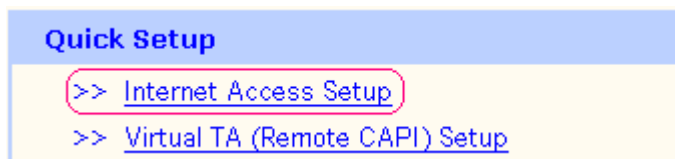
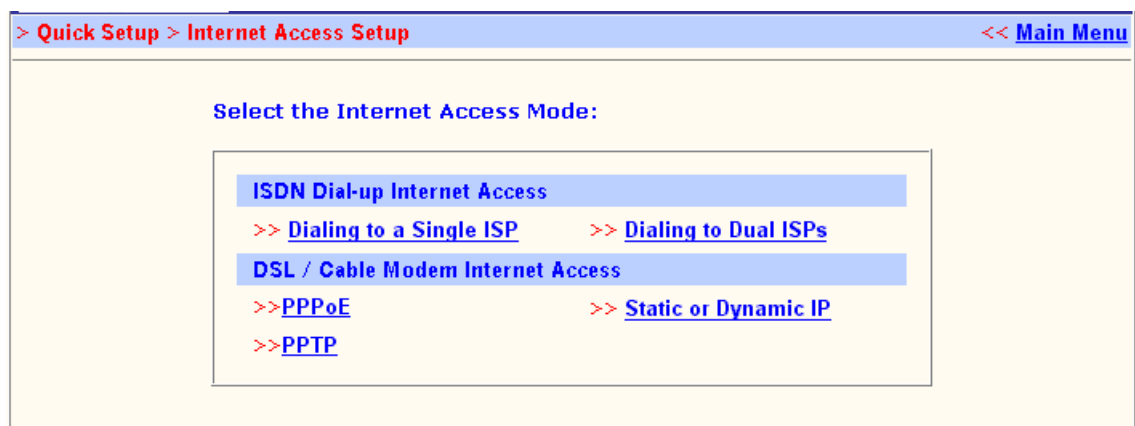

Internet Access Setup

Introduction

In the **Quick Setup** group, you can configure the router to access the Internet with different modes (e.g. ISDN, PPPoE, PPTP, Dynamic/Static IP or Broadband Access with ISDN dial backup).



For most users, Internet access is the primary application. The Vigor2200, Vigor2200X and Vigor2200W support the ISDN WAN interface for Internet access and remote access. The following sections will explain more details of ISDN dial-up access and broadband access setup. When you click **Internet Access Setup** from within the **Quick Setup** group, the following setup page will be shown.



Five methods are available for Internet Access.

Dialing to a Single ISP: If you access the Internet via a single ISP, click here.

Dialing to Dual ISPs: If you have more than one ISP, click here to set two ISP dialup profiles. You will be able to dial to both ISPs at the same time. This is mainly for those ISPs that do not support Multiple-Link PPP (ML-PPP). In such cases dialing to two ISPs can increase the bandwidth utilization of the ISDN line to 128kbps data speed.

PPPoE: This is for most DSL modem users. All local users can share one PPPoE connection to access the Internet.

PPTP: Some DSL services providers supply a special DSL modem (e.g. Alcatel's DSL modem). This kind of modem only supports the PPTP tunnel method to access the Internet. In these cases, and you create a PPTP tunnel that carries a PPP session and terminates

on the DSL modem. Once the tunnel has been established, this kind of DSL modem will forward the PPP session to the ISP. As long as the PPP session is connected, all the local users will be able to share this PPP session to access to the Internet.

Static or Dynamic IP: On this page you configure the WAN interface to use a static (fixed) IP or dynamic (DHCP client) IP address. Most cable users will use the dynamic IP address mode to get a globally reachable IP address from the cable head-end system.

For ISDN Internet users, you should click **Diaing to a Single ISP** or **Dialing to Dual ISPs** for detailed Internet settings.

For broadband access users, you need to know what kind of Internet access is provided by your ISP.

The following sections deal with four widely-used broadband access services. These are **PPPoE Client**, **PPTP Client** and **Static IP** for DSL, and **Dynamic IP (DHCP Client)** for Cable. In most cases, you will get a DSL or Cable modem from the broadband access service provider. The router is connected behind the broadband device (i.e. DSL/Cable modem) and works as a NAT or IP router for broadband connections.

Configuration

- Connecting to a Single ISP

> Quick Setup > Internet Access Setup <<Main Menu

Single ISP <<Back

ISP Access Setup	PPP/MP Setup
ISP Name: <input type="text" value="isp_name"/>	Link Type: <input type="text" value="Dialup BOD"/>
Dial Number: <input type="text" value="12345678"/>	PPP Authentication: <input type="text" value="PAP or CHAP"/>
Username: <input type="text" value="username"/>	Idle Timeout: <input type="text" value="180"/> second(s)
Password: <input type="password" value="*****"/>	IP Address Assignment Method (IPCP)
<input type="checkbox"/> Require ISP callback (CBCP)	Fixed IP: <input type="radio"/> Yes <input checked="" type="radio"/> No (Dynamic IP)
Scheduler (1-15): => <input type="text"/> , <input type="text"/> , <input type="text"/> , <input type="text"/>	Fixed IP Address: <input type="text"/>

OK

ISP Access Setup

ISP Name: Enter your ISP name.

Dial Number: Enter the ISDN access number provided by your ISP.

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Require ISP Callback (CBCP): If your ISP supports the callback function, check **Require ISP Callback (CBCP)** to enable the Callback Control Protocol during PPP

negotiations.

Scheduler (1-15): Enter the index of schedule profile to control the Internet access by time plan.

PPP/MP Setup

Link Type: There are four link types:

Link Disable

Disables the ISDN dial-out function.

Dialup 64Kbps

Uses one ISDN B channel for Internet access.

Dialup 128Kbps

Uses both ISDN B channels for Internet access.

Dialup BOD

BOD stands for bandwidth-on-demand. The router will use only one B channel under low traffic situations. Once the single B channel bandwidth is filled, the other B channel will be dialled automatically. For more detailed BOD parameter settings, refer to the **Advanced Setup** group > **Call Control and PPP/MP Setup**.

PPP Authentication:

PAP Only

Sets the PPP session to use the PAP protocol to negotiate the username and password with the ISP.

PAP or CHAP

Sets the PPP session to use the PAP or CHAP protocols to negotiate the username and password with the ISP.

Idle Timeout:

Idle timeout means the router will disconnect after being idle for a preset amount of time. The default is 180 seconds. If you set the time to 0, the ISDN connection will remain always connected to the ISP.

IP Address Assignment Method (IPCP)

Fixed IP, and Fixed IP Address:

In most environments you should not change these settings as most ISPs provide a dynamic IP address for the router when it connects to the ISP. If your ISP provides a fixed IP address, check **Yes** and enter the IP address in the Fixed IP Address field.

- Connecting to Dual ISPs

Most configuration parameters are the same as that in the last section. This page provides an **Enable Dual ISPs Function** checkbox and adds a secondary ISP Setup section. Check the box and enter the second ISP information.

> Quick Setup > Internet Access Setup		<< Main Menu
Dual ISP		<< Back
Common Settings 1. <input checked="" type="checkbox"/> Enable Dual ISPs Function 2. <input type="checkbox"/> Require ISP callback (CBCP)	PPP/MP Setup Link Type: <input type="text" value="Dialup BOD"/> PPP Authentication: <input type="text" value="PAP or CHAP"/> Idle Timeout: <input type="text" value="180"/> second(s)	
Primary ISP Setup ISP Name: <input type="text" value="isp1_name"/> Dial Number: <input type="text" value="12345678"/> Username: <input type="text" value="username1"/> Password: <input type="text" value="xxxxxxxxxx"/> IP Address Assignment Method (IPCP) Fixed IP: <input type="radio"/> Yes <input checked="" type="radio"/> No (Dynamic IP) Fixed IP Address: <input type="text"/>	Secondary ISP Setup ISP Name: <input type="text" value="isp2_name"/> Dial Number: <input type="text" value="87654321"/> Username: <input type="text" value="username2"/> Password: <input type="text" value="xxxxxxxxxx"/> IP Address Assignment Method (IPCP) Fixed IP: <input type="radio"/> Yes <input checked="" type="radio"/> No (Dynamic IP) Fixed IP Address: <input type="text"/>	
<input type="button" value="OK"/>		

- Using PPPoE with a DSL Modem

Click **Internet Access Setup > PPPoE** to enter the setup page.

> Quick Setup> Internet Access Setup <<Main Menu

PPPoE Client Mode <<Back

PPPoE Setup

PPPoE Link ☒ Enable ☐ Disable

ISP Access Setup

ISP Name

Username

Password

Scheduler (1-15)

=> , , ,

ISDN Dial Backup Setup

Dial Backup Mode

PPP/MP Setup

PPP Authentication

☐ Always On

Idle Timeout second(s)

IP Address Assignment Method (IPCP)

Fixed IP ☐ Yes ☒ No (Dynamic IP)

Fixed IP Address

OK

PPPoE Setup

PPPoE Link: Check **Enable** to enable the PPPoE client protocol on the WAN interface.

ISP Access Setup

ISP Name: Enter the ISP name.

Username: Enter the ISP supplied username.

Password: Enter the ISP supplied password.

Scheduler (1-15): Enter the index of schedule profile to control the Internet access by time plan.

PPP/MP Setup

PPP Authentication: Select **PAP or CHAP** for widest compatibility.

Always On: Check to force the Internet access is always online, and you will see the **Idle Timeout** field will be blocked for input.

Idle Timeout: Idle timeout means the router will disconnect after being idle for a preset amount of time. The default is 180 seconds. If you set the time to 0, the PPP session will not terminate itself.

IP Address Assignment Method (IPCP)

Fixed IP: Check **No (Dynamic IP)** unless your ISP has provided you with a static IP address.

Fixed IP Address: If your ISP has provided you with a static IP address enter it here.

Click **OK**.

- Using PPTP with a DSL Modem

Click **Internet Access Setup > PPTP** to enter the setup page. The following setup page is just for example. The exact settings should be provided by your DSL service provider.

> Quick Setup> Internet Access Setup <<Main Menu

PPTP Client Mode <<Back

PPTP Setup

PPTP Link ☒ Enable ☐ Disable

PPTP Server 10.0.0.138

ISP Access Setup

ISP Name isp_name

Username username

Password

Scheduler (1-15)

=> , , ,

ISDN Dial Backup Setup

Dial Backup Mode None

PPP Setup

PPP Authentication PAP or CHAP

☐ Always On

Idle Timeout 180 second(s)

Fixed IP ☐ Yes ☒ No (Dynamic IP)

Fixed IP Address

LAN2/WAN IP Network Settings

☐ Obtain an IP address automatically

☒ Specify an IP address

IP Address 10.0.0.150

Subnet Mask 255.0.0.0

OK

PPTP Setup

PPTP Link: Check **Enable** to enable a PPTP client to establish a tunnel to a DSL modem on the WAN interface.

PPTP Server IP Address: Specifies the IP address of the PPTP-enabled DSL modem. Refer to the user manual of the PPTP-enabled DSL modem.

ISP Access Setup

ISP Name: Enter the ISP name.

Username: Enter the ISP supplied username.

Password: Enter the ISP supplied password.

Scheduler (1-15): Enter the index of schedule profile to control the Internet access by time plan.

PPP/MP Setup

PPP Authentication: Select **PAP or CHAP** for widest compatibility.

Always On: Check to force the Internet access is always online, and you will see the **Idle Timeout** field will be blocked for input.

Idle Timeout: Idle timeout means the router will disconnect after being idle for a preset amount of time. The default is 180 seconds. If you set the time to 0, the PPP session will not terminate itself.

IP Address Assignment Method (IPCP)

Fixed IP: Check **No (Dynamic IP)** unless your ISP has provided you with a static

IP address.

Fixed IP Address: If your ISP has provided you with a static IP address, enter it here.

WAN IP Network Settings

Obtain an IP address automatically: Sets the WAN interface as a DHCP client that will ask for the IP network settings from the DHCP server or PPTP-enabled DSL modem.

Specify an IP address: If you are not sure whether there are any DHCP services on the LAN2/WAN interface, you also can manually assign an IP address to the interface. Note that the IP Address and Subnet Mask should be assigned within the same network as the PPTP-enabled DSL modem.

Click **OK**.

- Using a Static IP or multiple Static IPs with a DSL/Cable Modem

In this application, you receive a fixed public IP address or a public subnet (ie. multiple public IP addresses) from your DSL or Cable ISP. In most cases, a Cable ISP will provide a fixed public IP, while a DSL ISP will provide a public subnet. If you have a public subnet, you could choose an IP address or many IP address to assign to the WAN interface.

Click **Internet Access Setup > Static or Dynamic IP** to enter the setup page.

> Quick Setup> Internet Access Setup
<<Main Menu

Static or Dynamic IP (DHCP Client)
<<Back

<div> Access Control Broadband Access <input checked="" type="radio"/> Enable <input type="radio"/> Disable </div> <hr/> <div> ISDN Dial Backup Setup Dial Backup Mode None </div> <hr/> <div> Keep WAN Connection <input type="checkbox"/> Enable PING to keep alive PING to the IP 0.0.0.0 PING Interval 0 minute(s) </div> <hr/> <div> RIP Protocol <input type="checkbox"/> Enable RIP </div>	<div> WAN IP Network Settings <input type="radio"/> Obtain an IP address automatically Router Name vigor2200 * Domain Name * <small>* : Required for some ISPs</small> <input checked="" type="radio"/> Default MAC Address <input type="radio"/> Specify a MAC Address MAC Address: 00 . 50 . 7F : 00 . AF . C7 </div> <div> <input checked="" type="radio"/> Specify an IP address WAN IP Alias IP Address 172.16.2.57 Subnet Mask 255.255.255.0 Gateway IP Address 172.16.2.1 </div>
---	--

OK

Access Control

Broadband Access: Select **Enable** to turn on the broadband access capability.

Keep WAN Connection

Enable PING to keep alive: Check to enable PING to keep alive function. Normally, this function is for Dynamic IP environment. Here will ignore the settings.

RIP Protocol

Enable RIP: Check to turn RIP packets exchange on WAN interface. For most Internet access, you don't need to check the option.

WAN IP Network Settings

Specify an IP address: As we are using a static IP, you have to select the option to specify an IP Address, Subnet Mask, and Gateway IP Address.

Click **OK**.

If you have multiple public IPs to assign on the WAN interface. Click **WAN IP Alias**, the following windows will be pop-up. You can assign additional IPs on the page, and click **OK**.

WAN IP Alias - Microsoft Internet Explorer

WAN IP Alias

Index	Enable	Aux. WAN IP	Join NAT IP Pool
1.	v	172.16.2.57	v
2.	<input checked="" type="checkbox"/>	<input type="text" value="172"/> <input type="text" value="16"/> <input type="text" value="2"/> <input type="text" value="58"/>	<input checked="" type="checkbox"/>
3.	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="checkbox"/>
4.	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="checkbox"/>
5.	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="checkbox"/>
6.	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="checkbox"/>
7.	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="checkbox"/>
8.	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="checkbox"/>

Close

Clear All

OK

- Using a Dynamic IP (DHCP Client) with a DSL/Cable Modem

This application is mostly used by Cable ISPs. Click **Internet Access Setup > Static or Dynamic IP** to enter the setup page.

> Quick Setup> Internet Access Setup <<Main Menu

Static or Dynamic IP (DHCP Client) <<Back

Access Control

Broadband Access ☒ Enable ☐ Disable

ISDN Dial Backup Setup

Dial Backup Mode None

Keep WAN Connection

☐ Enable PING to keep alive

PING to the IP 0.0.0.0

PING Interval 0 minute(s)

RIP Protocol

☐ Enable RIP

WAN IP Network Settings

☒ Obtain an IP address automatically

Router Name *

Domain Name *

* : Required for some ISPs

☒ Default MAC Address

☐ Specify a MAC Address

MAC Address:

00 . 50 . 7F : 00 . AF . C7

☒ Specify an IP address WAN IP Alias

IP Address 172.16.2.57

Subnet Mask 255.255.255.0

Gateway IP Address 172.16.2.1

OK

Access Control

Broadband Access: Select **Enable** to turn on the broadband access capability.

Keep WAN Connection

Enable PING to keep alive: Check to enable PING to keep alive function. Normally, this function is for Dynamic IP environment. If you need to enable the function, assign a public IP address in the **PING to the IP** and a timer in the **PING Interval**.

RIP Protocol

Enable RIP: Check to turn RIP packets exchange on WAN interface. For most Internet access, you don't need to check the option.

WAN IP Network Settings

Obtain an IP address automatically: The option must be enabled.

Router Name: Depending on your Cable ISP this option may or may not be left blank. Some ISPs require this name for access authentication.

Domain Name: Depending on your Cable ISP this field may or may not be left blank.

Default MAC Address & Specify a MAC Address: These two options are mutually exclusive. Some Cable ISPs use a specific MAC address for access authentication.

tion. In such cases you need to check the **Specify a MAC Address** box and enter the MAC address in the MAC Address fields.

Click **OK** and restart the router to allow the settings to take affect.

- Configuring ISDN dial backup for broadband access

As the Vigor2200E has no ISDN interface, it does not support the ISDN dial backup function. Therefore, the following setup options will not be available for this model.

ISDN Dial Backup Setup

Dial Backup Mode:

None:

Disables the backup function.

Packet Trigger:

The backup line is disconnected until a packet from a local host triggers the router to establish a connection.

Always On:

If the broadband connection is no longer available, the backup line will automatically connect and stay always-on until the broadband connection is recovered.

For ISDN Dial Backup to function, you must create a dial backup profile. Click **Internet Access Setup > Dialing to a Single ISP** to enter the backup profile setup page.