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**DSL-2750E**

**User Manual**

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# 1 Introduction

The DSL-2750E supports multiple line modes. It provides four 10/100 base-T Ethernet interfaces at the user end. The device provides high-speed ADSL broadband connection to the Internet or Intranet for high-end users, such as net bars and office users. It provides high performance access to the Internet, downstream up to 24 Mbps and upstream up to 1 Mbps.

The device supports WLAN access, such as WLAN AP or WLAN device, to the Internet. It complies with IEEE 802.11,802.11b/g specifications, WEP, WPA, and WPA2 security specifications.

## 1.1 Package List

- 1 x DSL-2750E
- 1 x external splitter
- 1 x power adapter
- 2 x telephone cables (RJ-11, more than 1.8m)
- 1 x Ethernet cable (RJ-45, more than 1.8m)
- 1 x USB cable (usb, more than 1m)
- 1 x user manual
- 1 x quality guarantee card
- 1 x certificate of quality

## 1.2 Safety Cautions

Follow the following instructions to prevent the device from risks and damage caused by fire or electric power:

- Use volume labels to mark the type of power.
- Use the power adapter packed within the device package.

- Pay attention to the power load of the outlet or prolonged lines. An overburden power outlet or damaged lines and plugs may cause electric shock or fire accident. Check the power cords regularly. If you find any damage, replace it at once.
- Proper space left for heat dissipation is necessary to avoid damage caused by overheating to the device. The long and thin holes on the device are designed for heat dissipation to ensure that the device works normally. Do not cover these heat dissipation holes.
- Do not put this device close to a place where a heat source exits or high temperature occurs. Avoid the device from direct sunshine.
- Do not put this device close to a place where it is over damp or watery. Do not spill any fluid on this device.
- Do not connect this device to any PCs or electronic products, unless our customer engineer or your broadband provider instructs you to do this, because any wrong connection may cause power or fire risk.
- Do not place this device on an unstable surface or support.

## 1.3 LEDs and Interfaces

### Front Panel



Figure 1 Front panel

The following table describes the LEDs of the device.

LED	Color	Status	Description
Power	Green	Off	The power is off.
		On	The power is on and the initialization is normal.

LED	Color	Status	Description
	Red	On	The device is initiating.
		Blinks	The firmware is upgrading.
LAN 1/2/3/4	Green	Off	No LAN link.
		Blinks	Data is being transmitted through the LAN interface.
		On	The connection of LAN interface is normal.
WPS	Blue	Blinks	WPS negotiation is enabled, waiting for the clients.
		Off	WPS negotiation is not enabled on the device.
WLAN Off	Green	Blinks	Data is transmitted through the WLAN interface.
		On	The connection of WLAN interface is normal.
		Off	The WLAN connection is not established.
DSL	Green	Off	Initial self-test is failed.
		Blinks	The device is detecting itself.
		On	Initial self-test of the unit has passed and is ready.
USB	Green	Blinks	Data is transmitted through the USB interface.
		Off	USB negotiation is not enabled on the device.
Internet	Green	Off	The device is under the Bridge mode, DSL connection is not present, or the power is off.
		On	IP is connected.
	Red	On	The device is attempted to become IP connected, but failed.

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## Rear Panel

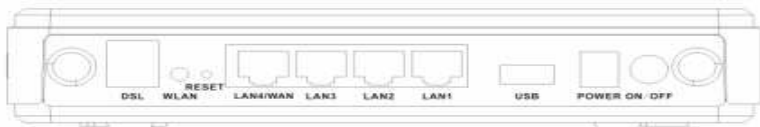



Figure 2 Rear panel

The following table describes the interface of the device.

Interface/Button	Description
DSL	RJ-11 interface that connects to the telephone set through the telephone cable.
LAN1/2/3/4	Ethernet RJ-45 interfaces that connect to the Ethernet interfaces of computers or Ethernet devices.
Power	Interface that connects to the power adapter.
Reset	Reset to the factory defaults. To restore factory defaults, keep the device powered on and push a paper clip into the hole. Press down the button for over 5 seconds and release.
	Power on or off.

## 1.4 System Requirements

Recommended system requirements are as follows:

- An 10 baseT/100BaseT Ethernet card is installed on your PC
- A hub or switch (attached to several PCs through one of Ethernet interfaces on the device)
- Operating system: Windows 98SE, Windows 2000, Windows ME, or Windows XP
- Internet Explorer V5.0 or higher, Netscape V4.0 or higher, or Firefox 1.5 or higher

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## 1.5 Features

The device supports the following features:

- Various line modes
- External PPPoE dial-up access
- Internal PPPoE and PPPoA dial-up access
- Leased line mode
- Zero installation PPP bridge mode (ZIPB)
- 1483B, 1483R, and MER access
- Multiple PVCs (eight at most) and these PVCs can be isolated from each other
- A single PVC with multiple sessions
- Multiple PVCs with multiple sessions
- Binding of ports with PVCs
- 802.1Q and 802.1P protocol
- DHCP server
- NAT and NAPT
- Static route
- Firmware upgrade: Web, TFTP
- Reset to the factory defaults
- DNS relay
- Virtual server
- DMZ
- Two-level passwords and user names
- Web user interface
- Telnet CLI
- System status display
- PPP session PAP and CHAP
- IP filter
- IP QoS
- Remote access control
- Line connection status test
- Remote management (telnet and HTTP)
- Backup and restoration of configuration file
- Ethernet interface supports crossover detection, auto-correction and polarity correction



- 
- UPnP

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## 2 Hardware Installation

**Step 1** Connect the DSL port of the device and the Modem port of the splitter with a telephone cable. Connect the phone to the Phone port of the splitter through a telephone cable. Connect the incoming line to the Line port of the splitter.

The splitter has three ports:

- Line: Connect to a wall phone port (RJ-11 jack).
- Modem: Connect to the DSL port of the device.
- Phone: Connect to a telephone set.

**Step 2** Connect the LAN port of the device to the network card of the PC through an Ethernet cable (MDI/MDIX).

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### Note:

Use twisted-pair cables to connect with the Hub or switch.

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**Step 3** Plug one end of the power adapter to the wall outlet and connect the other end to the Power port of the device.

Connection 1: Figure 3 displays the application diagram for the connection of the device, PC, splitter and telephone sets, when no telephone set is placed before the splitter.

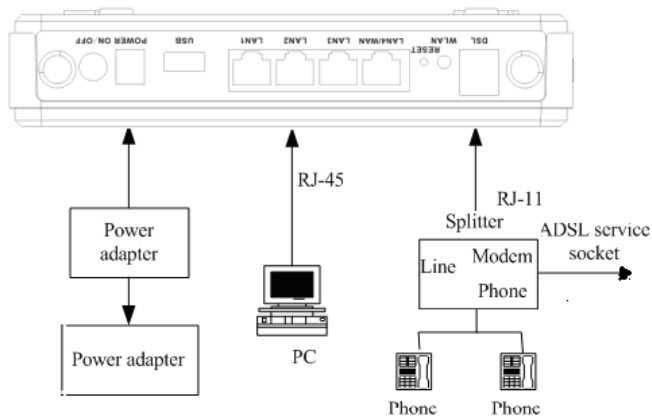
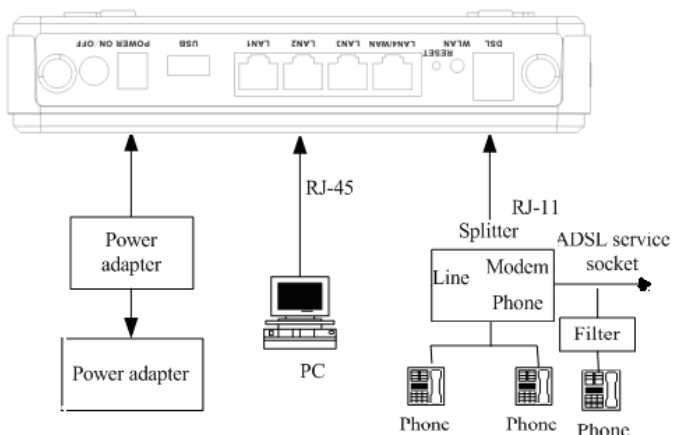


Figure 3 Connection diagram (without telephone sets before the splitter)

Connection 2: Figure 4 displays the application diagram for the connection of the device, PC, splitter and telephone sets when a telephone set is placed before the splitter.

As illustrated in the following figure, the splitter is installed close to the device.



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Figure 4 Connection diagram (with a telephone set before the splitter)  
Connection 1 is recommended.

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**Note:**

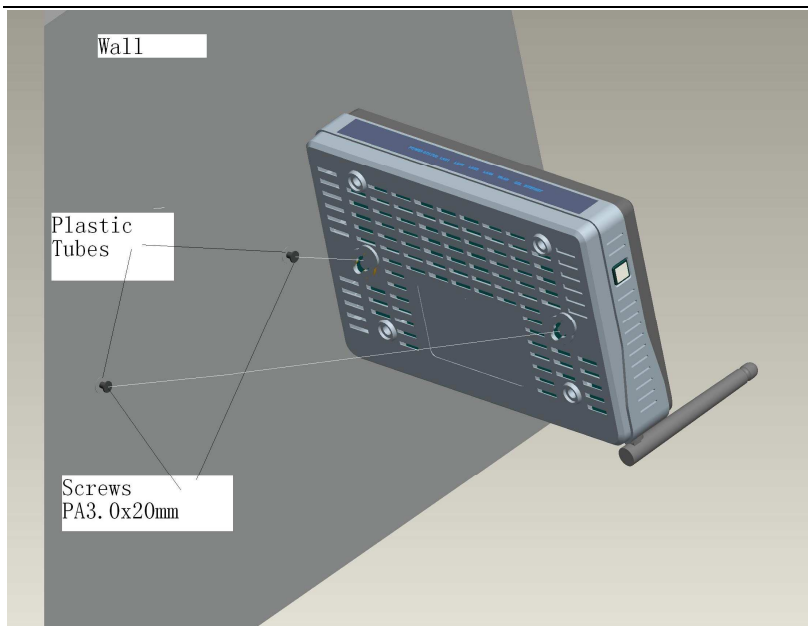
When connection 2 is used, the filter must be installed close to the telephone cable. See Figure 4. Do not use the splitter to replace the filter.

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Installing a telephone directly before the splitter may lead to failure of connection between the device and the central office, or failure of Internet access, or slow connection speed. If you really need to add a telephone set before the splitter, you must add a microfilter before a telephone set. Do not connect several telephones before the splitter or connect several telephones with the microfilter.

Figure 5 Wall Mount Description.

The device can be hung on the wall, as shown in annex pictures



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## 3 About the Web Configurator

This chapter describes how to configure the device by using the Web-based configuration utility.

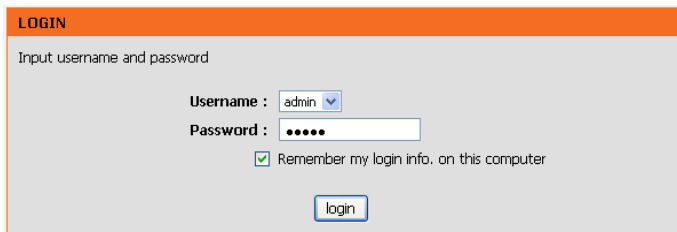
### 3.1 Access the Device

The following is the detailed description of accessing the device for the first time.

**Step 1** Open the Internet Explorer (IE) browser and enter <http://192.168.1.1>.

**Step 2** The **Login** page shown in the following figure appears. Enter the user name and password.

- The user name and password of the super user are **admin** and **admin**.
- The user name and password of the normal user are **user** and **user**.



The screenshot shows a web browser window with an orange title bar labeled "LOGIN". Below the title bar, the text "Input username and password" is displayed. The form contains two input fields: "Username" with a dropdown menu showing "admin" and a small blue arrow, and "Password" with a text box containing six black dots. Below these fields is a checkbox labeled "Remember my login info. on this computer" which is checked. At the bottom center of the form is a blue "login" button.

If you log in as the super user successfully, the page shown in the following figure appears.

D-Link					
DSL-2750E	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Wizard	<b>SETTING UP YOUR INTERNET</b> 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.				<b>Helpful Hints...</b> First time users are recommended to run the <b>Setup Wizard</b> . Click the <b>Setup Wizard</b> 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 <b>Setup -&gt; Internet Setup</b> to input all the settings manually.  <a href="#">More...</a>
Internet Setup	Please make sure you have your ISP's connection settings first if you choose manual setup.				
Wireless Setup	<b>INTERNET CONNECTION WIZARD</b> 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. <div style="text-align: center;"> <input type="button" value="Setup Wizard"/> </div> <p><b>Note:</b> Before launching the wizard, please ensure you have correctly followed the steps outlined in the Quick Installation Guide included with the router.</p>				
Local Network					
Time and Date					
Logout					

If the login information is incorrect, the page shown in the following figure appears. Click **Try Again** to log in again.



## 3.2 Setup

### 3.2.1 Wizard

**Wizard** enables fast and accurate configuration of Internet connection and other important parameters. The following sections describe these various configuration parameters. When subscribing to a broadband service, you should be aware of the method, by which you are connected to the

Internet. Your physical WAN device can be Ethernet, DSL, or both. Technical information about the properties of your Internet connection is provided by your Internet service provider (ISP). For example, your ISP should inform you whether you are connected to the Internet using a static or dynamic IP address, or the protocol, such as PPPoA or PPPoE, that you use to communicate over the Internet.

**Step 1** Choose **Setup > Wizard**. The page shown in the following figure appears.

The screenshot shows the D-Link web interface for a DSL-Z750E router. At the top is the D-Link logo. Below it is a navigation bar with tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The SETUP tab is active. On the left is a sidebar menu with options: Wizard, Internet Setup, Wireless 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." Below this is a sub-section titled "INTERNET CONNECTION WIZARD" with the text: "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." A "Setup Wizard" button is centered below the text. A note at the bottom states: "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 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." and "If you consider yourself an advanced user or have configured a router before, click Setup->Internet Setup to input all the settings manually." A "More..." link is also present.

**Step 2** Click **Setup Wizard**. The page shown in the following figure appears.

The screenshot shows the "WELCOME TO D-LINK SETUP WIZARD" page. It features the D-Link logo at the top. The main content area contains the text: "This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet." Below this text is a list of five steps: "• Step 1: Change Device Login Password", "• Step 2: Set Time and Date", "• Step 3: Setup Internet Connection", "• Step 4: Configure Wireless Network", and "• Step 5: Completed and Restart". At the bottom of the page are two buttons: "Next" and "Cancel".



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**Step 3** There are five steps to configure the device. Click **Next** to continue.

**Step 4** Change the password for logging in to the device.

**D-Link**

The screenshot shows a configuration page for a D-Link router. At the top, there is a navigation bar with the text "STEP 1: CHANGE DEVICE LOGIN PASSWORD" followed by arrows and numbers "2", "3", "4", and "5". Below this, a paragraph of text reads: "The factory default password of this router is admin. To help secure your network, D-Link recommends that you should choose a new password. If you do not wish to choose a new password now, just click 'Skip' to continue. Click 'Next' to proceed to next step." Underneath the text are three input fields labeled "Current Password:", "New Password:", and "Confirm Password:". At the bottom of the form are four buttons: "Back", "Next", "Skip", and "Cancel".

The default password is **admin**. To secure your network, modify the password timely.

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**Note:**

Confirm password must be the same as the new password.

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To ignore the step, click **Skip**.

**Step 5** Set the time and date.

## STEP 1: SET TIME AND DATE → 2 → 3 → 4

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From 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.

### TIME SETTING

Automatically synchronize with Internet time servers

1st NTP time server :

2th NTP time server :

### TIME CONFIGURATION

Time Zone :

Enable Daylight Saving

Daylight Saving Start :  Year  Mon  Day  Hour  Min  Sec

Daylight Saving End :  Year  Mon  Day  Hour  Min  Sec

## Step 6 Configure the Internet connection.

Select the country and ISP. Set the VPI and VCI. If you fail to find the country and ISP from the drop-down lists, select **Others**. Click **Next**. If the **Protocol** is **PPPoE** or **PPPoA**, the page shown in either of the two following figures appears.

### PPPoE

Please enter your Username and Password as provided by your ISP (Internet Service Provider). Please enter the information exactly as shown taking note of upper and lower cases. Click "Next" to continue.

Username :

Password :

Confirm Password :

**PPPoA**

Please enter your Username and Password as provided by your ISP (Internet Service Provider). Please enter the information exactly as shown taking note of upper and lower cases. Click "Next" to continue.

Username :

Password :

Confirm Password :

Set the user name and password.

If the **Protocol** is **Static IP**, the page shown in the following figure appears.

**STATIC IP**

You have selected Static IP Internet connection. Please enter the appropriate information below as provided by your ISP.

The Auto PVC Scan feature will not work in all cases so please enter the VPI/VCI numbers if provided by the ISP.

Click Next to continue.

IP Address :

Subnet Mask :

Default Gateway :

Primary DNS Server :

Enter the **IP Address**, **Subnet Mask**, **Default Gateway**, and **Primary DNS Server**. Click **Next**. The page shown in the following page appears.

**1 → 2 → STEP 3: CONFIGURE WIRELESS NETWORK → 4**

Your wireless network is enabled by default. You can simply uncheck it to disable it and click "Next" to skip configuration of wireless network.

**Enable Your Wireless Network :**

Your wireless network needs a name so it can be easily recognized by wireless clients. For security purposes, it is highly recommended to change the pre-configured network name.

**Wireless Network Name (SSID) :**

Select "Visible" to publish your wireless network and SSID can be found by wireless clients, or select "Invisible" to hide your wireless network so that users need to manually enter SSID in order to connect to your wireless network.

**Visibility Status :**  Visible  Invisible

In order to protect your network from hackers and unauthorized users, it is highly recommended you choose one of the following wireless network security settings.

<b>None</b>	<b>Security Level</b>	<b>Best</b>	
<input checked="" type="radio"/> None	<input type="radio"/> WEP	<input type="radio"/> WPA-PSK	<input type="radio"/> WPA2-PSK

**Security Mode:**None

Select this option if you do not want to activate any security features.

**Step 7** Configure the wireless network. Enter the information and click **Next**.

**1 → 2 → 3 → STEP 4: COMPLETED AND RESTART**

Setup complete. Click "Back" to review or modify settings. Click "Restart" to apply current settings and reboot the DSL-2640B router.

If your Internet connection does not work after restart, you can try the Setup Wizard again with alternative settings or use Manual Setup instead if you have your Internet connection details as provided by your ISP.

**SETUP SUMMARY**

Below is a detailed summary of your settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.

Time Settings :	1
NTP Server 1 :	192.168.2.10
NTP Server 2 :	192.168.2.100
Time Zone :	-08:00
Daylight Saving Time :	0
VPI / VCI :	0/35
Protocol :	PPPoE
Connection Type :	LLC
Username :	DD
Password :	DD
Wireless Network Name (SSID) :	dlink_
Visibility Status :	1
Encryption :	Basic
Pre-Shared Key :	
WEP Key :	0123456789

**Note:**

In each step of the Wizard page, you can click **Back** to review or modify the previous settings. Click **Cancel** to exit the wizard page.

## 3.2.2 Internet Setup

Choose **Setup > Internet Setup**. The page shown in the following figure appears. In this page, you can configure the WAN interface of the device.

## INTERNET SETUP

Choose "Add", "Edit", or "Delete" to configure WAN interfaces.

If you want to change WAN access type, you can click on "Ethernet" or "DSL".

WAN Access Type :  Ethernet  DSL

Apply

Cancel

## WAN SETUP

	VPI/VCI	VLAN ID	ENCAP	Service Name	Protocol	State	Status	Default Gateway	Action
<input type="checkbox"/>	0/35	0	LLC	pppoe_0_35_0_0	PPPoE	1	Connection	<input type="checkbox"/>	Disconnect

Add

Edit

Delete

Click **Add**. The page shown in the following figure appears.

## INTERNET SETUP

This screen allows you to configure an ATM PVC identifier (VPI and VCI) and select a service category.

### ATM PVC CONFIGURATION

VPI :  (0-255)

VCI :  (32-65535)

Service Category :  ▼

Peak Cell Rate :  (cells/s)

Sustainable Cell Rate :  (cells/s)

Maximum Burst Size :  (cells)

### CONNECTION TYPE

Protocol :  ▼

Encapsulation Mode :  ▼

802.1Q VLAN ID :  VLAN

### NETWORK ADDRESS TRANSLATION SETTINGS

Enable Bridge Service :

Service Name :

Click **Next**. The page shown in the following figure appears.

---

### Note:

There are two wan mode you can choose, on is dsl mode, the other is eth mode. when change between them, you should reboot you modem

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## 3.2.3 Wireless Setup

This section describes the wireless LAN and some basic configuration. Wireless LANs can be as simple as two computers with wireless LAN cards communicating in a peer-to-peer network or as complex as a number of computers with wireless LAN cards communicating through access points which bridge network traffic to wired LAN.

Choose **Setup > Wireless Setup**. The **Wireless Setup** page shown in the following figure appears.

DSL-2750E	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Wizard	WIRELESS SETTINGS -- WIRELESS BASICS				
Internet Setup	Configure your wireless basic settings.				
Wireless Setup	<input type="button" value="Wireless Basics"/>				
Local Network					
Time and Date	WIRELESS SETTINGS -- WIRELESS SECURITY				
Logout	Configure your wireless security settings.				
	<input type="button" value="Wireless security"/>				

### 3.2.3.1 Wireless Basics

In the **Wireless Setup** page, click **Wireless Basics**. The page shown in the following figure appears. In this page, you can configure the parameters of wireless LAN clients that may connect to the device.



SETUP	ADVANCED	MANAGEMENT	STATUS
-------	----------	------------	--------

**WIRELESS BASIC**

Use this section to configure the wireless settings for your D-Link router. Please note that changes made in this section will also need to be duplicated to your wireless clients and PC.

**WIRELESS NETWORK SETTINGS**

Enable Wireless:

Enable MultiAP Isolation:

Wireless Network Name (SSID):

Visibility Status:  Visible  Invisible

Wireless Channel:

802.11 Mode:

Band Width:

Please take note of your SSID as you will need to duplicate the same settings to your wireless devices and PC.

- **Enable Wireless:** Select this to turn Wi-Fi on and off.
- **Enable MultiAP Isolation:** Select this to turn MultiAP isolation on and off.
- **Wireless Network Name (SSID):** The Wireless Network Name is a unique name that identifies a network. All devices on a network must share the same wireless network name in order to communicate on the network. If you decide to change the wireless network name from the default setting, enter your new wireless network name in this field.
- **Visibility Status:** You can select visible or invisible.
- **Wireless Channel:** Select the wireless channel from the pull-down menu. It is different for different country.
- **802.11 Mode:** Select the appropriate 802.11 mode based

on the wireless clients in your network. The drop-down menu options are 802.11g Only, 802.11b/g, 802.11b Only, 802.11n Only, or 802.11b/g/n.

- **Band Width:** Select the appropriate band width between 20 M or 40 M from the pull-down menu.

Click **Apply** to save the settings.

### 3.2.3.2 Wireless Security

In the **Wireless Setup** page, click **Wireless Security**. The page shown in the following figure appears. Wireless security is vital to your network to protect the wireless communication among wireless stations, access points and wired network.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>WIRELESS SECURITY</b>			
Use this section to configure the wireless security settings for your D-Link router. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.			
<b>WIRELESS SECURITY MODE</b>			
To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA and WPA2. WEP is the original wireless encryption standard. WPA and WPA2 provides a higher level of security.			
WPS: The condition of use WPS, Must choose WPA-PSK/WPA2-PSK Security, and broadcast the SSID.			
Security Mode : <input type="text" value="None"/>			
Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.			
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>			

Click **Apply** to save the settings.

---

## 3.2.4 Local Network

You can configure the LAN IP address according to the actual application. The preset IP address is 192.168.1.1. You can use the default settings and DHCP service to manage the IP settings for the private network. The IP address of the device is the base address used for DHCP. To use the device for DHCP on your LAN, the IP address pool used for DHCP must be compatible with the IP address of the device. The IP address available in the DHCP IP address pool changes automatically if you change the IP address of the device.

You can also enable the secondary LAN IP address. The two LAN IP addresses must be in different networks.

Choose **Setup > Local Network**. The **Local Network** page shown in the following figure appears.

### 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

**IP Address :**

**Subnet Mask :**

By default, **Enable DHCP Server** is selected for the Ethernet LAN interface of the device. DHCP service supplies IP settings

to workstations configured to automatically obtain IP settings that are connected to the device through the Ethernet port. When the device is used for DHCP, it becomes the default gateway for DHCP client connected to it. If you change the IP address of the device, you must also change the range of IP addresses in the pool used for DHCP on the LAN. The IP address pool can contain up to 253 IP addresses.

#### 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 :  (seconds)

Click **Apply** to save the settings.

In the **Local Network** page, you can assign IP addresses on the LAN to specific individual computers based on their MAC addresses.

#### DHCP RESERVATIONS LIST

Status

Computer Name

MAC Address

IP Address

Click **Add** to add static DHCP (optional). The page shown in the following figure appears.

#### ADD DHCP RESERVATION (OPTIONAL)

Enable :

Computer Name :

IP Address :

MAC Address :

---

Select **Enable** to reserve the IP address for the designated PC with the configured MAC address.

The **Computer Name** helps you to recognize the PC with the MAC address. For example, Father's Laptop.

Click **Apply** to save the settings.

After the DHCP reservation is saved, the DHCP reservations list displays the configuration.

If the DHCP reservations list table is not empty, you can select one or more items and click **Edit** or **Delete**.

The **NUMBER OF DYNAMIC DHCP CLIENTS** page shows the current DHCP clients (PC or Laptop) connected to the device and the detailed information of the connected computer(s).

NUMBER OF DYNAMIC DHCP CLIENTS : 0

Computer Name

MAC Address

IP Address

Expire Time

## 3.2.5 Time and Date

Choose **Setup > Time and Date**. The page shown in the following figure appears.

## TIME AND DATE

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From 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.

## TIME SETTING

Automatically synchronize with Internet time servers

1st NTP time server : 192.168.2.10

2th NTP time server : 192.168.1.10

## TIME CONFIGURATION

Current Local Time: 2000-01-01 01:45:30

Time Zone: (GMT+08:00) Beijing, Hong Kong

Enable Daylight Saving

Daylight Saving Start: 2000 Year 04 Mon 01 Day 02 Hour 00 Min 00 Sec

Daylight Saving End: 2000 Year 09 Mon 01 Day 02 Hour 00 Min 00 Sec

Apply

Cancel

In the **Time and Date** page, you can configure, update, and maintain the correct time on the internal system clock. You can set the time zone that you are in and the network time protocol (NTP) server. You can also configure daylight saving to automatically adjust the time when needed.

Select **Automatically synchronize with Internet time servers**.

Select the specific time server and the time zone from the corresponding drop-down lists.

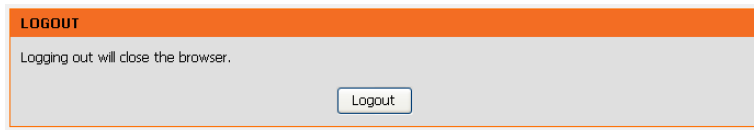
Select **Enable Daylight Saving** if necessary. Select the proper **Daylight Saving Offset** from the drop-down list and set the daylight saving dates.

Click **Apply** to save the settings.

---

## 3.2.6 Logout

Choose **Setup > Logout**. The page shown in the following figure appears. In this page, you can log out of the configuration page.



## 3.3 Advanced

This section includes advanced features used for network management, security and administrative tools to manage the device. You can view status and other information that are used to examine performance and troubleshoot.

### 3.3.1 Advanced Wireless

This function is used to modify the standard 802.11g wireless radio settings. It is recommend not to change the default settings, because incorrect settings may impair the performance of your wireless radio. The default settings provide the best wireless radio performance in most environments.

Choose **ADVANCED > Advanced Wireless**. The page shown in the following figure appears.

DSL-2750E //	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Advanced Wireless	<b>ADVANCED WIRELESS -- ADVANCED SETTINGS</b>				
Port Forwarding	Allows you to configure advanced features of the wireless LAN interface.				
Port Triggering	<input type="button" value="Advanced Settings"/>				
DMZ					
Parental Control	<b>ADVANCED WIRELESS -- MAC FILTERING</b>				
Filtering Options	Allows you to configure wireless firewall by denying or allowing designated MAC addresses.				
Firewall Settings	<input type="button" value="MAC Filtering"/>				
DNS					
Dynamic DNS					
Network Tools	<b>ADVANCED WIRELESS -- SECURITY SETTINGS</b>				
Routing	Allows you to configure security features of the wireless LAN interface.				
Schedules	<input type="button" value="Security Settings"/>				
Logout					

### 3.3.1.1 Advanced Settings

Select **Advance Settings**. The page shown in the following figure appears.



## ADVANCED SETTINGS

These options are for users that wish to change the behaviour of their 802.11g wireless radio from the standard setting. D-Link does not recommend changing these settings from the factory default. Incorrect settings may impair the performance of your wireless radio. The default settings should provide the best wireless radio performance in most environments.

## ADVANCED WIRELESS SETTINGS

Transmission Rate : Multicast Rate : Transmit Power : Beacon Period :  (20 ~ 1024)RTS Threshold :  (0 ~ 2347)Fragmentation Threshold :  (256 ~ 2346)DTIM Interval :  (1 ~ 255)Preamble Type : 

## SSID

Enable Wireless : Wireless Network Name (SSID) : Visibility Status :  Visible  InvisibleUser Isolation : Disable WMM Advertise : Max Clients :  (0 ~ 32)

## GUEST/VIRTUAL ACCESS POINT-1

Enable Wireless Guest Network : Guest SSID : Visibility Status :  Visible  InvisibleUser Isolation :

These settings are only for more technically advanced users who have sufficient knowledge about wireless LAN. Do not change these settings unless you know the effect of changes on the device.

**GUEST/VIRTUAL ACCESS POINT-3**

Enable Wireless Guest Network :

Guest SSID :

Visibility Status :  Visible  Invisible

User Isolation :  ▾

Disable WMM Advertise :  ▾

Max Clients :  (0 ~ 32)

Click **Apply** to save the settings.

### 3.3.1.2 MAC Filtering

Select **MAC Filtering**. The page shown in the following figure appears.

**SETUP**    **ADVANCED**    **MANAGEMENT**    **STATUS**

**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
----------	-----	----------

### 3.3.1.3 Security Settings

Select **Security Settings**. The page shown in the following figure appears.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>WIRELESS SECURITY</b>			
Use this section to configure the wireless security settings for your D-Link router. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.			
<b>WIRELESS SSID</b>			
Select SSID : <input type="text" value="tbs_dlink_0"/>			
<b>WIRELESS SECURITY MODE</b>			
To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA and WPA2. WEP is the original wireless encryption standard. WPA and WPA2 provides a higher level of security.			
<b>WPS:</b> The condition of use WPS, Must choose WPA-PSK/WPA2-PSK Security, and boardcast the SSID.			
Security Mode : <input type="text" value="None"/>			
Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.			
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>			

Select the SSID that you want to configure from the drop-down list.

Select the encryption type from the **Security Mode** drop-down list. You can select **None**, **WEP**, **AUTO (WPA or WPA2)**, **WPA Only**, or **WPA2 Only**.

If you select **WEP**, the page shown in the following figure appears.

## WEP

If you choose the WEP security option this device will **ONLY** operate in **Legacy Wireless mode (802.11B/G)**.

WEP is the wireless encryption standard. To use it you must enter the same key(s) into the router and the wireless stations. For 64 bit keys you must enter 10 hex digits into each key box. For 128 bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. For the most secure use of WEP set the authentication type to "Shared Key" when WEP is enabled.

You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64 bit keys, and a maximum of 13 characters for 128 bit keys.

**WEP Key Length :** 128 bit(26 hex digits)  (length applies to all keys)

**WEP Key 1 :**

**WEP Key 2 :**

**WEP Key 3 :**

**WEP Key 4 :**

**Authentication :** Open

Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.

Apply

Cancel

If you select **AUTO (WPA or WPA2)**, **WPA Only**, or **WPA2 Only**, the page shown in the following figure appears.

## WPA

Use **WPA or WPA2** mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use **WPA2 Only** mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use **WPA Only**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

To achieve better wireless performance use **WPA2 Only** security mode (or in other words AES cipher).

WPA-PSK does not require an authentication server. The WPA option requires an external RADIUS server.

WPA Mode :  ▼

Group Key Update Interval :  (seconds)

## PRE-SHARED KEY

Pre-Shared Key :

Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.

Click **Apply** to save the settings.

## 3.3.2 Port Forwarding

This function is used to open ports in your device and re-direct data through those ports to a single PC on your network (WAN-to-LAN traffic). It allows remote users to access services on your LAN, such as FTP for file transfers or SMTP and POP3 for e-mail. The device accepts remote requests for these services at your global IP address. It uses the specified TCP or UDP protocol and port number, and redirects these requests to the server on your LAN with the LAN IP address you specify. Note that the specified private IP address must be within the available range of the subnet where the device is in.

Choose **ADVANCED > Port Forwarding**. The page shown in the following figure appears.

**PORT FORWARDING**

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.

Select the service name, and enter the server IP address and click "Apply" to forward IP packets for this service to the specified server. **NOTE: you had better not modify "Internal Port End". It is the same as "External Port End" normally and will be the same as the "Internal Port Start" or "External Port End" if either one is modified.**

**PORT FORWARDING SETUP**

Server Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Server IP Address	Schedule Rule	Remote IP
-------------	---------------------	-------------------	----------	---------------------	-------------------	-------------------	---------------	-----------

[Add](#) [Edit](#) [Delete](#)

Click **Add** to add a virtual server.

## PORT FORWARDING SETUP

Remaining number of entries that can be configured: 32

WAN Connection(s) :

Server Name :

Select a Service : (Click to Select)

Custom Server :

Schedule : Always  [View Available Schedules](#)

Server IP Address :

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

Select a service for a preset application, or enter a name in the **Custom Server** field.

Enter an IP address in the **Server IP Address** field, to appoint the corresponding PC to receive forwarded packets.

The Ports show the ports that you want to open on the device.

The **TCP/UDP** means the protocol type of the opened ports.

Click **Apply** to save the settings. The page shown in the following figure appears. A virtual server is added.

#### PORT FORWARDING

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.

Select the service name, and enter the server IP address and click "Apply" to forward IP packets for this service to the specified server. **NOTE: you had better not modify "Internal Port End". It is the same as "External Port End" normally and will be the same as the "Internal Port Start" or "External Port End" if either one is modified.**

#### PORT FORWARDING SETUP

	Server Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Server IP Address	Schedule Rule	Remote IP
<input type="checkbox"/>	AUTH	113	113	tcp	113	113	192.168.1.2	Always	

Add

Edit

Delete

### 3.3.3 DMZ

Since some applications are not compatible with NAT, the device supports the use of a DMZ IP address for a single host on the LAN. This IP address is not protected by NAT and it is visible to agents on the Internet with the correct type of software. Note that any client PC in the DMZ is exposed to various types of security risks. If you use the DMZ, take measures (such as client-based virus protection) to protect the remaining client PCs on your LAN from possible contamination through DMZ.

Choose **ADVANCED** > **DMZ**. The page shown in the following figure appears.



## 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

WAN Connection :

Enable DMZ :

DMZ Host IP Address :

Apply

Cancel

Click **Apply** to save the settings.

## 3.3.4 Parental Control

Choose **ADVANCED > Parental Control**. The **Parent Control** page shown in the following figure appears.

SETUP	ADVANCED	MANAGEMENT	STATUS	HELP
<b>PARENTAL CONTROL -- BLOCK WEBSITE</b>				
Uses URL (i.e. www.yahoo.com) to implement filtering.				
<input type="button" value="Block Website"/>				
<b>PARENTAL CONTROL -- BLOCK MAC ADDRESS</b>				
Uses MAC address to implement filtering.				
<input type="button" value="Block MAC Address"/>				

This page provides two useful tools for restricting the Internet access. **Block Websites** allows you to quickly create a list of all websites that you wish to stop users from accessing.

**Block MAC Address** allows you to control when clients or PCs connected to the device are allowed to access the Internet.

### 3.3.4.1 Block Website

In the **Parent Control** page, click **Block Website**. The page shown in the following figure appears.

**SETUP**    **ADVANCED**    **MANAGEMENT**    **STATUS**

**BLOCK WEBSITE**

This page allows you to block websites. If enabled, the websites listed here will be denied access to clients trying to browse that website.

URL	Schedule
-----	----------

Click **Add**. The page shown in the following page appears.

**ADD SCHEDULE RULE**

URL :

**Schedule** :  [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)

Enter the website in the **URL** field. Select the **Schedule** from drop-down list, or select **Manual Schedule** and select the corresponding time and days.

Click **Apply** to add the website to the **BLOCK WEBSITE Table**. The page shown in the following figure appears.

**SETUP**    **ADVANCED**    **MANAGEMENT**    **STATUS**

**BLOCK WEBSITE**

This page allows you to block websites. If enabled, the websites listed here will be denied access to clients trying to browse that website.

**BLOCK WEBSITE**

	URL	Schedule
<input type="checkbox"/>	www.xxx.com	Always

### 3.3.4.2 Block MAC Address

In the **Parent Control** page, click **Block MAC Address**. The page shown in the following figure appears.

**SETUP**    **ADVANCED**    **MANAGEMENT**    **STATUS**

**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
----------	-----	----------

Click **Add**. The page shown in the following figure appears.

**ADD SCHEDULE RULE**

User Name :

Current PC's MACAddress :

Other MAC Address :

Schedule :  [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)

Enter the use name and MAC address and select the corresponding time and days. Click **Apply** to add the MAC address to the **BLOCK MAC ADDRESS Table**. The page shown in the following figure appears.

SETUP
ADVANCED
MANAGEMENT
STATUS

**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="checkbox"/>	aa	00:11:22:33:44:55	Always

Add
Edit
Delete

### 3.3.5 Filtering Options

Choose **ADVANCED > Filtering Options**. The **Filtering Options** page shown in the following figure appears.

SETUP
ADVANCED
MANAGEMENT
STATUS
HELP

**FILTERING OPTIONS -- INBOUND IP FILTERING**

Manage incoming traffic.

Inbound IP Filtering

**FILTERING OPTIONS -- OUTBOUND IP FILTERING**

Manage outgoing traffic.

Outbound IP Filter

**FILTERING OPTIONS -- BRIDGE FILTERING**

Uses MAC address to implement filtering. Usefull only in bridge mode.

Bridge Filtering

### 3.3.5.1 Inbound IP Filtering

In the **Filtering Options** page, click **Inbound IP Filtering**. The page shown in the following figure appears.

**SETUP**    **ADVANCED**    **MANAGEMENT**    **STATUS**

**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.

packets match the rule will be discarded.

**ACTIVE INBOUND FILTER**

Name	VPI/VCI	Protocol	Source Address	Source Port	Dest. Address	Dest. Port	Schedule Rule
------	---------	----------	----------------	-------------	---------------	------------	---------------

Click **Add** to add an inbound IP filter. The page shown in the following figure appears.

## INCOMING IP FILTERING

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](#)

WAN Interfaces (Configured in Routing mode and with firewall enabled only)

WAN Interfaces :

Enter the **Filter Name** and specify at least one of the following criteria: protocol, source/destination IP address, subnet mask, and source/destination port.

Click **Apply** to save the settings.

---

### Note:

The settings only apply when the firewall is enabled.

---

The **ACTIVE INBOUND FILTER** shows detailed information about each created inbound IP filter. Click **Remove** to remove an IP filter (only appears when an IP filter exists).

### 3.3.5.2 Outbound IP Filtering

By default, all outgoing IP traffic from the LAN is allowed. The outbound filter allows you to create a filter rule to block outgoing IP traffic by specifying a filter name and at least one condition.

In the **Filtering Options** page, click **Outbound IP Filtering**. The page shown in the following figure appears.

**SETUP**    **ADVANCED**    **MANAGEMENT**    **STATUS**

#### OUTCOMING IP FILTERING

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.

#### ACTIVE INBOUND FILTER

Name	Protocol	Source Address	Source Port	Dest. Address	Dest. Port	Schedule Rule
------	----------	----------------	-------------	---------------	------------	---------------

Click **Add** to add an outbound IP filter. The page shown in the following figure appears.



**OUTCOMING 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](#)

Enter the **Filter Name** and specify at least one of the following criteria: protocol, source/destination IP address, subnet mask, and source/destination port. Click **Apply** to save the settings.

The **ACTIVE OUTBOUND IP FILTER** shows detailed information about each created outbound IP filter. Click **Remove** to remove an IP filter (only appears when an IP filter exists).

### 3.3.5.3 Bridge Filtering

In the **Filtering Options** page, click **Bridge Filtering**. The page shown in the following figure appears. This page is used to configure bridge parameters. In this page, you can change the settings or view some information of the bridge and its attached ports.

## BRIDGE FILTER

Bridge Filtering is only effective on ATM PVCs configured in Bridge mode. ALLOW means that all MAC layer frames will be ALLOWED except those matching with any of the specified rules in the following table. DENY means that all MAC layer frames will be DENIED except those matching with any of the specified rules in the following table.

Create a filter to identify the MAC layer frames by specifying at least one condition below. If multiple conditions are specified, all of them 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.**

## Bridge Filtering Global Policy:

- ALLOW** all packets but **DENY** those matching any of specific rules listed  
 **DENY** all packets but **ALLOW** those matching any of specific rules listed

Apply

Cancel

## DISPLAY LIST

VPI/VCI

protocol

DMAC

SMAC

DIR

TIME

Add

Edit

Delete

Click **Add** to add a bridge filter. The page shown in the following figure appears.

## ADD BRIDGE FILTER

Protocol Type: (Click to Select) ▾

Destination MAC Address: Source MAC Address: 

Frame Direction: WAN=&gt;LAN ▾

Time schedule: Always ▾ [View Available Schedules](#)

Wan interface: select\_all ▾

Apply

Cancel

Click **Apply** to save the settings.

### 3.3.6 Firewall Settings

A denial-of-service (DoS) attack is characterized by an explicit attempt by attackers to prevent legitimate users of a service from using that service.

Port scan protection is designed to block attempts to discover vulnerable ports or services that might be exploited in an attack from the WAN.

Choose **ADVANCED > Firewall Settings**. The page shown in the following figure appears.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>FIREWALL SETTINGS</b>			
Click "Apply" button to make the changes effective immediately.			
<b>FIREWALL CONFIGURATION</b>			
Enable Attack Prevent <input type="checkbox"/>			
Icmp Echo <input checked="" type="checkbox"/>			
Fraggle <input checked="" type="checkbox"/>			
Echo Chargen <input checked="" type="checkbox"/>			
IP Land <input checked="" type="checkbox"/>			
Port Scan <input checked="" type="checkbox"/>			
TCP Flags: Set "SYN FIN" <input checked="" type="checkbox"/>			
TCP Flags: Set "SYN RST" <input checked="" type="checkbox"/>			
TCP Flags: Set "FIN RST" <input checked="" type="checkbox"/>			
TCP DoS : <input checked="" type="checkbox"/>			
TCP DoS Max Rate: <input type="text" value="50"/> (packets/second)			
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>			

Click **Apply** to save the settings.

### 3.3.7 DNS

Domain name system (DNS) is an Internet service that translates domain names into IP addresses. Because domain names are alphabetic, they are easier to remember. The Internet, however, is actually based on IP addresses. Each time you use a domain name, a DNS service must translate the name into the corresponding IP address. For example, the domain name `www.example.com` might be translated to `198.105.232.4`.

The DNS system is, in fact, its own network. If one DNS server does not know how to translate a particular domain name, it asks another one, and so on, until the correct IP address is returned.

Choose **ADVANCED** > **DNS**. The page shown in the following figure appears.

The screenshot shows a web interface with four tabs: SETUP, ADVANCED, MANAGEMENT, and STATUS. The ADVANCED tab is selected. Below the tabs is a header for 'DNS' with an orange background. A message box says 'Click "Apply" button to save the new configuration.' Below that is a section titled 'DNS SERVER CONFIGURATION'. It contains two radio buttons: 'Obtain DNS server address automatically' (which is selected) and 'Use the following DNS server addresses'. Below the radio buttons is a dropdown menu for 'Wan Connection' with the value 'pppoe\_0\_35\_0\_0'. There are two text input fields for 'Preferred DNS server' and 'Alternate DNS server'. At the bottom of the configuration area are 'Apply' and 'Cancel' buttons.

### DNS SERVER CONFIGURATION

---

If you are using the device for DHCP service on the LAN or if you are using DNS servers on the ISP network, select **Obtain DNS server address automatically**.

If you have DNS IP addresses provided by your ISP, enter these IP addresses in the available entry fields for the preferred DNS server and the alternate DNS server.

Click **Apply** to save the settings.

### 3.3.8 Dynamic DNS

The device supports dynamic domain name service (DDNS). The dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any of the many domains, and allows access to a specified host from various locations on the Internet. Click a hyperlinked URL in the form of [hostname.dyndns.org](http://hostname.dyndns.org) and allow remote access to a host. Many ISPs assign public IP addresses using DHCP, so locating a specific host on the LAN using the standard DNS is difficult. For example, if you are running a public web server or VPN server on your LAN, DDNS ensures that the host can be located from the Internet even if the public IP address changes. DDNS requires that an account be set up with one of the supported DDNS service providers (DyndDNS.org or dlinkddns.com).

Choose **ADVANCED > Dynamic DNS**. The page shown in the following page appears.

## DYNAMIC DNS

The Dynamic DNS feature allows you to host a server (Web, FTP, Game Server, etc...) using a domain name that you have purchased (www.xxx.com) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter your host name to connect to your game server no matter what your IP address is.

[Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com](http://www.DLinkDDNS.com)

## DYNAMIC DNS

Hostname

Username

Service

Interface

Add

Edit

Delete

Click **Add** to add dynamic DNS. The page shown in the following figure appears.

## ADD DYNAMIC DNS

DDNS provider : DynDNS.org ▼

Hostname : 

Interface : pppoe\_0\_35\_0\_0 ▼

Username : Password : 

Apply

Cancel

- **DDNS provider:** Select one of the DDNS registration organizations from the down-list drop. Available servers include DynDns.org and dlinkddns.com.
  - **Host Name:** Enter the host name that you registered with your DDNS service provider.
  - **Username:** Enter the user name for your DDNS account.
  - **Password:** Enter the password for your DDNS account.
- Click **Apply** to save the settings.

---

## 3.3.9 Network Tools

Choose **ADVANCED** > **Network Tools**. The page shown in the following figure appears.

### 3.3.9.1 Port Mapping

Choose **ADVANCED** > **Network Tools** and click **Port Mapping**. The page shown in the following figure appears. In this page, you can bind the WAN interface and the LAN interface to the same group.

The screenshot shows a web interface with a top navigation bar containing four tabs: **SETUP**, **ADVANCED**, **MANAGEMENT**, and **STATUS**. The **ADVANCED** tab is selected. Below the navigation bar is a section titled **PORT MAPPING** with an orange header. The content area contains the following text:

Port Mapping -- A maximum 5 entries can be configured

Port Mapping supports multiple port to PVC and bridging groups. Each group will perform 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 will remove the grouping and add the ungrouped interfaces to the Default group.

Below the text is a section titled **PORT MAPPING SETUP** with a dark grey header. It contains a table with two columns: **Group Name** and **Interfaces**.

Group Name	Interfaces
<input type="checkbox"/> Lan1	ethernet4,ethernet3,ethernet2,ethernet1,wlan0,wlan0-vap0,wlan0-vap1,...

At the bottom of the **PORT MAPPING SETUP** section are three buttons: **Add**, **Edit**, and **Delete**.

Click **Add** to add port mapping. The page shown in the following figure appears.

## ADD PORT MAPPING

To create a new mapping group:

1. Enter the Group name and select interfaces from the available interface list and add it to the grouped interface list using the arrow buttons to create the required mapping of the ports. The group name must be unique.
2. Click "Apply" button to make the changes effective immediately.

### PORT MAPPING CONFIGURATION

Group Name:

Grouped Interfaces

Available Interfaces

ethernet4  
ethernet3  
ethernet2  
ethernet1  
wlan0  
wlan0-vap0  
wlan0-vap1  
wlan0-vap2

->  
<-

Submit Cancel

The procedure for creating a mapping group is as follows:

**Step 1** Enter the group name.

**Step 2** Select interfaces from the **Available Interface** list and click the <- arrow button to add them to the grouped interface list, in order to create the required mapping of the ports. The group name must be unique.

**Step 3** Click **Apply** to save the settings.

### 3.3.9.2 IGMP Proxy

Choose **ADVANCED > Network Tools** and click **IGMP Proxy**. The page shown in the following figure appears.



**IGMP PROXY**

IGMP proxy enables the system to issue IGMP host messages on behalf of hosts that the system discovered through standard IGMP interfaces. The system acts as a proxy for its hosts when you enable it by:

1. Enabling IGMP proxy on a WAN interface (upstream), which connects to a router running IGMP.
2. Enabling IGMP on a LAN interface (downstream), which connects to its hosts.

**IGMP PROXY CONFIGURATION** Enable IGMP Proxy

WAN Connection : pppoe\_0\_35\_0\_0 ▾

Port Binding Lan1 ▾

Apply

Cancel

IGMP proxy enables the system to issue IGMP host messages on behalf of hosts that the system discovered through standard IGMP interfaces. The system acts as a proxy for its hosts after you enable it.

Click **Apply** to save the settings.

### 3.3.9.3 Interface Config

Choose **ADVANCED > Network Tools** and click **Queue Config**. The page shown in the following figure appears.

SETUP
ADVANCED
MANAGEMENT
STATUS

**QOS INTERFACE CONFIG**

this allows you to config interface bandwidth control, include upstream and downstream.

**LISTS**

	Interface Name	UP Stream	Down Stream	Enable
<input type="checkbox"/>	PVC:0/35	Unlimited	Unlimited	0

In this table, you could config each interface with up stream bandwidth and down stream bandwidth. When configed, the stream rate will be limited to that rate.

**QOS INTERFACE CONFIG**

Interface:

Enable:

Up Stream:  (Kbps)

Down Stream:  (Kbps)

Click **Apply** to save the settings.

### 3.3.9.4 Queue Config

This page will help you to config priority queue, only three priority are support now, high, medium, low, the high queue will transport all packet cache in its buf, and then medium, and then low.

Choose **ADVANCED > Network Tools** and click **Queue Config**. The page shown in the following figure appears.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>QOS QUEUE CONFIG</b>			
this is queue precedence configuration, the packets with high precedence will pass before medium and low precedence.			
<b>LISTS</b>			
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Queue Name	Queue Priority	State
<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>			

Click **Add**. The page shown in the following figure appears.

QOS QUEUE CONFIG	
Queue Enable :	<input type="checkbox"/>
Queue Priority :	High <input type="button" value="v"/>
Associated Interface :	PVC:0/35 <input type="button" value="v"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

Click **Apply** to save the settings.

### 3.3.9.5 Classification config

This page allows you to config various classification, the classification include two class, the one is L1&L2, the other is L3&L4. you could assign classification to a queue, make dscp, or mark 802.1p.

**QOS CLASSIFY CONFIGURATION**

This page allows you to assign a classification, the classification may assign to a queue that you can limit the bandwidth or assign precedence. the classification can also be marked such as 802.1p, dscp.

**LISTS**

	Classification Result					
Class Name	Associated Queue	DSCP Mark	802.1P Mark	state	Details	

Add

Edit

Delete

Click **Add**. The page shown in the following figure appears.

## QOS CLASSIFY CONFIGURATION

Traffic Class Name :

Enable Classification :

### SPECIFY TRAFFIC CLASSIFICATION RULES

Classification Type :

Physical Lan Port :

Source MAC Address :

Source MAC Mask :

Destination MAC Address :

Destination MAC Mask :

Ethernet Type :

802.1q Priority :

### SPECIFY TRAFFIC CLASSIFICATION RESULT

Assign Classification Queue :

Mark DSCP :

Mark 802.1q Priority :

Apply

Cancel

### 3.3.9.6 UPnP

Choose **ADVANCED > Network Tools** and click **UPnP**. The page shown in the following figure appears.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>UPnP</b>			
Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices.			
<b>UPnP SETUP</b>			
<input type="checkbox"/> Enable UPnP			
WAN Connection : pppoe_0_35_0_0			
LAN Connection : br1			
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>			

In this page, you can configure universal plug and play (UPnP). The system acts as a daemon after you enable UPnP.

UPnP is used for popular audio visual software. It allows automatic discovery of your device in the network. If you are concerned about UPnP security, you can disable it. Block ICMP ping should be enabled so that the device does not respond to malicious Internet requests.

Click **Apply** to save the settings.

### 3.3.9.7 ADSL Settings

Choose **ADVANCED > Network Tools** and click **ADSL Settings**. The page shown in the following figure appears.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>ADSL SETTINGS</b>			
This page is used to configure the ADSL settings of your ADSL router.			
<b>ADSL SETTINGS</b>			
<input checked="" type="checkbox"/> G.Dmt Enabled			
<input type="checkbox"/> G.Lite Enabled			
<input checked="" type="checkbox"/> T1.413 Enabled			
<input checked="" type="checkbox"/> ADSL2 Enabled			
<input type="checkbox"/> AnnexL Enabled			
<input checked="" type="checkbox"/> ADSL2+ Enabled			
<input type="checkbox"/> AnnexM Enabled			
Capability			
<input checked="" type="checkbox"/> Bitswap Enable			
<input checked="" type="checkbox"/> SRA Enable			
<input type="button" value="Apply"/>			

In this page, you can select the DSL modulation. Normally, you can remain this factory default setting. The device supports the following modulations: G.lite, G.Dmt, T1.413, ADSL2, ADSL2+, AnnexL, and AnnexM. The device negotiates the modulation mode with DSLAM.

Click **Apply** to save the settings.

### 3.3.9.8 SNMP

Choose **ADVANCED > Network Tools** and click **SNMP**. The page shown in the following figure appears. In this page, you can set SNMP parameters.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>SNMP CONFIGURATION</b>			
This page is used to configure the SNMP protocol.			
<b>SNMP CONFIGURATION</b>			
<input type="checkbox"/> Enable SNMP Agent			
Read Community:	<input type="text" value="public"/>		
Set Community:	<input type="text" value="private"/>		
Trap Manager IP:	<input type="text" value="private"/>		
Trap Community:	<input type="text" value="public"/>		
Trap Version:	<input type="text" value="v2c"/>		
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>			

Click **Apply** to save the settings.

### 3.3.9.9 TR069

Choose **ADVANCED > Network Tools** and click **TR069**. The page shown in the following figure appears. In this page, you can configure the TR069 CPE.



### TR-069

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.

#### TR-069 CLIENT -- CONFIGURATION

**Infrom:**  Disabled  Enabled  
**Inform Interval:**   
**ACS URL:**   
**ACS User Name:**   
**ACS Password:**   
 Connection Request Authentication

Click **Apply** to save settings.

### 3.3.9.10 Certificates

Choose **ADVANCED > Network Tools** and click **Certificates**. The **Certificates** page shown in the following figure appears.

#### CERTIFICATES -- TRUSTED CA

Trusted CA certificates are used by you to verify peers' certificates.

Press **Trusted CA** button to import a certificate

SETUP	ADVANCED	MANAGEMENT	STATUS	HELP
<b>CERTIFICATES -- TRUSTED CA</b>				
Add, View or Remove certificates from this page. CA certificates are used by you to verify peers' certificates. Only one certificates can be stored.				
<b>TRUSTED CA (CERTIFICATE AUTHORITY) CERTIFICATES</b>				
Name	Subject	Type	Action	
<input type="button" value="Input Certificate"/>				

Press **Input Certificate** button to import a certification

SETUP	<b>ADVANCED</b>	MANAGEMENT	STATUS
-------	-----------------	------------	--------

**TRUSTED CA CERTIFICATES**

Enter certificate name and paste certificate content.

**IMPORT CA CERTIFICATE**

Certificate Name:

Certificate: 

```
-----BEGIN CERTIFICATE-----  
<insert Certificate here>  
-----END CERTIFICATE-----
```

### 3.3.9.11 Printer

This page allows you to config network printer, if you have an usb interface.

SETUP	ADVANCED	MANAGEMENT	STATUS								
<b>PRINT SERVER SETTINGS</b>											
This page allows you to enable/disable printer support											
Enable <input type="checkbox"/>											
Printer Name <input type="text" value="PrinterName"/>											
URL:											
<b>DISPLAY LIST</b>											
<table border="1"> <thead> <tr> <th>Manufacturer</th> <th>Model</th> <th>CMD</th> <th>Firmware Version</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Manufacturer	Model	CMD	Firmware Version				
Manufacturer	Model	CMD	Firmware Version								
<input type="button" value="Submit"/> <input type="button" value="Cancel"/>											

### 3.3.10 Routing

Choose **ADVANCED** > **Routing**. The page shown in the following page appears.

SETUP	ADVANCED	MANAGEMENT	STATUS	HELP
<b>STATIC ROUTE</b>				
Static Route.				
<input type="button" value="Static Route"/>				
<b>DEFAULT GATEWAY</b>				
Default Gateway.				
<input type="button" value="Default Gateway"/>				
<b>RIP SETTINGS</b>				
RIP Settings.				
<input type="button" value="RIP Settings"/>				

### 3.3.10.1 Static Route

Choose **ADVANCED** > **Routing** and click **Static Route**. The page shown in the following figure appears. This page is used to configure the routing information. In this page, you can add or delete IP routes.

The screenshot shows a router's configuration page for 'Static Route'. On the left is a sidebar menu with items: DSL-2750E, Advanced Wireless, Port Forwarding, Port Triggering, DMZ, Parental Control, Filtering Options, Firewall Settings, DNS, Dynamic DNS, Network Tools, Routing (highlighted), Schedules, and Logout. The main content area has tabs for SETUP, ADVANCED, MAINTENANCE, and STATUS. The 'ADVANCED' tab is active, showing a 'STATIC ROUTE' section with instructions: 'Enter the destination network address, subnet mask, gateway AND/OR available WAN interface then click "Apply" to add the entry to the routing table.' Below this is a note: 'A maximum 32 entries can be configured.' Underneath is a table header for 'ROUTING -- STATIC ROUTE' with columns: Destination, Subnet Mask, Gateway, and Interface. At the bottom are three buttons: Add, Edit, and Delete.

Click **Add** to add a static route. The page shown in the following figure appears.

The screenshot shows the 'STATIC ROUTE ADD' form. It contains four input fields: 'Destination Network Address', 'Subnet Mask', 'Use Gateway IP Address', and 'Use Interface'. The 'Use Interface' dropdown menu is set to 'pppoe\_0\_35\_0\_0'. At the bottom are two buttons: 'Apply' and 'cancel'.

- **Destination Network Address:** The destination IP address of the router.
- **Subnet Mask:** The subnet mask of the destination IP address.
- **Use Gateway IP Address:** The gateway IP address of

the router.

- **User Interface:** The interface name of the router output port.

You can only choose **Use Gateway IP Address** or **User Interface**.

Click **Apply** to save the settings.

### 3.3.10.2 Default Gateway

Choose **ADVANCED > Routing** and click **Default Gateway**. The page shown in the following figure appears.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>DEFAULT GATEWAY</b>			
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.			
<b>DEFAULT GATEWAY</b>			
<input checked="" type="checkbox"/> <b>Enable Automatic Assigned Default Gateway</b>			
<input type="radio"/> Use Gateway IP Address : <input type="text"/>			
<input type="radio"/> Use Interface : <input type="text" value="pppoe_0_35_0_0"/>			
<input type="button" value="Apply"/> <input type="button" value="cancel"/>			

Click **Apply** to save the settings.

### 3.3.10.3 RIP Settings

Choose **ADVANCED > Routing** and click **RIP Settings**. The page shown in the following figure appears. This page is used to select the interfaces on your device that use RIP and the version of the protocol used.

[SETUP](#)    **ADVANCED**    [MANAGEMENT](#)    [STATUS](#)

### RIP CONFIGURATION

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.

**RIP**

Interface	VPI/VCI	Version	Operation	Enabled
pppoe_0_35_0_0	0/35	1 <input type="button" value="v"/>	Active	<input type="checkbox"/>

If you are using this device as a RIP-enabled device to communicate with others using the routing information protocol, enable RIP and click **Apply** to save the settings.

## 3.3.11 Schedules

Choose **ADVANCED > Schedules**. The page shown in the following figure appears.

[SETUP](#)    **ADVANCED**    [MANAGEMENT](#)    [STATUS](#)

### SCHEDULES

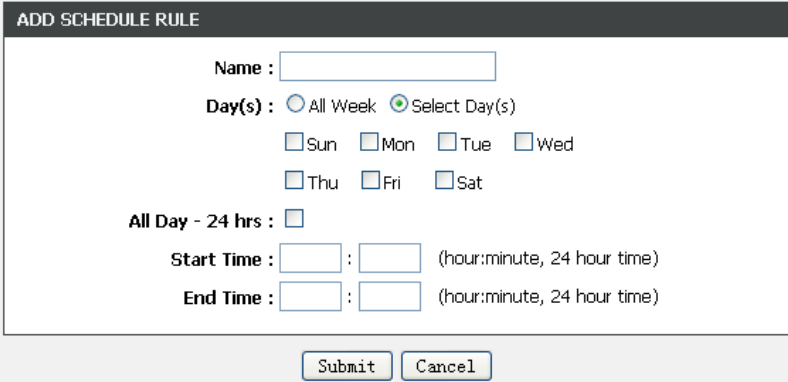
Schedule allows you to create scheduling rules to be applied for your firewall.

**Maximum number of schedule rules: 20**

**SCHEDULE RULES**

Rule Name	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Start Time	Stop time
-----------	-----	-----	-----	-----	-----	-----	-----	------------	-----------

Click **Add** to add schedule rule. The page shown in the following figure appears.



The screenshot shows a web form titled "ADD SCHEDULE RULE". It contains the following fields and options:

- Name :** A text input field.
- Day(s) :** Radio buttons for "All Week" and "Select Day(s)".
- Days:** Checkboxes for Sun, Mon, Tue, Wed, Thu, Fri, and Sat.
- All Day - 24 hrs :** A checkbox.
- Start Time :** Two input fields for hour and minute, followed by the text "(hour:minute, 24 hour time)".
- End Time :** Two input fields for hour and minute, followed by the text "(hour:minute, 24 hour time)".
- Buttons:** "Submit" and "Cancel" buttons at the bottom.

Click **Apply** to save the settings.

## 3.4 Maintenance

### 3.4.1 System

Choose **MAINTENANCE** > **System**. The **System** page shown in the following figure appears.



## SYSTEM -- REBOOT

Click the button below to reboot the router.

## SYSTEM -- BACKUP SETTINGS

Back up DSL Router configurations. You may save your router configurations to a file on your PC.

Note: Please always save configuration file first before viewing it.

## SYSTEM -- UPDATE SETTINGS

Update DSL Router settings. You may update your router settings using your saved files.

Settings File Name:

## SYSTEM -- RESTORE DEFAULT SETTINGS

Restore DSL Router settings to the factory defaults.

In this page, you can reboot device, back up the current settings to a file, restore the settings from the file saved previously, and restore the factory default settings.

The buttons in this page are described as follows:

**Reboot:** Reboot the device.

**Backup Settings:** Save the settings to the local hard drive. Select a location on your computer to back up the file. You can name the configuration file.

**UPDATE SETTINGS:** Click **Browse** to select the configuration file of device and click **Update Settings** to begin restoring the device configuration..

**Restore Default Settings:** Reset the device to default settings.

**Notice:** Do not turn off your device or press the **Reset** button while an operation in this page is in progress.

## 3.4.2 Firmware Update

Choose **MAINTENANCE > Firmware Update**. The page shown in the following figure appears. In this page, you can upgrade the firmware of the device.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>FIRMWARE UPDATE</b>			
<p><b>Step 1:</b> Obtain an updated firmware image file from your ISP.</p> <p><b>Step 2:</b> Enter the path to the image file location in the box below or click the "Browse" button to locate the image file.</p> <p><b>Step 3:</b> Click the "Update Firmware" button once to upload the new image file.</p> <p>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.</p>			
<b>FIRMWARE UPDATE</b>			
Current Firmware Version: 1.0.0			
Current Firmware Date: Wed, 04 Mar 2009 10:37:50			
Select File: <input type="text"/> <input type="button" value="浏览..."/>			
Clear Config: <input type="checkbox"/>			
<input type="button" value="Update Firmware"/>			

The procedure for updating the firmware is as follows:

**Step 1** Click **Browse...** to search the file.

**Step 2** Click **Update Firmware** to copy the file.

---

The device loads the file and reboots automatically.

**Notice:** Do not turn off your device or press the reset button while this procedure is in progress.

### 3.4.3 Access Controls

Choose **MAINTENANCE > Access Controls**. The **Access Controls** page shown in the following figure appears. The page contains **Account Password**, **Services**, and **IP Address**.

SETUP	ADVANCED	MANAGEMENT	STATUS	HELP
<b>ACCESS CONTROLS -- ACCOUNT PASSWORD</b>				
Manage DSL Router user accounts.				
<a href="#">Account Password</a>				
<b>ACCESS CONTROLS -- SERVICES</b>				
A Service Control List ("SCL") enables or disables services from being used.				
<a href="#">Services</a>				
<b>ACCESS CONTROLS -- IP ADDRESS</b>				
Permits access to local management services.				
<a href="#">IP Address</a>				

#### 3.4.3.1 Account Password

In the **Access Controls** page, click **Account Password**. The page shown in the following figure appears. In this page, you can change the password of the user and set time for automatic logout.

## ACCOUNT PASSWORD

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.

## ACCOUNT PASSWORD

Username:

Current Password:

New Password:

Confirm Password:

## WEB IDLE TIME OUT SETTINGS

Web Idle Time Out:  (5 ~ 30 minutes)

You should change the default password to secure your network. Ensure that you remember the new password or write it down and keep it in a safe and separate location for future reference. If you forget the password, you need to reset the device to the factory default settings and all configuration settings of the device are lost.

Select the **Username** from the drop-down list. You can select **admin**, **support**, or **user**.

Enter the current and new passwords and confirm the new password, to change the password.

Click **Apply** to apply the settings.

### 3.4.3.2 Services

In the **Access Controls** page, click **Services**. The page shown in the following figure appears.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>SERVICES</b>			
A Service Control List ("SCL") enables or disables services from being used.			
<b>ACCESS CONTROL -- SERVICES</b>			
Select WAN Connections <input type="text" value="pppoe_0_35_0_0"/>			
Service	LAN	WAN	
FTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
HTTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ICMP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TELNET	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TFTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>			

In this page, you can enable or disable the services that are used by the remote host. For example, if telnet service is enabled and port is 23, the remote host can access the device by telnet through port 23. Normally, you need not change the settings.

Select the management services that you want to enable or disable on the LAN or WAN interface.

Click **Apply** to apply the settings.

---

#### Note:

If you disable HTTP service, you cannot access the configuration page of the device any more.

---

---

### 3.4.3.3 IP Address

In the **Access Controls** page, click **IP Address**. The page shown in the following figure appears.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>IP ADDRESS</b>			
<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>			
<b>ACCESS CONTROL -- IP ADDRESSES</b>			
<input type="checkbox"/> <b>Enable Access Control Mode</b>			
<input type="text"/>			
IP			
<input type="button" value="Add"/> <input type="button" value="Delete"/>			

In this page, you can configure the IP address for access control list (ACL). If ACL is enabled, only devices with the specified IP addresses can access the device. Select **Enable Access Control Mode** to enable ACL.

---

#### Note:

If you enable the ACL capability, ensure that IP address of the host is in ACL list.

---

Click **Add**. The page shown in the following figure appears.

---

IP ADDRESS
IP Address : <input type="text"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>

Click **Apply** to apply the settings.

### 3.4.4 Diagnostics

Choose **MAINTENANCE > Diagnostic**. The page shown in the following figure appears. In this page, you can test the device.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>DIAGNOSTICS</b>			
The DSL router can test your DSL connection. The individual tests are listed below. If a test displays a fail status, click the "Run Diagnostic Test" button again to make sure the fail status is consistent.			
WAN Connection		<input type="text" value="pppoe_0_35_0_0"/>	<input type="button" value="Return Diagnostic Tests"/>

Click **Run Diagnostics Test** to run diagnostics. The page shown in the following figure appears.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>DIAGNOSTICS</b>			
<p>The DSL router can test your DSL connection. The individual tests are listed below. If a test displays a fail status, click the "Run Diagnostic Test" button again to make sure the fail status is consistent.</p>			
WAN Connection		pppoe_0_35_0_0	Return Diagnostic Tests
<b>TEST THE CONNECTION TO YOUR LOCAL NETWORK</b>			
Test your LAN 1 Connection		FAIL	
Test your LAN 2 Connection		PASS	
Test your LAN 3 Connection		FAIL	
Test your LAN 4 Connection		FAIL	
Test your Wireless Connection		PASS	
<b>TEST THE CONNECTION TO YOUR DSL SERVICE PROVIDER</b>			
Test ADSL Synchronization		PASS	
Test ATM OAM F5 Segment Loopback		FAIL	
Test ATM OAM F5 End-to-end Loopback		FAIL	
Test ATM OAM F4 Segment Loopback		FAIL	
Test ATM OAM F4 End-to-end Loopback		FAIL	
<b>TEST THE CONNECTION TO YOUR INTERNET SERVICE PROVIDER</b>			
Ping Default Gateway		PASS	
Ping Primary Domain Name Server		FAIL	

## 3.4.5 System Log

Choose **MAINTENANCE > System Log**. The **System Log** page shown in the following figure appears.



## SYSTEM LOG

If the log mode is enabled, the system will begin to log all the selected events. 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"

## SYSTEM LOG -- CONFIGURATION

Enable Log

Mode : Local ▾

Server IP Address :

Server UDP Port :

Apply

Cancel

View System Log

This page displays event log data in the chronological manner. You can read the event log from the local host or send it to a system log server. Available event severity levels are as follows: Emergency, Alert, Critical, Error, Warning, Notice, Informational and Debugging. In this page, you can enable or disable the system log function.

The procedure for logging the events is as follows:

**Step 1** Select **Enable Log** and select **Log Level** and **Display Level**.

**Step 2** Select the display mode from the **Mode** drop-down list.

**Step 3** Enter the **Server IP Address** and **Server UDP Port** if the **Mode** is set to **Both** or **Remote**.

**Step 4** Click **Apply** to apply the settings.

**Step 5** Click **View System Log** to view the detail information of system log.

---

## 3.5 Status

You can view the system information and monitor performance.

### 3.5.1 Device Info

Choose **STATUS > Device Info**. The page shown in the following figure appears.

## DEVICE INFO

This information reflects the current status of your WAN connection.

## SYSTEM INFO

Model Name :	D-link Router
Time and Date :	2000-01-01 03:08:05
Firmware Version :	1.0.0

## INTERNET INFO

Internet Connection Status :

Internet Connection Status:	Connection
Default Gateway:	
Preferred Dns Server:	172.24.10.10
Alternate Dns Server:	172.24.11.10
Downstream Line Rate (Kbps):	22203
Upstream Line Rate (Kbps):	1008

### Enabled WAN Connections :

VPI/VCI	Service Name	Protocol	IGMP	QoS	IP Address
0/35	pppoe_0_35_0_0	PPPOE	Disable	Enable	10.126.0.3

## WIRELESS INFO

select wireless :

MAC Address:	
Status:	Enable
Network Name (SSID):	tbs_dlink_0
Visibility:	Visible
Security Mode:	None

## LOCAL NETWORK INFO

MAC Address:	00:1e:e3:d1:98:5e
IP Address:	192.168.1.1
Subnet Mask:	255.255.255.0
DHCP Server:	Enable

---

The page displays the summary of the device status. It includes the information of firmware version, upstream rate, downstream rate, uptime and Internet configuration (both wireless and Ethernet statuses).

## 3.5.2 Wireless Clients

Choose **STATUS > Wireless Clients**. The page shown in the following page appears. The page displays authenticated wireless stations and their statuses.

The screenshot shows a web interface with a top navigation bar containing four tabs: **SETUP**, **ADVANCED**, **MANAGEMENT**, and **STATUS**. The **STATUS** tab is selected. Below the navigation bar is a section titled **WIRELESS CLIENTS** with an orange header. Inside this section, a grey box contains the text: "This page shows authenticated wireless stations and their status." Below this is another section titled **WIRELESS -- AUTHENTICATED STATIONS** with a dark grey header. Underneath is a table with five columns: **Mac**, **Associated**, **Authorized**, **SSID**, and **Interface**. At the bottom of the page, there is a **Refresh** button.

## 3.5.3 DHCP Clients

Choose **STATUS > DHCP Clients**. The page shown in the following page appears.

SETUP	ADVANCED	MANAGEMENT	STATUS
<b>DHCP CLIENTS</b>			
This information reflects the current DHCP client of your modem.			
<b>DHCP LEASES</b>			
Hostname	MAC Address	IP Address	Expires In
<input type="button" value="Refresh"/>			

This page displays all client devices that obtain IP addresses from the device. You can view the host name, IP address, MAC address and time expired(s).

### 3.5.4 Logs

Choose **STATUS** > **Logs**. The page shown in the following figure appears.

The screenshot shows a web interface with a top navigation bar containing four tabs: **SETUP**, **ADVANCED**, **MANAGEMENT**, and **STATUS**. The **STATUS** tab is selected. Below the navigation bar is a section titled **LOGS** with an orange header. A grey box below the header contains the text: "This page allows you to view system logs." Below this is a section titled **SYSTEM LOG** with a dark grey header. A large white box contains the following system log information:

```
Manufacturer: D-Link
ProductClass: D-Link
SerialNumber: 001ee3d1985e
IP: 192.168.1.1
HWVer: Unknown
SWVer: TBS-R2B05
|
```

At the bottom of the log area is a **Refresh** button.

This page lists the system log. Click **Refresh** to refresh the system log shown in the table.

### 3.5.5 Statistics

Choose **STATUS** > **Statistics**. The page shown in the following figure appears.

## DEVICE INFO

This information reflects the current status of your DSL connection.

## LOCAL NETWORK &amp; WIRELESS

interface	Received				Transmitted			
	Bytes	Pkts	Errs	Rx drop	Bytes	Pkts	Errs	Tx drop
LAN2	4052166	16090	0	0	4770299	16662	0	0
tbs_dlink_0	0	0	0	0	0	0	0	0

## INTERNET

Service	VPI/VCI	Protocol	Received				Transmitted			
			Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops
pppoe_0_35_0_0	0/35	PPPOE	306	6	0	0	306	6	0	0

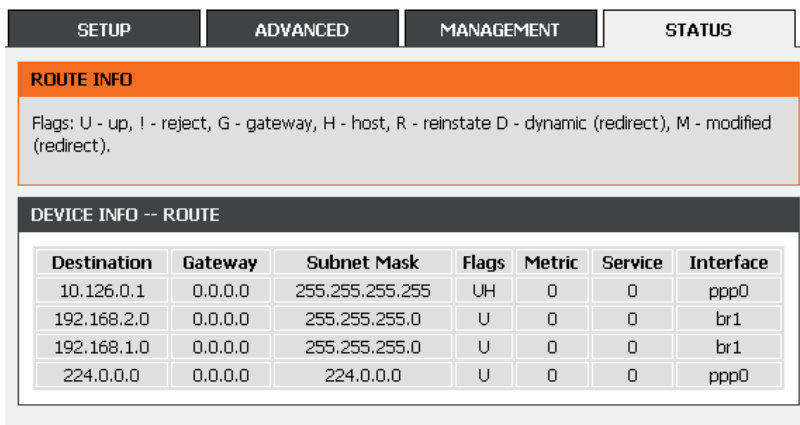
## ADSL

<b>Mode:</b>	ADSL2+	
<b>Type:</b>	Interleave	
<b>Line Coding:</b>	Enable	
<b>Status:</b>	Disable	
	<b>Downstream</b>	<b>Upstream</b>
<b>SNR Margin (dB):</b>	8.5	9.5
<b>Attenuation (dB):</b>	04	3.5
<b>Output Power (dBm):</b>	8.5	12.5
<b>Attainable Rate (Kbps):</b>	23416	1116
<b>Rate (Kbps):</b>	22203	1008
<b>D (interleaver depth):</b>	64	8
<b>Delay (msec):</b>	3.98	14.22
<b>HEC Errors:</b>	0	0
<b>OCD Errors:</b>	0	0
<b>LCD Errors:</b>	0	0
<b>Total ES</b>	2	1

This page displays the statistics of the network and data transfer. This information helps technicians to identify if the device is functioning properly. The information does not affect the function of the device.

## 3.5.6 Route info

Choose **STATUS > Route Info**. The page shown in the following figure appears.



The screenshot shows a web interface with four tabs: SETUP, ADVANCED, MANAGEMENT, and STATUS. The STATUS tab is selected. Below the tabs is a section titled 'ROUTE INFO' with a legend for 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' containing a table of routes.

Destination	Gateway	Subnet Mask	Flags	Metric	Service	Interface
10.126.0.1	0.0.0.0	255.255.255.255	UH	0	0	ppp0
192.168.2.0	0.0.0.0	255.255.255.0	U	0	0	br1
192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	br1
224.0.0.0	0.0.0.0	224.0.0.0	U	0	0	ppp0

The table shows a list of destination routes commonly accessed by the network.



## **Part 68 Statement**

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US: 3P7DL01B2750EA1. If requested, this number must be provided to the telephone company.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US: SNIW403BFS1. The digits represented by 01 are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If your equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC. Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this telephone equipment, please contact the following address and phone number for information on obtaining service or repairs.

The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

## **Federal Communication Commission Interference 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 communications. 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **IMPORTANT NOTE:**

#### **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- EN60950-1:2006+A11: 2009  
Safety of Information Technology Equipment
- EN 300 328 V1.7.1: 2006
- Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
- EN 301 489-1 V1.8.1: 2008  
Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- EN 301 489-17 V2.1.1: 2009  
Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment
- EN50385 : 2002
- Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110MHz - 40 GHz) - General public

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

**CE 0560**

[cs] Český [Czech]	[ <i>Jméno výrobce</i> ] tímto prohlašuje, že tento [ <i>typ zařízení</i> ] je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
[da] Dansk [Danish]	Undertegnede [ <i>fabrikantens navn</i> ] erklærer herved, at følgende udstyr [ <i>udstyrets typebetegnelse</i> ] overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
[de] Deutsch [German]	Hiermit erklärt [ <i>Name des Herstellers</i> ], dass sich das Gerät [ <i>Gerätetyp</i> ] in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
[et] Eesti [Estonian]	Käesolevaga kinnitab [ <i>tootja nimi = name of manufacturer</i> ] seadme [ <i>seadme tüüp = type of equipment</i> ] vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
[en] English	Hereby, [ <i>name of manufacturer</i> ], declares that this [ <i>type of equipment</i> ] is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
[es] Español [Spanish]	Por medio de la presente [ <i>nombre del fabricante</i> ] declara que el [ <i>clase de equipo</i> ] cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
[el] Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [ <i>name of manufacturer</i> ] ΔΗΛΩΝΕΙ ΟΤΙ [ <i>type of equipment</i> ] ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
[fr] Français [French]	Par la présente [ <i>nom du fabricant</i> ] déclare que l'appareil [ <i>type d'appareil</i> ] est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
[it] Italiano [Italian]	Con la presente [ <i>nome del costruttore</i> ] dichiara che questo [ <i>tipo di apparecchio</i> ] è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo [ <i>name of manufacturer / izgatavotāja nosaukums</i> ] deklarē, ka [ <i>type of equipment / iekārtas tips</i> ] atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo [ <i>manufacturer name</i> ] deklaruoją, kad šis [ <i>equipment type</i> ] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
[nl] Nederlands [Dutch]	Hierbij verklaart [ <i>naam van de fabrikant</i> ] dat het toestel [ <i>type van toestel</i> ] in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
[mt] Malti [Maltese]	Hawnhekk, [ <i>isem tal-manifattur</i> ], jiddikjara li dan [ <i>il-mudel tal-prodott</i> ] jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 1999/5/EC.
[hu] Magyar [Hungarian]	Alulírott, [ <i>gyártó neve</i> ] nyilatkozom, hogy a [ <i>... típus</i> ] megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
[pl] Polski [Polish]	Niniejszym [ <i>nazwa producenta</i> ] oświadczam, że [ <i>nazwa wyrobu</i> ] jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
[pt] Português [Portuguese]	[ <i>Nome do fabricante</i> ] declara que este [ <i>tipo de equipamento</i> ] está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
[sl] Slovensko [Slovenian]	[ <i>Ime proizvajalca</i> ] izjavlja, da je ta [ <i>tip opreme</i> ] v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	[ <i>Meno výrobcu</i> ] týmto vyhlasuje, že [ <i>typ zariadenia</i> ] spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
[fi] Suomi [Finnish]	[ <i>Valmistaja = manufacturer</i> ] vakuuttaa täten että [ <i>type of equipment = laitteen tyyppimerkintä</i> ] tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
[sv] Svenska [Swedish]	Härmed intygar [ <i>företag</i> ] att denna [ <i>utrustningstyp</i> ] står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.