

Quick Start Guide and Safety Recommendations

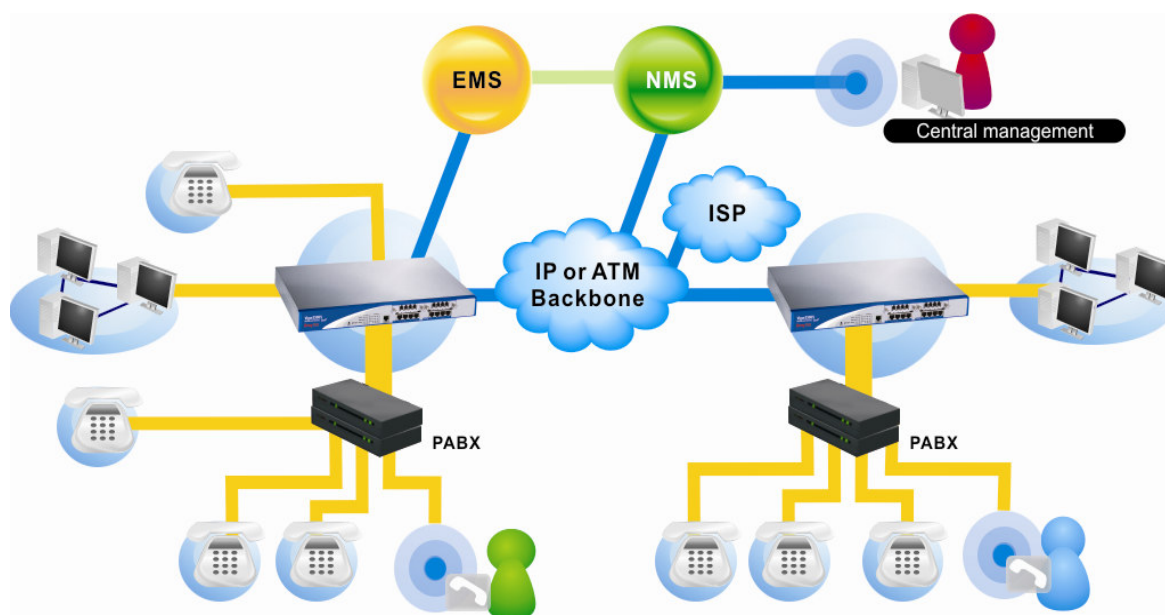
Vigor3300 Series Broadband VoIP/Security/Load Balancer Router

To ensure secure and reliable Internet access over enterprise networks, Vigor3300 is a comprehensive NAT, optional security suite combining firewall, VPN, URL content filtering facilities, as well as bandwidth management, and VoIP capabilities. The application scenario is shown as follows.

The guide provides three sections of Vigor3300 series basic indications and configurations.

The content covers the following topics:

- Installation and LED Indications
- Basic Settings
- Safety Recommendations and Warranty



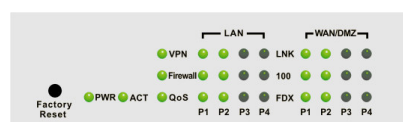
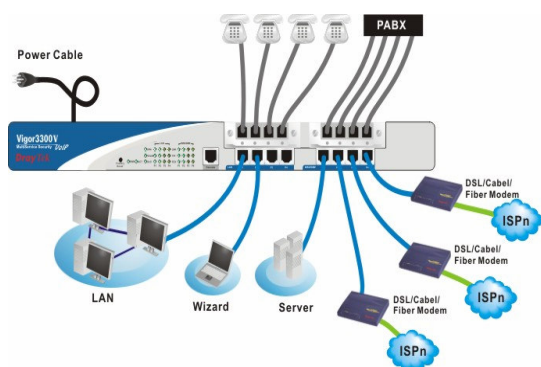
1. Installation and LED Indications

1.1 At first step, connect the power cord to Vigor3300's power port, and the plug the power cord into an electrical outlet. The PWR LED should be ON. After the system test is complete, the ACT LED will light up and start blinking.

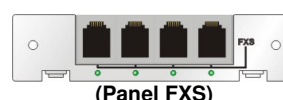
1.2 Connect one end of an Ethernet cable to one of the 4 LAN ports on the front of Vigor3300. Connect the other end to the Ethernet port on your PC. The LAN LED on the front panel will light up.

1.3 Connect your broadband modem/router's Ethernet cable to the WAN1 port of Vigor3300, and then check the WAN1 LED status. The WAN1 LED will light up.

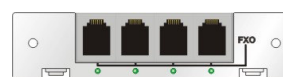
1.4 Check the LED on VoIP modules. The LED will light up, which means "In-Service".



(Panel LEDs)



(Panel FXS)



(Panel FXO)

2. Basic Setup

2.1 Start Your Configuration

Check your PC's IP address to see if it is on the subnet, to which the router's LAN IP address belongs.

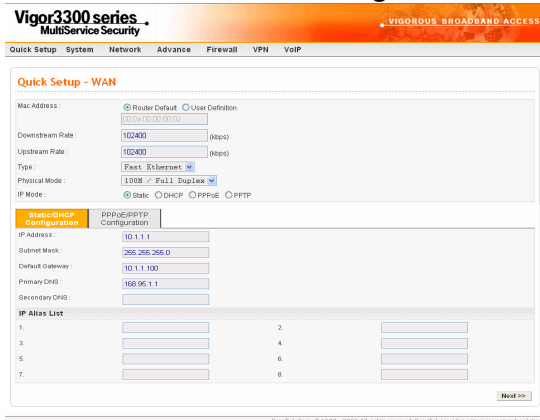
2.3 Login



A small dialog box titled "Enter Network Password" with a key icon. It contains fields for Site (192.168.1.1), Realm, User Name (draytek), and Password. There is a checkbox for "Save this password in your password list" and "OK" and "Cancel" buttons.

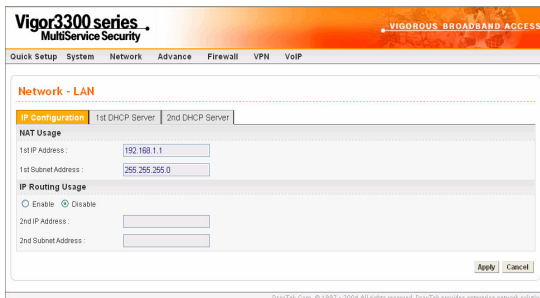
A screen will show up asking for your User Name and Password. Enter the user name and password in the respective fields, and then click **OK**. The default user name is **draytek** and password is **1234**.

2.5 WAN Connection Mode Setting

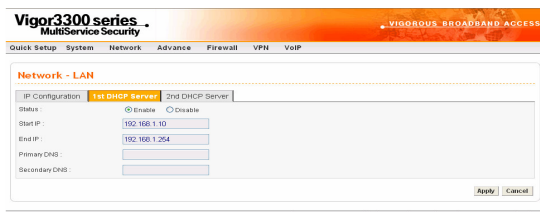


The "Quick Setup - WAN" screen for the Vigor3300 series. It shows fields for Mac Address, Downstream Rate, Upstream Rate, Type (Fast Ethernet), Physical Mode (100M / Full Duplex), and IP Mode (Static, DHCP, PPPoE, PPTP). The Static DHCP Configuration section is active, showing IP Address (10.1.1.1), Subnet Mask (255.255.255.0), Default Gateway (10.1.1.100), and Primary/Secondary DNS. There is also an IP Alias List table.

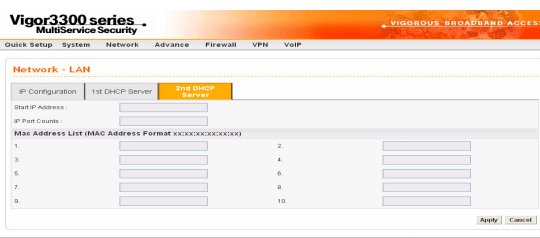
2.6 Set LAN Connection



The "Network - LAN" screen for the Vigor3300 series. It shows the "IP Configuration" tab with fields for 1st IP Address (192.168.1.1), 1st Subnet Address (255.255.255.0), and 2nd IP Address/Subnet Address. There is also a "NAT Usage" section with "Enable" and "Disable" radio buttons.



The "Network - LAN" screen for the Vigor3300 series, showing the "1st DHCP Server" tab. It includes fields for Start IP (192.168.1.10), End IP (192.168.1.254), Primary DNS, and Secondary DNS.

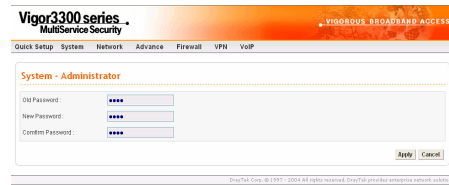


The "Network - LAN" screen for the Vigor3300 series, showing the "2nd DHCP Server" tab. It includes fields for Start IP Address, IP Pool Count, and a Mac Address List (MAC Address Format XXXXXX-XXXXXX).

2.2 Access the Web-based Utility

To do the basic configuration, open the Web browser (e.g. IE or Netscape). Enter the router's default IP address in the Address field.

2.4 Change User Password



The "System - Administrator" screen for the Vigor3300 series. It shows fields for Old Password, New Password, and Confirm Password, with "Apply" and "Cancel" buttons.

Old Password If you don't know the old password, you will not be able to change it.

New Password Enter the router's new password.

Confirm Password Re-enter the router's new password to confirm it.

Select the appropriate WAN connection type to connect to the Internet. There are four modes available.

a. Static IP, b. DHCP, c. PPPoE, and d. PPTP.

If **Static IP** is selected, this screen will appear. Enter the **IP address** specified by your ISP, and then click **Apply**.

If you choose **DHCP** mode, your ISP's DHCP server will assign a dynamic IP address to Vigor3300.

If your ISP uses **PPPoE** (Point-to-Point Protocol over Ethernet), then click **PPPoE**. Once **PPPoE** is selected, enter the **username** and **password** provided by your ISP.

If your ISP uses **PPTP** (Point-to-Point Tunneling Protocol), then click **PPTP**. Once **PPTP** is selected, enter the **username** and **password** provided by your ISP.

The LAN connection setup comes with the following parameters:

The default values for the router's local IP address and Subnet Mask are **192.168.1.1** and **255.255.255.0**.

You are able to change the default setting based on your networking requirements.

Vigor3300 supports two modes –

NAT Usage – The source IP address will be translated into a public IP for data transmission.

IP Routing Usage – The source IP address will be kept for data transmission.

1st DHCP Server function enables the router to serve as a DHCP server for your network. A DHCP server automatically assigns an IP address and related parameters to each computer on your network. You can specify the IP pool for the router to start/end with when issuing IP address.

2nd DHCP Server function is able to be used if IP Routing Usage is enabled.

You can restrict the number of hosts requesting for the IP related parameters from the DHCP server. The maximum is 10.

Note: You can also enter DNS server IP address for the router in the **Primary DNS** field or **Secondary DNS** field for the DHCP Server to assign to each host along with its IP address.

2.7 Set NAT Port Redirection Table

Vigor3300 series MultiService Security VIGOROUS BROADBAND ACCESS

Quick Setup System Network Advance Firewall VPN VoIP

Advance - NAT - Port Redirection

Protocol: TCP
Public Port: 100 - 500
Private IP: 192.168.1.88
Private Port: 66

Index	Protocol	Port Start	Port End	Private IP	Private
1	TCP	100	500	192.168.1.88	66

Buttons: Add Edit Delete Prev Next Apply Cancel

The **NAT Port Redirection** means port forwarding. Port forwarding sets up public services on your network, such as web servers, FTP servers, or other special Internet applications. When external users send this type of request to your network over the Internet, the router will direct these requests to the appropriate inside host. For example, you can transfer port 66 to LAN IP address 192.168.1.100. Whenever the incoming packet from the WAN side with the port 100~500, the packet will be directly forwarded to LAN IP address.

2.8 Set NAT Address Mapping Table

Vigor3300 series MultiService Security VIGOROUS BROADBAND ACCESS

Quick Setup System Network Advance Firewall VPN VoIP

Advance - NAT - Address Mapping

Protocol: TCP
Public IP: 10.1.1.1
Private IP: 192.168.1.10
Mask: /24

Index	Protocol	Public IP	Private IP	Mask
1	TCP	10.1.1.1	192.168.1.10	/24

Buttons: Add Edit Delete Prev Next Apply Cancel

NAT (Network Address Translation) converts IP addresses on a private network (designated as “inside” or “LAN”) into public IP addresses so that packets can be forwarded to another registered network (designated as “outside” or “WAN”). It enables multiple PCs inside the LAN to access the Internet by means of one public IP address. **NAT** is enabled by default. By setting **NAT Table**, the public IP is provided by your ISP.

2.9 Set ICMP Access Control

Vigor3300 series MultiService Security VIGOROUS BROADBAND ACCESS

Quick Setup System Network Advance Firewall VPN VoIP

System - Access Control

☒ Disable Ping from the LAN
☐ Disable Ping from the WAN

Buttons: Apply Cancel

The **Access Control** can prevent viruses from using ICMP packets to attack the device. You can disable the ping from the LAN/WAN side when there are worm-type viruses detected on your network. The mechanism can avoid virus spread, but in most cases it should not be enabled because its activation may make the device block normal query packets.

2.10 Status (Basic Status)

Vigor3300 series MultiService Security VIGOROUS BROADBAND ACCESS

Quick Setup System Network Advance Firewall VPN VoIP

System - Status

Basic Status LAN Status WAN Status

Model: Vigor3300V
Firmware Version: 2.5.3
Hardware Version: 0
Build Date/Time: Tue Aug 24 09:33:39 CST 2004
System Uptime: 16803.66
CPU Usage: 0.0932%
Memory Usage: 31.8681%

To monitor the router’s operating status, click the **Status** tab for the information. The screen pops up displaying the current settings of Vigor3300, including three windows – **Basic**, **LAN**, and **WAN**.

Basic Status displays the profile setting of Vigor3300. These items are **Model**, **Firmware Version**, **Build Date/Time**, **System Uptime**, **CPU Usage**, and **Memory Usage**.

(LAN Status)

Vigor3300 series MultiService Security VIGOROUS BROADBAND ACCESS

Quick Setup System Network Advance Firewall VPN VoIP

System - Status

Basic Status LAN Status WAN Status

IP Address: 192.168.1.1
MAC Address: 00:0A:00:00:00:01
RX Packets: 0
TX Packets: 1100

LAN Status displays the information about the LAN interface, including the **IP address**, **MAC Address**, **RX Packets**, and **TX Packets**.

(WAN Status)

Vigor3300 series MultiService Security VIGOROUS BROADBAND ACCESS

Quick Setup System Network Advance Firewall VPN VoIP

System - Status

Basic Status LAN Status WAN Status

WAN1	WAN2	WAN3	WAN4
IP Address: 00:0A:00:00:00:02	IP Address: 00:0A:00:00:00:03	IP Address: 00:0A:00:00:00:04	IP Address: 00:0A:00:00:00:05
MAC Address: 00:0A:00:00:00:01	MAC Address: 00:0A:00:00:00:02	MAC Address: 00:0A:00:00:00:03	MAC Address: 00:0A:00:00:00:04
Primary DNS: 0	Primary DNS: 0	Primary DNS: 0	Primary DNS: 0
Secondary DNS: 0	Secondary DNS: 0	Secondary DNS: 0	Secondary DNS: 0
Gateway: 0	Gateway: 0	Gateway: 0	Gateway: 0
RX Packets: 0	RX Packets: 0	RX Packets: 0	RX Packets: 0
TX Packets: 0	TX Packets: 0	TX Packets: 0	TX Packets: 0

WAN Status displays the information about four WAN interfaces simultaneously, including **IP address**, **MAC Address**, **Primary DNS**, **Secondary DNS**, **Gateway**, **RX Packets**, and **TX Packets**.

2.11 Reboot

Vigor3300 series MultiService Security VIGOROUS BROADBAND ACCESS

Quick Setup System Network Advance Firewall VPN VoIP

System - Reboot

Rebooting the system... waiting for 25 seconds and refresh page...

☒ Use default configuration

Buttons: Apply

The **reboot** screen also appears after you change the password, WAN and LAN settings. Otherwise, you can select **Use default configuration** to reboot the device.

3. Safety Recommendations and Warranty

The section describes the standard operational procedures involving electrical circuits to avoid accidents.

3.1 Operation Environment

- Make sure that the AC power source is within the range of **AC 90-240V**.
The router should be used in a sheltered area, within the temperature range from **0 to +50 °C** and relative humidity within the range from **10% to 90%**.
- Do not expose the router to direct sunlight or other heat sources. The housing and electronic components may be damaged accordingly.

3.2 Installation

- Read the quick start guide and installation manual before powering on the device.
- Locate the emergency power-off switch near the device before the router powers on.
- It is highly recommended to fix the device to the chassis to maintain air circulation and stable condition.
- Do not work alone if the operation environment is inappropriate.
- Check and avoid the potential hazard under moist environments, and grounding issues of power cabling.
- Please turn off the device when you replace the fuse, install or remove the chassis.
- Do not put the device in a damp or humid place, e.g. a bathroom-like environment.
- Avoid cable connection if lightning arises.
- When you want to dispose of the router, please follow the local regulations on environmental protection.

3.3 Maintenance

- Users can replace the fuse by removing the module when necessary. Other parts of the device are complicated and should be repaired by authorized and qualified personnel. Do not try to open or repair the device by yourself.
- The fuse should conform to the following rating.
AC: 250VAC, 1A

For more information, please refer to the manual in the attached CD. You may also find the latest product information on our website: <http://www.draytek.com>.

The scope of delivery and other details are subject to change without prior notice.

3.4 Warranty

- The warranty of defects in materials is **three years** starting from the purchase date. Please keep your purchase receipt as proof of purchase.
- During the warranty, when the product has indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary to re-store the product to its 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.
- This 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. The scope of delivery and other details are subject to change without prior notice.



Declaration of Conformity

We DrayTek Corp., office at No.26, Fu Shing Road, HuKou County, Hsin-Chu Industry Park, Hsinchu 300, Taiwan, R.O.C., declare under our sole responsibility that the product:

- Product name : MultiService Security Router
- Model number : Vigor 3300, Vigor 3300B, Vigor3300B+, Vigor 3300Ai, Vigor 3300i, Vigor 3300VAi, Vigor 3300V, Vigor 3300VAGi

Produced by:

- Company Name : DrayTek Corp.
- Company Address: No.26, Fu Shing Road, HuKou County, Hsin-Chu Industry Park, Hsinchu 300, Taiwan, R.O.C.

to which this declaration relates is in conformity with the following standards or other normative documents:

Item	Description	Standard	Standard age
EMC	Conducted & Radiated Emission Standard	EN 55022 Class A	1998+A1:2000
	Current Harmonic	EN 61000-3-2 Class A	2000
	Voltage Fluctuation and Flicker	EN 61000-3-3	1995+A1:2001
	Immunity Standard	EN 55024	1998+A1:2001
	ElectroStatic Discharge	EN 61000-4-2	1995+A1;1998+A2:2000
	Radiated Susceptibility	EN 61000-4-3	1995+A1;1998+A2:2000
	Electrical Fast Transient/Buster	EN 61000-4-4	1995+A1;2001+A2:2001
	Surge	EN 61000-4-5	1995+A1:2000
	Conducted Susceptibility	EN 61000-4-6	1996+A1:2000
	Power Frequency Magnetic Field	EN 61000-4-8	1993+A1:2000
	Voltage Dips	EN 61000-4-11	1994+A1:2002
Safety	LVD Certificated	IEC 60950;EN 60950	1999;2000

Compliance with the directives of R&TTE 1999/5/EEC

DrayTek

Hsinchu
(place)

25 May, 2005
(date)

Jenny Yang
(Legal Signature)

DrayTek Corp.

DrayTek

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