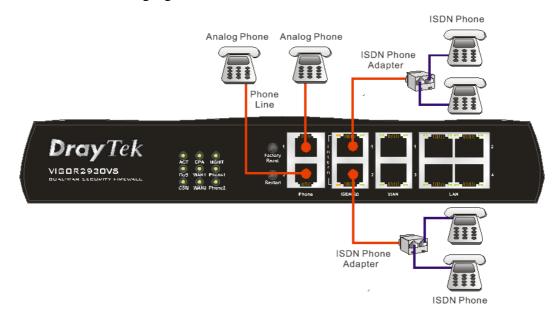


Caution: Each of the Phone ports can be connected to an analog phone only. Do not connect the phone ports to the telephone wall jack. Such connection might damage your router.

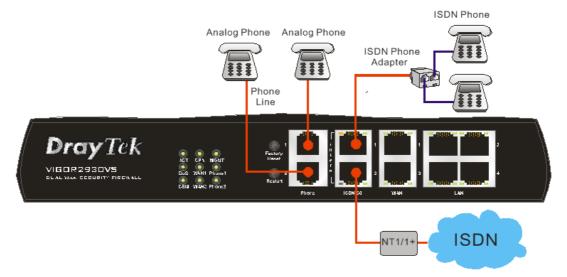
2.2 ISDN Phone Adapter Installation

Such information is provided for Vigor2930 S models (e.g., Vigor2930VS).

ISDN S0 1 is always fixed to connect ISDN phone. However, ISDN S0 2 is configurable as NT (ISDN S0 intern) or TE (ISDN S0 extern) mode. When the user configures ISDN S0 2 as NT mode in **VoIP>> Phone Settings**, the **orange** LED will light on to indicate **ISDN2-S0** is selected. And by using ISDN phone adapters (coming from the router package), the user can connect several phones to Vigor2930VS for communication. Refer to the following figure for reference.



Yet, if the user configures ISDN S0 2 as TE Mode in **VoIP>> Phone Settings**, the **green** LED will light on to indicate **ISDN2-TE** is selected. Then, the port is specified for ISDN line only. Refer to the following figure for reference.



3. Configuring Web Pages

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

3.1 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.

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.** A pop-up window will open to ask for username and password. Do not type any word on the window and click **OK** for next screen.

Connect to 19	2.168.1.1
ال کی ال	er Web Configurator
User name: Password:	
Eastword.	Remember my password
	OK Cancel

0

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. Click Quick Start Wizard.

Ouick Start Wizard	System Status	
WAN	Model Name : Vigor2930 series Firmware Version : v3.0.1_RC2 Build Date/Time : Thu May 10 16:21:26.55 200	1
NAT	LAN	WAN 1
Objects Satting Bandwidth Management Applications VPN and Remote Access Certificate Management	MAC Address :00-50-7F-22-33-44 1st IP Address :192.168.1.1 1st Subnet Mask :255.255.255.0 DHCP Server : Yes DNS :194.109.6.66	Link Status : Connected MAC Address : 00-50-7F-22-23-45 Connection : Static IP IP Address : 172.16.3;47 Default Gateway : 172.16.3;4
VolP	ValP	WAN 2
All Rights Reserved.	Port Profile Reg. In/Out Phone1 No 0/0 Phone2 No 0/0 ISON1-S0 No 0/0 ISON2-TE No 0/0	Link Status : Disconnected MAC Address : 00-50-7F-22-33-46 Connection : IP Address : Default Cateway :
An rounts negatived.		Wireless LAN
		MAC Address : 00-16-e6-d4-d7-53 Frequency Domain : Europe Firmware Version : v2.01.10.10.5.4

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

4. Enter the login password on the field of **New Password** and retype it on the field of **Retype New Password**. Then click **Next** to continue.

login password	
Please enter an alpha-nume	ic string as your Password (Max 23 characters).
New Password	••••
Confirm Password	••••

5. On the next page as shown below, please select the WAN interface that you use. Choose **Auto negotiation** as the physical type for your router. Then click **Next** for next step.

elect WAN Interface			
Select WAN Interface: Display Name: Physical Mode: Physical Type:	WAN1 Ethernet Auto negotiation Auto negotiation IOM haif duplex IOM full duplex IOOM full duplex IOOM full duplex		
	< Back Next > Finish Canc		

6. 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.

ct to Internet	
WAN 1	
	ess type provided by your ISP. If you are not e contact your ISP to get these information
PPPoE	
🔘 РРТР	
🔘 Static IP	
O DHCP	

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

DE Client Mode		
WAN 1		
Enter the user name and pa	ssword provided by your ISP.	
User Name	84005755@hinet.net	
Password	•••••	
Retype Password	•••••	

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

Client Mode	
WAN 1	
Enter the user name, pas: your ISP.	word, WAN IP configurations and PPTP server IP provided by
User Name	
Password	
Retype Password	
WAN IP Configurations	
🔘 Obtain an IP address	automatically
💿 Specify an IP addres	5
IP Address	172.16.3.229
Subnet Mask	255.255.255.0
PPTP Server IP	

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.

tic IP Client Mode			
WAN 1			
Enter the Static IP confi	guration probided by your ISP.		
WAN IP	172.16.3.229		
Subnet Mask	255.255.255.0		
Gateway	172.16.3.1		
Primary DNS	168.95.1.1		
Secondary DNS		(optional)	

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

uick Start Wizard	
HCP Client Mode	
WAN 1	
If your ISP requ enter it in.	ire you to enter a specific host name or specific MAC address, please
Host Name	(optional)
MAC	00 -50 -7F -00 -00 -01 (optional)
	< Back Next > Finish Cancel

7. 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.

confirm your settings:	
WAN Interface:	WAN1
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	DHCP
settings and restart the V	nges if necessary. Otherwise, click Finish to save the current Vigor router.

3.2 Wireless Configuration

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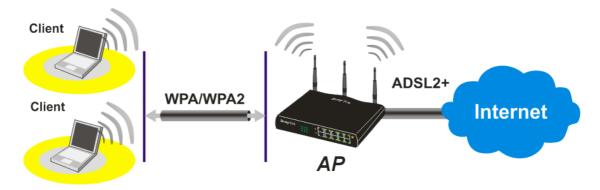
For the user of Vigor2930/2910VS, please skip this section.

For operating Vigor2930n/Vn/VSn 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.)

3.2.1 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.



3.2.2 General Setup

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

pable Wireless I AN	
Mode:	Mixed(11b+11g+11n) 🔽
Index(1-15) in <u>Schedule</u> Setup:	
SSID:	default
Channel Width:	Auto 20/40 MHz 💌
Channel:	6, Ext 2 💌
🗌 Hide SSID	
📃 Long Preamble	
Hide SSID: prevent SSID from beir	ng scanned. ne older 802.11b devices only (lowers performance).

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 Mix (11b+11g+11n) mode.
- 4. Type in the name of the **SSID**. The default name for SSID is **default**. We suggest you change it to a particular name for your necessity.

SSID (service set identifier)	It is used to name the wireless LAN for this router, and it must have the same content in client PC/notebook wireless card(s). SSID can be any text numbers or various special characters.
Channel Width/Channel	It is a wireless channel for the router. The default channel width is Auto and Channel is 6. You can change it to an appropriate one if the selected channel is under serious interference.

3.2.3 Security Settings

Wireless LAN >> Security Settings

1. On the Wireless LAN group, select Security Settings.

Mode :	Disable 💌
Note: 11n only sup Set up <u>RADIUS Se</u>	port WPA/PSK. <u>ever</u> if 802.1× is enabled.
WPA:	
Туре:	Mixed(WPA+WPA2)
Pre-Shared Key(PSK)	+++++
Type 8~63 ASCII "cfgs01a2" or "0	character or 64 Hexadecimal digits leading by "Ox", for example x655abcd".
WEP:	
Encryption Mode:	64-Bit 🗸
Use	WEP Key
⊙Key 1 :	******
○Key 2 :	****
○Key 3 :	****
○Key 4 :	*****
"Óx4142333132". For 128 bit WEP key Type 13 ASCII characte	or 10 Hexadecimal digits leading by "0x", for example "AB312" or r or 26 Hexadecimal digits leading by "0x", for example 30313233343536373839414243".

2. Select an appropriate encryption mode to improve the security and privacy of your wireless data packets.

Mode :

Disable	*
Disable	
WEP Only	
WEP/802.1x Only	
WPA/PSK Only	
WPA/802.1x Only	

Disable

Turn off the encryption mechanism. For the security of your

	router, please select any one of the encryption mode here.
WEP Only	Accepts only WEP clients and the encryption key should be entered in WEP Key.
WEP/802.1x Only	Accepts only WEP clients and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol.
WPA/PSK Only	Accepts only WPA clients and the encryption key should be entered in PSK.
WPA/802.1x Only	Accepts only WPA clients, and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol.

Note: You should also set **RADIUS Server** simultaneously if **WEP/802.1x Only** or **WPA/802.1x Only** mode is selected.

- 3. For **WPA** encryption, type in 8~63 ASCII characters or 64 Hexadecimal digits leading by 0x, for example "0123456789ABCD...." or "0x321253abcde....." on the field of **Pre-Shared Key (PSK)**. WPA encrypts each frame transmitted from the radio using the Pre-Shared Key (PSK) which entered from this panel.
- 4. As to **WEP** encryption, select 64-bit or 128-bit as the encryption mode. For 64bits WEP key, type in 5 ASCII characters or 10 hexadecimal digitals leading by 0x, for example, ABCDE or 0x4142434445. And for 128bits WEP key, type in 13 ASCII characters or 26 hexadecimal digits leading by 0x, for example, ABCDEFGHIJKLM or 0x4142434445464748494A4B4C4D. Only one WEP key can be selected and allows user to type in the characters.
- 5. 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. This page is left blank.

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

Í

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

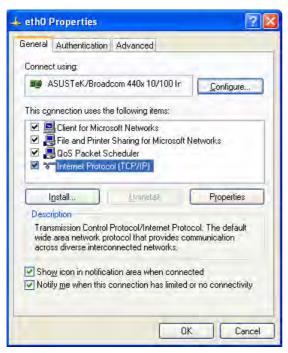
1. Go to **Control Panel** and then double-click on **Network Connections.**



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**.

ieneral Alte	nate Configuration	
this capability	P settings assigned automatically . Otherwise, you need to ask you te IP settings.	
<u>⊙ </u> 0btain	an IP address automatically	
O Use the	following IP address:	
[P addres		
S <u>ü</u> bnel m	isk	
<u>D</u> etault ga	reway.	
⊙ O <u>b</u> tain	DNS server address automatically	
O Use the	following DNS server addresses:	
Ereferred	INS server	
<u>A</u> lternate I	INS server	
		Advanced
		OK Cano

For MacOs

- 1. Double click on the current used MacOs on the desktop.
- 2. Open the **Application** folder and get into **Network**.
- 3. On the **Network** screen, select **Using DHCP** from the drop down list of Configure IPv4.

● 🖯	Network	
Show All Displays Sou	Network Startup Disk	
L	ocation: Automatic	•
ТСР	Show: Built-in Ethernet	hernet
Configure IPv4:		
IP Address:	192.168.1.10	Renew DHCP Lease
Subnet Mask: Router:		(If required)
DNS Servers:		(Optional)
Search Domains:		(Optional)
IPv6 Address:	fe80:0000:0000:0000:020a:95ff:fe8d:72e	24
	Configure IPv6	(?)
Click the lock to p	prevent further changes. Assist m	e Apply Now

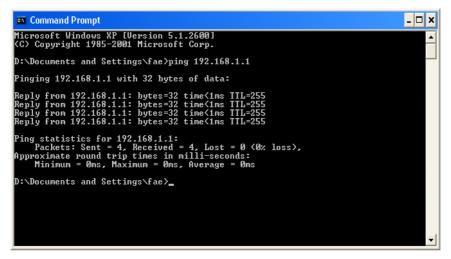
4.3 Pinging the Router from Your Computer

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). The DOS command dialog will appear.



- 3. Type **ping 192.168.1.1** and press [Enter]. It 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 MacOs (Terminal)

- 1. Double click on the current used MacOs 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]. It the link is OK, the line of **"64 bytes from 192.168.1.1: icmp_seq=0 ttl=255 time=xxxx ms**" will appear.

000	Terminal - bash - 80x24	
	3 02:24:18 on ttyp1	2
Welcome to Darwin!		
Vigor10:~ draytek\$		
PING 192.168.1.1 (1	92.168.1.1): 56 data bytes	
64 bytes from 192.1	68.1.1: icmp_seq=0 ttl=255 time=0.755 ms	
64 bytes from 192.1	68.1.1: icmp_seq=1 ttl=255 time=0.697 ms	
64 bytes from 192.1	68.1.1: icmp_seq=2 ttl=255 time=0.716 ms	
	68.1.1: icmp_seq=3 ttl=255 time=0.731 ms	
	68.1.1: icmp_seq=4 ttl=255 time=0.72 ms	
AC .		
192.168.1.1 pin	g statistics	
5 packets transmitt	ed, 5 packets received, 0% packet loss	
round_trip min/ava/	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 to review the settings that you configured previously.

ical Mode Acce	ess Mode
hernet Static or Dyna	amic IP 🔽 🛛 Details Page
hernet None PPPoE	Details Page
Static or Dyna PPTP	amic IP
	hernet Static or Dyna hernet PPPoE Static or Dyna

For PPPoE Users

WAN >> Internet Access

- 1. Check if the **Enable** option is selected.
- 2. Check if **Username** and **Password** are entered with correct values that you **got from** your **ISP**.

WAN 1 **PPPoE** Client Mode PPP/MP Setup 💿 Enable 🛛 Disable PPP Authentication PAP or CHAP 🗸 Idle Timeout second(s) **ISP Access Setup** IP Address Assignment Method Username 84005755@hinet.net (IPCP) WAN IP Alias Password Fixed IP: 🔘 Yes 💿 No (Dynamic IP) Index(1-15) in Schedule Setup: Fixed IP Address => Oefault MAC Address O Specify a MAC Address MAC Address: 00 .50 .7F 22 .33 .45 ΟK Cancel

For Static Users

1. Check if the **Enable** option for Broadband Access is selected.

WAN >> Internet Access

Static or Dynamic IP (DHCP Client)	WAN IP Network Settings
💿 Enable i 🔘 Disable	Obtain an IP address automatically
ISDN Dial Backup Setup Dial Backup Mode None 💌	Router Name * Domain Name * * : Required for some ISPs • Specify an IP address WAN IP Alias
Keep WAN Connection Enable PING to keep alive PING to the IP PING Interval D minute(s)	IP Address 172.16.3.229 Subnet Mask 255.255.255.0 Gateway IP Address 172.16.3.1
RIP Protocol Enable RIP	 Default MAC Address Specify a MAC Address MAC Address: .60 .7F :00 .00 .01
	DNS Server IP Address Primary IP Address Secondary IP Address

- 2. Check if **WAN IP Network Settings** is set appropriately.
- 3. Check if **IP** Address, Subnet Mask and Gateway are set correctly (must identify with the values from your ISP) if you choose Specify an IP address.

For PPTP Users

1. Check if the **Enable** option for **PPTP** Link is selected.

WAN >> Internet Access

WAN 1	
PPTP Client Mode	PPP Setup
⊙ Enable ○ Disable	PPP Authentication PAP or CHAP 💌
PPTP Server 10.0.0.138	Idle Timeout 180 second(s)
ISP Access Setup	IP Address Assignment Method (IPCP) WAN IP Alias
Password	Fixed IP: O Yes O No (Dynamic IP) Fixed IP Address
Index(1-15) in <u>Schedule</u> Setup:	WAN IP Network Settings
=>,,,,	O Obtain an IP address automatically
	 Specify an IP address
	IP Address 10.0.0.150
	Subnet Mask 255.0.0.0
ОК	Cancel

2. Check if **PPTP Server, Username, Password** and **WAN IP address** are set correctly (must identify with the values from your ISP).

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 System Reboot System Do You want to reboot your router ? Image: Output out	
Reboot System	
	Do You want to reboot your router ?
	Osing current configuration
	 Using factory default configuration
1	ОК

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.