

Vigor2860 Series VDSL2 Security Firewall



Quick Start Guide

V3.0



Vigor2860 Series VDSL2 Security Firewall Quick Start Guide

Version: 3.0 Firmware Version: V3.7.8 (For future update, please visit DrayTek web site) Date: January 07, 2015



Copyright Information

Copyright Informa	ition	
Copyright Declarations	© 2015 All rights reserved. This publication contains information that is protected by copyright. No part may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language without written permission from the copyright holders.	
Trademarks	 The following trademarks are used in this document: Microsoft is a registered trademark of Microsoft Corp. Windows, Windows 95, 98, Me, NT, 2000, XP, 7 and Explorer are trademarks of Microsoft Corp. Apple and Mac OS are registered trademarks of Apple Computer Inc. Other products may be trademarks or registered trademarks of their respective manufacturers. 	
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 Township, Hsinchu Industrial Park, Hsinchu County,
	Taiwan 303
Product:	Vigor2860 Series Router

DrayTek Corp. declares that Vigor2860 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/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 POT, DSL and 2.4GHz /5GHz WLAN network throughout the EC region.

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.

DrayTek Vigor2860 series VDSL2/ADSL2+ routers are compliant with 47 C.F.R. Part 68.



More update, please visit www.draytek.com.



Table of Contents

1. Introduction	1
1.1 Panel Explanation	2
1.1.1 For Vigor2860	
1.1.2 For Vigor2860n	
1.1.3 For Vigor2860n-plus	
1.1.4 For Vigor2860Vn-plus 1.1.5 For Vigor2860ac	
1.1.6 For Vigor2860Vac	
1.2 Package Content	16
2. Installing Your Router	17
2.1 Hardware Installation	17
2.2 Printer Installation	. 18
3. Quick Setup	27
3.1 Accessing Web User Interface	27
3.2 Basic Configuration – Quick Start Wizard	28
3.2.1 For WAN1 (ADSL/VDSL2)	
3.2.2 For WAN2 (Ethernet) 3.2.3 For WAN3/WAN4 (USB)	
3.3 Wireless Configuration	44
3.3.1 Basic Wireless LAN Concept	44
3.3.2 General Setup	45
3.3.3 Security Settings	46
3.4 Registering Vigor Router	47
4. Trouble Shooting	51
4.1 Checking If the Hardware Status Is OK or Not	51
4.2 Checking If the Network Connection Settings on Your Computer Is C or Not	
4.3 Pinging the Router from Your Computer	55
4.4 Checking If the ISP Settings are OK or Not	56
4.5 Backing to Factory Default Setting If Necessary	57

4.6 Contacting DrayTek 59



1. Introduction

Vigor2860 series is a VDSL2 router with multi-subnet for secure and efficient workgroup management. It integrates IP layer QoS, NAT session/bandwidth management to help users control works well with large bandwidth.

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

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

Vigor2860 series supports USB interface for connecting USB printer to share printing function, 3G/4G USB modem for network connection, or connectivity for network FTP service.



1.1 Panel Explanation

1.1.1 For Vigor2860

	Dray Tek	Vigor2860 VDSL2 Security Firewall
ACT WANZ QOS 1 Factory Reset USB2 VPN DoS 2	USB VDSL/ADSL WANZ	C(Gips) GipsLAN+1 2 3 4 5 6
LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
USB1~2	On	USB device is connected and ready for use.
	Blinking	The data is transmitting.
WAN2	On	Internet connection is ready.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
DSL	On	The router is ready to access Internet through DSL link.
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
VPN	On	The VPN tunnel is active.
VIIN	Off	VPN services are disabled
	Blinking	Traffic is passing through VPN tunnel.
QoS	On	The QoS function is active.
	On	
WCF	Ull	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).
DoS	On	The DoS/DDoS function is active.
	Blinking	It will blink while detecting an attack.

LED on Connector

	Left	On	The port is connected.
WAN2	LED	Off	The port is disconnected.
(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
GigaLAN 1~6	Left	On	The port is connected.
	LED	Off	The port is disconnected.
1~0		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps





PWR 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.	
USB	Connecter for a USB device (for 3G/4G USB Modem or printer).	
VDSL/ADSL	Connecter for accessing the Internet.	
WAN2	Connecter for local network devices or modem for accessing Internet.	
GigaLAN 1-6	Connecters for local network devices.	
PWR	Connecter for a power adapter.	
ON/OFF	Power Switch.	

1.1.2 For Vigor2860n

		Dray Tek	Vigor2860n VDSL2 Security Firewall
Wireless LA ON/OFF/WPS	B DSL WCF		
Factory Reset WL	AN VPN Dos	USB VDSL/ADSL WAN	Introd Intro Intro Intro
LED		Status	Explanation
ACT (Ac	ctivity)	Blinking	The router is powered on and running
	•	0	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
WAN2		On	minutes.)
WAIN2		Off	Internet connection is ready.
			Internet connection is not ready.
DSL		Blinking	The data is transmitting.
DSL		On	The router is ready to access Internet through DSL link.
		Blinking	Slowly: The DSL connection is ready.
			Quickly: The connection is training.
VPN		On	The VPN tunnel is active.
		Off	VPN services are disabled
		Blinking	Traffic is passing through VPN tunnel.
QoS		On	The QoS function is active.
WCF		On	The Web Content Filter is active. (It is
			enabled from Firewall >> General Setup).
DoS		On	The DoS/DDoS function is active.
		Blinking	It will blink while detecting an attack.
LED on Connector			
	Left	On	The port is connected.
WAN2	LED	Off	The port is disconnected.
(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.



	LED	Off	The port is connected with 10/100Mbps
C' LAN	Left	On	The port is connected.
GigaLAN 1~6	LED	Off	The port is disconnected.
1~0		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 the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on. Press the button and release it within 2 seconds to turn off the WLAN function. When the wireless function is not ready, the LED will be off. When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.
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	Connecter for a USB device (for 3G/4G USB Modem or printer).
VDSL/ADSL	Connecter for accessing the Internet.
WAN2 (Giga)	Connecter for local network devices or modem for accessing Internet.
GigaLAN 1-6	Connecters for local network devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.



1.1.3 For Vigor2860n-plus

	DrayTek	Vigor2860n-plus VDSL2 Security Firewall
Wireless LA ON/OFFWP		
Factory Reset 2.4G 5G DoS	USB VDSL/ADSL WAN:	(Giga) GigaLAN+1 2 3 4 5 6
LED	Status	Explanation
ACT (Activity)	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.
2.4G/5G	On	Wireless access point with bandwidth of 2.4GHz/5GHz 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.)
WAN2	On	Internet connection is ready.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
DSL	On	The router is ready to access Internet
	D1' 1 '	through DSL link.
	Blinking	Slowly: The DSL connection is ready.
0-6	0	Quickly: The connection is training.
QoS	On	The QoS function is active.
WCF	On	The Web Content Filter is active. (It is
		enabled from Firewall >> General Setup).
DoS	On	The DoS/DDoS function is active.
DOD	Blinking	It will blink while detecting an attack.
LED on Connect	Ŭ	to white online white detecting all attack.
Left	On	The port is connected.
WAN2 LED	Off	The port is disconnected.
(Giga)	Blinking	The data is transmitting.
Right	On	The port is connected with 1000Mbps.
LED	Off	The port is connected with 10/100Mbps



	Left	On	The port is connected.
GigaLAN 1~6	LED	Off	The port is disconnected.
1~0		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 the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on. Press the button and release it within 2 seconds to
	turn off the WLAN function. When the wireless function is not ready, the LED will be off.
	When WPS function is enabled by web user
	interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.
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	Connecter for a USB device (for 3G/4G USB Modem or printer).
VDSL2/ADSL	Connecter for accessing the Internet.
WAN2 (Giga)	Connecter for local network devices or modem for accessing Internet.
GigaLAN 1-6	Connecters for local network devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

1.1.4 For Vigor2860Vn-plus

Wireless LAN ON/OFF/WPS	WAN2 Line	DrayTek	Vigor2860Vn-plus VDSL2 Security Firewall
Factory Reset 2.4G	DSL Phone1 5G Phone2	USB VDSL2/ADSL WAN	2(Giga) GigaLAN+1 2 3 4 5 6 Phone1/2 Line
LED		Status	Explanation
ACT (Act	tivity)	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.
2.4G/5G		On	Wireless access point with bandwidth of 2.4GHz/5GHz 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.)
WAN2		On	Internet connection is ready.
		Off	Internet connection is not ready.
		Blinking	The data is transmitting.
DSL		On	The router is ready to access Internet through DSL link.
		Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
Line		On	A PSTN phone call comes (in and out). However, when the phone call is disconnected, the LED will be off.
		Off	There is no PSTN phone call.
Phone (1-	2)	On	The phone connected to this port is off-hook.
		Off	The phone connected to this port is on-hook.
		Blinking	A phone call comes.
LED on (Connect	tor	
	Left	On	The port is connected.
WAN2	LED	Off	The port is disconnected.



(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
	Left	On	The port is connected.
GigaLAN L	LED	Off	The port is disconnected.
1~0		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps

Vireless LAN	ACT	WAN2 Line		- market		P				-			
Factory Reset	JSB 2.4G	DSL Phone1	2			mark	mm		mm	him	1000	am	
Reset	2.4G	5G Phone2	USB	VDSL2/ADSL	WAN2(Giga)	GigaLAN ► 1	2	3	4	5	6	Phone1/2	Line

Interface	Description			
Wireless LAN	Press the button and release it within 2 seconds.			
ON/OFF/WPS	When the wireless function is ready, the green LED will be on.			
	Press the button and release it within 2 seconds to			
	turn off the WLAN function. When the wireless			
	function is not ready, the LED will be off.			
	When WPS function is enabled by web user			
	interface, press this button for more than 2 seconds to			
	wait for client's device making network connection			
	through WPS.			
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	Connecter for a USB device (for 3G/4G USB			
	Modem or printer).			
VDSL2/ADSL	Connecter for accessing the Internet.			
WAN2 (Giga)	Connecter for local network devices or modem for			
	accessing Internet.			
GigaLAN 1-6	Connecters for local network devices.			
Phone 1/2	Connecter for analog phone(s).			
Line	Connector for PSTN life line.			
PWR	Connecter for a power adapter.			

0 OFF

PWR

1.1.5 For Vigor2860ac

Wireles LAN ONOFFMPS		DrayTek	Vigor2860ac VDSL2 Security Firewall				
Factory Reset	WAN2 QoS DSL WCF SG DoS	USB VDSLADSL WANZ	Comment Comment <t< td=""></t<>				
LED		Status	Explanation				
ACT (Ac	tivity)	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.				
2.4G/5G		On	Wireless access point with bandwidth of 2.4GHz/5GHz 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.)				
WAN2		On	Internet connection is ready.				
		Off	Internet connection is not ready.				
		Blinking	The data is transmitting.				
DSL		On	The router is ready to access Internet through DSL link.				
		Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.				
QoS		On	The QoS function is active.				
WCF		On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).				
DoS		On	The DoS/DDoS function is active.				
		Blinking	It will blink while detecting an attack.				
LED on	Connect	tor					
	Left	On	The port is connected.				
WAN2	LED	Off	The port is disconnected.				
(Giga)		Blinking	The data is transmitting.				
		-					



Right

LED

On Off The port is connected with 1000Mbps.

The port is connected with 10/100Mbps

	Left	On	The port is connected.
GigaLAN 1~6	LED	Off	The port is disconnected.
1~0		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 the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on. Press the button and release it within 2 seconds to turn off the WLAN function. When the wireless function is not ready, the LED will be off. When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.
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	Connecter for a USB device (for 3G/4G USB Modem or printer).
VDSL/ADSL	Connecter for accessing the Internet.
WAN2 (Giga)	Connecter for local network devices or modem for accessing Internet.
GigaLAN 1-6	Connecters for local network devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.



1.1.6 For Vigor2860Vac

0				Phe	2)Y/L(SLA VD	gor2860 SL2 Security Fire	wall					
Wireless LAP	0	0	ine			-	1		-	6 - 15 ⁻	• •	3005	
Factory Reset	USB	DSL P	hone1										

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.
2.4G/5G	On	Wireless access point with bandwidth of 2.4GHz/5GHz 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.)
WAN2	On	Internet connection is ready.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
DSL	On	The router is ready to access Internet through DSL link.
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
Line	On	A PSTN phone call comes (in and out). However, when the phone call is disconnected, the LED will be off.
	Off	There is no PSTN phone call.
Phone (1-2)	On	The phone connected to this port is off-hook.
	Off	The phone connected to this port is on-hook.
	Blinking	A phone call comes.

	Left	On	The port is connected.
WAN2	AN2 LED Off The port is disconnected.	The port is disconnected.	



(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
<u> </u>	Left	On	The port is connected.
GigaLAN LE	LED	Off	The port is disconnected.
1~0		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps





PWR ON OFF

Interface	Description
Wireless LAN ON/OFF/WPS	 Press the button and release it within 2 seconds. When the wireless function is ready, the green LED will be on. Press the button and release it within 2 seconds to turn off the WLAN function. When the wireless function is not ready, the LED will be off. When WPS function is enabled by web user interface, press this button for more than 2 seconds to wait for client's device making network connection through WPS.
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	Connecter for a USB device (for 3G/4G USB Modem or printer).
VDSL/ADSL	Connecter for accessing the Internet.
WAN2 (Giga)	Connecter for local network devices or modem for accessing Internet.
GigaLAN 1-6	Connecters for local network devices.
Phone 1/2	Connecter for analog phone(s).
Line	Connector for PSTN life line.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

1.2 Package Content



* 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 DSL interface to the land line jack with a DSL line cable.
- 2. Connect the cable Modem/DSL Modem/Media Converter to the WAN port of router with Ethernet cable (RJ-45).
- 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.

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





2.2 Printer Installation

You can install a printer onto the router for sharing printing. All the PCs connected this router can print documents via the router. The example provided here is made based on Windows 7. For other Windows system, 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 All Programs>>Getting Started>>Devices and Printers.

🗁 Smart VPN Client	
Getting Started	Computer
	Control Panel
Privatefirewall 7.0	Devices and Printers
Connect to a Projector	Default Programs
Calculator	Help and Support
	Windows Security
 All Programs 	Log off





3. Click Add a printer.



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

🦟 A	dd Printer	×
0	🖶 Add Printer	
	What type of printer do you want to install?	
	Add a local printer Use this option only if you don't have a USB printer. (Windows automatically installs USB printers when you plug them in.)	
	Add a network, wireless or Bluetooth printer Make sure that your computer is connected to the network, or that your Bluetooth or wireless printer is turned on.	
2	NextCance	

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**.

Add Printer	
🕽 🖶 Add Printer	
Choose a printer port	
A printer port is a type of con	nection that allows your computer to exchange information with a printer.
C Use an existing port:	LPT1: (Printer Port)
 Create a new port: 	
Type of port:	Standard TCP/IP Port
	Next Cancel



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**.

📣 A	dd Printer		×
G	🖶 Add Printer		
	Type a printer hostname or IF	address	
	Device type:	TCP/IP Device	*
	Hostname or IP address:	192.168.1.1	
	Port name:	192.168.1.1	
	Query the printer and auto	omatically select the driver to use	
		Next Ca	ncel

7. Click Standard and choose Generic Network Card.

🦟 A	dd Printer	×
0	Add Printer	
	Additional port information required	
	The device is not found on the network. Be sure that:	
	 The device is turned on. The network is connected. The device is properly configured. 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 Generic Network Card	
	C Custom Settings	
	Next Cance	

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**.

Install the	e printer driver				
57	Choose your printer	from the	e list. Click Win	dows Update to see more m	odels.
SI.	To install the driver f	rom an	installation CD	click Have Dick	
	To install the unvert	rom an	installation CD,	CIICK HAVE DISK.	
Manufa	aturar.		Printers		▲
Brother			🔄 Brother D	CP-116C	
Canon			Brother D	UP-II/C	
DrayTel	¢		🔄 Brother D	CP-128C	
Epson		_	🔄 Brother D	CP-129C	
Fuii Xer	ox	-	🗔 Brother D	CP-130C	•
📷 Thi:	s driver is digitally sigr	ned.		Windows Update	Have Disk
	. and a might any right				

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

×
]
cel

10. Choose **Do not share this printe**r and click **Next**.

🖶 Add Printer				
Printer Sharing				
	nis printer, you must pr hare name will be visibl			sted name or
Do not share this p	orinter			
C Share this printer s	o that others on your n	etwork can find and	use it	
Share name:				
Location:				
Comment:				

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

÷ 1	Add Printer
0	add Printer 🚽
	You've successfully added Brother DCP-116C
	Set as the default printer
	To check if your printer is working properly, or to see troubleshooting information for the printer, print a test page.
	Print a test page
	Finish Cancel

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**.

Ports on this	1	1	
Port TS002 TS001 TPVM: 172.16.2.2	Description Inactive TS Port Inactive TS Port ThinPrint Print Port fo Standard TCP/IP Port	Printer	
LPR_local		Adm_Printer 6E_Printer Brother DCP-1	116C
XPSPort:	Local Port	Microsoft XPS	Document Writer 👻
Add P	'ort Dele	te Port	Configure Port

Dray Tek

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.

Forms	: Ports Drivers Security Adva _	anced		
C	Configure Standard TCP/IP Port N	1onitor		
-	Port Settings			
F	Port Name:	192.168.1.1		
ŕ	Printer Name or IP Address:	192.168.1.1		
	Protocol C Raw		☞ LPR	
	Raw Settings Port Number:	100		
	LPR Settings Queue Name: p	1		
	LPR Byte Counting Enabl	led		
	SNMP Status Enabled			
	Community Name: p	ublic		
-	SNMP Device Index: 1			_

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.

FAQ / Application	You are here: Home + Supports + FAQ / Application Notes + Printer Server	ຄ
Basic	Printer Server	
Firmware Upgrade	What types of printers are compatible with Vigor router?	2012/01/12
IPv6	How do I configure LPR printing on Windows7?	2012/08/20
Triple-Play	How do I configure LPR printing on My Windows Vista ?	2009/01/20
Dual WAN	How do Loonfigure LPR printing on Linux hoves 2	

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

This page is left blank.

Vigor2860 Series Quick Start Guide



3. Quick Setup

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

3.1 Accessing Web User Interface

- 1. Make sure your PC connects to the router correctly.
 - Notice: You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as **the default IP address of** Vigor router 192.168.1.1. For the detailed information, please refer to the later section Trouble Shooting of the guide.
- 2. Open a web browser on your PC and type http://192.168.1.1. The following window will be open to ask for username and password. Please type "admin/admin" on Username/Password and click Login.

Dray Tek	Vigor2860 Series
Login	
Username	admin
Password	•••••
	Login
Copyright©, DrayTek Corp. All Rig	hts Reserved.

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 **Wizards>>Quick Start Wizard** via Web User Interface.

Dray Tek	Vigor 2860 Series	
Auto Logout 💌 🛛 🥵	Dashboard	
Dashboard Wizards Online Status WAN LAN LOAd-Balance/Route Policy NAT	WIND LAN ONOTINES USB DSL Phone1 Factory 24G 5G Phone2	2860Vac rity Firewall LANY 1 2 3 4 5 6 Phone
Firewall User Management Objects Setting CSM Bandwidth Management Applications	System Information Model Name Vigor2860Vac System Up Time Router Name Current Time Current Time Firmware Version 3.7.8 Build Date/Time DSL Version 548006_A/B/C HW: A LAN MAC Address	Quick Access 4:29:49 System Status 2000 Jan 1 Sat 4:29:34 Dmamic DNS Dec 23 2014 18:34:33 TR.069 ss 00-1D-AA-C6-4C-50 User Management
VPN and Remote Access Certificate Management Central VPN Management	IPv4 Internet Access Line / Mode IP Address MAC Addre	IM.P2P Block Schedule SysLog / Mail Alert
Central AP Management VolP Wireless LAN (2.4 GHz) Wireless LAN (5 GHz)	WAN2 Ethernet / Disconnected 00-1D-AA WAN3 USB / Disconnected 00-1D-AA	-C6-4C-51 00:00:00 LDAP -C6-4C-52 00:00:00 RADIUS -C6-4C-53 00:00:00 Firewall Object Settir
USB Application System Maintenance Diagnostics	WAN4 USB / Disconnected 00-1D-AA Interface DSL Connected : Down Stream : 0Kbps / Up Stream : 0 Stream : 0	-C6-4C-54 00:00:00 Data Flow Monitor
External Devices Support Area	WAN Connected :0, WAN1 WAN2 WAN3 @	WAN4 LAN4 QLAN5 QLAN6
Admin mode Status: Settings Saved	USB Connected :0, USB 1 USB 0, USB 2	

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

Quick Start Wizard

Enter login password			
Please enter an alpha-numeric strin	ng as your Password (Max	23 characters).	
Old Password	•••••]	
New Password]	
Confirm Password]	
	< Back	Vext > Finish	Cancel

On the next page as shown below, please select the WAN interface that you use. If DSL interface is used, please choose WAN1; if Ethernet interface is used, please choose WAN2; if 3G USB modem is used, please choose WAN3 or WAN4. Then click **Next** for next step.

WAN Interface:	WAN1 💌
Display Name:	
Physical Mode:	ADSL / VDSL2
Physical Type:	Auto negotiation 💉

WAN1, WAN2, WAN3 and WAN4 will bring up different configuration page. Refer to the following for detailed information.



3.2.1 For WAN1 (ADSL/VDSL2)

WAN1 is specified for ADSL or VDSL connection.

Quick Start Wizard

WAN Interface:	WAN1 💌
Display Name:	
Physical Mode:	ADSL / VDSL2
Physical Type:	Auto negotiation 💉

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

Quick Start Wizard

WAN 1	
Protocol	MPoA / Static or Dynamic IP 💌
For ADSL Only:	
Encapsulation	1483 Bridged IP LLC
VPI	0 Auto detect
VCI	88
Fixed IP	
IP Address	
Subnet Mask	255.255.255.0
Default Gateway	192.16.20.1
Primary DNS	8.8.4.4
Second DNS	168.95.192.1



PPPoE/PPPoA

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

Quick Start Wizard

WAN 1	
Protocol	PPPoE / PPPoA
For ADSL Only:	
Encapsulation	PPPoE LLC/SNAP 💌
VPI	0 Auto detect
VCI	88
Fixed IP	💿 Yes 🛛 No(Dynamic IP)
IP Address	192.16.20.86
Subnet Mask	255.255.255.0
Default Gateway	192.16.20.1
Primary DNS	8.8.4.4
	168.95.192.1

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

Quick Start Wizard

ΡΡΟΕ / ΡΡΡοΑ	
WAN 1	
User Name	77494727@hinet.net
Password	
Confirm Password	
	<pre></pre>

Dray Tek

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

```
Please confirm your settings:
      WAN Interface:
                                    WAN1
                                    ADSL / VDSL2
      Physical Mode:
      VPI:
                                    0
      VCI:
                                    33
                                    PPPoE / LLC
      Protocol / Encapsulation:
      Fixed IP:
                                    No
      Primary DNS:
                                    8.8.8.8
      Secondary DNS:
                                   8.8.4.4
                                            Seck Next > Finish Cancel
```

- 4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
- 5. Now, you can enjoy surfing on the Internet.

MPoA / Static or Dynamic IP

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

Quick Start Wizard

Quick Start Wizard

WAN 1	
Protocol	MPoA / Static or Dynamic IP 💌
For ADSL Only:	
Encapsulation	1483 Bridged IP LLC
VPI	0 Auto detect
VCI	88
Fixed IP	💿 Yes 🛛 No(Dynamic IP)
IP Address	192.16.20.86
Subnet Mask	255.255.255.0
Default Gateway	192.16.20.1
Primary DNS	8.8.4.4
Second DNS	168.95.192.1

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

Quick Start Wizard	
Please confirm your settings:	
WAN Interface: Physical Mode: VPI: VCI: Protocol / Encapsulation: Fixed IP: Primary DNS: Secondary DNS:	WAN1 ADSL / VDSL2 0 33 1483 Route LLC No 8.8.8.8 8.8.4.4
	< Back Next > Finish Cancel

- 3. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
- 4. Now, you can enjoy surfing on the Internet.

Dray Tek

3.2.2 For WAN2 (Ethernet)

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

iick Start Wizard	
AN Interface	
WAN Interface: Display Name: Physical Mode: Physical Type:	WAN2 Ethernet Auto negotiation
	< Back Next > Finish Cance

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

PPPoE

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

Quick Start Wizard

WAN 2						
Select one of the	following In	ternet Acce	ss types prov	/ided by y	our ISP.	
	۲) PPPoE				
	C	PPTP				
	С	L2TP				
	С) Static IP				
		DHCP				
	Ŭ	51101				

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

Quick Start Wizard

Quick Start Wizard

WAN 2		
Enter the user name and pas	ssword provided by your ISP.	
User Name	77494727@hinet.net	
Password	•••••	
Confirm Password		

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

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

- 4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
- 5. Now, you can enjoy surfing on the Internet.

PPTP/L2TP

Quick Start Wizard

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

WAN 2				
Select one of th	e following Internet	: Access types pr	ovided by your ISP.	
	O PPPo	DΕ		
	🔘 РРТГ	5		
	💿 L2TF	5		
	🔘 Stat	ic IP		
	🔘 рнс	P		

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

Quick	Start	Wizard
of the loss		

WAN 2 Enter the user name, pass your ISP.	word, WAN IP configuration and PPTP serve	r IP provided by
User Name	77494727@hinet.net	
Password	•••••	
Confirm Password		
WAN IP Configuration		
🔘 Obtain an IP address	automatically	
Specify an IP address	5	
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.

confirm your settings:	
WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	РРТР
settings and restart the V	nges if necessary. Otherwise, click Finish to save the current igor router.

- 4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
- 5. Now, you can enjoy surfing on the Internet.

Static IP

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

Quick Start Wizard	
Connect to Internet	
WAN 2	
Select one of the following Internet Access	s types provided by your ISP.
O PPPoE	
О РРТР	
○ L2TP	
 Static IP 	
	< 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	uration 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.

sk Start Wizard	
ase confirm your settings:	
WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	Static IP
Click Back to modify chan settings and restart the Vi	iges if necessary. Otherwise, click Finish to save the current igor router.
	<pre>< Back Next > Finish Can</pre>

- 4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
- 5. Now, you can enjoy surfing on the Internet.

Dray Tek

DHCP

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

Quick Start Wizard	
Connect to Internet	
WAN 2	
Select one of the following Internet Access types provided by your ISP.	
O PPPoE	
О РРТР	
C L2TP	
O Static IP	
Ottale IF Ottale IF	
€ DHCP	
<pre>< Back Next > Finish Car</pre>	ncel

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

Quick Start Wizard

DHCP Client Mode	
WAN 2	
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)
	Sack Next > Finish Cancel

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

ck Start Wizard	
nse confirm your settings:	
WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	DHCP
Click Back to modify chan settings and restart the Vi	iges if necessary. Otherwise, click Finish to save the current igor router.
	< Back Next > Finish Can

- 4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
- 5. Now, you can enjoy surfing on the Internet.

3.2.3 For WAN3/WAN4 (USB)

1. Choose WAN3/WAN4 as WAN Interface.

Quick Start Wizard

AN Interface	
WAN Interface: Display Name:	WAN3 V
Physical Mode:	USB
	< Back Next > Finish Cance

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

Quick Start Wizard

Connect to Internet	
WAN 3	
Internet Access :	3G/4G USB Modem(PPP mode) 🔽
	3G/4G USB Modem(PPP mode)
3G/4G USB Modem(PPP mode)	4G USB Modem(DHCP mode)
SIM PIN code	
Modem Initial String	AT&FE0V1X1&D2&C1S0=0
	(Default:AT&FE0V1X1&D2&C1S0=0)
APN Name	Apply
	< Back Next > Finish Cancel

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

ick Start Wizard	
ease confirm your settings:	
WAN Interface:	WAN3
Physical Mode:	USB
Internet Access:	PPP
settings and restart the V	ges if necessary. Otherwise, click Finish to save the current igor router.
	<pre>< Back Next > Finish Cand</pre>

- 4. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
- 5. Now, you can enjoy surfing on the Internet.

3.3 Wireless Configuration

氲

For the user of Vigor2860, please skip this section.

For operating Vigor2860n/Vigor2860n-plus/Vigor2860Vn-plus/ Vigor2860ac/ Vigor2860Vac series 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(2.4GHz or 5GHz)** group, select **General Setup**. The following page will be shown.

Wireless LAN(2.4GHz) >> General Setup

Mode :		Mixed(11b+11g+11n) 🗸		
Channel:		Channel 6, 2437MHz 🔽		
Enable H	lide SSID	SSID	Isolate Member	Isolate VPN
1		DrayTek		
2		DrayTek_Guest		
3				
4				
The isolate V	PN configura	necting to each other. ation will isolate the wireless I not be able to access the V		
The isolate V	/PN configura s clients will	ation will isolate the wireless I not be able to access the V	PN network under this	setting.
The isolate V thus, wireles	/PN configura s clients will	ation will isolate the wireless		setting.
The isolate V thus, wireles Rate Control	/PN configura s clients will Enable	ation will isolate the wireless I not be able to access the V Upload	PN network under this	s setting.
The isolate V thus, wireles Rate Control SSID 1	/PN configura s clients will Enable	ation will isolate the wireless I not be able to access the V Upload 30000 kbps	PN network under this Downlos 30000	s setting. ad kbps
The isolate V thus, wireles Rate Control SSID 1 SSID 2	/PN configur: ss clients will Enable	ation will isolate the wireless I not be able to access the V Upload 30000 kbps 30000 kbps	PN network under this Downloa 30000 30000	s setting. ad kbps kbps
The isolate V thus, wireles Rate Control SSID 1 SSID 2 SSID 3 SSID 4 Note:	/PN configur: ss clients will Enable	ation will isolate the wireless I not be able to access the V Upload 30000 kbps 30000 kbps 30000 kbps	PN network under this Downloa 30000 30000 30000 30000	ad kbps kbps kbps
The isolate V thus, wireles Rate Control SSID 1 SSID 2 SSID 3 SSID 4 Note:	VPN configura so clients will Enable	ation will isolate the wireless I not be able to access the V Upload 30000 kbps 30000 kbps 30000 kbps 30000 kbps 30000 kbps 30000 kbps	PN network under this Downloa 30000 30000 30000 30000	ad kbps kbps kbps



2. Check Enable Wireless LAN to enable the wireless function.

3. Choose Mixed (11b+11g+11n)/Mixed (11a+11n+11c) mode.

Note: In which, 802.11b/g operates on 2.4G band, 802.11a operates on 5G band, 802.11n operates on either 2.4G or 5G band, and 802.11ac operates on 5G band only.

- 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.

Note: For the detailed information about wireless connection with rate in 2.4GHz/5GHz, refer to User's Guide.



3.3.3 Security Settings

1. On the Wireless LAN group, select Security.

Wireless LAN(2.4GHz) >> Security Settings

SID 1	SSID 2	SSID 3	SSID 4	
Mode:			WEP/802.1x Only	~
<u>WPA</u>				
	Encryption Mode	:	TKIP for WPA/AES	for WPA2
	Pre-Shared Key	PSK):	*****	
	Type 8~63 ASCI "cfgs01a2" or			ligits leading by "0x", for example
WEP				
	Encryption Mode	:	64-Bit 🗸	
	Key 1:		*****	
	○ Key 2 :		*****	
	○Key 3 :		******	
	○ Key 4 :		******	
Note:				
Please	configure the <u>RA</u>	DIUS Server if	802.1x is used.	
			ease insert 5 ASCI "AB312" or "0x414	II characters or 10 Hexadecimal 42333132".
	8 bit WEP key con leading by "0x".	nfigurations, p	please insert 13 AS	SCII characters or 26 Hexadecimal

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.

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.

Dray Tek	Vigor2860 Series
Login	
Username	admin
Password	••••
Group	💙
	Login
Cop	pyright © 2012 DrayTek Corp. All Rights Reserved.

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**.

0	the second s	ment to register. ation entitles you to upgrade firmware for your nd receive news about upcoming products and
Tek product. Your precious su ning MyVigor, your data will b	ggestions will be of furthe handled carefully and n	further login to advise us of your opinion about er help for innovation and enhancement, or passed onto any 3rd party unrelated /Tek Corp and regional offices/agents within yo
DGIN		
Language : Er	iglish 💌	
UserName : iai	nes fae	
Osenvarne. ja	nes_iae	
Password :		
Auth Code :	1307	Celercia-
		• •
	Forgotten password?	Login
Don't have a	MyVigor Account ?	Create an account now
Recome the MVA	liaor member, you can	receive the e-newsletter update.





If you haven't an accessing account, please refer to section 4.9 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**.

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

Dray Tek				My	/igor
Home .				Search	GO
D About Us	My Product		Search for t	his site	60
My Information VigorACS SI Vigor Series Management	Serial number : Nickname : *	20110822143203 vigor2860			
Product Registration Customer Survey	Registration Date : Usage : Product Rating : No. of Employees : Supplier : Date of Purchase : Internet Connection : *	- Select -		-	
	Cable	🗆 ADSL	🗆 VDSL 🗐 LTE	🔲 Fiber	
Convictes @ErsuTek Com	·			Cancel	mit



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

Your device has been successfully added to the database.



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

i Home			Sea	arch G	D
D About Us	My Information				2
About 0s Product My Information VigorACS SI Vigor Series	Welcome, james_fae Last Login Time : 2011-03-16 01 Last Login From : 172.16.2.180 Current Login Time : 2011-03-11 Current Login From : 172.16.3.1	RowNo : 5 💌 P	PageNo : 1 💙		
Anagement 4	Your Device List				
Customer Survey	Serial Number / Host ID	Device Name	Model	Note	
	2011031609200201	Vigor2860	Vigor2860		

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.

Dray Tek

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

Sometimes the link failure occurs due to the wrong network connection settings. After trying the above section, if the link is stilled failed, please do the steps listed below to make sure the network connection settings is OK.

For Windows

氲

The example is based on Windows 7. As to the examples for other operation systems, please refer to the similar steps or find support notes in **www.draytek.com**.

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

🙀 Fonts
🛃 Java
🚆 Network and Sharing Center
Personalization
P Recovery

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



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





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

onnection Configure
Configure
Configure
osoft Networks
2/IPv6)
P/IPv4)
Mapper 170 Driver
Responder
Properties

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

neral Alternate Configuration					
ou can get IP settings assigned is capability. Otherwise, you n					
r the appropriate IP settings.					
Obtain an IP address auto	matically				
🗢 ose che following i Pladdre	55;				_
IP address:			3	1	
Subnet mask:		1.2			
Default gateway;	Γ				_
 Obtain DNS server address 	s automati	cally			
C Use the following DNS serv	/er addres	ses:			
Preferred DNS server:	Γ	- 54	÷7	7	
Alternate DNS server:	Γ		1		
🔲 Validate settings upon exi	it			Adv	vanced

Dray Tek

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.

0 0	Network	C
Show All Displays Sou	nd Network Startup Disk	
Lo	ocation: Automatic	
TCP/)
Configure IPv4:	Using DHCP	
IP Address:	192.168.1.10 Renew I	DHCP Lease
	255.255.255.0 DHCP Client ID: (If requi	red)
DNS Servers:		(Optional)
Search Domains:		(Optional)
IPv6 Address:	fe80:0000:0000:0000:020a:95ff:fe8d:72e4	
	Configure IPv6	?
Click the lock to p	revent further changes. Assist me	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/Vista/7). The DOS command dialog will appear.



- 3. Type **ping 192.168.1.1** and press [Enter]. If the link is OK, the line of "**Reply from 192.168.1.1:bytes=32 time<1ms TTL=255**" will appear.
- 4. If the line does not appear, please check the IP address setting of your computer.

For Mac OS (Terminal)

- 1. Double click on the current used Mac OS on the desktop.
- 2. Open the **Application** folder and get into **Utilities**.
- 3. Double click **Terminal**. The Terminal window will appear.
- 4. Type **ping 192.168.1.1** and press [Enter]. If the link is OK, the line of **"64 bytes from 192.168.1.1: icmp_seq=0 ttl=255 time=xxxx ms"** will appear.

000	Terminal - bash - 80x24	
Welcome to Darwin! Vigor10:~ draytek\$ p PING 192.168.1.1 (19 64 bytes from 192.16 64 bytes from 192.16 64 bytes from 192.16 64 bytes from 192.16 64 bytes from 192.16	3 02:24:18 on ttyp1 ing 192.168.1.1 2.168.1.1): 56 data bytes 8.1.1: icmp_seq=0 ttl=255 time=0.755 ms 8.1.1: icmp_seq=1 ttl=255 time=0.697 ms 8.1.1: icmp_seq=2 ttl=255 time=0.716 ms 8.1.1: icmp_seq=3 ttl=255 time=0.731 ms 8.1.1: icmp_seq=4 ttl=255 time=0.72 ms	2
In the second	d, 5 packets received, 0% packet loss ax = 0.697/0.723/0.755 ms	

4.4 Checking If the ISP Settings are OK or Not

If WAN connection cannot be up, check if the LEDs (according to the LED explanations listed on section 1.2) are correct or not. If the LEDs are off, please:

- Change the **Physical Type** from **Auto negotiation** to other values (e.g., 100M full duplex).
- Next, change the physical type of modem (e.g., DSL/FTTX(GPON)/Cable modem) offered by ISP with the same value configured in Vigor router. Check if the LEDs on Vigor router are on or not.
- If not, please install an additional switch for connecting both Vigor router and the modem offered by ISP. Then, check if the LEDs on Vigor router are on or not.
- If the problem of LEDs cannot be solved by the above measures, please contact with the nearest reseller, or send an e-mail to DrayTek FAE for technical support.
- Check if the settings offered by ISP are configured well or not.



When the LEDs are on and correct, yet the WAN connection still cannot be up, please:

• Open WAN >> Internet Access page and then check whether the ISP settings are set correctly. Click **Details Page** of WAN1-WAN4 to review the settings that you configured previously.

ashboard	Internet Access				
Vizards	Index Display Name	Physical Mode	Access Mode		
Online Status	WAN1	ADSL / VDSL2	PPPoE / PPPoA	~	Details Page IPv
VAN General Setup	WAN2	Ethernet	Static or Dynamic IP	*	Details Page IPv
Internet Access Multi-PVCs	WAN3	USB	None	*	Details Page
AN oad-Balance/Route Policy	WAN4	USB	None	*	Details Page
AT irewall	Note : Only one WAN ca	n support IPv6.			

4.5 Backing to Factory Default Setting If Necessary

Sometimes, a wrong connection can be improved by returning to the default settings. Try to reset the router by software or hardware..



Warning: After pressing **factory default setting**, you will loose all settings you did before. Make sure you have recorded all useful settings before you pressing. The password of factory default is null.

Software Reset

You can reset the router to factory default via Web page. Go to **System Maintenance** and choose **Reboot System** on the web page. The following screen will appear. Choose **Using factory default configuration** and click **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 ?				
Osing current configuration				
O 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 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.

Dray Tek