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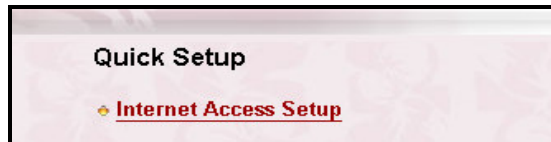
# CHAPTER 3

## Internet Access Setup

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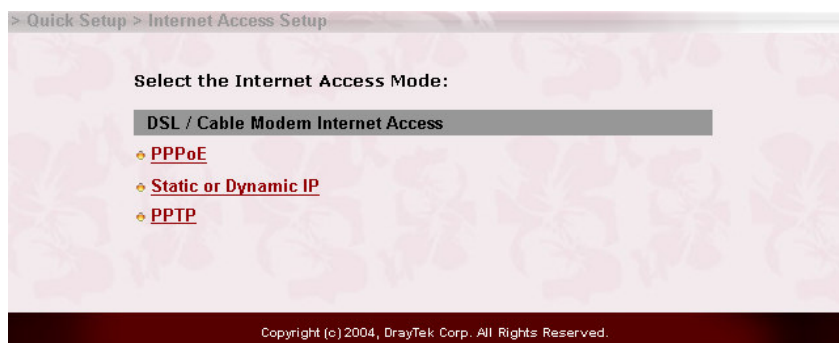
### 3.1 Introduction

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



For most users, Internet access is the primary application. The router supports the Ethernet WAN interface for Internet access. The following sections will explain more details of various broadband access setup. When you click **Internet Access Setup** within the **Quick Setup** group, the following setup page will appear.

Three modes are available for Internet Access, that is, PPPoE, PPTP, and Static/Dynamic IP.



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

**PPTP:** Some DSL service providers supply a special DSL modem (e.g. Alcatel's

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DSL modem). This kind of modem only supports the PPTP tunnel to access the Internet. In these cases, you should 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. Before you connect a broadband access device, e.g. a DSL/Cable modem, to the router, 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. They are **PPPoE Client**, **PPTP Client**, **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.

## 3.2 Configuration

### 3.2.1 Using PPPoE with a DSL Modem

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

The screenshot shows a web-based configuration page titled "PPPoE Client Mode". The page is divided into several sections:

- PPPoE Setup:** Includes a "PPPoE Link" section with radio buttons for "Enable" and "Disable" (the "Disable" option is selected). Below this is the "ISP Access Setup" section with input fields for "ISP Name", "Username", and "Password". At the bottom of this section is a "Scheduler (1-15)" field with a format like "=> [ ] , [ ] , [ ] , [ ]".
- PPP/MP Setup:** Includes "PPP Authentication" with a dropdown menu set to "PAP or CHAP". Below it is an "Always On" checkbox (unchecked). The "Idle Timeout" is set to "180 second(s)". The "IP Address Assignment Method (IPCP)" section has radio buttons for "Fixed IP" and "No (Dynamic IP)" (the "No (Dynamic IP)" option is selected). Below this is a "Fixed IP Address" input field.
- WAN physical type:** A dropdown menu set to "Auto negotiation".

An "OK" button is located at the bottom center of the form. At the very bottom of the page, there is a copyright notice: "Copyright (c) 2004, DrayTek Corp. All Rights Reserved."

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### *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**.

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### 3.2.2 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

PPTP Client Mode

**PPTP Setup**

PPTP Link  Enable  Disable

PPTP Server 10.0.0.138

**ISP Access Setup**

ISP Name Your ISP Name

Username User Name

Password ●●●●●●

Scheduler (1-15)

=> [ ] , [ ] , [ ] , [ ]

**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

**WAN physical type**

Auto negotiation

OK

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#### **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:** Specify 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.

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**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:** Set 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 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**.

### **3.2.3 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.

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Static or Dynamic IP (DHCP Client)

**Access Control**  
Broadband Access:  Enable  Disable

**Keep WAN Connection**  
 Enable PING to keep alive  
PING to the IP: 0.0.0.0  
PING Interval: 0 minute(s)

**WAN physical type**  
Auto negotiation

**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 : 63 . 11 . 03  
 Specify an IP address   
IP Address: 172.16.2.84  
Subnet Mask: 255.255.255.0  
Gateway IP Address: 172.16.2.5

OK

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Static or Dynamic IP (DHCP Client)

**Access Control**  
Broadband Access:  Enable  Disable

**Keep WAN Connection**  
 Enable PING to keep alive  
PING to the IP: 0.0.0.0  
PING Interval: 0 minute(s)

**WAN physical type**  
Auto negotiation

**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 : 63 . 11 . 03  
 Specify an IP address   
IP Address: 172.16.2.84  
Subnet Mask: 255.255.255.0  
Gateway IP Address: 172.16.2.5

OK

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### 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.

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### *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**.

Index	Enable	Aux. WAN IP	Join NAT IP Pool
1.	<input checked="" type="checkbox"/>	192.168.100.60	<input checked="" type="checkbox"/>
2.	<input type="checkbox"/>	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>	<input 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"/>

### **3.2.4 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.

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Static or Dynamic IP (DHCP Client)

**Access Control**  
Broadband Access  Enable  Disable

**Keep WAN Connection**  
 Enable PING to keep alive  
PING to the IP   
PING Interval  minute(s)

**WAN physical type**  
Auto negotiation

**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:  .  .  :  .  .   
 Specify an IP address   
IP Address   
Subnet Mask   
Gateway IP Address

OK

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### 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



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are mutually exclusive. Some Cable ISPs use a specific MAC address for access authentication. 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.