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# Internet Access Setup

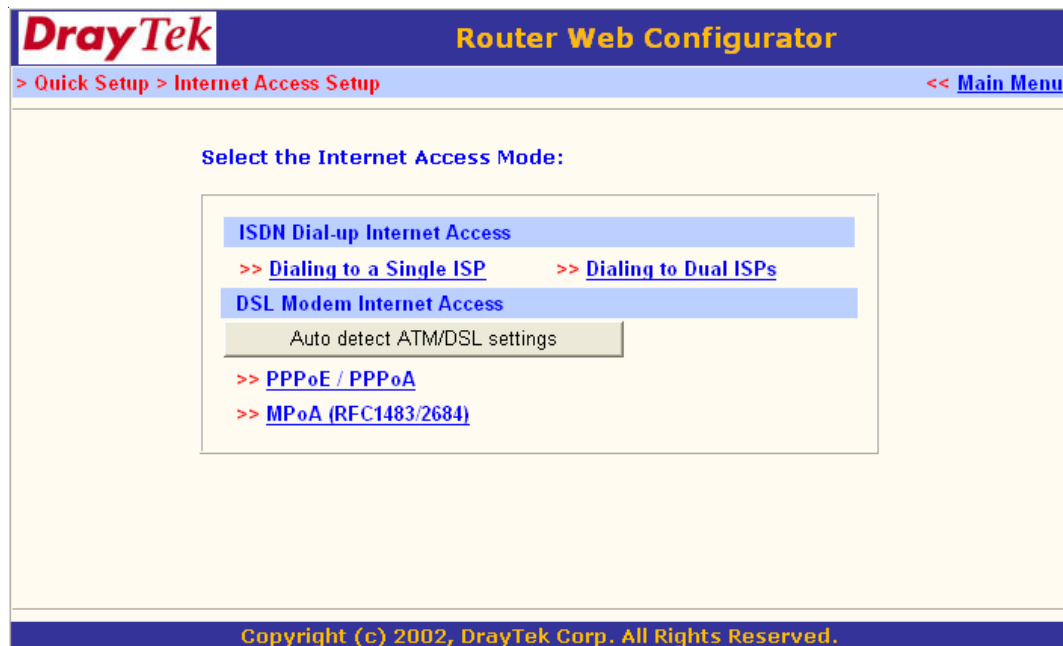
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## Introduction

In the **Quick Setup** group, you can configure the router to access the Internet with different modes (e.g. ISDN, PPPoE, PPPoA, MPoA and ADSL Access with ISDN dial backup).



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



Several methods are available for Internet Access.

## ADSL

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

**PPPoE/PPPoA :** Enter your allocated username, password and DSL parameters according to the information provided by your ISP. If you want to connect to Internet all the time, you can check 'Always On'.

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**MPoA (RFC 1483/2684):** Enter your allocated WAN IP address(or enabling DHCP client to get IP from ISP) and DSL parameters according to the information provided by your ISP.

## ISDN ( for VigorX/ VigorW users only)

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

**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.

## Configuration

### ADSL

#### Set DSL Parameters

Click on 'Internet Access Setup' on the right-hand menu. You will find two items : PPPoE/PPPoA and MPoA (RFC 1483/2684). Then You can continually enter setting menu according to the protocol which ISP assigns.

The screenshot displays the DrayTek Router Web Configurator interface. At the top, the DrayTek logo is on the left, and 'Router Web Configurator' is on the right. Below the logo, a navigation bar shows '> Quick Setup > Internet Access Setup' in red text and '<< Main Menu' in blue text. The main content area has a heading 'Select the Internet Access Mode:' in blue. Below this, there is a list of options: 'DSL Modem Internet Access' (highlighted in blue), 'Auto detect ATM/DSL settings' (in a grey box), '>> PPPoE / PPPoA' (in blue), and '>> MPoA (RFC1483/2684)' (in blue). At the bottom of the interface, a blue footer bar contains the text 'Copyright (c) 2002, DrayTek Corp. All Rights Reserved.'

## For PPPoE/PPPoA Users

Enter your allocated username, password and DSL parameters according to the information provided by your ISP. If you want to connect to Internet all the time, you can check 'Always On'.

The screenshot shows the DrayTek Router Web Configurator interface. The title bar reads "DrayTek Router Web Configurator". Below the title bar, there is a navigation bar with "> Quick Setup > Internet Access Setup" and "<< Main Menu". The main content area is titled "PPPoE / PPPoA Client Mode" with a "<< Back" link. The configuration is divided into two main sections: "PPPoE/PPPoA Client" and "ISP Access Setup".

**PPPoE/PPPoA Client** (Enable selected, Disable unselected):

- DSL Modem Settings:**
  - VPI: 0
  - VC1: 33
  - Encapsulating Type: LLC/SNAP
  - Protocol: PPPoA
  - Modulation: Multimode
- ISDN Dial Backup Setup:**
  - Dial Backup Mode: None

**ISP Access Setup:**

- ISP Name: [Empty]
- Username: T0177921
- Password: [Masked]
- PPP Authentication: PAP or CHAP
- ☒ Always On
- Idle Timeout: -1 second(s)
- IP Address From ISP:** WAN IP Alias
- Fixed IP: ☐ Yes ☒ No (Dynamic IP)
- Fixed IP Address: [Empty]

Below the IP Address From ISP section, there is a note: "\* : Required for some ISPs". Then, there are two radio buttons: ☒ Default MAC Address and ☐ Specify a MAC Address. Below these is a MAC Address field: 00 . 50 . 7F . 05 . 3A . F9. At the bottom, there is a "Scheduler (1-15)" section with four empty input fields. An "OK" button is at the bottom center. The footer reads "Copyright (c) 2002, DrayTek Corp. All Rights Reserved."

## For MPoA (RFC 1483/2684) Users

Enter your allocated WAN IP address(or enabling DHCP client to get IP from ISP) and DSL parameters according to the information provided by your ISP.

The screenshot shows the DrayTek Router Web Configurator interface. The title bar reads "DrayTek Router Web Configurator". Below the title bar, there is a navigation bar with "> Quick Setup > Internet Access Setup" and "<< Main Menu". The main content area is titled "MPoA (RFC1483/2684) Mode" with a "<< Back" link. The configuration is divided into two main sections: "MPoA (RFC1483/2684)" and "WAN IP Network Settings".

**MPoA (RFC1483/2684)** (Enable unselected, Disable selected):

- Encapsulation:** 1483 Bridged IP LLC
- DSL Modem Settings:**
  - VPI: 0
  - VC1: 33
  - Modulation: Multimode
- ISDN Dial Backup Setup:**
  - Dial Backup Mode: None
- RIP Protocol:**
  - ☐ Enable RIP

**WAN IP Network Settings:**

- ☐ Obtain an IP address automatically
- Router Name: [Empty]\*
- Domain Name: [Empty]\*
- ☒ Specify an IP address: WAN IP Alias
- IP Address: 0.0.0.0
- Subnet Mask: 255.255.255.0
- Gateway IP Address: [Empty]

Below the WAN IP Network Settings section, there is a note: "\* : Required for some ISPs". Then, there are two radio buttons: ☒ Default MAC Address and ☐ Specify a MAC Address. Below these is a MAC Address field: 00 . 50 . 7F . 05 . 3A . F9. An "OK" button is at the bottom center. The footer reads "Copyright (c) 2002, DrayTek Corp. All Rights Reserved."

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 type="checkbox"/>	172.16.2.57	<input type="checkbox"/>
2.	<input checked="" type="checkbox"/>	172.16.2.58	<input checked="" type="checkbox"/>
3.	<input type="checkbox"/>		<input type="checkbox"/>
4.	<input type="checkbox"/>		<input type="checkbox"/>
5.	<input type="checkbox"/>		<input type="checkbox"/>
6.	<input type="checkbox"/>		<input type="checkbox"/>
7.	<input type="checkbox"/>		<input type="checkbox"/>
8.	<input type="checkbox"/>		<input type="checkbox"/>

Close Clear All OK

### ***Auto detect ATM/ DSL Setting***

You can also use this function to detect ATM/ DSL setting. Please follow the instructions to operate. If your country is not on the list, it may take longer time to detect.

## **Configuring ISDN Dial backup for Broadband Access**

### **ISDN Dial Backup Setup**

**DSL Modem Settings**

VPI: 0

VCI: 33

Encapsulating Type: LLC/SNAP

Protocol: PPPoE

Modulation: Multimode

**ISDN Dial Backup Setup**

Dial Backup Mode: None

Username: \_\_\_\_\_

Password: \_\_\_\_\_

☒ Auto Detect

Idle Timeout: \_\_\_\_\_

Schedule: \_\_\_\_\_

OK

## 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.

## Internet Statics

You can know the DSL status via status monitor.

DrayTek		Router Web Configurator					
> System Management> Online Status						<<Main Menu	
System Status						System Uptime: 0:12:48	
ISDN Status							
Channel	Active Connection	TX Pkts	TX Rate	RX Pkts	RX Rate	Up Time	AOC
B1	Idle [---]	0	0	0	0	0:0:0	0
B2	Idle [---]	0	0	0	0	0:0:0	0
D	DOWN						
						>>Drop B1 >> Drop B2	
LAN Status							
IP Address		TX Packets		RX Packets			
192.168.1.1		531		592			
WAN Status							
		GW IP Addr		61.59.172.1		Drop PPPoE	
Mode	IP Address	TX Packets	TX Rate	RX Packets	RX Rate	Up Time	
PPPoE	61.59.172.145	9	5	10	3	0:00:09	
ADSL Information (ADSL Firmware Version : 41e2be2c)							
ATM Statistics		TX Blocks		RX Blocks	Corrected Blocks	Uncorrected Blocks	
		279105		278829	0	0	
ADSL Status							
Mode	State	Up Speed	Down Speed	SNR Margin	Loop Att.		
G.DMT	SHOWTIME	64000	512000	39.0	27.0		
Copyright (c) 2002, DrayTek Corp. All Rights Reserved.							

## ISDN (for VigorX/ VigorW users only)

### Connecting to a Single ISP

> Quick Setup > Internet Access Setup << Main Menu

Single ISP << Back

**ISP Access Setup**

ISP Name

Dial Number

Username

Password

☐ Require ISP callback (CBCP)

Scheduler (1-15)

=>  ,  ,  ,

**PPP/MP Setup**

Link Type

PPP Authentication

Idle Timeout  second(s)

**IP Address Assignment Method (IPCP)**

Fixed IP ☐ Yes ☒ No (Dynamic IP)

Fixed IP Address

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	
<b>Common Settings</b> 1. <input checked="" type="checkbox"/> Enable Dual ISPs Function 2. <input type="checkbox"/> Require ISP callback (CBCP)		<b>PPP/MP Setup</b> 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)	
<b>Primary ISP Setup</b> 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="password1"/> <b>IP Address Assignment Method (IPCP)</b> Fixed IP: <input type="radio"/> Yes <input checked="" type="radio"/> No (Dynamic IP) Fixed IP Address: <input type="text"/>		<b>Secondary ISP Setup</b> 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="password2"/> <b>IP Address Assignment Method (IPCP)</b> Fixed IP: <input type="radio"/> Yes <input checked="" type="radio"/> No (Dynamic IP) Fixed IP Address: <input type="text"/>	
<input type="button" value="OK"/>			