

DSL-2600U

User Manual

V 1.0

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1. OVERVIEW

1.1 ABOUT ADSL

An ADSL MODEM is a broadband Internet access device, which utilizes the high frequency segment of the phone line to transmit high-speed data without affecting the voice transmission. The frequency of the ADSL signal is higher than that of voice, so voice and ADSL signal can coexist in one line by using a splitter to insulate each from the other. ADSL data transfer adapts the asymmetry model. It supports upload transmission speed up to 1Mbps and download speed up to 8 Mbps (24Mbps for ADSL2+). ADSL is an ideal device for broadband access.

1.2 ABOUT ADSL2/2+

Transmission performance of ADSL2 is improved comparing with the first generation of ADSL. These improvements are mainly concerned with long distance, anti-line-loss, anti-noise, etc. By doubling the transmission bandwidth, ADSL2+ has implemented a downlink rate as high as 24 Mbps. Therefore, Internet applications such as synchronous transmission of multi video stream, online games and huge capacity of downloading files are made possible.

1.3 FEATURES

- 1、 Support ANSI T1.413 ISSUE 2、 ITU G.992.1 (G.DMT)、 ITU G.992.2 (G.LITE)、 ITU G992.3、 ITU G992.5
- 2、 Web-based configuration and monitoring.
- 3、 Support multiple PVCs.
- 4、 Routing function.
- 5、 NAPT、 DHCP function.

2 SPECIFICATION

2.1 INDICATOR AND INTERFACE

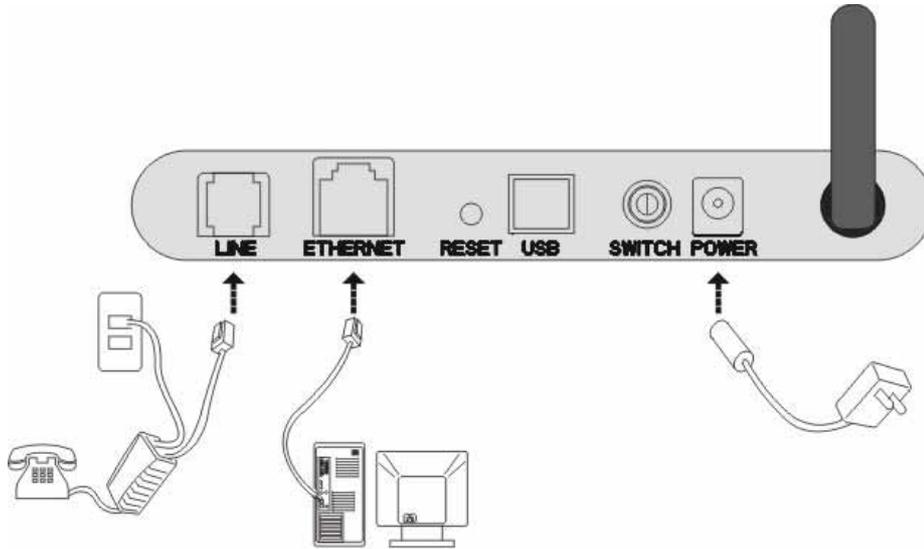


Table 2.1

ITEM	Name	State introduction
Indicator	POWER	A steady green light means the power connection works properly
	WLAN	Green, Indicates status of connection to the wireless device
	DSL	A steady green light means DSL has good sync
	INTERNET	Green, steady green means IP connected
	Ethernet	Green, Indicates status of connection to the PC network card
Interface	LINE	Connected with phone line or "ADSL" port of the splitter.
	ETHERNET	To be connected to a PC network card by a straight-through network cable, also can use a crossover cable to connect to Hub, Switch or Router.
	RST	Press the reset button and turn on the power, then keep pressing the reset button for 5 seconds. Then you can reset the modem with the default settings.
	SWITCH	To turn on / off the power.
	POWER	Connect with power adapter.

2.2 HARDWARE CONNECTION

Introduction :

- 1、 Use a telephone cord to connect the LINE port of the splitter with the RJ-11 port (the phone jack) on the wall.
- 2、 Use another telephone cord to connect the ADSL port of the splitter with the LINE port of the ADSL Modem.
- 3、 Use another telephone cord to connect the telephone set with the PHONE port of the splitter.

- 4、 Connect Ethernet port of the ADSL MODEM with 10/100BASE-T port of the computer using the network cable that comes with the modem.
- 5、 Plug in the power cord, and turn on the power.

If you do not want Internet services and telephone voice services simultaneously, please just connect the LINE port of the ADSL Modem with the RJ-11 port (the phone jack) on the wall using a telephone cord. In this case, the splitter is not necessary.

2.3 LED STATUS INDICATION

Table 2.3

Status	POWER (Green)	WLAN (Green)	DSL (Green)	INTERNET (Green)	ETHERNET (Green)
Steady light	Power on	Wireless is connected	The modem is in good connection	Connected with PC	Connected with PC network card
Flashing	/	/	In handshaking status	/	/
Fast flashing	/	Transforming data	/	/	Transforming data
Off	Power off	Wireless is disabled	Connection not set up	Not connected with PC properly	Not Connected with PC network card

3. CONFIGURATION

3.1 DEFAULT CONFIGURATION

ADSL MODEM has pre-configured with the VCI/VPI which is in common use. The default dial-up mode is bridge encapsulation. For bridge mode, no need to configure any more parameter. However, the third party dial-up software is needed for connection with the Internet.

3.2 COMPUTER CONFIGURATION

The default IP address for ADSL MODEM is: **192.168.1.1**; The Subnet Mask is : **255.255.255.0**. Users can configure ADSL MODEM through an Internet browser. ADSL MODEM can be used as gateway and DNS server; users need to set the computer's TCP/IP protocol as follow:

- 1、 Set the computer IP address at same segment of ADSL MODEM, such as set the IP address of the network card to one of the "192.168.1.2" ~ "192.168.1.254".
- 2、 Set the computer's gateway the same IP address as the ADSL Modem's.
- 3、 Set computer's DNS server the same as ADSL Modem's IP address or that of an effective DNS server.

3.3 ADSL MODEM CONFIGURATION

3.3.1 LOG IN

Open the browser; input **http://192.168.1.1** at the address column. Press "Enter" key then the entry dialog box will show up as Figure 3.1. Input Username: **admin**, Password: **admin** (capital sensitive), then press Enter.

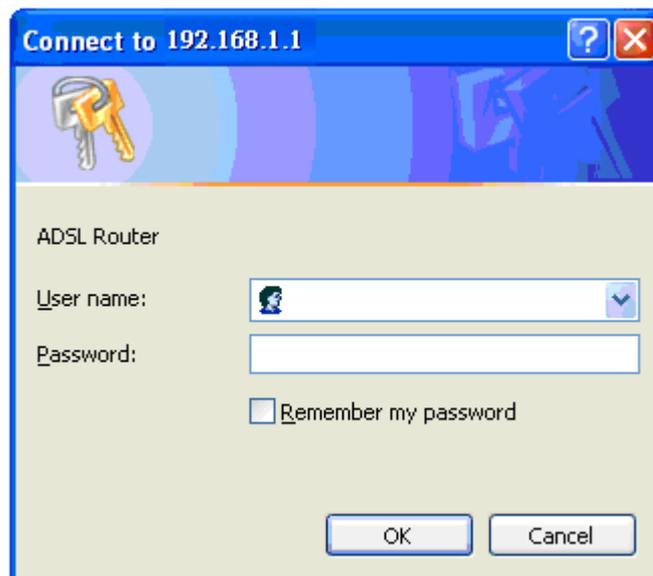


Figure 3.1

3.3.2 SAVE SETTING

After getting through each page for parameters setting, click “Save” or “Save apply” to store the value in ADSL MODEM. Briefly, we named “Save”.

Note :

When you save the settings, the web page will be refreshed slowly, please wait it until finished.

After you save the settings, it will take effect until next reboot.

Some settings only take effect after rebooting the router.

3.4 WAN CONFIGURATION

If the configuration is bridge encapsulation, there is no need to configure any more parameters. Only need to use the third party dial-up software to connect the Internet.

Totally, this router supports : PPPoA、PPPoE、MER、IPoA、Bridging. For detail configuration information, please check the following configuration guide.

3.4.1 CONFIGURATION GUIDE

Click “WAN” on the left page, enter into “Wide Area Network (WAN) Setup” configuration page.

Note: At most we can have eight connections. If you need to add a new connection, please delete or modify an existing connection.

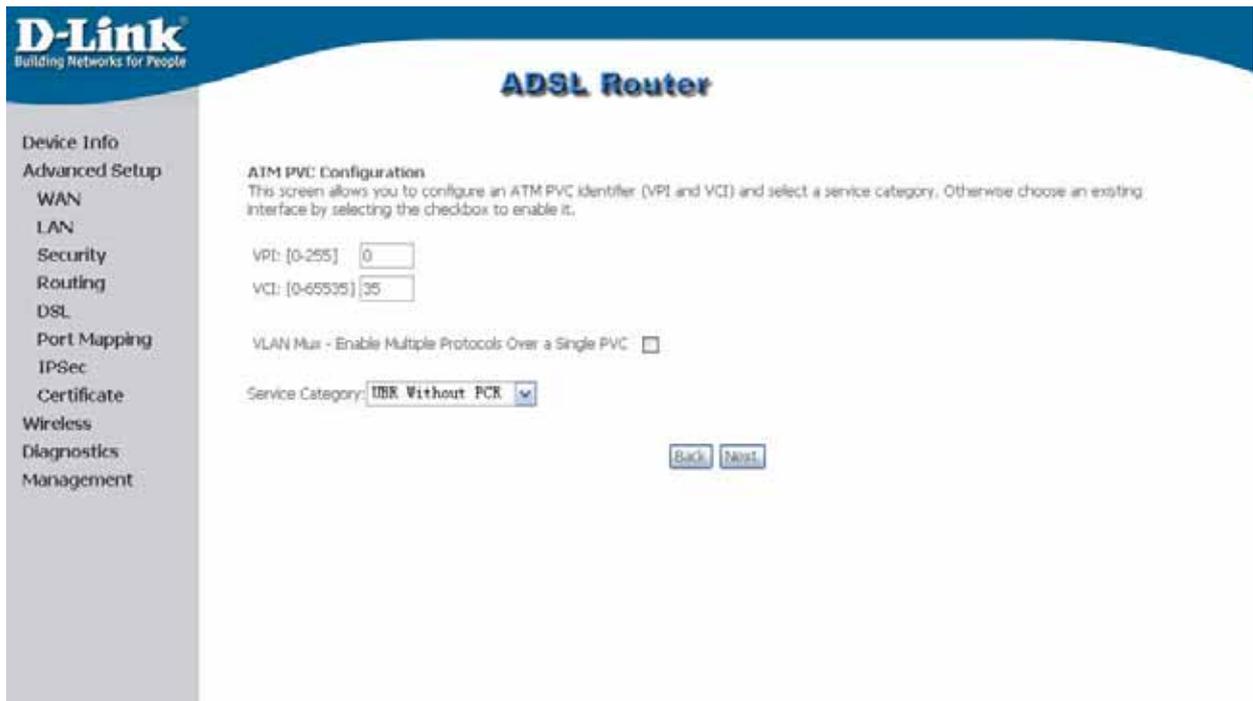
The screenshot shows the 'Wide Area Network (WAN) Setup' page. It includes a table with the following data:

VPI/VCI	VLAN Mux	Con. ID	Category	Service	Interface	Protocol	Igmp	QoS	State	Remove	Edit
0/32	Off	1	UBR	br_0_32	nas_0_32	Bridge	N/A	Disabled	Enabled	<input type="checkbox"/>	Edit
8/35	Off	1	UBR	br_8_35	nas_8_35	Bridge	N/A	Disabled	Enabled	<input type="checkbox"/>	Edit
0/35	Off	1	UBR	br_0_35	nas_0_35	Bridge	N/A	Disabled	Enabled	<input type="checkbox"/>	Edit
8/81	Off	1	UBR	br_8_81	nas_8_81	Bridge	N/A	Disabled	Enabled	<input type="checkbox"/>	Edit
14/24	Off	1	UBR	br_14_24	nas_14_24	Bridge	N/A	Disabled	Enabled	<input type="checkbox"/>	Edit
0/100	Off	1	UBR	br_0_100	nas_0_100	Bridge	N/A	Disabled	Enabled	<input type="checkbox"/>	Edit

Below the table are buttons for 'Add', 'Remove', and 'Save/Reboot'.

Figure 3.2

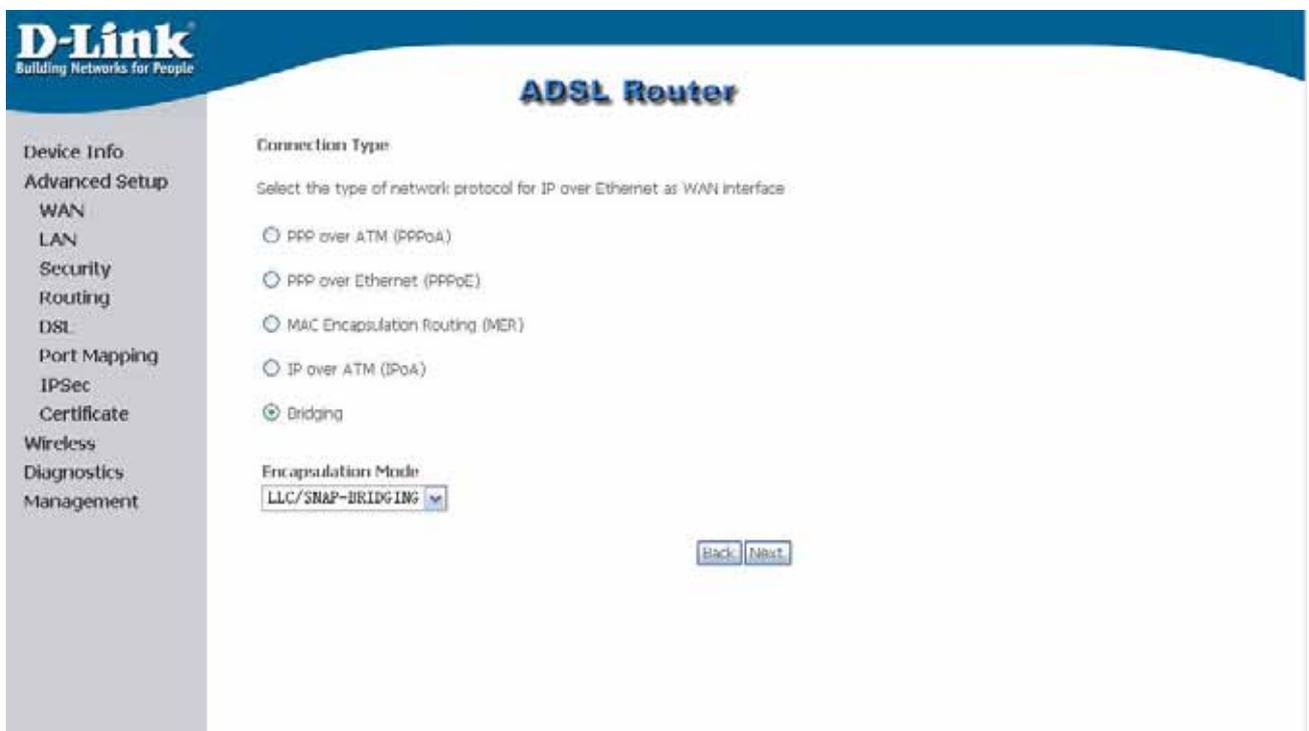
Click on the next connection which you want modify. Press “Edit” button, enter the configure guide, as Figure 3.3



The screenshot shows the 'ADSL Router' configuration interface. On the left is a navigation menu with options: Device Info, Advanced Setup, WAN, LAN, Security, Routing, DSL, Port Mapping, IPsec, Certificate, Wireless, Diagnostics, and Management. The main content area is titled 'ADSL Router' and contains the 'ATM PVC Configuration' section. Below the title, there is a descriptive text: 'This screen allows you to configure an ATM PVC identifier (VPI and VCI) and select a service category. Otherwise choose an existing interface by selecting the checkbox to enable it.' There are two input fields: 'VPI: [0-255]' with the value '0' and 'VCI: [0-65535]' with the value '35'. Below these is a checkbox for 'VLAN Mux - Enable Multiple Protocols Over a Single PVC' which is unchecked. A 'Service Category' dropdown menu is set to 'DMR Without PCR'. At the bottom right of the configuration area are 'Back' and 'Next' buttons.

Figure 3.3

- The value for VPI/VCI is assigned by your ISP. After inputting the PVC value, press “Next” into “Connection Type”. As Figure 3.4.



The screenshot shows the 'ADSL Router' configuration interface. On the left is a navigation menu with options: Device Info, Advanced Setup, WAN, LAN, Security, Routing, DSL, Port Mapping, IPsec, Certificate, Wireless, Diagnostics, and Management. The main content area is titled 'ADSL Router' and contains the 'Connection Type' section. Below the title, there is a descriptive text: 'Select the type of network protocol for IP over Ethernet as WAN interface'. There are five radio button options: 'PPP over ATM (PPPoA)', 'PPP over Ethernet (PPPoE)', 'MAC Encapsulation Routing (MER)', 'IP over ATM (IPoA)', and 'Bridging'. The 'Bridging' option is selected. Below these is an 'Encapsulation Mode' dropdown menu set to 'LLC/SNAP-BRIDGING'. At the bottom right of the configuration area are 'Back' and 'Next' buttons.

Figure 3.4

The Modem supports five ADSL protocol modes. Choose the protocol which is appointed by ISP and PVC encapsulation, click “Next” enter to the protocol configure. Below, we introduce the configuraion of the five protocol modes.

- PPP over ATM (PPPoA)
 - MAC Encapsulated Routing (MER)
 - Bridging
 - PPP over Ethernet (PPPoE)
 - IP over ATM (IPoA)
- Some connection lines need to confirm the LLC or VC, if you can't confirm, please don't modify the default value or ask your ISP.

3.4.2 RFC1483 BRIDGE CONFIGURATION

Select the Bridging mode. Then press “Next” to specify the Service Name, and select the “Enable Bridge Service” as Figure 3.5.

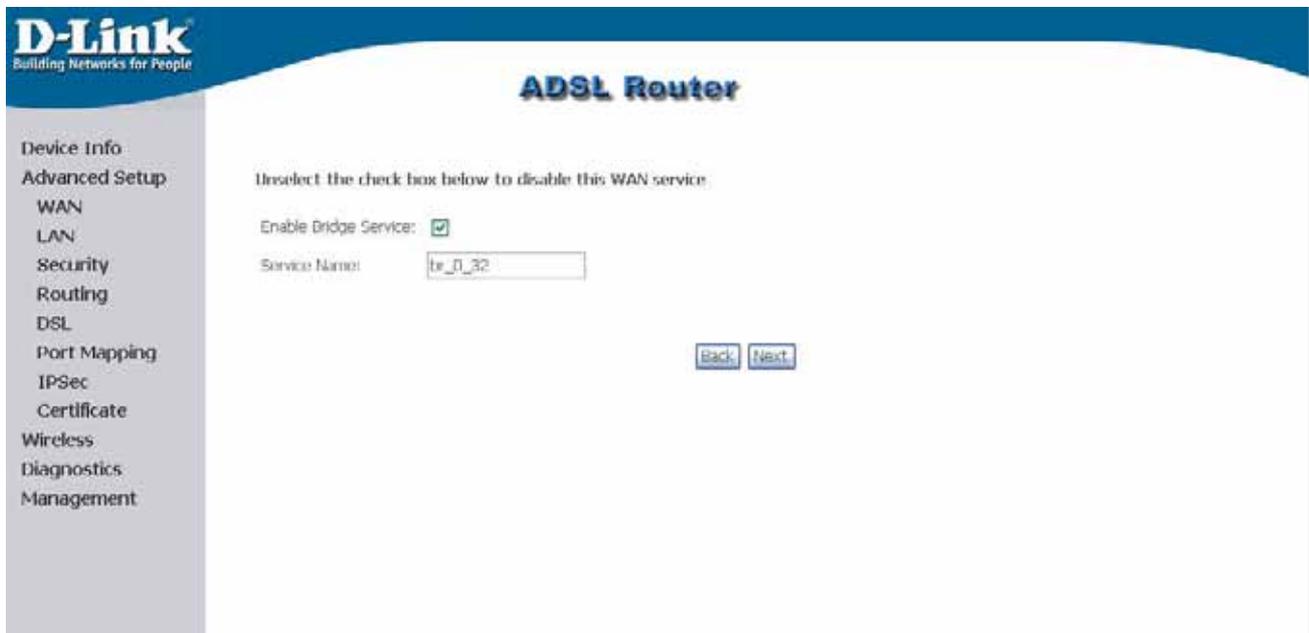


Figure 3.5

Press “Next” to enter into “WAN configuration”, click “save” to save configuration, if you need to modify the parameter, click “back” as Figure 3.6.

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WAN Setup - Summary

Make sure that the settings below match the settings provided by your ISP.

VPI / VCI:	0 / 35
Connection Type:	Bridge
Service Name:	br_0_35
Service Category:	UBR
IP Address:	Not Applicable
Service State:	Enabled
NAT:	Disabled
Firewall:	Disabled
IGMP Multicast:	Not Applicable
Quality Of Service:	Disabled

Click "Save" to save these settings. Click "Back" to make any modifications.
NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.

Figure 3.6

Note : When you use bridge mode, please close “DHCP SERVER”, the result as Figure 3.7

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Local Area Network (LAN) Setup

Configure the DSL Router IP Address and Subnet Mask for LAN interface. Save button only saves the LAN configuration data. Save/Reboot button saves the LAN configuration data and reboots the router to make the new configuration effective.

IP Address:

Subnet Mask:

Enable IGMP Snooping

Disable DHCP Server

Enable DHCP Server

Start IP Address:

End IP Address:

Leased Time (hour):

Enable DHCP Server Relay

DHCP Server IP Address:

Configure the second IP Address and Subnet Mask for LAN interface

Figure 3.7

3.4.3 PPPOE CONFIGURATION

PPPoE is also known as RFC 2516. It is a method of encapsulating PPP packets over Ethernet.

PPPoA is also known as RFC2364 and named as Peer to Peer Protocol over ATM. As PPPoE, it also has all the features of PPP. Although it's based on ATM protocol, the setting of all the other parameters is similar with PPPoE. So we only introduce PPPoE in detail here.

In Figure 3.4, select PPP over Ethernet (PPPoE), press "Next" entering the configuring interface, as Figure 3.8.

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PPP Username and Password

PPP usually requires that you have a user name and password to establish your connection. In the boxes below, enter the user name and password that your ISP has provided to you.

PPP Username:

PPP Password:

PPPoE Service Name:

Authentication Method:

Manual connect

Dial on demand (with idle timeout timer)

Inactivity Timeout (minutes) [1-4320]:

PPP IP extension

Advanced DMZ

Non DMZ IP Address:

Non DMZ Net Mask:

Use Static IP Address

IP Address:

Retry PPP password on authentication error

Enable PPP Debug Mode

Bridge PPPoE Frames Between WAN and Local Ports (Default Enabled)

Figure 3.8

- PPP Username: Your account from ISP to access Internet.
- PPP Password: Input the password assigned by your ISP.
- PPPoE server Name: Server name of network ISP. No need to set.
- Authentication Method: Authentication mode of network ISP. Default is AUTO.
- Dial on demand: When this mode is selected, the connection that has no traffic within assigned disconnect timeout (e.g. 1 minute) will be automatically disconnected. The connection will be activated again when traffic arrives. This function is advantageous for users who are charged with online time. It should be noticed that some programs automatically link to Internet. Computer will send data to network when infected by virus. Connection will not be disconnected under these data streams.

- Inactivity Timeout: When “Dial on demand” is selected, this input box indicates that after how long the connection will be disconnected in the absence of traffic. If the value is 0, connection will not be disconnected.

Press “Next” when configuration is finished. The following operation is same with Figure 3.5. Notice that PPPoE mode does not work until the modem is reset.

3.4.4 STATIC ADDRESS

In Figure3.4, select MAC Encapsulation Routing (MER), press “Next”, and the configuration can be queried from your ISP, the result as Figure3.9.

The screenshot shows the D-Link ADSL Router configuration interface. The left sidebar contains a navigation menu with the following items: Device Info, Advanced Setup, WAN, LAN, Security, Routing, DSL, Port Mapping, IPSec, Certificate, Wireless, Diagnostics, and Management. The main content area is titled "WAN IP Settings" and includes the following text: "Enter information provided to you by your ISP to configure the WAN IP settings. Notice: DHCP can be enabled for PVC in MER mode or IP over Ethernet as WAN interface if 'Obtain an IP address automatically' is chosen. Changing the default gateway or the DNS effects the whole system. Configuring them with static values will disable the automatic assignment from DHCP or other WAN connection. If you configure static default gateway over this PVC in MER mode, you must enter the IP address of the remote gateway in the 'Use IP' address'. The 'Use WAN interface' is optional."

The configuration options are as follows:

- Obtain an IP address automatically
- Use the following IP address:
 - WAN IP Address:
 - WAN Subnet Mask:
 - Advanced DMZ
- Obtain default gateway automatically
- Use the following default gateway:
 - Use IP Address:
 - Use WAN Interface:
- Obtain DNS server addresses automatically
- Use the following DNS server addresses:
 - Primary DNS server:
 - Secondary DNS server:

At the bottom right of the configuration area, there are two buttons: "Back" and "Next".

Figure 3.9

3.5 WIRELESS CONFIGURATION

Press “**Wireless**” on the top of web pages to enter wireless section. You can select to configure wireless setup, security and management.

The screenshot shows the D-Link ADSL Router web interface. The top navigation bar includes "Device Info", "Advanced Setup", and "Wireless". The "Wireless" section is expanded, showing "Basic", "Security", "MAC Filter", "Wireless Bridge", "Advanced", "Station Info", "Diagnostics", and "Management". The "Basic" configuration page is active, titled "Wireless -- Basic". It contains the following fields and options:

- Enable Wireless
- Hide Access Point
- SSID:
- BSSID: 00:11:22:33:44:55
- Country:
- Enable Wireless Guest Network
- Guest SSID:

A "Save/Apply" button is located at the bottom right of the configuration area.

3.5.1 WIRELESS SETUP

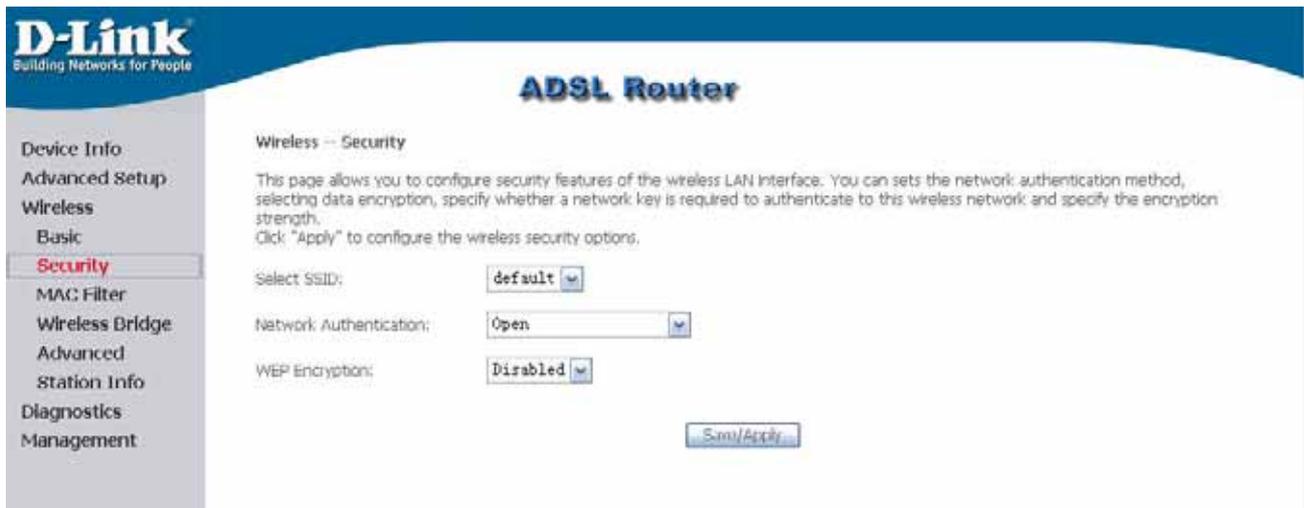
Click “**Basic**” on the left menu to setup basic wireless parameters. In default, check “Enable Wireless” box to launch wireless AP.

- **SSID (Service Set Identifier):** The mobile users cannot access WLAN until setting their SSID as the same value of the wireless ADSL. The SSID value of the ADSL is “default”
- **Hidden Access Point:** If checked, wireless station will no see SSID of the ADSL.

3.5.2 WIRELESS SECURITY

Press “**Security**” on the left menu to construct wireless security. You can select to configure WEP encryption, Shared, 802.1x, WPA, and WPA2 authentication.

- **WEP Encryption**
Select “Enabled” of the WEP encryption list. You can enter WEP encryption page.
Encryption Strength: Key length: 128bits or 64bits.
Network Key 1-4: Up to four keys that are in form of hex digitals could be set. Mobile users can’t access the AP if they haven’t set the same key as AP. For 64bits and 128bits keys, you should input 10 and 26 hexadecimal digitals or 5 and 13 ASCII characters respectively. Every two digitals should be compared with others by a space character. For example: “7890ABCDEF” (hexadecimal digitals) or “QWERT” (ASCII characters) for a key length of 64bits.



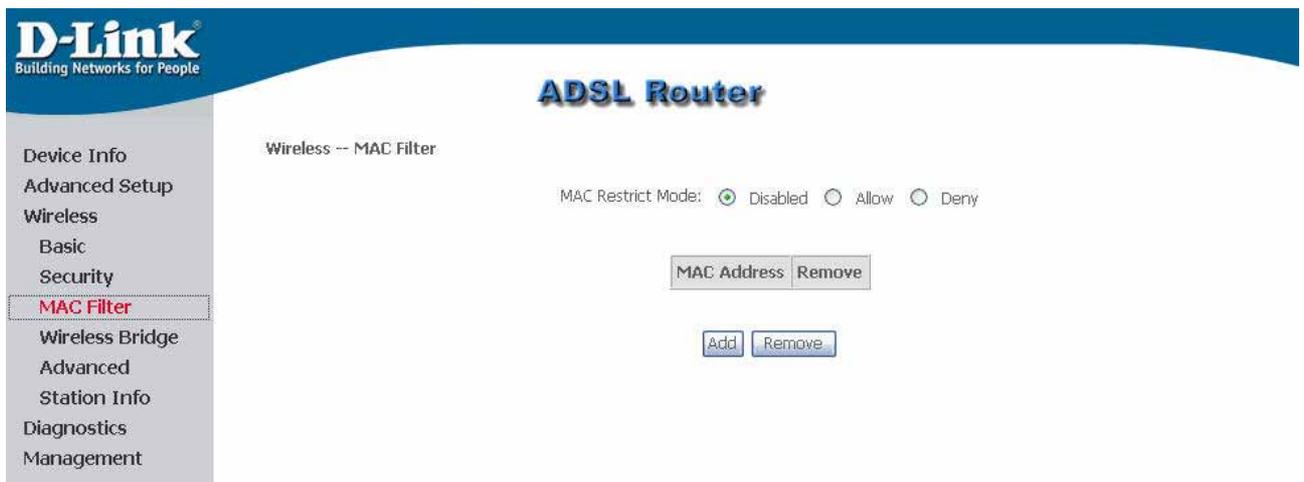
- 802.1x Authentication
Select "802.1x" to enter 802.1x authentication page.
The 802.1x authentication needs a Radius server in LAN. In this page, you can input Radius server IP address, port number and secret key.

Network Authentication:	<input type="text" value="802.1X"/>
RADIUS Server IP Address:	<input type="text" value="0.0.0.0"/>
RADIUS Port:	<input type="text" value="1812"/>
RADIUS Key:	<input type="text"/>

3.5.3 WIRELESS MAC FILTER

In fact, the Access List function is just like MAC address filtering and selected to permit or forbid access of wireless station with specified MAC address.

Method: select "Allow" or "Deny" mode, and click "Add" button, and input MAC address which you want to allow or deny.



Notice: You only can select one of allow mode or deny mode.

4. OTHER CONFIGURATION

4.1 LAN CONFIGURATION

Configuration of Modem's IP address and password

4.1.1 CONFIGURATION OF MODEM'S IP ADDRESS

As a network device, ADSL Modem has its own IP address and MAC address. The factory sets the MODEM, at a default IP address of 192.168.1.1 and subnet mask of 255.255.255.0. The user can configure these addresses through the "LAN" on "Configuration" like this:

For example, change IP address to "10.10.10.10". Click "LAN", input "IP address": 10.10.10.10, then "subnet mask": 255.0.0.0, the result is as Figure 4.1, press "save".

The screenshot shows the "ADSL Router" configuration page. On the left is a navigation menu with options: Device Info, Advanced Setup, WAN, LAN, Security, Routing, DSL, Port Mapping, IPSec, Certificate, Wireless, Diagnostics, and Management. The "LAN" option is selected. The main content area is titled "Local Area Network (LAN) Setup". It contains the following fields and options:

- IP Address: 10.10.10.10
- Subnet Mask: 255.0.0.0
- Enable IGMP Snooping
- Disable DHCP Server
- Enable DHCP Server
 - Start IP Address: 10.10.10.11
 - End IP Address: 10.10.10.254
 - Leased Time (hour): 24
- Enable DHCP Server Relay
 - DHCP Server IP Address: [empty field]
- Configure the second IP Address and Subnet Mask for LAN interface

At the bottom, there are three buttons: "View Reserved IP Address List", "Save", and "Save/Reboot".

Figure 4.1

Note : If you change IP address, it will take effect after you reboot the modem. You must use the new IP address to login.

4.1.2 DHCP CONFIGURATION

- click " LAN "
- click " Enable DHCP Server " ;
- Define the "Start IP address" and the "End IP address" of DHCP server (for example, from 10.10.10.11 to 10.10.10.254).
- Input the value of lease (Measured by the second, 0 indicates permanently valid).

As Figure 4.2, open DHCP server, computer will set the IP Address of network card with one of the address 10.10.10.11 ~ 10.10.10.254.



Disable DHCP Server
 Enable DHCP Server
Start IP Address: 10.10.10.11
End IP Address: 10.10.10.254
Leased Time (hour): 24

Figure 4.2

Note : *When you use the DHCP Server, please pay attention to having multi-DHCP Server in one LAN.*

4.2 PASSWORD CONFIGURATION

When you configure ADSL MODEM through an Internet browser, the system requires user name and password to validate access permission. The factory sets the modem at a default username of “**admin**” and the password of “**admin**”. The username is unchanged. You can enter the “password” on Configuration column to change the password.

Attention: please remember the password after change, otherwise you will not be able to change configuration after saving setting

5. TROUBLESHOOTING

5.1 UNABLE TO ACCESS INTERNET

5.1.1 CHECK THE LINE AND THE DEVICE

- 1、 Check the indicator of power supply is on, if not, Make sure the connection of power supply is correct; Make sure the output of power supply is correct; Make sure the switch of power supply is turned on ;
- 2、 Check the indicator of PC is on, if not, Make sure the connection of cable and network adapter; Make sure that the correct cable is used;
- 3、 Check the LINK LED to see if it is twinkling. If no fast twinkling is observed within 3 minutes, please check whether phone line has been correctly placed; whether ADSL separator is correctly used. If multiple extensions have been installed, make sure that the separator is installed prior to the junction box of phone line. If the above items are confirmed and still no fast twinkling of WAN LED is observed, call the ISP to query whether ADSL service has been provided on your line;
- 4、 Check the LINK LED to see whether it is unable to change status from fast twinkling to always light, or whether it changes status to fast twinkling after sometime of always light. If these phenomena occur constantly, please contact your ISP with a demand to check lines and signal quality;

If there is no problem in the above items, the line and the device shall be working. Problems may come from your computer configuration or device configuration.

5.1.2 CHECK YOUR CONFIGURATION

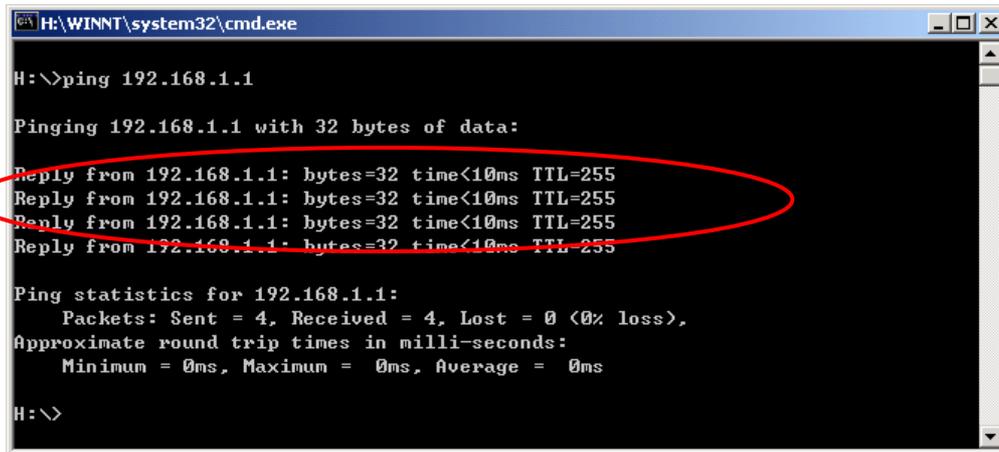
We explain here the configuration of PPPOE using Windows 2000 operation system as an example. For other operation systems the process is similar.

- 1、 Enter the device manager to check if Ethernet adapter is correctly installed. If any problem exists, please re-installed it;
- 2、 Check the configuration of Ethernet adapter in PC. Try to manually set IP address that is in band 192.168.1.x without conflict. See 3.2;
- 3、 Try to run command “ping 192.168.1.1” on command line mode. If the response returns “time out”, please check Ethernet connection and IP settings;
- 4、 If this modem is reachable, try to run ping with a known outer IP, e.g. the DNS server IP of ShangHai Online: “ping 202.96.209.133”.
 - If ping is reachable, there shall be no problems in the modem. Please see step 5;
 - If ping is not reachable, see step 6 and check if the configuration is correct.
- 5、 Please try to ping a certain outer URL, e.g. “ping www.google.com”.
 - If ping is reachable, there shall be no problems in the network settings. Please check the settings of the PC terminal, e.g. whether the security level is too high, or whether anti-virus firewall is installed;
 - If ping is not reachable, check the DNS setting of Ethernet adapter. See 3.2.

Note 1 : The precondition is that LAN settings in the modem has not been modified.

Note 2 : We usually start command line mode in Windows 2000 as follows: click on the “RUN” item of Windows Start Menu, input characters “cmd” in the input box popped up with an “Enter”. The window subsequently popped up is the command line window.

Note 3 : The returned values of ping command in the following format show the standard of “reachable”



```
H:\WINNT\system32\cmd.exe
H:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<10ms TTL=255

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

H:\>
```

Figure 5.1

6、 If ping of the modem is reachable but ping of the outer fixed IP is unreachable, attention should be concentrated upon device settings. Please enter the configuring interface following the instructions in this manual.

- (1) Check first the number of connections. If more than one connection exists, for troubleshooting , delete unused connections and remain the one connection you are using.
- (2) Check the connection to see whether correct “type” is selected. It’s normal to choose login type of PPPoE. When you use PPPoE to login, the following information should be provided: VPI and VCI, which can be queried from your ISP, user name and password.
- (3) Then make sure that “using NAT” and “default gateway” have been selected with a tick. Check whether “connect on demand” has been selected with a tick. If it is selected, the connection is activated only when traffic to outer networks arrives. If not selected, check “keep connection”, which should be set to 0 if you demand to keep connection

Make sure that the above parameters are saved after configuration. Internet is now available since the configuration is properly done.