



User Manual

ADSL 2+ Modem with Ethernet Router

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General Information

The D-Link DSL-2540B is an ADSL2+ router offering the convenience of 4 LAN ports for additional computers. This user manual provides you with a simple and easy-to-understand format to install and configure your router.

Package Contents



ADSL2+ Modem with Ethernet Router



12VDC, 1A DC CEC-compliant switching power adapter



RJ-11 telephone cable



RJ-45 Ethernet cable



Installation CD-ROM



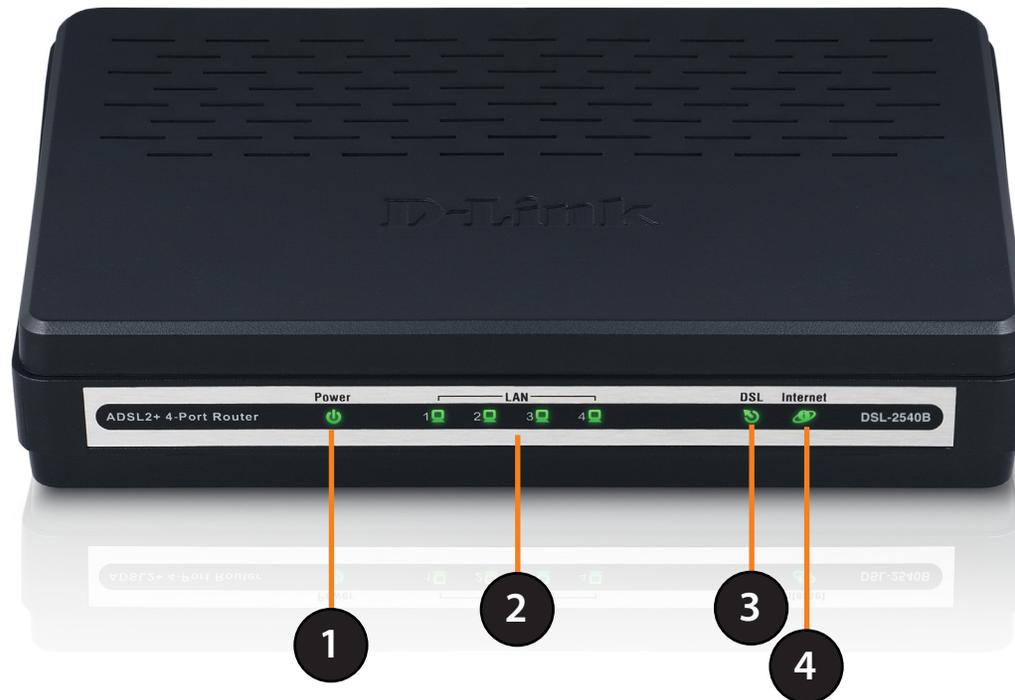
QIG

Note: Using a power supply with a different voltage rating than the one included with the DSL-2540B will cause damage and void the warranty for this product.

Important Safety Instructions

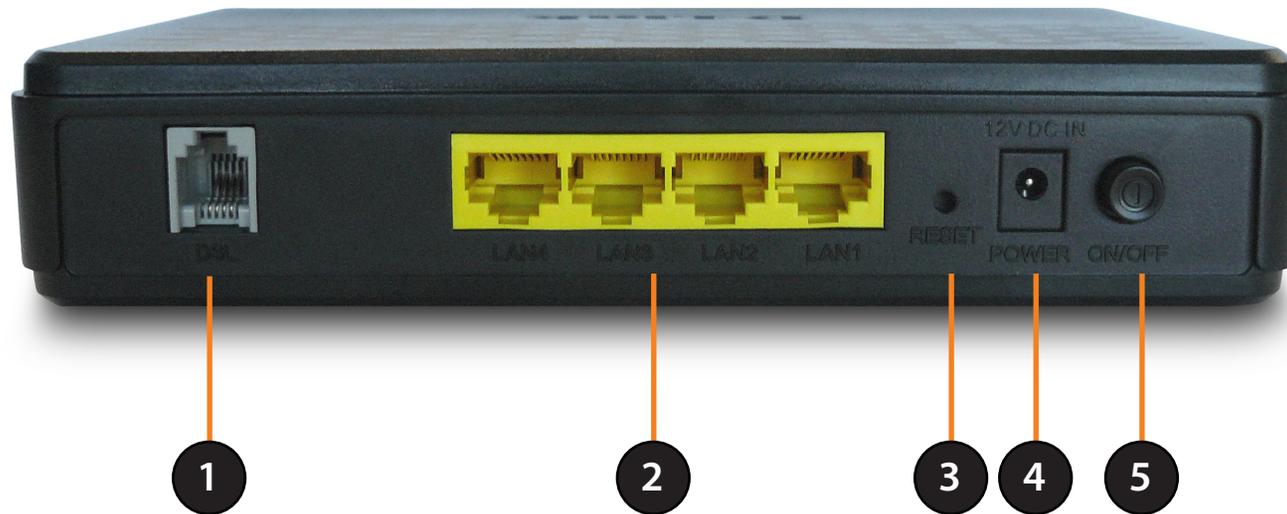
- Place your router on a flat surface close to the cables in a location with sufficient ventilation.
- To prevent overheating, do not obstruct the ventilation openings of this equipment.
- Plug this equipment into a surge protector to reduce the risk of damage from power surges and lightning strikes.
- Operate this equipment only from an electrical outlet with the correct power source as indicated on the adapter.
- Do not open the cover of this equipment. Opening the cover will void any warranties on the equipment.
- Unplug equipment first before cleaning. A damp cloth can be used to clean the equipment. Do not use liquid/aerosol cleaners or magnetic/static cleaning devices.
- To reduce the risk of fire, use only No. 26 AWG (or a larger diameter/smaller AWG) RJ-11 telephone cable.

Front Panel View



1	Power LED	<ul style="list-style-type: none"> • A solid green light indicates the unit is powered on. • A red light indicates a malfunction.
2	LAN LEDs	<ul style="list-style-type: none"> • A solid light indicates a connection to an Ethernet-enabled computer on ports 1-4. This LED blinks during data transmission.
3	DSL LED	<ul style="list-style-type: none"> • A solid light indicates the DSL is synchronized. • A flashing LED indicates the modem is attempting to synchronize with the DSL provider.
4	Internet LED	<ul style="list-style-type: none"> • A solid green light indicates that the modem has an IP address and is connected to the Internet. • A red light indicates that the modem does not have an IP address or authentication has failed. • No light indicates that an ADSL connection is not present or the modem is in bridge mode.

Rear Panel View



1	DSL Line	<ul style="list-style-type: none"> Connect to an active telephone line (RJ-11).
2	LAN Ports (1-4)	<ul style="list-style-type: none"> Connect Ethernet devices such as computers, switches, and hubs.
3	Reset	<ul style="list-style-type: none"> Pressing the Reset button for 5 seconds restores the modem to its original factory default settings.
4	Power Receptor	<ul style="list-style-type: none"> Receptor for the supplied power adapter.
5	ON/OFF	<ul style="list-style-type: none"> Press this button to turn the unit on or off.

Installing the Router

Connect the ADSL and Telephone Lines

- Connect an RJ-11 cable between the wall phone jack and the ADSL port on the rear panel of the router.

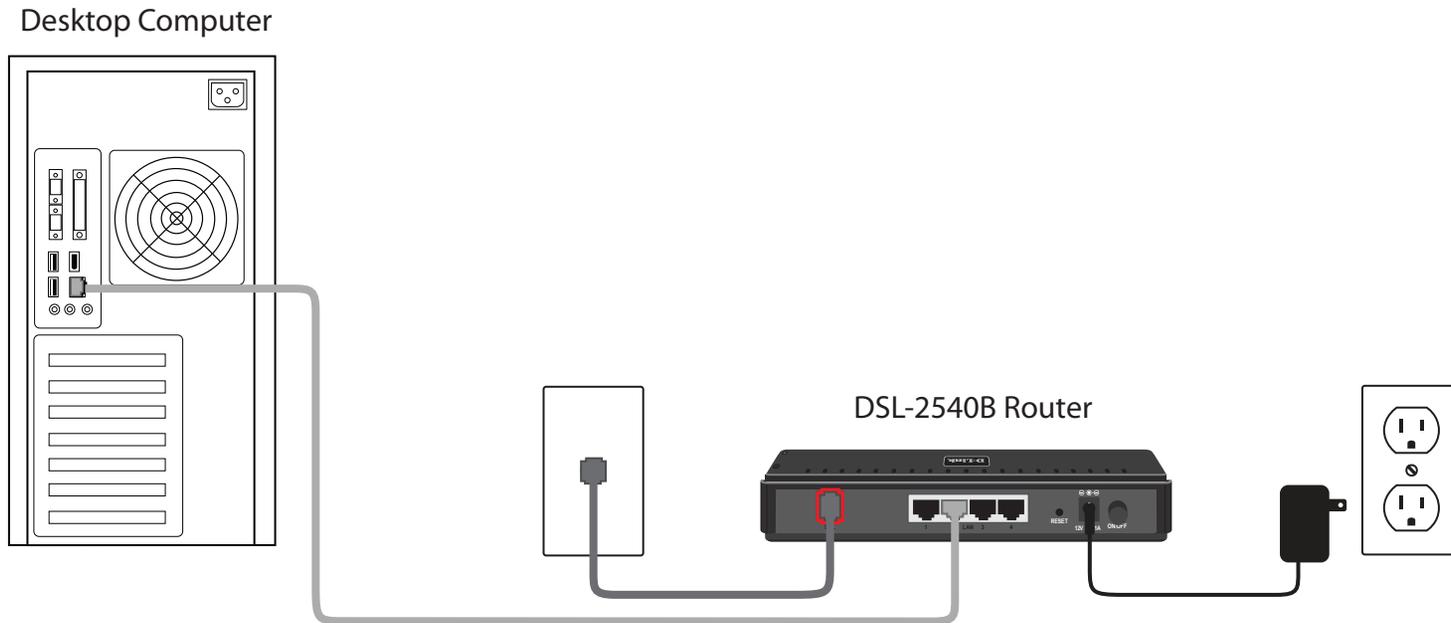
Connect the PC to the Router

- To use the Ethernet connection, connect the Ethernet cable from the computer directly to the router. Connect one end of the Ethernet cable to the port labeled LAN on the back of the router and attach the other end to the Ethernet port of your computer.
- If your LAN has more than one computer, you can attach one end of an Ethernet cable to a hub or a switch and the other to the Ethernet port (labeled LAN) on the router. Note that either a crossover or straight-through Ethernet cable can be used. The router automatically recognizes the type of connection that is required.

Connect the Power Adapter

- Complete the process by connecting the supplied 12VAC, 1A power adapter to the POWER connector on the back of the device and plug the adapter into a wall outlet or power strip. Then turn on and boot up your PC and any LAN devices, such as hubs or switches, and any computers connected to them.

Installation Diagram



Configuring Your Computer

Prior to accessing the router through the LAN port, note the following necessary configurations:

- Your PC's TCP/IP address: 192.168.1.x (where "x" is any number between 2 and 254)
- The router's default IP address: 192.168.1.1
- Subnet mask: 255.255.255.0

Below are the procedures for configuring your computer. Follow the instructions for the operating system that you are using.

Windows® XP

1. In the Windows taskbar, click on the **Start** button then go to **Control Panel** and then click **Network Connections**.
2. In the **Network Connections** window, right click on the **Local Area Connection** icon and click on **Properties**.
3. Listed in the **Local Area Connection** window are the installed network components. Make sure the box for Internet Protocol (TCP/IP) is checked and then click on **Properties**.
4. In the Internet Protocol (TCP/IP) Properties dialog box, click on the radio buttons labeled **Obtain an IP address automatically** and **Obtain DNS server address automatically**.
5. Click on **OK** twice to save your changes and then close the Control Panel.

Mac

These are instructions for configuring your Mac OS X operating system

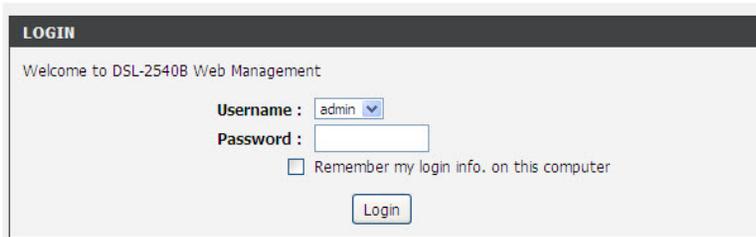
1. In the Mac OS X Dock, click on the **System Preferences** icon.
2. Under **Internet & Network**, click **Network**. In the **Show** menu, select **Built-in Ethernet** or Ethernet (Depending on your Mac OS version.)
3. Click the **TCP/IP** tab.
4. In the Configure menu, select **Using DHCP**.
5. Click **Apply** Now and Save if your computer prompts you to save changes.

Log In To The Router

This section will explain how to log in to your router using the following steps:

1. Launch your web browser.
2. Enter the URL `http://192.168.1.1` in the address bar and press **Enter**.

A login screen like the one below will be displayed after you connect to the user interface.



Note: Use *admin/admin* as default for username and password.

- The admin account can perform all functions (username / password: **admin / admin**).

Note: Passwords can be changed at any time.

3. Enter your user name and password, and then click **OK** to display the user interface.

Note: This manual has been prepared using the admin user name.

Setup

This section will show you how to configure your new D-Link wireless router using the web-based configuration utility. Please prepare your DSL account information provided by your Internet Service Provider (ISP).

Setup Wizard

To quickly configure your router, click **Setup Wizard**.

The screenshot displays the web-based configuration utility for a D-Link DSL-2540B. At the top, it shows 'Product Page: DSL-2540B' and 'Firmware Version: BCM-3.10L.NA.20100514'. The D-Link logo is prominently displayed. Below the logo is a navigation menu with tabs for 'DSL-2540B', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' tab is selected, and a sub-menu on the left lists 'Wizard', 'Internet Setup', 'Local Network', 'Time and Date', and 'Logout'. The main content area is titled 'SETTING UP YOUR INTERNET' and contains the following text:

There are two ways to set up your Internet connection. You can use the Web-based Internet Connection Setup Wizard or you can manually configure the connection. Please make sure you have your ISP's connection settings first if you choose manual setup.

INTERNET CONNECTION WIZARD

You can use this wizard for assistance and quick connection of your new D-Link Router to the Internet. You will be presented with step-by-step instructions in order to get your Internet connection up and running. Click the button below to begin.

[Setup Wizard](#)

Note: Before launching the wizard, please ensure you have correctly followed the steps outlined in the Quick Installation Guide included with the router.

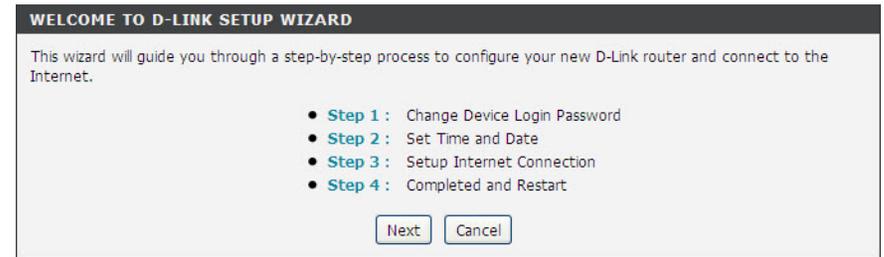
On the right side, there is a 'Helpful Hints...' section with the following text:

First time users are recommended to run the [Setup Wizard](#). Click the [Setup Wizard](#) button and you will be guided step by step through the process of setting up your ADSL connection.

If you consider yourself an advanced user or have configured a router before, click [Setup->Internet Setup](#) to input all the settings manually.

[More...](#)

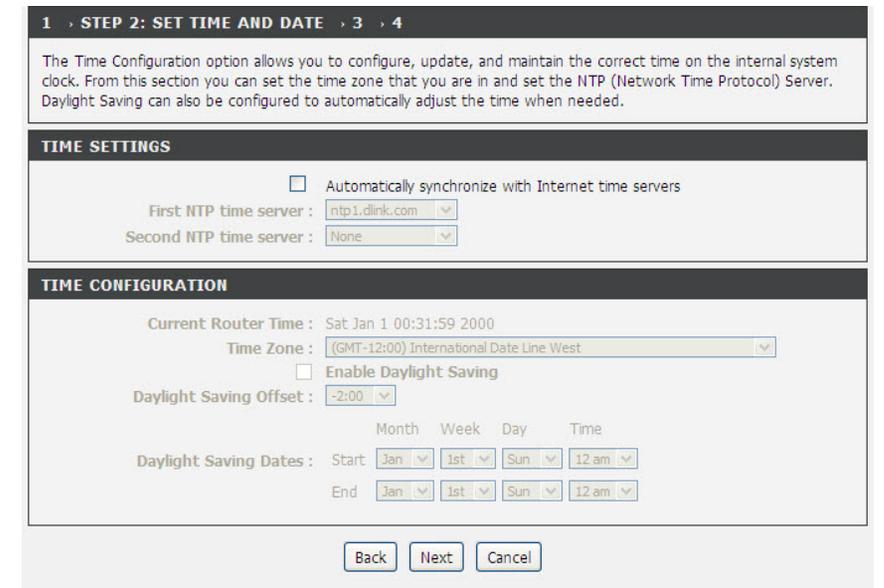
Click **Next** to continue.



Create a new password and click **Next** to continue or click **Skip** to keep your current password.



In this section you may configure, update, and maintain the correct time for the internal system clock. Set the time zone that you are in and set the NTP (Network Time Protocol) Server. Select the time zone from the drop-down menu and then click **Next** to continue.



Select your Country and Internet Service provider from the drop-down menus. If your Country or ISP is not on the list, please select "**others**". Refer to your DSL account information and select the proper Protocol and Connection Type. Next, enter your ISP assigned VPI and VCI settings.

Alternatively, you may check the box labeled Enable DSL Auto-Scan. Click **Next** to continue.

1 > 2 > STEP 3: SETUP INTERNET CONNECTION > 4

Please select your Country and ISP (Internet Service Provider) from the list below. If your Country or ISP is not in the list, please select "Others".

Country : (Click to Select) ▼
Internet Service Provider : (Click to Select) ▼
Protocol : (Click to Select) ▼
Connection Type : (Click to Select) ▼
VPI : (Enter a number) (0-255)
VCI : (Enter a number) (32-65535)

Enable DSL Auto-scan

Back Next Cancel

Click **Connect** to save your settings. Once the router is finished rebooting, click **Continue**. Please allow 1-2 minutes to connect.

Close your browser window and reopen it to test your Internet connection. It may take a few tries to initially connect to the Internet.

To log out of the router's user interface at any time during the setup, click on the **Logout** button. A confirmation screen will appear confirming that you really want to log out.

LOGOUT

Logging out will close the browser.

Logout

Internet Setup

Internet Setup is an advanced version of the Setup Wizard. If you want to manually configure your DSL connection, consider going through this advanced setup for a more comprehensive configuration. Configure the DSL settings as provided by your ISP.

Click on the **Add** button if you want to add a new connection for the Wide Area Network (WAN) interface and to proceed to the ATM PVC Configuration screen. The ATM PVC Configuration screen allows you to configure your Internet connection.

Find your account settings from your ISP before you proceed.

The screenshot shows the D-Link DSL-2540B Internet Setup web interface. At the top, it displays 'Product Page: DSL-2540B' and 'Firmware Version: BCM-3.10L.NA.20100514'. The D-Link logo is prominently displayed. Below the logo, there are navigation tabs: 'DSL-2540B', 'SETUP' (selected), 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. On the left side, there is a 'Wizard' menu with options: 'Internet Setup' (selected), 'Local Network', 'Time and Date', and 'Logout'. The main content area is titled 'INTERNET SETUP' and contains instructions: 'Choose "Add", "Edit", or "Delete" to configure WAN interfaces. Choose "Finish" to apply the changes and reboot the system.' Below this, there is a 'WAN SETUP' section with a table:

	VPI/VCI	Con. ID	Service Name	Protocol	IGMP	QoS	State	Status	Action
<input type="checkbox"/>	0/35	1	ppoe_0_0_35	PPPoE	Disabled	Disabled	Enabled	Up	Down

At the bottom of the WAN SETUP section, there are four buttons: 'Add', 'Edit', 'Delete', and 'Finish'.

ATM PVC Configuration

VPI/VCI: These values are required for all DSL connection types and are provided by your ISP.

Service Category: Use the default setting unless otherwise instructed by your ISP.

Peak Cell Rate: This value depends on the Service Category selected. Please check if your ISP requires this value.

Sustainable Cell Rate: This value depends on the Service Category is selected. Please check if your ISP requires this value.

Maximum Burst Size: This value depends on the Service Category selected. Please check if your ISP requires this value.

Enable QoS: Use the default setting unless otherwise instructed by your ISP. For more information about QoS, see the Quality of Service section in this user manual.

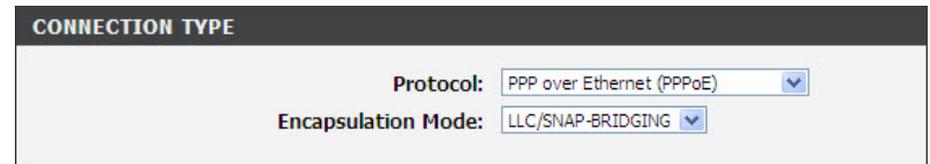
ATM PVC CONFIGURATION
VPI: (0-255)
VCI: (32-65535)
Service Category: UBR Without PCR ▾
Peak Cell Rate: (cells/s)
Sustainable Cell Rate: (cells/s)
Maximum Burst Size: (cells)
Enable Quality Of Service:

Connection Type

This field shows the types of network protocols and encapsulation modes that can be configured.

Connection Type: Select the connection type that your ISP has instructed to use.

- PPP over ATM (PPPoA)
- PPP over Ethernet (PPPoE)
- MAC Encapsulation Routing (MER)/DHCP
- IP over ATM (IPoA)
- Bridging



The screenshot shows a configuration window titled "CONNECTION TYPE". It contains two dropdown menus. The first is labeled "Protocol:" and is set to "PPP over Ethernet (PPPoE)". The second is labeled "Encapsulation Mode:" and is set to "LLC/SNAP-BRIDGING".

PPPoE, MER (also referred to as DHCP) and Bridging are the most common connection types in North America. To set up a PPPoE, MER or Bridging connection, follow the instructions on the following pages of this user manual. PPPoA and IPoA are more widely utilized in other regions. Setup for PPPoA and IPoA are similar to PPPoE and MER, respectively.

Encapsulation Mode: Use the default setting unless otherwise instructed by your ISP.

Note: *These settings are ISP dependant. For information regarding proper configuration, contact your ISP.*

PPP over Ethernet (PPPoE)

PPP Username: Enter your username as provided by your ISP.

PPP Password: Enter your password as provided by your ISP.

Confirm PPP Password: Retype the password you entered above.

Authentication Method: Use the default setting unless otherwise instructed by your ISP.

Dial on Demand (With Idle Timeout Timer): Allows you to manually connect to the Internet so you are not permanently connected. Idle timeout timer is included.

MTU: Use the default setting of 1492 unless otherwise instructed by your ISP.

PPP IP extension: Used by some ISPs. Check with your ISP to see if it is required.

Keep Alive: Keeps you connected to your ISP even when no activity is present for a certain period of time.

Use Static IP Address: Select if your ISP has provided you with a static IP address. If selected, you will be asked to enter the static IP address.

Obtain default gateway automatically: This is the default option. If your ISP has provided you with a static default gateway, select **Use the following default gateway**. Select **Use IP Address** and enter the default gateway that your ISP has provided. Alternately, you may choose to select **Use WAN Interface**.

The screenshot displays the configuration interface for PPPoE. It is divided into two main sections: 'CONNECTION TYPE' and 'PPP USERNAME AND PASSWORD'. In the 'CONNECTION TYPE' section, the 'Protocol' is set to 'PPP over Ethernet (PPPoE)' and the 'Encapsulation Mode' is 'LLC/SNAP-BRIDGING'. The 'PPP USERNAME AND PASSWORD' section includes fields for 'PPP Username', 'PPP Password', and 'Confirm PPP Password'. The 'Authentication Method' is set to 'AUTO'. There are checkboxes for 'Dial On Demand (With Idle Timeout Timer)', 'PPP IP Extension', 'Keep Alive', and 'Use Static IP Address'. The 'Inactivity Timeout' is set to 30 minutes, and the 'MTU Size' is 1492. At the bottom, there are radio buttons for 'Obtain default gateway automatically.' (which is selected), 'Use the following default gateway:', 'Use Remote WAN IP Address:', and 'Use WAN Interface:'. The 'Use WAN Interface' option is currently selected, with 'br_0_0_35/' shown in the dropdown menu.

Network Address Translation Settings (PPPoE)

Enable NAT: Select if you would like to share your internet connection with multiple computers. The router will share your DSL connection with wired and wirelessly connected computers.

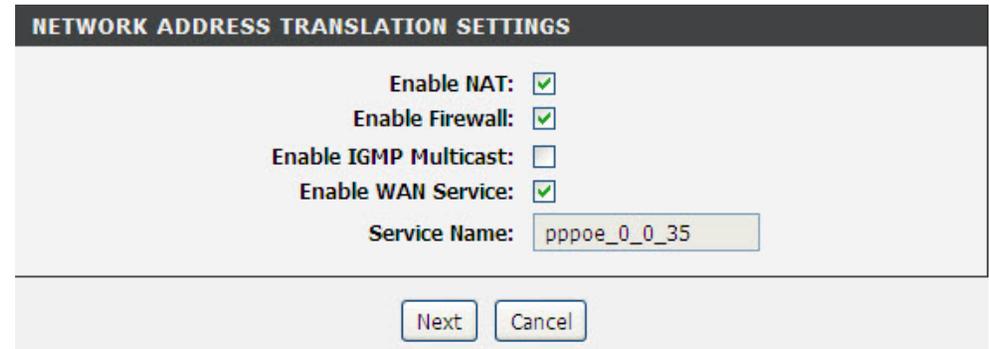
Enable Firewall: Select if you would like to utilize the firewall to help protect you from unwanted internet threats.

Enable IGMP Multicast: Use the default setting unless otherwise instructed by your ISP

Enable WAN Service: This option is Enabled by default. Deselecting this option will cause your DSL connection to be disabled.

Service Name: Enter any name that will help you identify your connection. This field will not affect your connection.

Click **Next**.



NETWORK ADDRESS TRANSLATION SETTINGS

Enable NAT:

Enable Firewall:

Enable IGMP Multicast:

Enable WAN Service:

Service Name:

Next Cancel

Setup Summary (PPPoE)

Confirm the settings on this page match the settings provided by your ISP. To make any changes, click **Back**.

If your settings are correct, click **Apply**.

Note: After clicking **Apply**, you will have to reboot the router in order to activate your connection

WAN

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

Click "Apply" 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.

SETUP - SUMMARY

VPI / VCI:	0 / 35
Connection Type:	PPPoE
Service Name:	pppoe_0_0_35
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Disabled

MAC Encapsulation Routing or DHCP

This page allows you to configure your MER/DHCP connection.

Obtain an IP address automatically: This is the default option. If your ISP has provided you with a static IP address, select **Use the following IP address.** Enter the IP address and Subnet Mask that your ISP has provided.

Obtain default gateway automatically: This is the default option. If your ISP has provided you with a static default gateway, select **Use the following default gateway.** Select **Use Remote WAN IP Address** and enter the default gateway that your ISP has provided. Alternately, you may choose to select **Use WAN Interface.**

Obtain DNS server addresses automatically: This is the default option. If your ISP has provided you with static DNS server addresses, select **Use the following DNS server addresses.** Enter the Preferred and Alternate (if available) DNS server addresses that your ISP has provided.

CONNECTION TYPE

Protocol: MAC Encapsulation Routing (MER) ▼

Encapsulation Mode: LLC/SNAP-BRIDGING ▼

WAN IP SETTINGS

Obtain an IP address automatically

Use the following IP address:

WAN IP Address:

WAN Subnet Mask:

Obtain default gateway automatically

Use the following default gateway:

Use Remote WAN IP Address:

Use WAN Interface: br_0_0_35/ ▼

Obtain DNS server addresses automatically

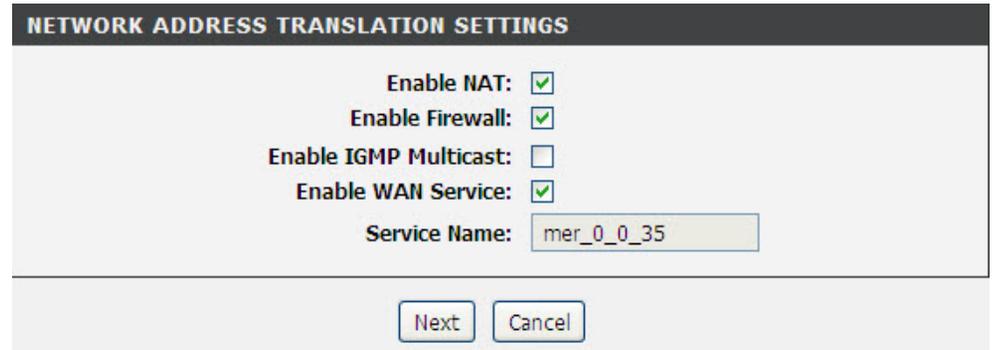
Use the following DNS server addresses:

Preferred DNS server:

Alternate DNS server:

Network Address Translation Settings (MER/DHCP)

Enable NAT: Select if you would like to share your internet connection with multiple computers. The router will share your DSL connection with wired and wirelessly connected computers.



NETWORK ADDRESS TRANSLATION SETTINGS

Enable NAT:

Enable Firewall:

Enable IGMP Multicast:

Enable WAN Service:

Service Name: mer_0_0_35

Next Cancel

Enable Firewall: Select if you would like to utilize the firewall to help protect you from unwanted internet threats.

Enable IGMP Multicast: Use default setting unless otherwise instructed by your ISP.

Enable WAN Service: This option is Enabled by default. Deselecting this option will cause your DSL connection to be disabled.

Service Name: Enter any name that will help you identify your connection. This field will not affect your connection.

Click **Next**.

Setup Summary (MER/DHCP)

Confirm the settings on this page match the settings provided by your ISP. To make any changes, click **Back**.

If your settings are correct, click **Apply**.

Note: After clicking Apply, you will have to reboot the router in order to activate your connection.

WAN	
Make sure that the settings below match the settings provided by your ISP.	
Click "Apply" 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.	
SETUP - SUMMARY	
VPI / VCI:	0 / 35
Connection Type:	MER
Service Name:	mer_0_0_35
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Disabled

Bridging

Enable WAN Service: This option is Enabled by default. Deselecting this option will cause your DSL connection to be disabled.

Service Name: Enter any name that will help you identify your connection. This field will not affect your connection.

Click **Next**.

The screenshot displays a configuration window for setting up a bridging connection. It is divided into two main sections: 'CONNECTION TYPE' and 'BRIDGE SETTINGS'. In the 'CONNECTION TYPE' section, the 'Protocol' is set to 'Bridging' and the 'Encapsulation Mode' is set to 'LLC/SNAP-BRIDGING'. In the 'BRIDGE SETTINGS' section, the 'Enable Bridge Service' checkbox is checked, and the 'Service Name' is 'br_0_0_35'. At the bottom of the window, there are 'Next' and 'Cancel' buttons.

CONNECTION TYPE	
Protocol:	Bridging
Encapsulation Mode:	LLC/SNAP-BRIDGING

BRIDGE SETTINGS	
Enable Bridge Service:	<input checked="" type="checkbox"/>
Service Name:	br_0_0_35

Next Cancel

Setup Summary (Bridging)

Confirm the settings on this page match the settings provided by your ISP. To make any changes, click **Back**.

If your settings are correct, click **Apply**.

Note: After clicking **Apply**, you will have to reboot the router in order to activate your connection.

WAN

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

Click "Apply" 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.

SETUP - SUMMARY

VPI / VCI:	0 / 35
Connection Type:	Bridge
Service Name:	br_0_0_35
Service Category:	UBR
IP Address:	Not Applicable
Service State:	Enabled

Local Network

You can configure the DSL Modem IP address and Subnet Mask for the LAN interface. This section is optional and you do not need to change any of the settings here to get your network up and running.

Click the **Apply** button to save the LAN configuration data. The router will automatically reboot to apply the new configuration.

Product Page: DSL-2540B Site Map Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B **SETUP** ADVANCED MAINTENANCE STATUS HELP

Wizard
Internet Setup
Local Network
Time and Date
Logout

LOCAL NETWORK

This section allows you to configure the local network settings of your router. Please note that this section is optional and you should not need to change any of the settings here to get your network up and running.

ROUTER SETTINGS

Use this section to configure the local network settings of your router. The Router IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.

Router IP Address:
Subnet Mask:

Configure the second IP Address and Subnet Mask for LAN interface
IP Address:
Subnet Mask:

DHCP SERVER SETTINGS (OPTIONAL)

Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.

Enable DHCP Server
DHCP IP Address Range: to
DHCP Lease Time: (hours)

DHCP RESERVATIONS LIST

Status	Computer Name	MAC Address	IP Address

NUMBER OF DYNAMIC DHCP CLIENTS : 1

Computer Name	MAC Address	IP Address	Expire Time
129	00:1F:29:98:50:E9	192.168.1.2	23 hours, 24 minutes, 43 seconds Reserve

Helpful Hints...
The IP address of your router is the same IP address you will use to access the web management interface of your router.
If you already have a DHCP server on your network or are using static IP addresses on all the devices on your network, click on [Disable DHCP Server](#) to disable this feature.
If you have devices on your network that should always have fixed IP addresses, add a Static DHCP for each such device.
[More...](#)

Time and Date

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. In this section, you can set the time zone that you are in and set the **NTP (Network Time Protocol) Server**. Daylight Saving can also be configured to automatically adjust the time when needed.

The screenshot displays the D-Link DSL-2540B web interface. At the top, it shows 'Product Page: DSL-2540B' and 'Firmware Version: BCM-3.10L.NA.20100514'. The main navigation bar includes 'DSL-2540B', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar contains 'Wizard', 'Internet Setup', 'Local Network', 'Time and Date' (highlighted), and 'Logout'. The main content area is titled 'TIME AND DATE' and contains the following sections:

- TIME AND DATE**: A descriptive paragraph explaining the purpose of the section.
- TIME SETTINGS**: Includes a checked checkbox for 'Automatically synchronize with Internet time servers', a 'First NTP time server' dropdown set to 'ntp1.dlink.com', and a 'Second NTP time server' dropdown set to 'None'.
- TIME CONFIGURATION**: Shows 'Current Router Time' as 'Sat Jan 1 00:38:18 2000', a 'Time Zone' dropdown set to '(GMT-12:00) International Date Line West', an unchecked 'Enable Daylight Saving' checkbox, and a 'Daylight Saving Offset' dropdown set to '+1:00'. Below this, 'Daylight Saving Dates' are configured with 'Start' and 'End' fields, each containing dropdowns for Month, Week, Day, and Time.

At the bottom of the configuration area are 'Apply' and 'Cancel' buttons. On the right side, there is a 'Helpful Hints...' section with text about timekeeping and a 'More...' link.

Advanced Setup

This section is an advanced version of the quick setup. If you want to make specific configurations to your router such as Port Forwarding, Parental Controls, DNS, Quality of Service (QoS), etc., consider going through this advanced setup for a more comprehensive configuration.

Port Forwarding

Port forwarding allows you to direct incoming traffic from the WAN side to the internal server with a private IP address on the LAN side.

The screenshot shows the D-Link DSL-2540B Advanced Setup interface. At the top, it displays 'Product Page: DSL-2540B' and 'Firmware Version: BCM-3.10L.NA.20100514'. The main navigation bar includes 'DSL-2540B', 'SETUP', 'ADVANCED' (selected), 'MAINTENANCE', 'STATUS', and 'HELP'. On the left, a sidebar lists various settings: 'Port Forwarding' (selected), 'DMZ', 'Parental Control', 'Filtering Options', 'DNS', 'Network Tools', 'MAC Clone', 'Routing', 'Schedules', and 'Logout'. The main content area is titled 'PORT FORWARDING' and contains the following text: 'Port Forwarding allows you to direct incoming traffic from the WAN side (identified by protocol and external port) to the internal server with a private IP address on the LAN side. The internal port is required only if the external port needs to be converted to a different port number used by the server on the LAN side. A maximum of 32 entries can be configured.' Below this is a 'PORT FORWARDING SETUP' section with a table for configuration:

Server Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Server IP Address	Schedule Rule	Remote IP
<input type="button" value="Add"/>								

On the right side of the main content area, there is a 'Helpful Hints...' section with the following text: 'Check the Application Name drop down menu for a list of predefined applications. If you do not see your application listed you can still define a new rule. Select a schedule for when the rule will be enabled. If you do not see the schedule you need in the list of schedules, go to the [Advanced -> Schedules](#) screen and create a new schedule. [More...](#)'

Select the **Service Name** and enter the IP server Address, then click **Apply**.

PORT FORWARDING SETUP

Remaining number of entries that can be configured: 32

Server Name :
 Select a Service : (Click to Select)
 Custom Server :

Schedule : Always [View Available Schedules](#)

Server IP Address : 192.168.1.

External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>

Port Triggering

If you configure port triggering for a certain application, you must determine a so-called trigger port and the protocol (TCP or UDP) that this port uses. You then assign the public ports that are to be opened for the application to this trigger port. You can select known Internet services or manually assign ports or port blocks.

Product Page: DSL-2540B Site Map Firmware Version: BCM-3-10L-NA_20100623

D-Link

DSL-2540B **SETUP** **ADVANCED** MAINTENANCE STATUS HELP

Port Forwarding
Port Triggering
 DMZ
 Parental Control
 Filtering Options
 DNS
 Network Tools
 MAC Clone
 Routing
 Schedules
 Logout

PORT TRIGGERING

Some applications require that specific ports in the Router's firewall be opened for access by the remote parties. Port Trigger dynamically opens up the "Open Ports" in the firewall when an application on the LAN initiates a TCP/UDP connection to a remote party using the "Triggering Ports". The Router allows the remote party from the WAN side to establish new connections back to the application on the LAN side using the "Open Ports".

Some applications such as games, video conferencing, remote access applications and others require that specific ports in the Router's firewall be opened for access by the applications. You can configure the port settings from this screen by selecting an existing application or creating your own (Custom application) and click "Apply" to add it.

A maximum of 32 entries can be configured.

Application		Trigger		Open		Schedule Rule
Name	Protocol	Port Range	Port Range	Port Range	Port Range	
		Start	End	Start	End	
Add						

PORT TRIGGERING

Remaining number of entries that can be configured :32

Application Name :
 Select an application : (Click to Select) ▼
 Custom application :

Schedule : Always ▼ [View Available Schedules](#)

Trigger Port Start	Trigger Port End	Trigger Protocol	Open Port Start	Open Port End	Open Protocol
		TCP ▼			TCP ▼
		TCP ▼			TCP ▼
		TCP ▼			TCP ▼
		TCP ▼			TCP ▼
		TCP ▼			TCP ▼
		TCP ▼			TCP ▼
		TCP ▼			TCP ▼
		TCP ▼			TCP ▼
		TCP ▼			TCP ▼
		TCP ▼			TCP ▼

Apply Cancel

Helpful Hints...

Use this feature if you are trying to execute one of the listed network applications and it is not communicating as expected.

Check the Application Name drop down menu for a list of predefined applications.

Select a schedule for when the rule will be enabled. If you do not see the schedule you need in the list of schedules, go to the [Advanced -> Schedules](#) screen and create a new schedule.

[More...](#)

DMZ Host

The demilitarized military zone (DMZ) host feature allows one local computer to be exposed to the Internet. This function is applicable for:

- Users who want to use a special-purpose Internet service, such as an on-line game or video conferencing program, that is not in the port forwarding list and for which no port range information is available.
- Users who are not concerned with security and wish to expose one computer to all services without restriction.

Note: A DMZ host is not protected by the firewall and may be vulnerable to attack. This may also put other computers in the home network at risk. Hence, when designating a DMZ host, you must consider the security implications and take the appropriate precautions.

You can set up a client in your local network as a DMZ host. Your device then forwards all incoming data traffic from the Internet to this client. You can, for example, operate your own Web server on one of the clients in your local network and make it accessible to Internet users. As the exposed host, the local client is directly visible to the Internet and therefore particularly vulnerable to attacks (for example, hacker attacks). Enable this function only when necessary (for example, to operate a Web server) and when other functions (for example, port forwarding) are inadequate. In this case, you should take appropriate measures for the clients concerned.

Note: Only one PC per public IP address can be setup as an exposed host.

DMZ

The DSL Router will forward IP packets from the WAN that do not belong to any of the applications configured in the Port Forwarding table to the DMZ host computer.

Enter the computer's IP address and click "Apply" to activate the DMZ host.

Clear the IP address field and click "Apply" to deactivate the DMZ host.

DMZ HOST

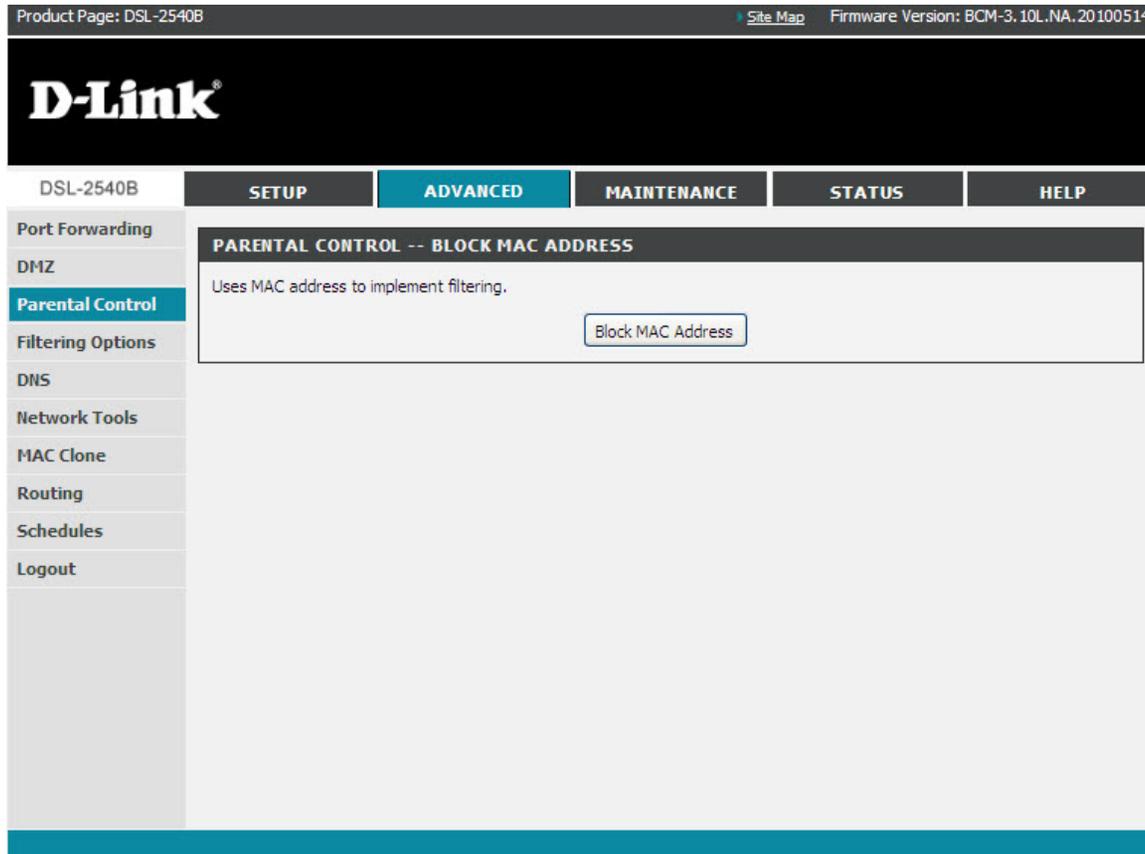
DMZ Host IP Address :

Apply Cancel

Parental Control

Click on **Advanced > Parental Control** and the following page will appear.

Click **Block MAC Address** to continue and be directed to the next page.



Block MAC Address

In this page, you can add a time of day restriction to a particular LAN device connected to the Router. The Browser's MAC Address automatically displays the MAC address of the LAN device where the browser is running. To restrict other LAN device, click Other MAC Address and enter the MAC address of the another LAN device. To obtain the MAC address of a Windows based PC, enter ipconfig /all in the DoS window.

BLOCK MAC ADDRESS
Time of Day Restrictions -- A maximum of 16 entries can be configured

This page adds a time of day restriction to a special LAN device connected to the router. The "Current PC's MAC Address" automatically displays the MAC address of the LAN device where the browser is running. To restrict another LAN device, click the "Other MAC Address" button and enter the MAC address of the other LAN device. To find out the MAC address of a Windows-based PC, open a command prompt window and type "ipconfig /all".

BLOCK MAC ADDRESS

Username	MAC	Schedule
<input type="button" value="Add"/>		

TIME OF DAY RESTRICTION
User Name :
 Current PC's MAC Address :
 Other MAC Address :
 Schedule Rule : [View Available Schedules](#)
 Manual Schedule :
Day(s) : All Week Select Day(s)
 Sun Mon Tue Wed
 Thu Fri Sat
All Day - 24 hrs :
Start Time : : (hour:minute, 24 hour time)
End Time : : (hour:minute, 24 hour time)

Filtering Options

This screen allows you to choose the Filtering Options you would like to access. You may select: **Inbound IP Filtering**, **Outbound IP Filtering** or **Bridge Filtering** to be directed to the page.

The screenshot displays the D-Link DSL-2540B Advanced Setup interface. At the top, it shows 'Product Page: DSL-2540B' and 'Firmware Version: BCM-3.10L.NA.20100514'. The D-Link logo is prominently displayed. Below the logo, there are navigation tabs: 'DSL-2540B', 'SETUP', 'ADVANCED' (which is selected), 'MAINTENANCE', 'STATUS', and 'HELP'. A left-hand sidebar contains a list of menu items: 'Port Forwarding', 'DMZ', 'Parental Control', 'Filtering Options' (highlighted in blue), 'DNS', 'Network Tools', 'MAC Clone', 'Routing', 'Schedules', and 'Logout'. The main content area is divided into three sections, each with a title bar and a description:

- FILTERING OPTIONS -- INBOUND IP FILTERING**: Manage incoming traffic. A button labeled 'Inbound IP Filtering' is visible.
- FILTERING OPTIONS -- OUTBOUND IP FILTERING**: Manage outgoing traffic. A button labeled 'Outbound IP Filtering' is visible.
- FILTERING OPTIONS -- BRIDGE FILTERING**: Uses MAC address to implement filtering. Useful only in bridge mode. A button labeled 'Bridge Filtering' is visible.

Incoming IP Filtering Setup

The Inbound Filter option is an advanced method of controlling data received from the Internet. With this feature you can configure inbound data filtering rules that control data based on an IP address range. Inbound Filters can be used with Virtual Server, Port Forwarding, or Remote Administration features.

The Add IP Filter screen will appear when you click **Add**. Enter a filter name, protocol, source address information (from the WAN side) and destination address information (to the LAN side). Select the WAN interface and when ready, click **Apply** to add the filter.

Product Page: DSL-2540B [Site Map](#) Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B **SETUP** **ADVANCED** MAINTENANCE STATUS HELP

Port Forwarding
DMZ
Parental Control
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INCOMING IP FILTERING

The screen allows you to create a filter rule to identify incoming IP traffic by specifying a new filter name and at least one condition below. All of the specified conditions in this filter rule must be satisfied for the rule to take effect. Click "Apply" to save and activate the filter.

By default, all incoming IP traffic from WAN is blocked when the firewall is enabled, but some IP traffic can be **ACCEPTED** by setting up filters.

ACTIVE INBOUND FILTER

Name	VPI/VCI	Protocol	Source Address	Source Port	Dest. Address	Dest. Port	Schedule Rule
<input type="button" value="Add"/>							

INCOMING IP FILTERING

Filter Name:

Protocol: Any

Source IP Type: Any

Source IP Address:

Source Subnet Mask:

Source Port Type: Any

Source Port: (port or port:port)

Destination IP Type: Any

Destination IP Address:

Destination Subnet Mask:

Destination Port Type: Any

Destination Port: (port or port:port)

Schedule: Always [View Available Schedules](#)

WAN Interfaces (Configured in Routing mode and with firewall enabled only)
Select at least one or multiple WAN interfaces displayed below to apply this rule.

Select All

Helpful Hints...

Give each rule a **Name** that is meaningful to you.

The Source IP addresses are WAN-side addresses and the Destination IP addresses are LAN-side addresses.

Each rule can **Allow** access from the WAN.

Select a schedule for when the rule will be enabled. If you do not see the schedule you need in the list of schedules, go to the **Advanced -> Schedules** screen and create a new schedule.

Click the **Apply** button to store a finished rule in the Rules List.

Click the **Remove** checkbox in the Rules List then click on the **Remove** button to permanently remove a rule.

[More...](#)

Outgoing IP Filtering Setup

This feature allows you to create a filter rule to identify outgoing IP traffic by specifying a new filter name and at least one condition. All of the specified conditions in the filter rule must be satisfied for the rule to take effect.

This next screen will appear when you click **Add**. Enter the **Filter Name**, the **Source IP Address**, and destination information (from the WAN side). Then click **Apply** to save.

The screenshot shows the D-Link DSL-2540B Advanced Setup interface. The top navigation bar includes 'Product Page: DSL-2540B', 'Site Map', and 'Firmware Version: BCM-3.10L.NA.20100514'. The main menu on the left lists various setup options, with 'Filtering Options' selected. The central panel is titled 'OUTGOING IP FILTERING' and contains the following text:

This screen allows you to create a filter rule to identify outgoing IP traffic by specifying a new filter name and at least one condition below. All of the specified conditions in this filter rule must be satisfied for the rule to take effect. Click "Apply" to save and activate the filter.

WARNING : Changing from one global policy to another will cause all defined rules to be REMOVED AUTOMATICALLY! You will need to create new rules for the new policy.

By default, all outgoing IP traffic from LAN is allowed, but some IP traffic can be **BLOCKED** by setting up filters.

Below this text is a table titled 'ACTIVE OUTGOING IP FILTER' with columns: Name, Protocol, Source Address, Source Port, Dest. Address, Dest. Port, and Schedule Rule. An 'Add' button is located below the table.

The 'OUTGOING IP FILTERING' form includes the following fields:

- Filter Name:
- Protocol:
- Source IP Type:
- Source IP Address:
- Source Subnet Mask:
- Source Port Type:
- Source Port: (port or port:port)
- Destination IP Type:
- Destination IP Address:
- Destination Subnet Mask:
- Destination Port Type:
- Destination Port: (port or port:port)
- Schedule: [View Available Schedules](#)

At the bottom of the form are 'Apply' and 'Cancel' buttons.

On the right side of the interface, there is a 'Helpful Hints...' section with the following text:

Give each rule a **Name** that is meaningful to you.

The Source IP addresses are LAN-side addresses and the Destination IP addresses are WAN-side addresses.

Each rule can **Deny** outgoing traffic from the LAN.

Select a schedule for when the rule will be enabled. If you do not see the schedule you need in the list of schedules, go to the **Advanced -> Schedules** screen and create a new schedule.

Click the **Apply** button to store a finished rule in the Rules List.

Click the **Remove** checkbox in the Rules List then click on the **Remove** button to permanently remove a rule.

[More...](#)

Bridge Filtering Setup

Bridge Filtering is only effective on ATM PVC's configured in Bridge mode. MAC filtering can forward or block traffic by MAC address. You can change the policy or add settings to the MAC filtering table using the MAC Filtering Setup screen.

If you want to add an entry to the MAC filtering table, Select **Add** from the MAC Filtering Setup screen. The Add MAC Filter screen should then appear. Select a Protocol Type, enter the Destination and Source MAC address, the necessary Frame Direction, and WAN interface (bridge mode only). Click **Apply** to save.

The screenshot displays the D-Link DSL-2540B web interface. The top navigation bar includes 'Product Page: DSL-2540B', 'Site Map', and 'Firmware Version: BCM-3.10L.NA.20100514'. The main menu on the left lists various settings: Port Forwarding, DMZ, Parental Control, Filtering Options (highlighted), DNS, Network Tools, MAC Clone, Routing, Schedules, and Logout.

The main content area is divided into three sections:

- BRIDGE FILTERING:** Explains that bridge filtering is only effective on ATM PVCs in Bridge mode. It defines 'ALLOW' (all MAC layer frames except those matching specified rules) and 'DENY' (all MAC layer frames except those matching specified rules). A warning states: "WARNING: Changing from one global policy to another will cause all defined rules to be REMOVED AUTOMATICALLY! You will need to create new rules for the new policy." Below this, there are radio buttons for 'ALLOW all packets but DENY those matching any of specific rules listed' (selected) and 'DENY all packets but ALLOW those matching any of specific rules listed'. 'Apply' and 'Cancel' buttons are present.
- BRIDGE FILTER SETUP:** A tabbed interface with tabs for 'VPI/VCI', 'Protocol', 'Destination MAC', 'Source MAC', 'Frame Direction', and 'Schedule Rule'. The 'Destination MAC' tab is currently active.
- ADD BRIDGE FILTER:** A form for creating a new filter. It includes:
 - Protocol Type: (Click to Select) dropdown menu.
 - Destination MAC Address: text input field.
 - Source MAC Address: text input field.
 - Frame Direction: LAN <=> WAN dropdown menu.
 - Schedule: Always dropdown menu with a 'View Available Schedules' link.
 - WAN Interfaces (Configured in Bridge mode only): A checked checkbox labeled 'Select All'.

The right sidebar contains 'Helpful Hints...' with instructions on creating MAC addresses, a note about bridged connections, and a tip about selecting schedules.

DNS

If **Obtain DNS server address automatically** is selected, this router accepts the first received DNS assignment from one of the PPPoA, PPPoE or MER/DHCP enabled PVC(s) during the connection establishment.

If the checkbox is not selected, enter the primary and secondary (optional) DNS server IP addresses. The interface is as follows.

Click **Save** to save the new configuration.

Note: You must reboot the router to make the new configuration take effect.

The screenshot shows the D-Link DSL-2540B Advanced Setup page. The top navigation bar includes 'Product Page: DSL-2540B', 'Site Map', and 'Firmware Version: BCM-3.10L.NA.20100514'. The main navigation menu has tabs for 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various settings: 'Port Forwarding', 'DMZ', 'Parental Control', 'Filtering Options', 'DNS' (highlighted), 'Network Tools', 'MAC Clone', 'Routing', 'Schedules', and 'Logout'. The main content area is titled 'DNS' and contains the following text: 'Click "Apply" button to save the new configuration. You must reboot the router to make the new configuration effective.' Below this is the 'DNS SERVER CONFIGURATION' section with two radio button options: 'Obtain DNS server address automatically' (selected) and 'Use the following DNS server addresses'. Under the second option, there are two input fields: 'Preferred DNS server :' and 'Alternate DNS server :'. At the bottom of the configuration area are 'Apply' and 'Cancel' buttons. On the right side, there is a 'Helpful Hints...' section with a blue background and white text, which repeats the information from the main text. A 'More...' link is located at the bottom of the hints section.

Network Tools

Product Page: DSL-2540B [Site Map](#) Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B **SETUP** **ADVANCED** MAINTENANCE STATUS HELP

Port Forwarding
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NETWORK TOOLS -- PORT MAPPING
Port Mapping supports multiple port to PVC and bridging groups. Each group will perform as an independent network.
[Port Mapping](#)

NETWORK TOOLS -- IGMP
Transmission of identical content, such as multimedia, from a source to a number of recipients.
[IGMP](#)

NETWORK TOOLS -- QUEUE CONFIG
Allows you to add Classification Queue precedence for QoS.
[Queue Config](#)

NETWORK TOOLS -- QUALITY OF SERVICE
Allows you to manually configure different priority to different interfaces.
[Quality of Service](#)

NETWORK TOOLS -- ADSL
Allows you to configure advanced settings for ADSL.
[ADSL Settings](#)

NETWORK TOOLS -- TR-069
Allows you to configure TR-069 protocol.
[TR-069](#)

Port Mapping

Port Mapping supports multiple ports to PVC and bridging Groups. Each group performs as an independent network. To support this feature, you must create mapping groups with appropriate LAN and WAN interfaces using the **Add** button. The **Delete** button removes the grouping and adds the ungrouped interfaces to the Default group. Only the default group has the IP interface.

The screenshot displays the D-Link DSL-2540B web interface. At the top, it shows the product page information: DSL-2540B, Site Map, and Firmware Version: BCM-3.10L.NA.20100514. The main navigation bar includes tabs for SETUP, ADVANCED (selected), MAINTENANCE, STATUS, and HELP. The left sidebar lists various configuration options, with Network Tools highlighted. The main content area is titled 'PORT MAPPING' and contains the following sections:

- PORT MAPPING**: A text box explaining that up to 16 entries can be configured and that each group acts as an independent network. It includes an 'Add' button and a checkbox for 'Enable virtual ports on LAN(1-4)'. 'Apply' and 'Cancel' buttons are at the bottom.
- PORT MAPPING SETUP**: A table with two columns: 'Group Name' and 'Interfaces'. The 'Default' group is listed with 'LAN(1-4)' as its interface. An 'Add' button is located below the table.
- ADD PORT MAPPING**: A section with instructions on how to create a new mapping group, including steps for entering a group name and selecting interfaces.
- PORT MAPPING CONFIGURATION**: A form for creating a new group. It includes a 'Group Name' text field, two list boxes for 'Grouped Interfaces' and 'Available Interfaces', and arrow buttons to move items between them. 'Apply' and 'Cancel' buttons are at the bottom.

On the right side, there is a 'Helpful Hints...' section with additional information and a 'More...' link.

IGMP

If you choose to **Enable IGMP Snooping** the device can make intelligent multicast forwarding toward those hosts which request to join a specific multicast group within the broadcast domain.

Product Page: DSL-2540B [Site Map](#) Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B **SETUP** **ADVANCED** MAINTENANCE STATUS HELP

Port Forwarding
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IGMP
Transmission of identical content, such as multimedia, from a source to a number of recipients.

IGMP SETUP

Enable IGMP Snooping

Apply Cancel

Helpful Hints...
With IGMP Snooping enabled, the device (L2 switch) can make intelligent multicast forwarding (only) toward those hosts, i.e. IPSTBs etc., which request to join (as members of) a specific multicast group, i.e. an IPTV channel etc., within the broadcast domain (same PVC/VLAN). As a result, it significantly reduces traffic flooding upon interfaces which are not registered as receivers of specific multicast group.
[More...](#)

Queue Configuration

Click **Queue Config**, and the following page will appear. In this page, you can configure QoS queue. A maximum of 16 entries can be configured.

QoS Queue Configuration can allocate sixteen queues. Each of the queues can be configured for a precedence value (Lower integer values for precedence imply higher priority for this queue relative to others). The queue entry configured is used by the classifier to place ingress packets appropriately.

Note: Lower integer values for precedence imply higher priority for this queue relative to others.

For example, add a QoS queue entry and allocate it to a specific network interface (PVC 0/0/35). Set integer values for queue precedence to 1.

The screenshot shows the D-Link DSL-2540B Advanced Setup page. The top navigation bar includes 'Product Page: DSL-2540B', 'Site Map', and 'Firmware Version: BCM-3.10L.NA.20100514'. The main navigation menu has tabs for 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various settings: 'Port Forwarding', 'DMZ', 'Parental Control', 'Filtering Options', 'DNS', 'Network Tools' (highlighted), 'MAC Clone', 'Routing', 'Schedules', and 'Logout'. The main content area is titled 'QUEUE CONFIG' and contains the text: 'QoS Queue Configuration -- A maximum 16 entries can be configured.' Below this is a 'QUEUE CONFIG LIST' table with columns: 'Interface Name', 'Description', 'Precedence', 'Queue Key', 'Enable', and 'Remove'. At the bottom of the list area are 'Add' and 'Save/Reboot' buttons.

Quality of Service

QoS (Quality of Service) is a method for identifying, classifying, and assigning priorities to traffic that passes through the router. This ensures that time sensitive data (e.g. video streaming) is given priority over other non-essential data.

This screen allows you to add a network traffic class rule. A rule consists of a traffic class name and at least one condition. All configured conditions must first be met before the rule takes effect. Click **Apply** to save any changes.

Product Page: DSL-2540B Site Map Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B SETUP **ADVANCED** MAINTENANCE STATUS HELP

Port Forwarding
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QUALITY OF SERVICE

The screen creates a traffic class rule to classify the upstream traffic, assign queue which defines the precedence and the interface and optionally overwrite the IP header DSCP byte. A rule consists of a class name and at least one condition below. All of the specified conditions in this classification rule must be satisfied for the rule to take effect. Click "Apply" to save and activate the rule.

Assign ATM Priority and/or DSCP Mark for the class
If non-blank value is selected for "Assign Differentiated Services Code Point (DSCP) Mark", the corresponding DSCP byte in the IP header of the upstream packet is overwritten by the selected value.

NETWORK TRAFFIC CLASS RULE

Traffic Class Name:

Rule Order: Last ▾

Rule Status: (Click to Select) ▾

Assign Classification Queue: (Click to Select) ▾

Assign Differentiated Services Code Point (DSCP) Mark: No Change ▾

Mark 802.1p if 802.1q is enabled: No Change ▾

SPECIFY TRAFFIC CLASSIFICATION RULES

Enter the following conditions either for IP level, SET-1, or for IEEE 802.1p, SET-2.

SET-1

Physical LAN Port: Any ▾

Protocol: Any ▾

Differentiated Services Code Point (DSCP) Check: Any ▾

Source IP Type: Any ▾

Source IP Address:

Source Subnet Mask:

Source Port Type: Any ▾

UDP/TCP Source Port (port or port:port):

Destination IP Type: Any ▾

Destination IP Address:

Destination Subnet Mask:

Destination Port Type: Any ▾

UDP/TCP Destination Port (port or port:port):

Source MAC Address:

Source MAC Mask:

Destination MAC Address:

Destination MAC Mask:

SET-2

802.1p Priority: Any ▾

Apply Cancel

Helpful Hints...

QoS or Quality of service allows your Router to help prioritize the data packets that flow throughout your network. This is a very useful feature for sensitive applications such as VoIP whereby it will assist in preventing dropped calls. Large amounts of non-critical data can be scaled so that they do not affect sensitive real-time applications such as VoIP or Streaming. The main screen shows some pre-configured rules that are used with common applications such as VoIP, FTP and messaging programs.

[More...](#)

ADSL Setting

In this page, you can configure the modem's ADSL modulation. Select from the settings below and click **Apply**.

Product Page: DSL-2540B [Site Map](#) Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B **SETUP** **ADVANCED** MAINTENANCE STATUS HELP

Port Forwarding
DMZ
Parental Control
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Logout

ADSL

This page allows you to configure the modem's ADSL modulation.
Select the modulation below.

ADSL SETTINGS

- G.Dmt Enabled
- G.Lite Enabled
- T1.413 Enabled
- ADSL2 Enabled
- AnnexL Enabled
- ADSL2+ Enabled
- AnnexM Enabled

Capability

- Bitswap Enable
- SRA Enable

[Helpful Hints...](#)
Do not change these settings unless directed by your ISP.
[More...](#)

Apply Cancel

TR-069

TR-69 allows a Auto-Configuration Server (ACS) to perform auto-configuration, provision, collection, and diagnostics to this device.

The screenshot displays the D-Link DSL-2540B web interface. At the top, it shows 'Product Page: DSL-2540B' and 'Firmware Version: BCM-3.10L.NA.20100514'. The D-Link logo is prominently displayed. Below the logo, there are navigation tabs: 'DSL-2540B', 'SETUP', 'ADVANCED' (selected), 'MAINTENANCE', 'STATUS', and 'HELP'. A left sidebar contains a menu with items like 'Port Forwarding', 'DMZ', 'Parental Control', 'Filtering Options', 'DNS', 'Network Tools' (highlighted), 'MAC Clone', 'Routing', 'Schedules', and 'Logout'. The main content area is titled 'TR-069' and contains the following text: 'WAN Management Protocol (TR-069) allows a Auto-Configuration Server (ACS) to perform auto-configuration, provision, collection, and diagnostics to this device. Select the desired values and click "Apply" to configure the TR-069 client options.' Below this is a section titled 'TR-069 CLIENT -- CONFIGURATION'. It includes a radio button for 'Inform' with 'Disable' selected and 'Enable' unselected. There are input fields for 'Inform Interval' (300), 'ACS URL', 'ACS User Name' (admin), and 'ACS Password' (masked with dots). A checked checkbox is labeled 'Connection Request Authentication'. Below this are fields for 'Connection Request User Name' (admin) and 'Connection Request Password' (masked with dots). At the bottom of the configuration area are three buttons: 'GetRPCMethods', 'Apply', and 'Cancel'. On the right side of the interface, there is a 'Helpful Hints...' section with a link to 'More...'. The text in the hints section reads: 'Provides a means to monitor status and performance as well as set configuration parameters from WAN side.'

MAC Clone

This page allows you to clone your MAC Address when adding a router into your network in order to share your Internet connection.

The screenshot shows the D-Link DSL-2540B Advanced Setup page. At the top, it displays 'Product Page: DSL-2540B' and 'Firmware Version: BCM-3.10L.NA.20100514'. The D-Link logo is prominently displayed. Below the logo, there are navigation tabs: 'DSL-2540B', 'SETUP', 'ADVANCED' (selected), 'MAINTENANCE', 'STATUS', and 'HELP'. On the left side, there is a vertical menu with options: 'Port Forwarding', 'DMZ', 'Parental Control', 'Filtering Options', 'DNS', 'Network Tools', 'MAC Clone' (selected), 'Routing', 'Schedules', and 'Logout'. The main content area is titled 'MAC CLONE' and contains the following text: 'Some ISP's will register the MAC Address of your computer when you dial up to the Internet for the first time via modem. If you add a router into your network to share your Internet connection, the ISP will not accept it, so you will need to use MAC Address cloning on the router.' Below this is the 'MAC CLONE SETUP' section with the following fields: 'Wan Connection:' with a dropdown menu showing 'undefined'; 'WAN MAC Address:' with an empty text input field; 'Your PC's MAC Address:' with a text input field containing '00:1F:29:98:50:E9' and a 'Clone' button; and 'MAC Clone Status:' with an unchecked checkbox. At the bottom of the setup section are 'Save' and 'Save and Reboot' buttons. On the right side, there is a 'Helpful Hints...' section with the following text: 'Check the Application Name drop down menu for a list of predefined applications. If you do not see your application listed you can still define a new rule. Select a schedule for when the rule will be enabled. If you do not see the schedule you need in the list of schedules, go to the [Advanced -> Schedules](#) screen and create a new schedule. [More...](#)'

Routing

Static Route

The Static Route page can be used to add a routing table (a maximum of 32 entries can be configured). To proceed, click **Add**.

The screenshot shows the D-Link DSL-2540B Advanced Setup page. The top navigation bar includes 'Product Page: DSL-2540B', 'Site Map', and 'Firmware Version: BCM-3.10L.NA.20100514'. The main navigation menu has 'DSL-2540B', 'SETUP', 'ADVANCED' (selected), 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various settings: Port Forwarding, DMZ, Parental Control, Filtering Options, DNS, Network Tools, MAC Clone, Routing (selected), Schedules, and Logout. The main content area is titled 'STATIC ROUTE' and contains the following text: 'Enter the destination network address, subnet mask, gateway AND/OR available WAN interface then click "Apply" to add the entry to the routing table. A maximum 32 entries can be configured.' Below this is a table with columns for 'Destination', 'Subnet Mask', 'Gateway', and 'Interface'. At the bottom of the table are 'Add', 'Edit', and 'Delete' buttons. A 'Helpful Hints...' sidebar on the right states: 'You can select what gateway to use, by interface or by specifying a gateway. More...'

For the **Static Route Add** page, enter the destination network address, subnet mask, gateway and select an available WAN interface. When complete, click **Apply**.

The screenshot shows the 'STATIC ROUTE ADD' configuration page. It features the following fields and options: 'Destination Network Address' (text input), 'Subnet Mask' (text input), 'Use Gateway IP Address' (radio button), 'Use Interface' (radio button), and a dropdown menu for the interface (currently showing 'LAN/br0'). At the bottom are 'Apply' and 'Cancel' buttons.

Default Gateway

In this page, you can modify the default gateway settings. If you select **Enable Automatic Assigned Default Gateway**, this router can accept the first received default gateway assignment from one of the PPPoA, PPPoE or MER/DHCP enabled PVC(s). If the check box is not selected, you must enter the static default gateway and/or a WAN interface. Then, click **Save/Apply**.

Note: If the Automatic Assigned Default Gateway check box is changed from deselected to selected, you must reboot the router to obtain the automatic assigned default gateway.

Product Page: DSL-2540B [Site Map](#) Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B **SETUP** **ADVANCED** MAINTENANCE STATUS HELP

Port Forwarding
DMZ
Parental Control
Filtering Options
DNS
Network Tools
MAC Clone
Routing
Schedules
Logout

DEFAULT GATEWAY

If Enable Automatic Assigned Default Gateway checkbox is selected, this router will accept the first received default gateway assignment from one of the PPPoA, PPPoE or MER/DHCP enabled PVC(s). If the checkbox is not selected, enter the static default gateway OR a WAN interface. Click "Apply" button to save it.

DEFAULT GATEWAY

Enable Automatic Assigned Default Gateway

Use Default Gateway IP Address :

Use Interface : LAN/br0 ▾

Apply Cancel

Helpful Hints...

NOTE: If changing the Automatic Assigned Default Gateway from unselected to selected, You must reboot the router to get the automatic assigned default gateway.

[More...](#)

RIP

To activate RIP for the device, select the **Enabled** checkbox for Global RIP Mode.

To configure an individual interface, select the desired RIP version and operation, followed by placing a check in the **Enabled** checkbox for the interface.

Click the “Apply” button to save the configuration, and to start or stop RIP based on the Global RIP Mode selected.

The screenshot shows the D-Link DSL-2540B Advanced Setup page. The top navigation bar includes the D-Link logo, the product name 'DSL-2540B', and the firmware version 'BCM-3.10L.NA.20100514'. The main navigation tabs are 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'ADVANCED' tab is selected, and the 'ROUTING -- RIP' section is active. The 'RIP' section contains a text box explaining the configuration steps: 'To activate RIP for the device, select the "Enabled" checkbox for Global RIP Mode. To configure an individual interface, select the desired RIP version and operation, followed by placing a check in the "Enabled" checkbox for the interface. Click the "Apply" button to save the configuration, and to start or stop RIP based on the Global RIP Mode selected.' Below this is a table for configuring individual interfaces:

Interface	VPI/VCI	Version	Operation	Enabled
br0	(LAN)	2	Active	<input type="checkbox"/>

At the bottom of the configuration area are 'Apply' and 'Cancel' buttons. On the right side, there is a 'Helpful Hints...' section with the text: 'Enabling RIP provides a protocol that determines the best path to a target by estimating the distance in number of hops or intermediate routers.' and a 'More...' link.

Schedules

This section allows you to create scheduling rules to be applied to your firewall. Give each schedule a name and time that is meaningful to you.

The screenshot shows the D-Link DSL-2540B Advanced Setup interface. At the top, it displays 'Product Page: DSL-2540B', 'Site Map', and 'Firmware Version: BCM-3.10L.NA.20100514'. The D-Link logo is prominently displayed. Below the logo, there are navigation tabs: 'DSL-2540B', 'SETUP', 'ADVANCED' (which is selected), 'MAINTENANCE', 'STATUS', and 'HELP'. On the left side, there is a vertical menu with options: 'Port Forwarding', 'DMZ', 'Parental Control', 'Filtering Options', 'DNS', 'Network Tools', 'MAC Clone', 'Routing', 'Schedules' (which is highlighted), and 'Logout'. The main content area is titled 'SCHEDULES' and contains the following text: 'Schedule allows you to create scheduling rules to be applied for your firewall.' and 'Maximum number of schedule rules: 20'. Below this, there is a section titled 'SCHEDULE RULES' with a table header: 'Rule Name', 'Sun', 'Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat', 'Start Time', and 'Stop Time'. An 'Add' button is located below the table. On the right side, there is a 'Helpful Hints...' section with the following text: 'Schedules are used with a number of other features to define when those features are in effect.' and 'Give each schedule a name that is meaningful to you. For example, a schedule for Monday through Friday from 3:00pm to 9:00pm, might be called "After School".' Below this, there is a 'NOTE: Setup -> Time and Date must be set for schedule to work properly.' and a 'More...' link.

Maintenance

This page allows you to reboot your router or save your router configuration to a file in your computer as a precaution or in case you have to reset your computer to factory default settings. You will be able to restore your router settings from a previously saved configuration file.

System

The screenshot displays the maintenance interface for a D-Link DSL-2540B router. At the top, it shows the product page information: "Product Page: DSL-2540B" and "Firmware Version: BCM-3.10L.NA.20100514". The D-Link logo is prominently displayed. Below the logo, there are navigation tabs for "DSL-2540B", "SETUP", "ADVANCED", "MAINTENANCE" (which is selected), "STATUS", and "HELP".

The main content area is divided into several sections under the "System" heading:

- SYSTEM -- REBOOT**: Contains the instruction "Click the button below to reboot the router." and a "Reboot" button.
- SYSTEM -- BACKUP SETTINGS**: Contains the instruction "Back up DSL Router configurations. You may save your router configurations to a file on your PC." and a note: "Note: Please always save configuration file first before viewing it." followed by a "Backup Settings" button.
- SYSTEM -- UPDATE SETTINGS**: Contains the instruction "Update DSL Router settings. You may update your router settings using your saved files." and a form with a "Settings File Name" input field, a "Browse..." button, and an "Update Settings" button.
- SYSTEM -- RESTORE DEFAULT SETTINGS**: Contains the instruction "Restore DSL Router settings to the factory defaults." and a "Restore Default Settings" button.

On the right side of the page, there is a "Helpful Hints..." section with the following text: "This page allows you to reboot your router or save your router configuration to a file on your computer as a precaution in case you have to reset your router to factory default settings. You will be able to restore your router settings from a previously saved configuration file. There is also a function to allow you to reset your router to factory default settings. Resetting your router to factory default settings will delete your current configuration." Below this text is a "More..." link.

Firmware Update

This page displays your device's firmware version and information that will be helpful for D-Link technicians should you need technical support. You may also upload new firmware to your router through this page.

The screenshot shows the web interface for the D-Link DSL-2540B. At the top, it says 'Product Page: DSL-2540B' and 'Firmware Version: BCM-3.10L.NA.20100514'. The D-Link logo is prominently displayed. Below the logo is a navigation menu with tabs for 'DSL-2540B', 'SETUP', 'ADVANCED', 'MAINTENANCE' (which is selected), 'STATUS', and 'HELP'. On the left side, there is a sidebar menu with options: 'System', 'Firmware Update' (highlighted), 'Access Controls', 'Diagnostics', 'System Log', and 'Logout'. The main content area is titled 'FIRMWARE UPDATE' and contains three steps: Step 1: Obtain an updated firmware image file from your ISP. Step 2: Enter the path to the image file location in the box below or click the "Browse" button to locate the image file. Step 3: Click the "Update Firmware" button once to upload the new image file. Below the steps, there is a note: 'NOTE: The update process takes about 2 minutes to complete, and your DSL Router will reboot. Please DO NOT power off your router before the update is complete.' Underneath the note, there is another 'FIRMWARE UPDATE' section showing 'Current Firmware Version : BCM-3.10L.NA.20100514' and 'Current Firmware Date :'. Below this, there is a text input field for 'Firmware File Name' and a 'Browse...' button. At the bottom of this section is an 'Update Firmware' button. On the right side of the page, there is a 'Helpful Hints...' section with a 'Please Note' and a 'More...' link.

Product Page: DSL-2540B [Site Map](#) Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B SETUP ADVANCED **MAINTENANCE** STATUS HELP

System
Firmware Update
Access Controls
Diagnostics
System Log
Logout

FIRMWARE UPDATE

Step 1: Obtain an updated firmware image file from your ISP.

Step 2: Enter the path to the image file location in the box below or click the "Browse" button to locate the image file.

Step 3: Click the "Update Firmware" button once to upload the new image file.

NOTE: The update process takes about 2 minutes to complete, and your DSL Router will reboot. Please DO NOT power off your router before the update is complete.

FIRMWARE UPDATE

Current Firmware Version : BCM-3.10L.NA.20100514
Current Firmware Date :

Firmware File Name :

Helpful Hints...

Please Note: This page displays your device firmware version and information that will be helpful for D-Link technicians should you require any technical support. If your router is working without issue, there should be no need to update your firmware. This information is just for your reference as it is often unnecessary to upload new firmware to your router.

[More...](#)

Access Control Account Password

In this section, you can modify your router's password which is needed to access the Web management Interface. It is recommended that you change the factory default password for security purposes. To change your password, choose between 1 and 16 characters.

The screenshot displays the web management interface for a D-Link DSL-2540B router. The page title is "Product Page: DSL-2540B" and the firmware version is "BCM-3.10L.NA.20100514". The D-Link logo is prominently displayed at the top. The navigation menu includes "DSL-2540B", "SETUP", "ADVANCED", "MAINTENANCE" (which is the active tab), "STATUS", and "HELP". The left sidebar contains a list of menu items: "System", "Firmware Update", "Access Controls" (highlighted), "Diagnostics", "System Log", and "Logout".

The main content area is titled "ACCOUNT PASSWORD" and contains the following text:

Access to your DSL Router is controlled through three user accounts: admin, support, and user.

The user name "support" is used to allow an ISP technician to access your DSL Router for maintenance and to run diagnostics.

The user name "user" can access the DSL Router, view configuration settings and statistics, as well as update the router's firmware.

Use the fields below to enter up to 16 characters and click "Apply" to change or create passwords.
Note: Password cannot contain a space.

The "ADMINISTRATOR SETTINGS" section includes the following fields:

- Username: (Click to Select) [dropdown menu]
- Current Password: [text input field]
- New Password: [text input field]
- Confirm Password: [text input field]

Buttons for "Apply" and "Cancel" are located below the password fields.

The "WEB IDLE TIME OUT SETTINGS" section includes the following field:

- Web Idle Time Out: 5 [text input field] (5 ~ 30 minutes)

Buttons for "Apply" and "Cancel" are located below the Web Idle Time Out field.

On the right side of the page, there is a "Helpful Hints..." section with the following text:

This page allows you to modify your router password needed to access this Web management interface. For security reasons, it is recommended that you change your device's admin and user passwords from the factory default. The password you choose should be between 1 and 16 characters in length. Please make sure to choose a password you can remember or write it down and keep in a safe and separate location for future reference. If you forget your device password, the only solution is to reset your router to factory default settings and you will lose all your device configuration settings.

A "More..." link is located at the bottom of the helpful hints section.

Services

In this page, you will be able to enable or disable services from being used.

Product Page: DSL-2540B [Site Map](#) Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B **SETUP** **ADVANCED** **MAINTENANCE** **STATUS** **HELP**

System
Firmware Update
Access Controls
Diagnostics
System Log
Logout

SERVICES

A Service Control List ("SCL") enables or disables services from being used.

ACCESS CONTROL -- SERVICES

Service	LAN	WAN
HTTP	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled
ICMP	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled
TELNET	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled
TFTP	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled

Helpful Hints...

If you wish to log in and manage your Router from another Internet device then you can enable the router to accept such commands from the Internet port. This option may be useful if your network administrator is not on-site or Technical Support requests such access.

[More...](#)

IP Address

This page allows you to restrict users from accessing the local management using IP address. Check **Enable Access Control Mode** to access local management services from IP addresses contained in the Access Control List. If Access Control Mode is disabled, the system will not validate IP addresses for incoming packets.

Note: Add your IP address to the list before you enable the service.

Product Page: DSL-2540B [Site Map](#) Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B **SETUP** **ADVANCED** **MAINTENANCE** STATUS HELP

System	<p>IP ADDRESS</p> <p>The IP Address Access Control mode, if enabled, permits access to local management services from IP addresses contained in the Access Control List. If the Access Control mode is disabled, the system will not validate IP addresses for incoming packets. The services are the system applications listed in the Service Control List.</p> <p>Enter the IP address of the management station permitted to access the local management services, and click "Apply".</p> <p>ACCESS CONTROL -- IP ADDRESSES</p> <p><input type="checkbox"/> Enable Access Control Mode</p> <p>IP Address</p> <p>Add</p> <p>IP ADDRESS</p> <p>IP Address : <input type="text"/></p> <p>Apply Cancel</p>	<p>Helpful Hints...</p> <p>You can restrict which users can access the local management using IP address.</p> <p>Note: Be sure to add your IP Address in the list before you enable the service.</p> <p>More...</p>
Firmware Update		
Access Controls		
Diagnostics		
System Log		
Logout		

Diagnostics

This page displays your router's self diagnostic and connection test results. The internet connectivity status will only show PASS if you have correctly configured your Internet connection and if your router is currently online.

Product Page: DSL-2540B [Site Map](#) Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B **SETUP** **ADVANCED** **MAINTENANCE** STATUS HELP

System
Firmware Update
Access Controls
Diagnostics
System Log
Logout

DIAGNOSTICS

Your modem is capable of testing your DSL connection. The individual tests are listed below. If a test displays a fail status, click "Rerun Diagnostic Tests" at the bottom of this page to make sure the fail status is consistent.

[Rerun Diagnostic Tests](#)

TEST THE CONNECTION TO YOUR LOCAL NETWORK

TEST THE CONNECTION TO YOUR DSL SERVICE PROVIDER

Test ADSL Synchronization: **PASS**

Helpful Hints...

This page shows the result of your router's self diagnostic and connection test results. The Internet connectivity status will only show PASS if you have correctly configured your Internet connection and your router is currently online.

[More...](#)

System Log

The System Log screen allows you to view the system log and configure the system log options.

To view the system log, click on the **View System Log** button.

The screenshot shows the D-Link DSL-2540B web interface. At the top, it displays 'Product Page: DSL-2540B' and 'Firmware Version: BCM-3.10L.NA.20100514'. The D-Link logo is prominently displayed. Below the logo, there are navigation tabs: 'DSL-2540B', 'SETUP', 'ADVANCED', 'MAINTENANCE' (which is highlighted), 'STATUS', and 'HELP'. On the left side, there is a sidebar menu with options: 'System', 'Firmware Update', 'Access Controls', 'Diagnostics', 'System Log' (highlighted), and 'Logout'. The main content area is titled 'SYSTEM LOG' and contains the following text: 'If the log mode is enabled, the system will begin to log all the selected events. For the Log Level, all events above or equal to the selected level will be logged. For the Display Level, all logged events above or equal to the selected level will be displayed. If the selected mode is "Remote" or "Both", events will be sent to the specified IP address and UDP port of the remote syslog server. If the selected mode is "Local" or "Both", events will be recorded in the local memory. Select the desired values and click "Apply" to configure the system log options. **Note: This will not work correctly if modem time is not properly set! Please set it in "Setup/Time and Date"**

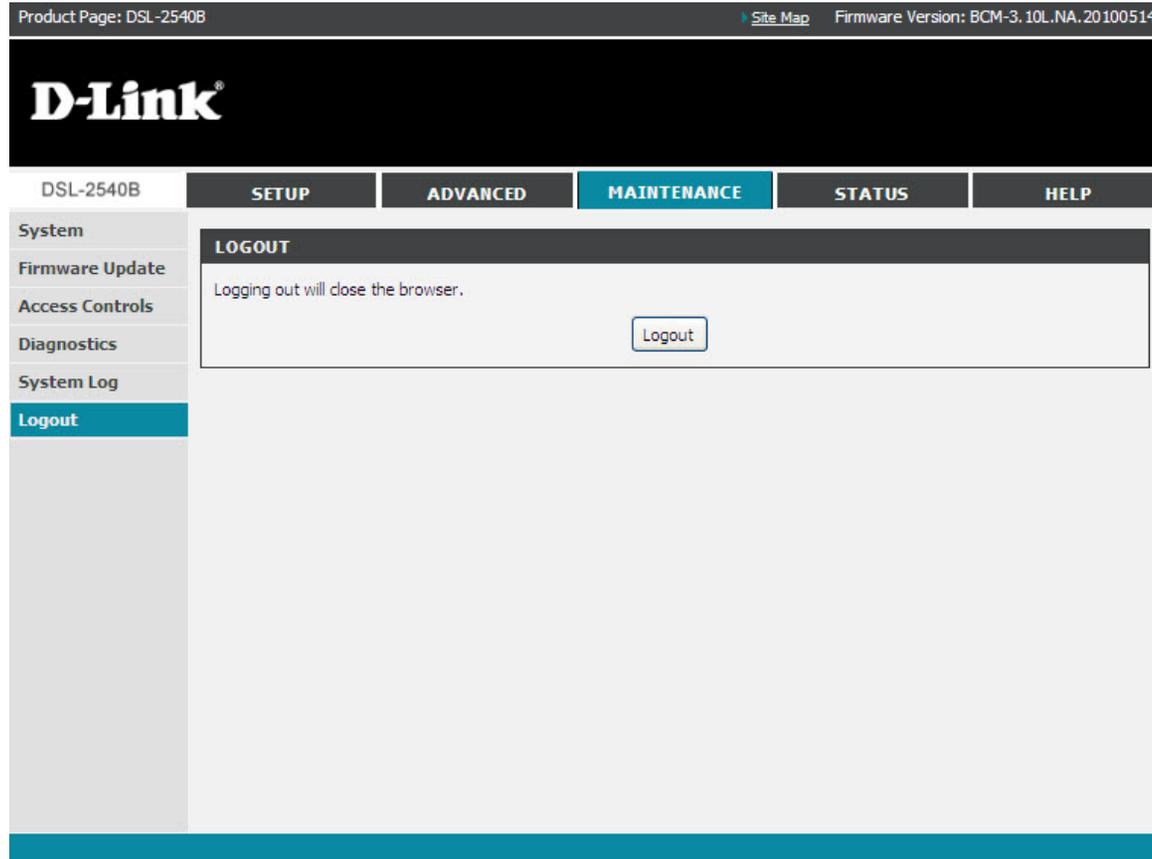
Below this text is a section titled 'SYSTEM LOG -- CONFIGURATION' with the following settings:

- Enable Log
- Log Level: Debugging
- Display Level: Error
- Mode: Local
- Server IP Address: [text input field]
- Server UDP Port: [text input field]

At the bottom of the configuration section are three buttons: 'Apply', 'Cancel', and 'View System Log'. On the right side of the page, there is a 'Helpful Hints...' section with the following text: 'This page allows you to enable, configure and view your router system log. The system log will keep a record of your router activity. Depending on the amount of detail you include in the log, your router can only keep a limited number of log entries due to router memory constraints. If you have an external SYSLOG server, you may choose to configure external logging and all log entries will be sent to your remote server. More...'

Logout

Select **Logout** to exit the web user interface.



Status

The status section allows you to view general and status information for your router's connection.

Device Info

The Device Info page shows details of the router such as the version of the software, bootloader, LAN IP address, etc. It also displays the current status of your DSL connection.

Product Page: DSL-2540B [Site Map](#) Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B **SETUP** **ADVANCED** **MAINTENANCE** **STATUS** **HELP**

Device Info

DHCP Clients
Logs
Statistics
Route Info
Logout

DEVICE INFO

This information reflects the current status of your DSL connection.

SYSTEM INFO

Model Name:	DSL-2540B
Time and Date:	Sat Jan 1 00:35:37 2000
Firmware Version:	BCM-3.10L.NA.20100514

INTERNET INFO

Internet Connection:

Internet Connection Status:	N/A
Default Gateway:	
Preferred DNS Server:	192.168.1.1
Alternate DNS Server:	192.168.1.1
Connection Up Time:	
Downstream Line Rate (Kbps):	6016
Upstream Line Rate (Kbps):	768

Enabled WAN Connections:

VPI/VCI	Service Name	Protocol	IGMP	QoS	IP Address

LOCAL NETWORK INFO

HAC Address:	00:26:5a:d5:6a:1b
IP Address:	192.168.1.1
Subnet Mask:	255.255.255.0
DHCP Server:	Enabled

Helpful Hints...

This page displays a summary overview of your router status, including device software version, summary of your Internet configuration including wireless and Ethernet status.

[More...](#)

DHCP Clients

Access the DHCP Leases screen by clicking **DHCP** under **Status**. This shows the computers identified by the hostname and the MAC address that have acquired IP addresses by the DHCP server. The table will also show the time the DHCP lease will expire.

The screenshot shows the D-Link DSL-2540B web interface. At the top, it displays 'Product Page: DSL-2540B', 'Site Map', and 'Firmware Version: BCM-3, 10L.NA.20100514'. The D-Link logo is prominently displayed. Below the logo, there are navigation tabs: 'DSL-2540B', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'STATUS' tab is selected. On the left side, there is a sidebar menu with options: 'Device Info', 'DHCP Clients', 'Logs', 'Statistics', 'Route Info', and 'Logout'. The 'DHCP Clients' option is highlighted. The main content area is divided into two sections: 'DHCP CLIENTS' and 'DHCP LEASES'. The 'DHCP CLIENTS' section contains the text: 'This information reflects the current DHCP clients of your modem.' The 'DHCP LEASES' section contains a table with the following data:

Hostname	MAC Address	IP Address	Expires In
129	00:1F:29:98:50:E9	192.168.1.2	23 hours, 23 minutes, 42 seconds

Below the table is a 'Refresh' button. On the right side, there is a 'Helpful Hints...' section with the text: 'Displays the list of all LAN clients that are assigned IP addresses by DHCP service and currently connected to your router.' and a 'More...' link.

Logs

The System Log screen shows the date/time of the log, the facility that was logged, the severity level and the log message. Click on **Refresh** to view any new information that has been logged.

If the log is enabled, the system will log selected events including Emergency, Alert, Critical, Error, Warning, Notice, Informational, and Debugging. All events above or equal to the selected log level will be logged and displayed.

The screenshot displays the D-Link DSL-2540B web interface. At the top, it shows 'Product Page: DSL-2540B' and 'Firmware Version: BCM-3.10L.NA.20100514'. The D-Link logo is prominently displayed. Below the logo, there are navigation tabs: 'DSL-2540B', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS' (which is highlighted), and 'HELP'. On the left side, there is a sidebar menu with options: 'Device Info', 'DHCP Clients', 'Logs' (highlighted), 'Statistics', 'Route Info', and 'Logout'. The main content area is titled 'LOGS' and contains the text: 'This page allows you to view system logs.' Below this, there is a section titled 'SYSTEM LOG' with a table header: 'Date/Time', 'Facility', 'Severity', and 'Message'. A 'Refresh' button is located below the table. On the right side, there is a 'Helpful Hints...' section with the following text: 'The system log will keep a record of your router activity. Depending on the amount of detail you include in the log, your router can only keep a limited number of log entries due to router memory constraints. You can configure the details you want to include in [Maintenance -> System Log](#). [More...](#)'

Statistics

This page will display a summary of the number of packets that have passed between the WAN and the LAN since the LAN and the WAN were initialized.

Product Page: DSL-2540B [Site Map](#) Firmware Version: BCM-3.10L.NA.20100514

D-Link

DSL-2540B **SETUP** **ADVANCED** **MAINTENANCE** **STATUS** **HELP**

Device Info
DHCP Clients
Logs
Statistics
Route Info
Logout

STATISTICS
This information reflects the current status of your DSL connection.

LOCAL NETWORK

Interface	Received				Transmitted			
	Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops
Ethernet	519764	5059	0	0	5020488	6440	0	0

INTERNET

Service	VPI/VCI	Protocol	Received				Transmitted				
			Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops	

ADSL

Mode: G.DMT
Type: Fast
Line Coding: Trellis On
Status: No Defect

	Downstream	Upstream
SNR Margin (dB):	17.1	19.0
Attenuation (dB):	24.0	12.0
Output Power (dBm):	11.9	9.9
Attainable Rate (Kbps):	10560	1252
Rate (Kbps):	6016	768
D (interleave depth):	1	1
Delay (msec):	0	0
HEC Errors:	0	0
OCD Errors:	0	0
LCD Errors:	0	0
Total ES:	0	0

ADSL BER Test Reset Statistics

Helpful Hints...
This is a summary of the number of packets that have passed between the WAN and the LAN since the router was last initialized.
[More...](#)

Route Info

Route Info displays route information showing the IP addresses of the destination, gateway, and subnet mask as well as other route information.

The screenshot shows the D-Link DSL-2540B web interface. At the top, it displays "Product Page: DSL-2540B" and "Firmware Version: BCM-3.10L.NA.20100514". The D-Link logo is prominently displayed. Below the logo, there are navigation tabs: "DSL-2540B", "SETUP", "ADVANCED", "MAINTENANCE", "STATUS" (which is highlighted), and "HELP".

On the left side, there is a sidebar menu with the following items: "Device Info", "DHCP Clients", "Logs", "Statistics", "Route Info" (which is highlighted), and "Logout".

The main content area is titled "ROUTE INFO". It contains the following text:

Flags: U - up, I - reject, G - gateway, H - host, R - reinstate
D - dynamic (redirect), M - modified (redirect).

Below this is a section titled "DEVICE INFO -- ROUTE" which contains a table with the following data:

Destination	Gateway	Subnet Mask	Flags	Metric	Service	Interface
192.168.1.0	0.0.0.0	255.255.255.0	U	0		br0

On the right side of the interface, there is a "Helpful Hints..." section with the text: "Displays the list of the ADSL router's routing table." and a "More..." link.

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DSL-2540B. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.)

1. Why can't I access the web-based configuration utility?

When entering the IP address of the D-Link router (192.168.1.1 for example), you are not connecting to a website on the Internet or have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Internet Explorer 6.0 or higher
 - Firefox 3.0 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

• Configure your Internet settings:

- Go to **Start > Settings > Control Panel**. Double-click the **Internet Options** icon. From the **Security** tab, click the button to restore the settings to their defaults.
 - Click the **Connection** tab and set the dial-up option to Never Dial a Connection. Click the LAN Settings button. Make sure nothing is checked. Click **OK**.
 - Go to the **Advanced** tab and click the button to restore these settings to their defaults. Click **OK** three times.
 - Close your web browser (if open) and open it.
- Access the web management. Open your web browser and enter the IP address of your D-Link router in the address bar. This should open the login page for your the web management.
- If you still cannot access the configuration, unplug the power to the router for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

2. What can I do if I forgot my password?

If you forgot your password, you must reset your router. Unfortunately, this process will change all your settings back to the factory defaults.

To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router. For information about logging into the router see page 12.

Networking Basics

Check your IP address

After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

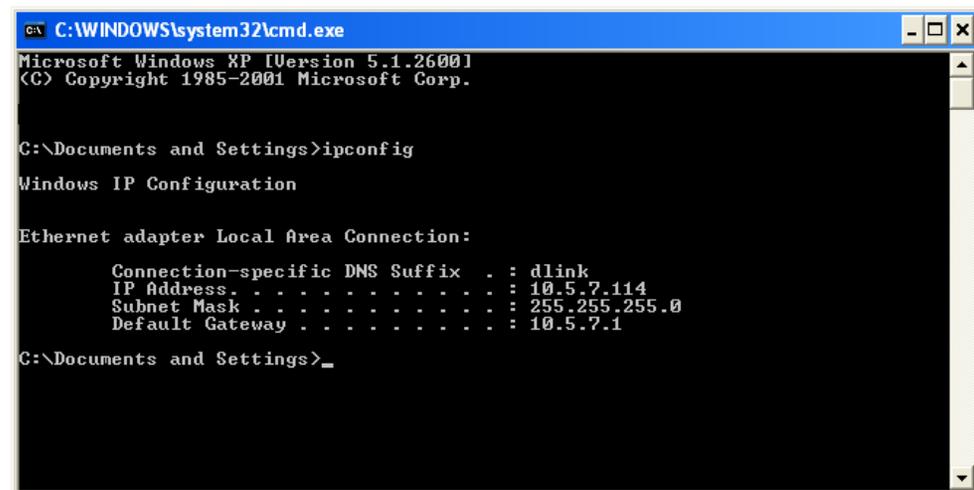
Click on **Start > Run**. In the run box type *cmd* and click **OK**.

At the prompt, type *ipconfig* and press **Enter**.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.

If you are connecting to a wireless network at a hotspot (e.g. hotel, coffee shop, airport), please contact an employee or administrator to verify their wireless network settings.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : dlink
    IP Address . . . . . : 10.5.7.114
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.5.7.1

C:\Documents and Settings>_
```

Statically Assign an IP address

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

Step 1

Windows® XP - Click on **Start > Control Panel > Network Connections**.

Windows® 2000 - From the desktop, right-click **My Network Places > Properties**.

Step 2

Right-click on the **Local Area Connection** which represents your D-Link network adapter and select **Properties**.

Step 3

Highlight **Internet Protocol (TCP/IP)** and click **Properties**.

Step 4

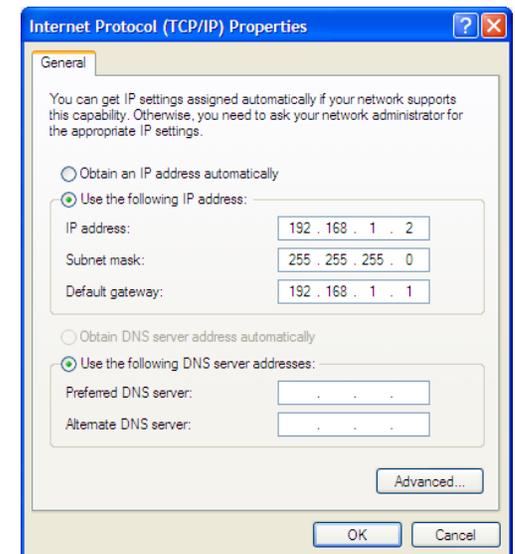
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.1.1, make your IP address 192.168.1.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set Default Gateway the same as the LAN IP address of your router (192.168.1.1).

Set Primary DNS the same as the LAN IP address of your router (192.168.0.1). The Secondary DNS is not needed or you may enter a DNS server from your ISP.

Step 5

Click **OK** twice to save your settings.



Contacting Technical Support

U.S. and Canadian customers can contact D-Link technical support through our web site or by phone.

Before you contact technical support, please have the following ready:

- Model number of the product (e.g. DSL-2540B)
- Hardware Revision (located on the label on the bottom of the router (e.g. rev T1))
- Serial Number (s/n number located on the label on the bottom of the router).

You can find software updates and user documentation on the D-Link website as well as frequently asked questions and answers to technical issues.

For customers within the United States:

Phone Support:

(877) 453-5465

Internet Support:

<http://support.dlink.com>

For customers within Canada:

Phone Support:

(800) 361-5265

Internet Support:

<http://support.dlink.ca>

Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. (“D-Link”) provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, or addresses with an APO or FPO.

Limited Warranty: D-Link warrants that the hardware portion of the D-Link product described below (“Hardware”) will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below (“Warranty Period”), except as otherwise stated herein.

- Hardware (excluding power supplies and fans): One (1) year
- Power supplies and fans: One (1) year
- Spare parts and spare kits: Ninety (90) days

The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement hardware need not be new or have an identical make, model or part. D-Link may, at its option, replace the defective Hardware or any part thereof with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware or part thereof that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty: D-Link warrants that the software portion of the product (“Software”) will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days (“Software Warranty Period”), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and

conditions of the license granted by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty: The Limited Warranty provided hereunder for Hardware and Software portions of D-Link's products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim: The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-453-5465, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA") number by completing the RMA form and entering the assigned Case ID Number at <https://rma.dlink.com/>.
- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the product and will not ship back any accessories.
- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to **D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708**. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer.

D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered: The Limited Warranty provided herein by D-Link does not cover: Products that, in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; and Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product. While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited Warranty.

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CE Mark Warning: This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Statement: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

Registration

Register your product online at support.dlink.com/register



Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

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