USER MANUAL DSL-2750U

VERSION 1.0

D-Link®





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.

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.

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.

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.

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1 Safety Precautions

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 exists 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.

2 Introduction

The DSL-2750U is a highly integrated ADSL2/2+ Integrated Access Device. It provides DSL uplink, Ethernet LAN and wireless LAN services. The wireless LAN is complied with the IEEE802.11b/g /n standards and supports 2T2R. It is usually prefered to provide high access performance applications for the individual users, the SOHO, the small enterprise and so on.

2.1 LEDs and Interfaces

Front Panel

The LED indicators are as follows from left to right: Power, LAN1/2/3/4, WLAN, USB, DSL, Internet. The WPS indicator is on the side panel. The following table describes the LEDs of the device.

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



Rear Panel

Interface/Button	Description
DSL	RJ-11 interface that connects to the telephone set through the telephone cable.
LAN4/3/2/1	Ethernet RJ-45 interfaces that connect to the Ethernet interfaces of computers or Ethernet devices.
USB	USB host port, for connecting the USB storage devices.
WIRELESS ON/OFF	Button to enable or disable WLAN.
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 one second, and then release.
ON/OFF	Power on or off.
POWER	Interface that connects to the power adapter. The power adapter output is: 12 V DC, 1 A.
WPS (on the side panel)	WPS button to setup connection to client.



2.2 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, Windows XP, Windows Vista or Windows 7
- Internet Explorer V5.0 or higher, Netscape V4.0 or higher, or Firefox 1.5 or higher

2.3 Features

The device supports the following features:

- User-friendly GUI for web configuration
- Several pre-configured popular games. Just enable the game and the port settings are automatically configured.
- Compatible with all standard Internet applications
- Industry standard and interoperable DSL interface
- Simple web-based status page displays a snapshot of system configuration, and links to the configuration pages
- Downloadable flash software updates
- Support for up to 8 permanent virtual circuits (PVC)
- Support for up to 8 PPPoE sessions
- Support RIP v1 & RIP v2
- WLAN with high-speed data transfer rates of up to 130 Mbps, compatible with IEEE 802.11b/g/n, 2.4GHz compliant equipment
- Optimized Linux 2.6 Operating System
- IP routing and bridging
- Asynchronous transfer mode (ATM) and digital subscriber line (DSL) support
- Point-to-point protocol (PPP)
- Network/port address translation (NAT/PAT)
- Quality of service (QoS)
- Wireless LAN security: WPA, 802.1x, RADIUS client
- Universal plug-and-play(UPnP)
- File server for network attached storage (NAS) devices
- Print server
- Web filtering
- Management and control
- Web-based management (WBM)
- Command line interface (CLI)
- TR-069 WAN management protocol
- Remote update
- USB mass-storage
- System statistics and monitoring

2.4 Standards Compatibility and Compliance

- Support application level gateway (ALG)
- ITU G.992.1 (G.dmt)
- ITU G.992.2 (G.lite)
- ITU G.994.1 (G.hs)
- ITU G.992.3 (ADSL2)
- ITU G.992.5 (ADSL2+)
- ANSI T1.413 Issue 2
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n

3 Hardware Installation

3.1 Choosing the Best Location for Wireless Operation

Many environmental factors may affect the effective wireless function of the DSL Router. If this is the first time that you set up a wireless network device, read the following information:

The access point can be placed on a shelf or desktop, ideally you should be able to see the LED indicators in the front, as you may need to view them for troubleshooting.

Designed to go up to 100 meters indoors and up to 300 meters outdoors, wireless LAN lets you access your network from anywhere you want. However, the numbers of walls, ceilings, or other objects that the wireless signals must pass through limit signal range. Typical ranges vary depending on types of materials and background RF noise in your home or business.

3.2 Connecting the Router

- (1) Connect the **DSL** port of the router and the Modem port of the splitter with a telephone cable; connect the phone to the phone port of the splitter through a cable; and connect the incoming line to the Line port of the splitter.
- The spliiter has three ports:
 - LINE: Connect to a wall phone jack (RJ-11 jack)
 - Modem: Connect to the Line interface of the router
 - **PHONE**: Connect to a telephone set
- (2) Connect the **LAN** port of the router to the network interface card (NIC) of the PC through an Ethernet cable (MDI/MDIX).
- (3) Plug the power adapter to the wall outlet and then connect the other end of it to the **Power** port of the router.



4 About the Web Configuration

The first time you setup the Router. It is recommended that you configure the WAN connection using a single computer, to ensure that both the computer and the Router are not connected to the LAN. Once the WAN connection operates properly, you may continue to make changes to Router configuration, including IP settings and DHCP setup. This chapter is concerned with using your computer to configure the WAN connection. The following chapter describes the various menus used to configure and monitor the Router, including how to change IP settings and DHCP server setup.

4.1 Preparation Before Login

Before accessing the Routerre the communication between PC and Router is normal. Check the communication as follows.

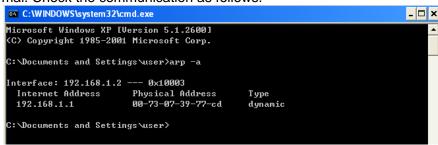
Configure the IP address of the PC as 192.168.1.X (2~254), net mask as 255.255.255.0, gateway address as 192.168.1.1 (for customized version, configure them according to the actual version).

Enter **arp** -**a** in the DOS window to check whether the PC can read the MAC address of the Router.

Ping the MAINTENANCE IP address (192.168.1.1 by default) of the Router. If the PC can read the MAC address of the Router and can ping through the MAINTENANCE IP address of the Router, that means the communication of the PC and the Router is normal.

Note:

When you manage the Router through Web, you must keep the Router power on. Otherwise, the Router may be damaged.



C:\WINDOWS\system32\cmd.exe	_ 🗆 🗙				
Microsoft Windows XP [Version 5.1.2600]					
(C) Copyright 1985-2001 Microsoft Corp.					
C:\Documents and Settings\user>arp -a					
Interface: 192.168.1.2 0x10003					
Internet Address Physical Address					
192.168.1.1 00-73-07-39-77-cd	dynamic				
C:\Documents and Settings\user>ping 192.168.1.1					
Pinging 192.168.1.1 with 32 bytes of data:					
Reply from 192.168.1.1: bytes=32 time<1ms T1	[L=64				
Reply from 192.168.1.1: bytes=32 time<1ms T1	TL=64				
Reply from 192.168.1.1: bytes=32 time<1ms T	[L=64				
Reply from 192.168.1.1: bytes=32 time<1ms T	[L=64				
Ping statistics for 192.168.1.1:					
Packets: Sent = 4, Received = 4, Lost =					
Approximate round trip times in milli-second					
Minimum = Oms, Maximum = Oms, Average =	Ums				
C:\Documents and Settings\user>	_1				

4.2 Logging In to the Router

The following description is a detail "How-To" user guide and is prepared for first time users.

4.2.1 First-Time Login

When you log in to the DSL Router for the first time, the login wizard appears.

- Step 1 Open a Web browser on your computer.
- Step 2 Enter http://192.168.1.1 (DSL router default IP address) in the address bar. The login page appears.
- Step 3 Enter a user name and the password. The default username and password of the super user are admin and admin. The username and password of the common user are user and user. You need not enter the username and password again if you select the option Remember my password. It is recommended to change these default values after logging in to the DSL router for the first time.
- Step 4 Click Login to log in.

D-Link

Welcome to DSL-275	600 Web Manageme	int
	Username :	admin 💌
	Password :	•••••
	Validate Code:	UDIQG
		UD QG
		refresh
		Remember my login info.

4.3 Setup

4.3.1 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.

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

DSL-2750U	SETUP	ADVANCED	MAINTENANCE	STATUS
Wizard	SETTING UP YOUR	RINTERNET		
Internet Setup	There are two ways t	to set up your Internet co	nnection. You can use the	e Web-based Internet
Wireless Connection	Connection Setup Wi	zard or you can manually co	onfigure the connection.	
Local Network	Please make sure you have your ISP's connection settings first if you choose manual setup.			
Time and Date				
Print Server	INTERNET CONNECTION WIZARD			
Logout You can use this wizard for assistance and quick connection of your new D-Link Ro Internet. You will be presented with step-by-step instructions in order to get you connection up and running. Click the button below to begin.				
		Setup	Wizard	
		ng the wizard, please ensui on Guide included with the		wed the steps outlined

Click Setup Wizard. The page shown in the right figure appears.

WELCOME TO D-LINK SETUP WIZARD

This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

- Step 1: Change Device Login Password
- Step 2: Set Time and Date
- Step 3: Setup Internet Connection
- Step 4: Configure Wireless Network
- Step 5: Completed and Apply

There are four steps to configure the device. Click **Next** to continue.

Change the password for logging in to the device.

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

Note:

Confirm password must be the same as the new password.

To ignore the step, click Skip.

STEP 1: CHANGE DEVICE LOGIN PASSWORD → 2 → 3→ 4 → 5 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. Current Password : New Password : Confirm Password :

Skip

Cancel

Back

Next

Set the time and date.

First NTP time server: Select the domain of the time server to which system time will be synchronized.

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 SETTINGS				
	Automatically synchronize with Internet time servers			
First NTP time server	: ntp1.dlink.com 🗸			
Second NTP time server	None 🗸			
TIME CONFIGURATION				
Current Router Time	: Thu Jan 1 00:12:43 1970			
Time Zone	: (GMT-08:00) Pacific Time, Tijuana			
	Daylight Saving Time rule of US have automatically been applied to this tim zone			
	Enable Daylight Saving, overwrite automatic rule			
	Month Week Day Time			
Daylight Saving Dates	: Start Jan 💙 1st 💙 Sun 💙 12 am 💙			
	End Jan 💙 1st 💙 Sun 💙 12 am 💙			

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**.

- **Protocol**: The protocol connection type of the interface. You can select PPPoE, PPPoA, Dynamic IP, Static IP, or Bridge.
- **Connection Type**: You can select it from the drop-down list according to the uplink equipment. You can select LLC or VC-Mux.
- **VPI**: The virtual path identifier of the WAN interface (provided by your ISP). The range is 0 to 255.
- VCI: The virtual channel identifier for the WAN interface. The range is 32 to 65535 (1 to 31 are reserved for known protocols).

$1 \rightarrow 2 \rightarrow$ STEP 3: SETUP INTERNET CONNECTION $\rightarrow 4 \rightarrow 5$

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

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

If the **Protocol** is **PPPoE** or **PPPoA**, the page shown in either of the two figures appears.

$1 \rightarrow 2 \rightarrow$ STEP 3: SETUP INTERNET CONNECTION $\rightarrow 4 \rightarrow 5$

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

Country :	Others 🗸			
Internet Service Provider :	Others 🗸			
Protocol :	PPPoE 💌			
Connection Type :	(Click to Select)			
VPI :	(Enter a number) (0-255)			
VCI :	(Enter a number) (32-65535)			
РРРОЕ				
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 :				
Back Next Cancel				

Set the user name and password as provided by your ISP.

$\mathbf{1} \rightarrow \mathbf{2} \rightarrow \mathsf{STEP} \ \mathbf{3} \text{: SETUP INTERNET CONNECTION} \rightarrow \mathbf{4} \rightarrow \mathbf{5}$

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

Country :	Others 🖌	
Internet Service Provider :	Others 🖌	
Protocol :	PPPoA 💌	
Connection Type :	(Click to Select) 💌	
VPI :	(Enter a number)	(0-255)
VCI :	(Enter a number)	(32-65535)
Δ.		

РРРо

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 :	
Back	Cancel

If the **Protocol** is **Static IP**, the page shown in the figure appears. Enter the IP Address, Subnet Mask, Default Gateway, and Primary DNS Server.

$\mathbf{1} \rightarrow \mathbf{2} \rightarrow \mathsf{STEP} \ \mathbf{3} \text{: SETUP INTERNET CONNECTION} \rightarrow \mathbf{4} \rightarrow \mathbf{5}$

Please select your Country and ISP (Internet Service Provider) from the list below. If your Country or ISP is not in the list, please select "Others".
Country : Others Internet Service Provider : Others Protocol : Static IP Connection Type : (Click to Select) VPI : (Enter a number) (0-255) VCI : (Enter a number) (32-65535)
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 : 0.0.0.0
Subnet Mask : 0.0.0.0
Default Gateway : Primary DNS Server :
Back Next Cancel
$1 \rightarrow 2 \rightarrow$ STEP 3: SETUP INTERNET CONNECTION $\rightarrow 4 \rightarrow 5$ Please select your Country and ISP (Internet Service Provider) from the list below. If your Country or ISP is not in the list, please select "Others".
Country : Others
Internet Service Provider : Others
Protocol : Dynamic IP Connection Type : (Click to Select)
VPI: (Enter a number) (0-255)
VCI: (Enter a number) (32-65535)
Back Next Cancel

If the **Protocol** is **Dynamic IP** or **Bridge**, the page shown in the figure appears.

After proper configuration, click Next.

$1 \rightarrow 2 \rightarrow$ STEP 3: SETUP INTERNET CONNECTION $\rightarrow 4 \rightarrow 5$

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

Country :	Others 💌
Internet Service Provider :	Others 👻
Protocol :	Bridge 💌
Connection Type :	(Click to Select) 💌
VPI :	(Enter a number) (0-255)
VCI :	(Enter a number) (32-65535)
Back	Cancel

Configure the wireless network, or keep the default settings. Enter the information and click **Next**.

- Enable Your Wireless Network: Enable wireless settings on LAN interface.
- Wireless Network Name (SSID): SSID is the name of your wireless network. All wireless-equipped devices share the same SSID to communicate with each other. It must be unique to identify separated wireless network. For security, you should change the default SSID to a special ID.
- Visibility Status: You can select visible or invisible.
- Security Level: 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.
- WPA Pre-Shared Key: Please set it. Then you will need to enter the same key here into your wireless clients in order to enable proper wireless connection.

			FUERO NETH			
. → 2 →	$3 \rightarrow \text{STEP } 4$:	CONFIGURE WIR	ELESS NETV	VORK→ 5		
	ess network is en on of wireless ne		u can simply ur	ncheck it to disable it a	nd click "Next'	' to skip
	Enable Your	Wireless Network				
		ds a name so it can be ange the pre-configur		ized by wireless clients ame.	. For security (purposes, it is
w	/ireless Networ	k Name (SSID) : d	llink	(1~32 characte	ers)	
				be found by wireless c ID in order to connect		
Vi	isibility Status	: •	Vicible 🔿 1	Invisible		
Vi	isibility Status	: • •	Visible 🔿 I	Invisible		
n order to	protect your ne	etwork from hackers a	and unauthorize	Invisible ed users, it is highly rea	commended y	ou choose one
n order to	protect your ne		and unauthorize		commended ye	ou choose one
n order to he followin	protect your ne ng wireless netw	etwork from hackers a	and unauthoriz	ed users, it is highly rea	commended y	
n order to he followin	protect your ne	etwork from hackers a	and unauthorize	ed users, it is highly rea	commended ye	ou choose one Best
n order to he followin	protect your ne ng wireless netw	etwork from hackers a	and unauthoriz	ed users, it is highly rea		
n order to he followin	protect your ne ng wireless netw None	etwork from hackers a rork security settings.	and unauthoriz	ed users, it is highly red evel		Best
n order to he followin C S	protect your ne ng wireless netw Vone None Security Mode:	etwork from hackers a rork security settings.	security L	ed users, it is highly red evel O WPA-PSK		Best
n order to he followin C S	protect your ne ng wireless netw Vone None Security Mode:	etwork from hackers a ork security settings. WEP WPA-PSK	security L	ed users, it is highly red evel O WPA-PSK		Best
n order to he followin C S S	protect your ne ng wireless netw Vone O None Security Mode: elect this option	etwork from hackers a ork security settings. WEP WPA-PSK if your wireless adapt	security L	ed users, it is highly red evel O WPA-PSK		Best
n order to he followin C S S	protect your ne ng wireless netw Vone O None Security Mode: elect this option	etwork from hackers a ork security settings. WEP WPA-PSK	security L	ed users, it is highly red evel O WPA-PSK		Best
n order to he followin C S S	protect your ne ng wireless netw Vone O None Security Mode: elect this option	etwork from hackers a ork security settings. WEP WPA-PSK if your wireless adapt reless security key.	security L	ed users, it is highly red evel O WPA-PSK		Best
n order to he followin C S S	Protect your ne ng wireless netw None None Security Mode: select this option we enter your wir	etwork from hackers a ork security settings. WPA-PSK of your wireless adapt reless security key. ared Key :	security L	ed users, it is highly red evel O WPA-PSK		Best
n order to he followin C S S	Vone None Security Mode: elect this option wPA2 Pre-Sh	WEP WPA-PSK If your wireless adapt reless security key. ared Key : &	Security L	ed users, it is highly red evel O WPA-PSK /PA-PSK.	• 1	Best WPA2-PSK
n order to he followin C S Iow, please	Vone None Security Mode: elect this option we enter your wir WPA2 Pre-Sh %Fortress123	WEP WPA-PSK if your wireless adapt reless security key. ared Key : & (8-63 characters,	such as a~z, A	ed users, it is highly red evel O WPA-PSK /PA-PSK.	⊙ \ 	Best WPA2-PSK
n order to he followin C S Iow, please	Vone None Recurity Mode: Recurity Mo	WEP WPA-PSK if your wireless adapt reless security key. ared Key : & (8-63 characters,	such as a~z, A	ed users, it is highly red evel O WPA-PSK /PA-PSK.	⊙ \ 	Best WPA2-PSK

Back Next Cancel

The page shown in the right figure appears. In this page, you can view the configuration information. You can check weather the configurations match the information provided by your ISP.

$1 \rightarrow 2 \rightarrow 3 \rightarrow 4$ STEP 5: COMPLETED AND APPLY

Setup complete. Click "Back" to review or modify settings. Click "Apply" to apply current settings.

If your Internet connection does not work after apply, 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 :	Disable
VPI / VCI :	0/35
Protocol :	PPPoE
Connection Type :	LLC
Username :	test
Password :	test
Wireless Network :	Enabled
Wireless Network Name (SSID) :	dlink
Visibility Status :	Visible
Encryption :	WPA2-PSK/AES (also known as WPA2 Personal)
Pre-Shared Key :	%Fortress123

Back Apply Cancel

4.3.2 Internet Setup

Choose **Setup** > **Internet Setup**. The page as shown in the right 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. A maximum of 8 entries can be configured.

WAN	SETUP								
	VPI/VCI	VLAN Mux	Service Name	Protocol	IGMP	QoS	NAT	Status	Action
	8/35	N/A	pppoe_0_8_35	PPPoE	Disabled	Disabled	Enable	Unconfigured	
	8/35	N/A	pppoe_0_8_35	PPPoE	Disabled	Disabled	Enable	Unconfigured	
			Add	Edit	Delete	h			

Field	Description				
	•				
	 The virtual path between two points in an ATM 				
PVC	network and its valid value is from 0 to 255.				
Settings	 The virtual channel between two points in an ATM 				
g-	network, ranging from 32 to 65535 (0 to 31 is				
	reserved for local management of ATM traffic).				
	You can select from the drop-down list.				
	UBR Without PCR 🐱				
Service	UBR Without PCR				
Category	UBR With PCR				
	CBR Non Realtime VBR				
	Realtime VBR				
	You can select from the drop-down list.				
	Bridging 🗸				
Protocol	PPP over ATM (PPPoA)				
FIOLOCOI	PPP over Ethernet (PPPoE)				
	MAC Encapsulation Routing (MER) IP over ATM (IPoA)				
	Bridging				
QoS	You can select one of the item between Strict Priority				
scheduler	and Weighted Fair Queuing.				
	Select the method of encapsulation provided by your				
Encapsulati	ISP. You can select from the drop-down list.				
on Mode	LLC/SNAP-BRIDGING 💟				
	LLC/SNAP-BRIDGING VC/MUX				
	YOPHON				

Click **Add in "INTERNET SETUP"**. 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 (0-255)
VCI:	35 (32-65535)
Service Category:	UBR Without PCR 🔽
Peak Cell Rate:	(cells/s)
Sustainable Cell Rate:	(cells/s)
Maximum Burst Size:	(cells)
IP QOS SCHEDULER ALGORITHM	
 Strict Priority 	
Precedence of queue:	8 (lowest)
 Weighted Fair Queuing 	
Weight Value of queue:	(1-63)
MPAAL Group Precedence:	8 ~
CONNECTION TYPE	
Protocol:	Bridging 💙
Encapsulation Mode:	LLC/SNAP-BRIDGING
Enable Multiple Vlan Over One Connection:	
802.1P Priority [0-7]:	-1
802.1Q VLAN ID [0-4094]:	-1
BRIDGE SETTINGS	
Service Name:	br_0_0_35
Next Ca	ancel

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

WAN

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

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

SETUP - SUMMARY		
VPI / VCI:	0/3	35
Connection Type:	Brid	ge
Service Name:	br_0	0_0_35
Service Category:	UBR	
IP Address:	Not	Applicable
Service State:	Enal	bled
	Back Apply	

If you select the **PPP over Ethernet (PPPoE)** or **PPP over ATM (PPPoA)** as the connection protocol, the following page appears.

- **PPP Username:** The correct user name that your ISP provides to you.
- **PPP Password:** The correct password that your ISP provides to you.
- Authentication Method: The value can be AUTO, PAP, CHAP, or MSCHAP. Usually, you can select AUTO.
- **Dial on demand (with idle timeout timer):** If this function is enabled, you need to enter the idle timeout time. Within the preset minutes, if the router does not detect the flow of the user continuously, the router automatically stops the PPPoE connection. Once it detects the flow (like access to a webpage), the router restarts the PPPoE dialup.

If this function is disabled, the router performs PPPoE dial-up all the time. The PPPoE connnection does not stop, unless the router is powered off and DSLAM or uplink equipment is abnormal.

- **MTU Size:** Maximum Transmission Unit. Sometimes, you must modify this function to access network successfully.
- **PPP IP extension:** If this function is enabled, the WAN IP address obtained by the router through built-in dial-up can be directly assigned to the PC being attached to the router (at this time, the router connects to only one PC). From the aspect of the PC user, the PC dials up to obtain an IP addres. But actually, the dial-up is done by the router. If this function is disabled, the router itself obtains the WAN IP address.
- Use Static IP Address: If this function is disabled, the router obtains an IP address assigned by an uplink equipment such as BAS, through PPPoE dial-up.

If this function is enabled, the router uses this IP address as the WAN IP address.

- Enable NAT: Select it to enable the NAT functions of the router. If you do not want to enable NAT and wish the router user to access the Internet normally, you must add a route on the uplink equipment. Otherwise, the access to the Internet fails. Normally, NAT should be enabled.
- Enable Firewall: Enable or disable IP filtering.
- **Enable IGMP Multicast**: IGMP proxy. For example, if you wish that the PPPoE mode supports IPTV, enable this function.

Protocol:	PPP over Ethernet (PPPoE)
Encapsulation Mode:	LLC/SNAP-BRIDGING 🗸
Enable Multiple Vlan Over One Connection:	
802.1P Priority [0-7]:	-1
802.1Q VLAN ID [0-4094]:	-1
PPP USERNAME AND PASSWORD	
PPP Username:	
PPP Password:	
Confirm PPP Password:	
Authentication Method:	AUTO 🗸
Dial On Demand (With Idle Timeout Timer):	
Inactivity Timeout:	(minutes [1-4320])
Dial On Manual:	
MTU Size:	1492 (1370-1492)
PPP IP Extension:	
IPV4 Setting	
Use Static IP Addres.	
IP Address: 0.0.0.0	
NETWORK ADDRESS TRANSLATION SETTI	NGS
Enable NAT:	
Enable Firewall:	
Enable IGMP Multicast:	
Service Name:	pppoe_0_0_35
Next C	ancel

If you select the **MAC Encapsulation Routing(MER)** as the connection protocol, the following page appears.

- Obtain an IP address automatically: The modem obtains a WAN IP address automatically and at this time it enables DHCP client functions. The WAN IP address is obtained from the uplink equipment like BAS and the uplink equipment is required to enable the DHCP server functions.
- Use the following IP address: If you want to manually enter the WAN IP address, select this check box and enter the information in the field.
- WAN IP Address: Enter the IP address of the WAN interface provided by your ISP.
- WAN Subnet Mask: Enter the subnet mask concerned to the IP address of the WAN interface provided by your ISP.
- **Default Gateway**: Enter the default gateway.
- **Obtain DNS info automatically from WAN interface:** You can get DNS server information from the selected WAN interface
- Use the following Static DNS IP address: If you want to manually enter the IP address of the DNS server, select this check box and enter the information in the fields.
- **Primary DNS server:** Enter the IP address of the primary DNS server.
- Secondary DNS server: Enter the IP address of the secondary DNS server provided by your ISP.

	Protocol:	MAC Encapsulation Routing (MER) 💙
	Encapsulation Mode:	LLC/SNAP-BRIDGING 🗸
Enable Multiple V	an Over One Connection:	
	802.1P Priority [0-7]:	-1
8	02.1Q VLAN ID [0-4094]:	-1
WAN IP SETTINGS		
TD	/4 Setting	
۲F* ()	-	tomatically
, in the second s	Use the following IP add	
	WAN IP Address:	
	WAN Subnet Mask:	
	Default Gateway:	
۲	Obtain DNS info automa	tically from WAN interface
	Use the following Static	DNS IP address:
	Primary DNS server:	
S	econdary DNS server:	
NETWORK ADDRES	S TRANSLATION SETTI	NGS
	Enable NAT:	
	Enable Firewall:	
	Enable IGMP Multicast:	
	Service Name:	mer_0_0_35
	Next C	ancel

After proper settings, click Next.

WAN

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

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

SETUP - SUMMARY

VPI / VCI:	0 / 35
Connection Type:	IPoE
Service Name:	mer_0_0_35
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Back Apply

4.3.3 Wireless Connection

This section includes the wireless connection setup wizard and WPS setup wizard. There are two ways to setup your wireless connection. You can use the **Wireless Connection Setup Wizard** or you can manually configure the connection.

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

WIRELESS CONNECTION

There are two ways to setup your wireless connection. You can use the Wireless Connection Setup Wizard or you can manually configure the connection.

Please note that changes make on this section will also need to duplicated to your wireless clients and PC.

WIRELESS CONNECTION SETUP WIZARD

If you would like to utilize our easy to use Web-based Wizard to assist you in connecting you new D-Link Systems Wireless Router to the Internet, click on the button below.

Wireless Connection Setup Wizard

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

ADD WIRELESS DEVICE WITH WPS (WI-FI PROTECTED SETUP) WIZARD

This wizard is designed to assist you in connecting your wireless device to your router. It will guide you through step-bystep instructions on how to get your wireless device connected. Click the button bellow to begin.

Add Wireless Device with WPS

MANUAL WIRELESS CONNECTION OPTIONS

If you would like to configure the Internet settings of you new D-Link Router manually, then click on the button bellow.

Manual Wireless Connection Setup

WPS RESET TO UNCONFIGURED

Wps reset to unconfigured, the "wireless settings" will be reset to factory default, other settings will remain unchanged.

Reset to Unconfigured

4.3.3.1 Wireless Wizard

In **Wireless Connection** page, Click "**Wireless Connection Setup Wizard**", the page shown in the following figure appears.

	Network Name (SSID):
۲	Automatically assign a network key (Recommended)
	To prevent outsiders from accessing your network, the router will automatically assign a security key (also called WEP or WPA key) to your network
0	Manually assign a network key
	Use this option if you prefer to create your own key
	Use WPA encryption instead of WEP (WPA is stronger than WEP and all D-Link wireless client adapters support WPA)
	Prev Next Cancel

The WPA (Wi-Fi Protected Access) key must meet one of following guidelines.

- Between 8 and 63 characters (A longer WPA key is more secure than a short one) - Exactly 64 characters using 0-9 and A-F

Network Key :

If you select "Use WPA encryption instead of WEP" and "Manually assign a network key", click "Next", the page shown in the following figure appears.

\sim	_
2	ວ
_	-

ork Key :

Prev Next Cancel

If you only select "**Manually assign a network key**", click "**Next**", the page shown in the following figure appears.

WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD	
The WEP (or Wired Equivalent Privacy) key must meet one of following guidelines.	
- Exactly 5 or 13 characters - Exactly 10 or 26 characters using 0-9 and A-F A longer WEP key is more secure than a short one.	
Network Key :	
Prev Next Cancel	

After you enter the network key, the page shown in the following figure appears, you can confirm the wireless settings in this page.

Click **Save** to save the settings.

WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD
Please enter the following settings in the wireless device that you are adding to your wireless network and keep a note of it for future reference
Network Name (SSID) : dlink
Wireless Security Mode : WPA-PSK TKIP
Network Key: 123456789
Prev Save Cancel

4.3.3.2 Wireless Device Add

In **Wireless Connection** page, Click **Add Wireless Device with WPS**, the page shown in the following figure appears.

ADD WIRELESS DEVICE WITH WPS (WI-FI PROTECTED SETUP)

Please select one of the following configuration methods and click next to continue.

 \odot Auto -- Select this option if your wireless device supports WPS (Wi-Fi Protected Setup)

O Manual -- Select this option will display the current wireless setting for you to configure the wireless device manually

Prev	Next	Cance

Select **Auto**, click **Next**, the page shown in the following figure appears. When **PIN** is used, users are only allowed to enter no more than eight digits in the field.

vays to add wireless device to your wireless network: dentification Number) :on Configuration)
ion Configuration)
• PIN :
nter the PIN from your wireless device and click the bellow "Connect" button
O PBC :
ress the push button on your wireless device and press the "Connect" button bellow within 120 second
Prev Connect

Select **Manual**, click **Next**, the page shown in the following figure appears. It displays the current wireless settings and you can manually enter the settings in the wireless device that's to be added in the wireless network.

ADD WIRELESS DEVICE WITH WPS (WI-FI PROTECTED SETUP)

Please enter the following settings in the wireless device that you are adding to your wireless network and keep a note of it for future reference

Network Name (SSID) :	aaaa
Wireless Security Mode :	WPA-PSK TKIP+AES
Network Key:	PNHBbiUCFFceAVq6
Prev	Ok

4.3.3.3 Manual Wireless Setup

If you want to configure the Internet settings of you new D-Link Router manually, click Manual Wireless Connection Setup. It will redirect to 4.4.1 Wireless Settings.

4.3.3.4 WPS Reset to Unconfigured

In **Wireless Connection** page, Click **Reset to Unconfigured,** the page shown in the following figure appears.

Once the **"Reset to Unconfigured**" button is clicked, the "wireless settings" will be reset to factory default, other settings will remain unchanged.



4.3.4 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	ROL	JTER	SETT	INGS
-----------------	-----	------	------	------

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

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

By default, **Enable DHCP Server** is selected for the Ethernet LAN interface of the device. DHCP service supplys 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. Click **Apply** to save the settings.

DHCP SERVER SETTINGS (OPTIONAL)

0	Disable DHCP Server
۲	Enable DHCP Server
DHCP IP Address Range :	192.168.1.2 to 192.168.1.254
DHCP Lease Time :	24 (hours)

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

DHCP RESERV	ATIONS LIST		
Status	Computer Name	MAC Address	IP Address
Add Edit Delete			

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

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**.

ADD DHCP RESERVATION	(OPTIONAL)
Enable :	\checkmark
Computer Name :	
IP Address :	0.0.0.0
MAC Address :	00:00:00:00:00
	Copy Your PC's MAC Address
	Apply Cancel

4.3.5 Time and Date

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

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 manual Daylight Saving, overwrite automatic rule if necessary. Set the daylight as you want.

Click **Apply** to save the settings.

TIME AND DATE

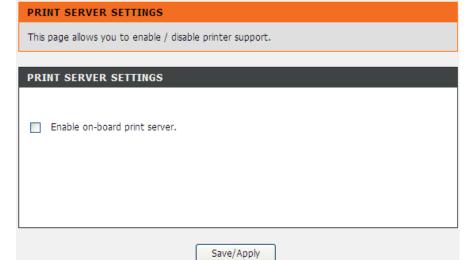
The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to automatically adjust the time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

TIME	SETTINGS

Image: Automatically synchronize with Internet time servers First NTP time server : Intp1.dlink.com Second NTP time server : None						
TIME CONFIGURATION						
Current Router Time : Time Zone :	Thu Jan 1 00:55:57 1970 (GMT-08:00) Pacific Time, Tijuana Paylight Saving Time rule of US have automatically been applied to					
	this time zone Enable manual Daylight Saving,overwrite automatic rule					
Daylight Saving Dates :	Month Week Day Time Start Jan 4th Sun 12 am End Jan 4th Sun 12 am					
	Apply Cancel					

4.3.6 Print Server

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



Select **Enable on-board print server**, the page shown in the following figure appears.

- Printer name: can be any text string up to 80 characters.
- Make and model: can be any text string up to 80 characters. Click Save/Apply to save the settings.

PRINT SERVER SETTINGS						
E Fashle on heard print conver						
Enable on-board print server.						
		-				
Printer name	hp3845					
Make and model	Hp DeskJet 3845					
Save/Apply						

4.3.7 Logout

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

I	LOGOUT
	Logging out will close the browser.
	Logout
l	Lögödt

4.4 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.

4.4.1 Wireless Settings

This function is used to modify the standard 802.11 wireless radio settings. It is recommended 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** > **Wireless Settings**. The page shown in the following figure appears.

DSL-2750U	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP			
Wireless Settings	WIRELESS SETTINGS WIRELESS BASICS							
Port Forwarding	Configure your wireless basic settings.							
Port Triggering		bable becanger						
DMZ			Wireless Basics					
Parental Control								
Filtering Options	ADVANCED WIRELESS ADVANCED SETTINGS							
DNS	Allows you to configure advanced features of the wireless LAN interface.							
Dynamic DNS		Г	Advanced Settings					
Storage Service								
Multicast	ADVANCED WIREL	ESS MAC FILTER	ING					
Network Tools	Allows you to configure wireless firewall by denving or allowing designated MAC addresses.							
Routing	Anoves you to configure whereas mewall by denying of anovelig designated MAC addresses.							
MultiNat			MAC Filtering					
Schedules								
Logout	ADVANCED WIRELESS SECURITY SETTINGS							
	Allows you to configure security features of the wireless LAN interface.							
		(Security Settings					

4.4.1.1 Wireless Basics

In the **Wireless Settings** page, click **Wireless Basic**, 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.

- Enable Wireless: Select this to turn Wi-Fi 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.
- **Country**: Select the country from the drop-down list.
- Wireless Channel: Select the wireless channel from the pull-down menu. It is different for different countries.
- **802.11 Mode**: Select the appropriate 802.11 mode based on the wireless clients in your network. The drop-down menu options are 802.11n auto, 802.11g only, Mixed 802.11g and 802.11b, or 802.11b only.
- Bandwidth: You can select it from the drop-down list:



Click **Apply** to save the settings.

WIRELESS BASICS

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.

\checkmark	Enable Wireless
Wireless Network Name (SSID) :	dlink
Visibility Status :	
Country :	SINGAPORE
Wireless Channel :	Auto 💟 (Current: CH 6)
802.11 Mode :	802.11n auto 💌
Bandwidth :	802.11n auto 802.11n only 802.11g only
ease take note of your SSID as you we evices and PC.	Mixed 802.11g and 802.11b ill 802.11b only settings to your wireless

4.4.1.2 Advanced Settings

In the **Wireless Settings** page, click **Advanced settings**, the page shown in the following figure appears.

- Multicast Rate: Select the multicast transmission rate for the network. The rate of data transmission should be set depending on the speed of your wireless network. You can select from a range of transmission speeds, or you can select **Auto** to have the Router automatically use the fastest possible data rate and enable the Auto-Fallback feature. Auto-Fallback will negotiate the best possible connection speed between the Router and a wireless client. The default value is **Auto**.
- **Fragmentation Threshold:** Packets that are larger than this threshold are fragmented into multiple packets. Try to increase the fragmentation threshold if you encounter high packet error rates. Do not set the threshold too low, since this can result in reducing networking performance.
- RTS Threshold: This value should remain at its default setting of 2347.Should you encounter inconsistent data flow, only minor reductions are recommended. Should you encounter inconsistent data flow, only minor reduction of the default value, 2347 is recommended. If a network packet is smaller than the preset RTS threshold size, the RTS/CTS mechanism will not be enabled. The Router sends Request to Send (RTS) frames to a particular receiving station and negotiates the sending of a data frame. After receiving an RTS, the wireless station responds with a Clear to Send (CTS) frame to acknowledge the right to begin transmission. The RTS Threshold value should remain at its default value of 2347.
- **DTIM Interval:** (Delivery Traffic Indication Message) Enter a value between 1 and 255 for the Delivery Traffic Indication Message (DTIM.) A DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.
- **Beacon Interval:** A beacon is a packet of information that is sent from a connected device to all other devices where it announces its availability and readiness. A beacon interval is a period of time (sent with the beacon) before sending the beacon again. The beacon interval may be adjusted in milliseconds (ms). Default (100) is recommended.
- **Global Max Clients:** Specifies maximum wireless client stations to be enble to link with AP. Once the clients exceed the max vlaue, all other clients will be refused.

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

Multicast Rate:	Auto 😽
Fragmentation Threshold:	2346
RTS Threshold:	2347
DTIM Interval:	1
Beacon Interval:	100
Global Max Clients:	16
Transmit Power:	100%
WMM(Wi-Fi Multimedia):	Enabled 💌
L	
SSID	

Enable Wireless	
Wireless Network Name (SSID) :	dlink
Visibility Status :	
User Isolation :	Off 💌
Disable WMM Advertise :	Off 🗸
Enable Wireless Multicast Forwarding (WMF) :	On 💌
Max Clients :	16 (1 ~ 128)

- **Transmit Power:** Adjust the transmission range here. This tool can be helpful for security purposes if you wish to limit the transmission range.
- WMM (Wi-Fi Multimedia): Select whether WMM is enable or disabled. Before you disable WMM, you should understand that all QoS queues or traffic classes related to wireless do not take effect.
- Enable Wireless: Select this to turn Wi-Fi 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.
- User Isolation: When many clients connect to the same access point, they can access each other. If you want to disable the access between clients which connect the same access point, you can select **On** to enable this service.
- **Disable WMM Advertise:** You can select **On** or **Off** from the drop-down list.
- Enable Wireless Multicast Forwarding (WMF): You can select On or Off from the drop-down list.
- Max Clients: Specifies maximum wireless client stations to be enble to link with AP.
- **GUEST/VIRTUAL ACCESS POINT:** If you want to make Guest/Virtual network function be available, you can set the parameters below.

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.

Click **Apply** to save the settings.

GUEST/VIRTUAL ACCESS POINT-1

Enable Wireless Guest Network :	
Guest SSID :	dlink_guest1
Visibility Status :	◉ Visible ○ Invisible
User Isolation :	Off 🗸
Disable WMM Advertise :	Off 🗸
Enable Wireless Multicast Forwarding (WMF) :	Off 🗸
Max Clients :	16 (1 ~ 128)
UEST/VIRTUAL ACCESS POINT-2	
Enable Wireless Guest Network :	
Guest SSID :	dlink_guest2
Visibility Status :	⊙ Visible ○ Invisible
User Isolation :	Off 🗸
Disable WMM Advertise :	Off 🗸
Enable Wireless Multicast Forwarding (WMF) :	Off 😽
Max Clients :	16 (1 ~ 128)
UEST/VIRTUAL ACCESS POINT-3	
Enable Wireless Guest Network :	
Guest SSID :	dlink_guest3
Visibility Status :	◉ Visible ○ Invisible
User Isolation :	Off 🗸
Disable WMM Advertise :	Off 🗸
Enable Wireless Multicast Forwarding (WMF) :	Off 😽
Max Clients :	16 (1 ~ 128)

4.4.1.3 MAC Filtering

In the **Wireless Settings** page, click **MAC Filtering**, the page shown in the following figure appears.

In this page, you can allow or deny users access the wireless router based on their MAC address.

MAC FILTERING

Enter the MAC address and click "Apply" to add the MAC address to the wireless MAC address filters.

Wireless MAC Filtering Policy:

- ☑ Enable Wireless MAC Filtering
- Only ALLOW computers listed to access wireless network
- Only **DENY** computers listed will be blocked to access wireless network

hppy concer							
WIRELESS MAC FILTERING LIST							
MAC Address	SSID						
Add							

Apply Cancel

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

MAC FILTERING	
MAC Address :	SSID: DLINK
	Apply Cancel

4.4.1.4 Security Settings

In the **Wireless Settings** page, click **Security Settings.** The page shown in the following figure appears.

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**, **WPA-Personal** and **WPA-Enterprise**.

SECURITY SETTINGS

This page allows you to configure security features of the wireless LAN interface. You can set the network authentication method, select data encryption, specify whether a network key is required to authenticate to this wireless network and specify the encryption strength. Click "Apply" to configure the wireless security options.

Select SSID :	dlink 💌
WIRELESS SECURITY MODE	
	gure wireless security features. This device supports th P, WPA and WPA2. WEP is the original wireless encryp higher level of security.
Security Mode :	WPA-Personal
WIRELESS SECURITY MODE	
WPA Mode:	WPA2 Only
WPA passphrase:	•••••
WPA Group Rekey Interval:	0
	AES V
WPA/WAPI Encryption:	
WPA/WAPI Encryption:	

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

WEP (Wireless Encryption Protocol) encryption can be enabled for security and privacy. WEP encrypts the data portion of each frame transmitted from the wireless adapter using one of the predefined keys.

The router offers 64 or 128 bit encryption with four keys available.

Select **Encryption Strength** from the drop-down menu. (128 bit is stronger than 64 bit)

Enter the key into the Network Key field 1~4. (Key length is outlined at the bottom of the window.)

Click **Apply/Save** to save the settings.

WIRELESS SECURITY MODE 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. Security Mode : WEP ¥ WIRELESS SECURITY MODE Encryption Strength: 64-bit 🗸 Current Network Key: ~ Network Key 1: 0987654321 Network Key 2: 0987654321 Network Key 3: 0987654321 Network Key 4: 0987654321 Enter 13 ASCII characters or 26 hexadecimal digits for 128-bit encryption keys Enter 5 ASCII characters or 10 hexadecimal digits for 64bit encryption keys

Please	e take	note	of y	our	SSID	and	security	Key	as	you	will	need	to	duplicate	the	same	settin	gs to	
your \	vireles	is dev	ices	and	PC.														

If you select **WPA-Personal**, the page shown in the following figure appears.

WIRELESS SECURITY MODE

	gure wireless security features. This device supports three P, WPA and WPA2. WEP is the original wireless encryption higher level of security.
Security Mode :	WPA-Personal
WIRELESS SECURITY MODE	
WPA Mode:	WPA2 Only
WPA passphrase:	•••••
WPA Group Rekey Interval:	0
WPA/WAPI Encryption:	AES 🔽

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

If you select **WPA- Enterprise**, the page shown in the following figure appears. You can only use WPA-enterprise if you have set up RADIUS server. This is the WPA/WPA2 authentication with RADIUS server instead of pre-shared key.

WIRELESS SECURITY MODE

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.

Security Mode : WPA-Enterprise 🗸

WIRELESS SECURITY MODE

WPA2 Preauthentication:	Disabled 💌
Network Re-auth Interval:	36000
WPA Mode:	WPA2 Only
WPA Group Rekey Interval:	0
WPA/WAPI Encryption:	AES 💌
RADIUS Server IP Address:	0.0.0.0
RADIUS Port:	1812
RADIUS 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.

4.4.2 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: The "Internal Port End" cannot be changed. 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 FORW	ARDING SE	rup				
Server	External Port	Protocol	Internal Port	Server IP	Use Interface	Schedule Rule
Name	Start End		Start End	Address		
			Add			

Click Add to add a virtual server.

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.

Use Interface	: PPPoE_0_0_35/	/ppp0 💌					
Select a : (Click to Select)							
Custom Server	:						
Schedul	e: Always 💌 Vie	ew Available Sche	dules				
Server IP Addres	s: 192.168.1.						
External Port Start	External Port End	Protocol	Internal Port Start	Internal Por End			
		тср 💌					
		тср 💌					
		тср 💌					
		тср 💌					
		тср 💌					
		тср 💌					
		тср 💌					
		тср 💌					
		TCP 💌					
		тср 💌					
		TCP 💌					
		ТСР 🗸					

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

Server		ternal Intern Port Protocol Port			Server IP	Use	Schedule	
Name	Start	End		Start	End	Address	Interface	Rule
AUTH	113	113	ТСР	113	113	10.0.0.78	ppp0	Always

4.4.3 Port Triggering

Some applications require that specific ports in the firewall of the device are open for the remote parties to access. Application rules dynamically open the firewall ports when an application on the LAN initiates a TCP/UDP connection to a remote party using the trigger ports. The device allows the remote party from the WAN side to establish new connections back to the application on the LAN side using the firewall ports. A maximum of 32 entries can be configured. Choose **ADVANCED** > **Port Triggering**. The page shown in the following figure appears.

PORT TRIGGERING

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

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

A maximum of 32 entries can be configured.

0	ORT TRIGG	ERING							
	Application	Tr	Trigger		Open			Use Interface	Schedule Rule
	Name	Protocol	Po Ran		Protocol	Port R	ange		
			Start	End		Start	End		

Add

Click **Add** to add a new Port Trigger.

Click the **Select an application** drop-down menu to choose the application you want to setup for port triggering. When you have chosen an application the default Trigger settings will populate the table below.

If the application you want to setup isn't listed, click the **Custom application** radio button and type in a name for the trigger in the Custom application field. Configure the **Trigger Port Start**, **Trigger Port End**, **Trigger Protocol**, **Open Port Start**, **Open Port End** and **Open Protocol** settings for the port trigger you want to configure.

When you have finished click the **Apply** button.

Use Inter	face	: 0000	e 0 8 35/ppp0	~	
ose inter		ion Name :	c_o_o_oo,pppo		
Select an	application		to Select)	*	
O Custom a	pplication	:			
	Sch	nedule : Alwa	ys 💌 View Availa	able Schedules	
Trigger Port Start	Trigger Port End	Trigger Protocol	Open Port Start	Open Port End	Open Protocol
		тср 💌			TCP 💌
		тср 💌			TCP 💌
		тср 💌			TCP 💌
		тср 💌			TCP 💌
		тср 💌			тср 💌
		TCP 💌			TCP 💌
		тср 💌			TCP 💌
		ТСР			ТСР 🗸

4.4.4 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. Click **Apply** to save the settings.

DMZ

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

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

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

DMZ HOST	
DMZ Host IP Address :	
	Apply Cancel

4.4.5 Parental Control

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

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.

PARENTAL CONTROL BLOCK WEBSITE					
Uses URL (i.e. www.yahoo.com) to implement filtering.					
Block Website					
PARENTAL CONTROL BLOCK MAC ADDRESS					
PARENTAL CONTROL BLOCK MAC ADDRESS Uses MAC address to implement filtering.					

4.4.5.1 Block Website

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

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. Choose "Add", "Edit", or "Delete" to configure block websites.

BLOCK WEBSITE						
URL	Schedule Rule					

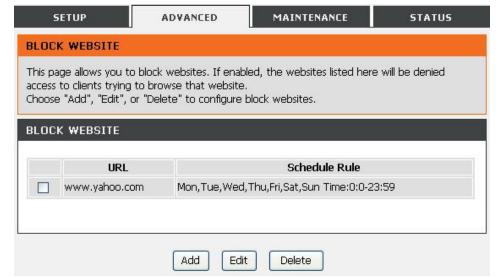
Add

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

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.

U	א ב :	http://	
🔵 Schedule	:	Always 😒	View Available Schedules
Manual Schedule	:		
	Day(s):	🔿 All Wee	ek 💿 Select Day(s)
		🔲 Sun	🗌 Mon 🔲 Tue 📃 Wed
		🗌 Thu	🗌 Fri 📃 Sat
All Da	y - 24 hrs :		
5	Start Time:		(hour:minute, 24 hour time)
	End Time:		(hour:minute, 24 hour time)

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



4.4.5.2 Block MAC Address

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

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 Windowsbased PC, open a command prompt window and type "ipconfig /all".

BLOCK MAC ADDRESS		
Username	MAC	Schedule
	Add	

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

	User Name:	
Surrent PC's	MAC Address :	00:1a:a0:ba:00:60
🔵 Other MAC A	ddress :	()00300300300300)
Manual Sche	dule :	
	Day(s) :	🔘 All Week 💿 Select Day(s)
		Sun Mon Tue Wed
	All Day - 24 hrs :	
	Start Time :	
	End Time :	(hour:minute, 24 hour time)
	ADVANCED	pply Cancel STATUS
SETUP	ADVANCED	
LOCK MAC AD	ADVANCED	
LOCK MAC AD ime of Day Restric his page adds a ti Current PC's MAC rowser is running, nter the MAC add	ADVANCED DRESS tions A maximum of me of day restriction t Address" automatically To restrict another LA ress of the other LAN	f 16 entries can be configured to a special LAN device connected to the router. The displays the MAC address of the LAN device where t
LOCK MAC AD ime of Day Restric his page adds a tii Current PC's MAC . rowser is running, nter the MAC add ased PC, open a c	ADVANCED DRESS tions A maximum of me of day restriction t Address" automatically To restrict another LA ress of the other LAN command prompt wind	f 16 entries can be configured to a special LAN device connected to the router. The y displays the MAC address of the LAN device where t AN device, click the "Other MAC Address" button and device. To find out the MAC address of a Windows-
LOCK MAC AD ime of Day Restric his page adds a tii Current PC's MAC . rowser is running, nter the MAC add ased PC, open a c	ADVANCED DRESS tions A maximum of me of day restriction t Address" automatically To restrict another LA ress of the other LAN command prompt wind	f 16 entries can be configured to a special LAN device connected to the router. The y displays the MAC address of the LAN device where t AN device, click the "Other MAC Address" button and device. To find out the MAC address of a Windows-
LOCK MAC AD ime of Day Restric his page adds a tir Current PC's MAC rowser is running, nter the MAC add ased PC, open a c	ADVANCED DRESS tions A maximum of me of day restriction t Address" automatically To restrict another LA ress of the other LAN command prompt wind DRESS	f 16 entries can be configured to a special LAN device connected to the router. The y displays the MAC address of the LAN device where t AN device, click the "Other MAC Address" button and device. To find out the MAC address of a Windows- dow and type "ipconfig /all".

4.4.6 Filtering Options

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

FILTERING OPTIONS INBOUND IP FILTERING	
Manage incoming traffic.	
Inbound IP	Filtering
FILTERING OPTIONS OUTBOUND IP FILTERING	
Manage outgoing traffic.	
Outbound I	P Filtering
FILTERING OPTIONS BRIDGE FILTERING	
Uses MAC address to implement filtering. Usefull only in bridg	e mode.
Bridge Fi	tering

4.4.6.1 Inbound IP Filtering

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

INCOMING IP FILTERING

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

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

ACTIVE	INBOUND) FILTER						
								1
Name	Interface	Protocol	Source Address	Source Port	Dest. Address	Dest. Port	Schedule Rule	
			ſ					
				Add				

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 INBOUND FILTER** shows detailed information about each created inbound IP filter.

Note:

The settings only apply when the firewall is enabled.

INCOMING IP FILTERING

Filter Name :		
Protocol :	Any 💙	
Source IP Type :	Any 🖌	
Source IP Address :		
Source Subnet Mask :		
Source Port Type :	Any 💙	
Source Port :		(port or port:port)
Destination IP Type :	Any 😽	
Destination IP Address :		
Destination Subnet Mask :		
Destination Port Type :	Any 💙	
Destination Port :		(port or port:port)
Schedule :	Always 👻 View Available	Schedules
WAN Interfaces (Configured i Select at least one or multiple W		
Select All		
mer_0_0_35/atm0		
br0/br0		
	Apply Cancel]

4.4.6.2 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.

OUTGOING 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 OUTGOIN	IG IP FILTER				
Name Protocol	Source Address	Source Port	Dest. Address	Dest. Port	Schedule Rule
<u></u>		Add)		

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

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 OUTGOING IP FILTER** shows detailed information about each created outbound IP filter.

OUTGOING 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	e Schedules
	Apply Cancel	

4.4.6.3 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 FILTERING

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:

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

Apply	Cancel
-------	--------

BR	IDGE FILT	ER SETUP				
	Service	Destant	Destination	Source	Frame	Schedule
	Name	Protocol	MAC	MAC	Direction	Rule
			_			
			A	dd		

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

ADD BRIDGE FILTER	
Protocol Type :	(Click to Select) 🗸
Destination MAC Address :	
Source MAC Address :	
Frame Direction : Schedule :	LAN<=>WAN Always View Available Schedules
WAN Interfaces (Configured in E	tridge mode only)
Select All br_0_0_32/atm1	
	Apply Cancel

4.4.7 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 followin g figure appears. **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 Info from a WAN interface**.

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.

DNS

Click "Apply" button to save the new configuration. You must reboot the router to make the new configuration effective.

DNS SERVER CONFIGURATION

- Obtain DNS info from a WAN interface:
 WAN Interface selected: pppoe 0 0 35/ppp0 v
- O Use the following DNS server addresses

Preferred	DNS	server	1	0.0.0.0
Altornato	DNS	convor		0.0.0.0



4.4.8 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 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.whateveryournameis.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

llcornamo	Service	Interface	
Username	Service	incentace	
Add]		
	Username		

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

• **DDNS provider**: Select one of the DDNS registration organizations from the down-list drop.



- **Host Name**: Enter the host name that you registered with your DDNS service provider.
- Interface: Select the interface you want to use.
- **Username**: Enter the user name for your DDNS account.
- **Password**: Enter the password for your DDNS account.

Click **Apply** to save the settings.

ADD DYNAMIC DNS	
DDNS provider :	dlinkddns.com(Free)
Hostname :	
Interface :	pppoe_0_0_35/ppp0 🔽
Username :	
Password :	
	Apply Cancel

4.4.9 Storage Service

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

	STORAGE SERVICE STORAGE DEVICE INFO
	Show Storage Device Info.
	Storage Device Info
	NETWORK TOOLS STORAGE USER ACCOUNT CONFIGURATION
ſ	Config storage user account.
	Storage User Account

4.4.9.1 Storage Device Info

n the **Storage Service** page, click **Storage Device Info**. The page shown in the following figure appears.

When you insert USB storage, this page will show the information of USB storage, such as file system, total space and used space.

STORAGE DEVICE INF	ORMATION		
The Storage service allows	you to use Storage d	levices with modem to b	e more easily accessed.
STORAGE DEVICE INF	ORMATION		
Volumename	FileSystem	Total Space	Used Space
usb1_1	fat	122	0

4.4.9.2 User Accounts

In the Storage Service page, click Storage User Account. The page shown in the following figure appears.

STORAGE USERACCOUNT COM	IFIGURATION	
Choose Add, or Remove to configur	e User Accounts.	
STORAGE USERACCOUNT		
UserName	HomeDir	Remove
	Add Remove	

Click Add to add a user. The page shown in the following figure appears. • Username:set valid user that access CPE's samba server

- Password:user's password •
- Confirm Password:user's password •
- **volumeName**:the directory you want to share

Username:]
Password:]
Confirm Password:]
volumeName:]

4.4.10 Multicast

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

- Default Version: IGMP version
- Query Interval(s): The query interval is the amount of time in seconds between IGMP General Query messages sent by the router (if the router is the querier on this subnet)
- Query Response Interval (1/10s): The query response interval is the maximum amount of time in seconds that the IGMP router waits to receive a response to a General Query message. The query response interval is the Maximum Response Time field in the IGMP v2 Host Membership Query message header. The default query response interval is 10 seconds and must be less than the query interval
- Last Member Query Interval (1/10s): The last member query interval is the amount of time in seconds that the IGMP router waits to receive a response to a Group-Specific Query message. The last member query interval is also the amount of time in seconds between successive Group-Specific Query messages.
- **Robustness Value**: The robustness variable is a way of indicating how susceptible the subnet is to lost packets. IGMP can recover from robustness variable minus 1 lost IGMP packets.
- Maximum Multicast Groups: max multicast groups
- Maximum Multicast Data Sources (for IGMPv3): max group data sources that want to receive.
- Maximum Multicast Group Members:Max member in one group
- Fast Leave Enable: Enable or disable fast leave feature.
- LAN to LAN (Intra LAN) Multicast Enable: Enable or disable Lan to Lan msulticast.

MULTICAST CONFIGURATION

Enter IGMP protocol configuration fields if you want modify default values shown below.

MULTICAST CONFIGURATION

Apply/Save

4.4.11 Network Tools

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

NETWORK TOOLS PORT MAPPING
Port Mapping supports multiple port to PVC and bridging groups. Each group will perform as an independent network.
Port Mapping
NETWORK TOOLS IGMP
Transmission of identical content, such as multimedia, from a source to a number of recipients.
IGMP
NETWORK TOOLS QUALITY OF SERVICE
Allows you to enable or disable QoS function.
Quality of Service
NETWORK TOOLS QUEUE CONFIG
Allows you to add Classification Queue precedence for QoS.
Queue Config
NETWORK TOOLS QOS CLASSIFICATION
Allows you to edit configure different priority to different interfaces.
QoS Classification
NETWORK TOOLS UPNP
Allows you to enable or disable UPnP.
UPnP

In the **NETWORK TOOLS** page, you can configure port mapping, IGMP, quality of service, queue, QoS classification, UPnP, ADSL settings, SNMP, TR-069, and certificates through clicking the navigation.

NETWORK TOOLS ADSL
Allows you to configure advanced settings for ADSL.
ADSL Settings
NETWORK TOOLS SNMP
Allows you to configure SNMP (Simple Network Management Protocol).
SNMP
NETWORK TOOLS TR-069
Allows you to configure TR-069 protocol.
TR-069
NETWORK TOOLS CERTIFICATES
Allows you to manage certificates used with TR-069.
Certificates

4.4.11.1 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.

PORT MAPPING

Port Mapping -- A maximum 16 entries can be configured

Interface Grouping supports multiple ports 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 Remove button will remove the grouping and add the ungrouped interfaces to the Default group. Only the default group has IP interface.

PORT MAPPING SETUP

Group Name	Remove	WAN Interface	LAN Interfaces	DHCP Vendor IDs
		ppp0	eth0	
		ppp3g0	eth1	
			eth2	
Default			eth3	
Deraule			wlan0	
			wl0_Guest1	
			wl0_Guest2	
			wl0_Guest3	

Click **Add** to add port mapping. The page shown in the following figure appears. The procedure for creating a mapping group is as follows:

- Step 1 Enter the group name.
- Step 2 Select the WAN interface for your new group.
- Step 3 Select LAN 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 4 Enter the option information of DHCP vendor IDs.
- Step 5 Click Apply to save the settings.

ADD PORT MAPPING

To create a new interface group:

 Enter the Group name and the group name must be unique and select either 2. (dynamic) or 3. (static) below:

2. If you like to automatically add LAN clients to a WAN Interface in the new group add the DHCP vendor ID string. By configuring a DHCP vendor ID string any DHCP client request with the specified vendor ID (DHCP option 60) will be denied an IP address from the local DHCP server.

3. 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. Note that these clients may obtain public IP addresses

4. Click Save/Apply button to make the changes effective immediately

IMPORTANT If a vendor ID is configured for a specific client device, please REBOOT the client device attached to the modem to allow it to obtain an appropriate IP address.

WAN Interface used in the grouping pppoe_0_8_35/ppp0 💟

Grouped LAN Interfaces

Available LAN Interfaces

Cancel

->



omatically Add nts With the owing DHCP Vendor	
	_

4.4.11.2 IGMP

Choose **ADVANCED** > **Network Tools** and click **IGMP**. The page shown in the following figure appears. When enable IGMP Snooping, the multicast data transmits through the specific LAN port which has received the request report.

IGMP

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

IGMP SETUP	
Enable IGMP Snooping	
	Apply Cancel

4.4.11.3 Quality of Service

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

In this page, you can enable/disable the QoS. Click **Save/Apply** to take the setting effect.

QOS -- QUEUE MANAGEMENT CONFIGURATION If Enable QoS checkbox is selected, choose a default DSCP mark to automatically mark incoming traffic without reference to a particular classifier. Click 'Save/Apply' button to save it. Note: If Enable Qos checkbox is not selected, all QoS will be disabled for all interfaces. Note: The default DSCP mark is used to mark all egress packets that do not match any classification rules. QOS SETUP Enable QoS

Save/Apply Cancel

4.4.11.4 Queue Config

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

QUEUE CONFIG

QoS Queue Setup -- A maximum 16 entries can be configured.

If you disable WMM function in Wireless Page, queues related to wireless will not take effects. SP and WFQ can not be enabled at the same time.

ne	QoS	function	nas been	disabled.	Queues would	not take effects.	

IEUE CONFIG I	IST						
Name	Key	Interface	Precedence	Algorithm	QueueWeight	Enable	Remove
				-	Queueweight	Enable	Remove
Default Queue	33	atm0	8	SP			

Click **Add**. The page shown in the following figure appears. Click **Save/Apply** to save the settings.

QOS QUEUE CONFIGURATION

This screen allows you to configure a QoS queue and assign it to a specific layer2 interface. The scheduler algorithm is defined by the layer2 interface. Click 'Save/Apply' to save and activate the queue.

Note: For SP scheduling, queues assigned to the same layer2 interface shall have unique precedence. Lower precedence value implies higher priority for this queue relative to others.

Queue Name:			
Enable:	Disable	*	
Interface		~	
Precedence	1	~	
ueue Weight: [1-63]			

4.4.11.5 QoS Classification

Choose **ADVANCED** > **Network Tools,** and click **QoS Classification**, the page shown in the following figure appears. This page allows you to config various classification.

QOS CLASSIFICATION

QoS Classification Setup -- A maximum 32 entries can be configured.

Choose Add or Remove to configure network traffic classes. If you disable WMM function in Wireless Page, classification related to wireless will not take effects.

The QoS function has been disabled. Classification rules would not take effects.

		C	LASSIF	ΙCΑΤΙΟ	N CRITI	ERIA		CLASS	IFICATIO	N RESUL	TS		
Class Name	Order	Class Intf	Ether Type	Proto	DSCP Check	802.1P Check	Queue Key	DSCP Mark	802.1P Mark	VlanID Tag	Rate Control (kbps)	Enable	Remov

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

QUALITY OF SERVICE

Add Network Traffic Class Rule

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

TWORK TRAFF	IC CLASS RULE		
	Traffic Class Name:		
	Rule Order:	Last	¥
	Rule Status:	Disable	¥
ECIFY CLASSI	FICATION CRITERIA		
ank criterion ind	icates it is not used for classificat	ion.	
	Class Interface:	LAN	¥
	Ether Type:		۷
	Fixed Ether Type:	IP (0x800)	Y
	Source MAC Address:		
	Source MAC Mask:		
	Destination MAC Address:		
	Destination MAC Mask:		
	Source IP Address[/Mask]: 🛛 🗸		
	Destination IP Address[/Mask]:		
Differentiated S	ervice Code Point (DSCP) Check:		V
	Protocol:		v
	IpV6 Protocol:		V
UDP/TCP	Source Port (port or port:port):		
UDP/TCP Dest	ination Port (port or port:port):		
	802.1p Priority Check:		V
	FICATION RESULTS		
	ication queue. A blank mark or tag	g value means no chang	e.
	Assign Classification Queue:		¥
Mark Differenti	ated Service Code Point (DSCP):		Y
	Mark 802.1p priority:		Y
	Tag VLAN ID [0-4094]:		
	Set Rate Control(kbps):		

4.4.11.6 UPnP

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

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.

UPNP

Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices.

UPNP SETUP

🔽 Ena

Click **Apply** to save the settings.

able UPnP		
	Apply Cancel	

4.4.11.7 ADSL

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

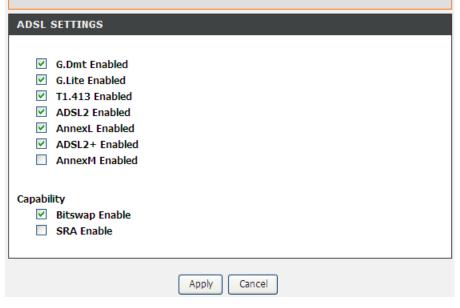
In this page, you can select the DSL modulation. Normally, you can keep the factory default setting. The device negotiates the modulation mode with DSLAM.

Click **Apply** to save the settings.

ADSL

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

Select the modulation below.



4.4.11.8 SNMP

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

- **Read Community**: The network administrator must use this password to read the information of this device.
- **Set Community**: The network administrator must use this password to configure the information of this device.
- **Trap Manager IP**: The trap information is sent to this host.

Click **Apply** to save the settings.

SNMP

Simple Network Management Protocol (SNMP) allows a management application to retrieve statistics and status from the SNMP agent in this device.

Select the desired values and click "Apply" to configure the SNMP options.

SNMP -- CONFIGURATION

Read Community :	public
Set Community :	private
System Name :	Broadcom
System Location :	unknown
System Contact :	unknown
Trap Manager IP :	0.0.0.0

4.4.11.9 TR-069

Choose **ADVANCED** > **Network Tools** and click **TR-069**. The page shown in the following figure appears. In this page, you can configure the TR-069 CPE. WAN Management Protocol (TR-069) allows a Auto-Configuration Server (ACS) to perform auto-configuration, provision, collection, and diagnostics to this device.

In this page, you may configure the parameters such as the ACS URL, ACS password, and connection request user name.

After finishing setting, click **Apply** to save and apply the settings.

TR-069

WAN Management Protocol (TR-069) allows a Auto-Configuration Server (ACS) to perform autoconfiguration, 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			
Inform 💿 Disable 🔘 Enab	le		
Inform Interval:	300		
ACS URL:			
ACS User Name:	admin		
ACS Password:	•••••		
Connection Request Authentication			
Connection Request User Name:	admin		
Connection Request Password:	••••		
GetRPC	CMethods Apply Cancel		

4.4.11.10 Certificates

Choose **ADVANCED** > **Network Tools** and click **Certificates**. The **Certificates** page shown in the following figure appears. In this page, you can configure local certificate and trusted certificate.

CERTIFICATES LOCAL		
Local certificates are used by peers to verify your identity.		
Local Cert		
CERTIFICATES TRUSTED CA		
Trusted CA certificates are used by you to verify peers' certificates.		
Trusted CA		

4.4.12 Routing

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

ROUTING STATIC ROUTE
Allows you to manually configure special routes that your network might need.
Static Route
ROUTING DEFAULT GATEWAY
Allows you to configure Default Gateway used by WAN Interface.
Default Gateway
ROUTING POLICY ROUTING
Allows you to configure Policy Routing.
Policy Routing
ROUTING RIP
Allows you to configure RIP (Routing Information Protocol).
RIP

4.4.12.1 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.

STATIC ROUTE

Enter the destination network address, subnet mask, gateway AND/OR available WAN interface then click "Apply" to add the entry to the routing table.

A maximum 32 entries can be configured.

ROUTING STATIC RO	UTE		
Destination	Subnet Mask	Gateway	Interface
	Add		

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

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

You can click Use Gateway IP Address or Use Interface.

Click **Apply** to save the settings.

STATIC	ROUTE ADD
	Destination Network Address : Subnet Mask :
0	Use Gateway IP Address : Use Interface : LAN/br0 v
	Apply Cancel

4.4.12.2 Default Gateway

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

Select the WAN interface as your default gateway. Click **Apply** to save the settings.

DEFAULT GATEWAY

This router will accept the first received default gateway assignment from one of the PPPoA, PPPoE or MER/DHCP enabled PVC(s). Click "Apply" button to save it.

DEFAULT GATEWAY	
IPv4 Gateway Settin Select a preferred wan interfa Selected WAN Interface :	I g ace as the system default IPv4 gateway.
	Apply Cancel

4.4.12.3 Policy Routing

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

The policy route binds one WAN connection and one LAN interface.

POLICY ROUTING						
Policy Routing Setting	A maximum 8 entries	can be configured				
ROUTING POLICY	ROUTING					
Policy Name	Source IP	LAN Port	WAN	Default GW	Remove	
		Add				

Click Add, the page shown in the following figure appears.

POLICY ROUTING SETTUP					
Enter the policy name, policies, and WAN interface then click "Save/Apply" to add the entry to the policy routing table.					
Note: If selected "MER" as WA	AN interface, default gateway must be configured.				
Policy Name:					
Physical LAN Port:	×				
Source IP:					
Use Interface	v				
Default Gateway:					
	Apply Cancel				

4.4.13 RIP

Choose **ADVANCED** > **Routing** and click **RIP**. 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.

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.

RIP CONFIGURATION

To activate RIP for the WAN Interface, select the desired RIP version and operation and place a check in the 'Enabled' checkbox. To stop RIP on the WAN Interface, uncheck the 'Enabled' checkbox. Click the 'Apply' button to star/stop RIP and save the configuration.

NOTE: RIP CANNOT BE CONFIGURED on the WAN interface which has NAT enabled(such as IPOA,MER), and it only support IPOA,MER.

Varsian	Operation	Enabled
version	Operation	Ellabled
2 🗸	Passive 🔽	
Ap	ply	
		· · · · · · · · · · · · · · · · · · ·

4.4.14 MultiNat

Network address translation (NAT) is the process of modifying network address information in IP packet headers while in transit across a traffic routing device for the purpose of remapping a given address space into another. The packets which source IP address match between "internalStart" and "internalEnd" in the NAT table come to the router, the router changes source IP of this packet by the IP address that set between "externalStart" and "externalEnd", then transmit the packet into Internet.

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

MULTI NAT

Multi Nat allows customer define NAT rules, contain One2One, One2Many, Many2One, Many2Many mode.

MULTI NAT	RULES			
mode	internalStart	internalEnd	externalStart	externalEnd
		Add		

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

In this page, please select the proper type; select the proper **Use interface**, and configure the other parameters in this page.

After finishing setting, click **Apply** to save the settings.

ADD MULTI N	AT R	ULE		
Rule Type: Use interface:		e Select V e_0_8_35/ppp0 V		
internalAddrS	tart	internalAddrEnd	externalAddrStart	externalAddrEnd
		Apply	Cancel	

4.4.15 Schedules

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

SCHEDULES									
Schedule allows you to create scheduling rules to be applied for your firewall.									
Maximum numb	er of so	hedule	e rules	: 20					
SCHEDULE RUI	.ES								
Rule Name	Cup	Man	Tue	Wed	ты	E-ii	Cat	Start Time	Stan Time
Kule Name	Sun	MON	Tue	wea	mu	FII	Sat	Start fille	Stop Time
Add									

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

ADD SCHEDULE RULE	
Name : 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)
	Apply Cancel

4.4.16 Logout

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

LOGOUT
Logging out will close the browser.
Logout

4.5 Maintenance

4.5.1 System

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

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.

DSL-2750U	SETUP	ADVANCED	MAINTENANCE	STATUS
System	SYSTEM REBOO	тт		
Firmware Update	Click the button below	v to reboot the router.		
Access Controls				
Diagnostics		Reb	oot	
System Log				
Logout	SYSTEM BACKU	P SETTINGS		
		onfigurations. You may sav ave configuration file first b		ns to a file on your PC.
		Backup	Settings	
	SYSTEM UPDAT	E SETTINGS		
	Update DSL Router se	ettings. You may update ye	our router settings using y	our saved files.
	Settings File	e Name :		Browse
		Update	Settings	
	SYSTEM RESTO	RE DEFAULT SETTING	S	
	Restore DSL Router se	ettings to the factory defa	ults.	
		Restore Defa	ault Settings	

4.5.2 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.

The procedure for updating the firmware is as follows:

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

Step 2 Click Update Firmware to update the configuration 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.

FIRMWARE UPDATE

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

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

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

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

FIRMWARE UPDATE	
Current Firmware Version : Current Firmware Date :	-
Firmware File Name :	Browse
	Update Firmware

4.5.3 Access Controls

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

ACCESS CONTROLS ACCOUNT PASSWORD
Manage DSL Router user accounts.
Account Password
ACCESS CONTROLS SERVICES
A Service Control List ("SCL") enables or disables services from being used.
Services

4.5.3.1 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.

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.

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.

ADMINISTRATOR SETTING	3S
Username : Current Password : New Password : Confirm Password :	(Click to Select)
	Apply Cancel
WEB IDLE TIME OUT SETT	INGS
Web Idle Time Out :	5 (5 ~ 30 minutes)
	Apply Cancel

4.5.3.2 Services

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

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.

SERVICES

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

LOCAL ACCESS CONTROL -- SERVICES

Service	Enal	ble	Source Ne	twork	Sourc	e Mask	Protocol	Port
нттр	🗹 Ena	abled	0.0.0.0		0.0.0.0		тср	80
TELNET	🗹 Ena	abled	0.0.0.0		0.0.0.0		ТСР	23
SSH	En:	abled	0.0.0.0		0.0.0.0		ТСР	22
FTP	En:	abled	0.0.0.0		0.0.0.0		ТСР	21
TFTP	En:	abled	0.0.0.0		0.0.0.0		UDP	69
ICMP	🗹 Ena	abled	0.0.0.0		0.0.0.0		ICMP	0
SNMP	En:	abled	0.0.0.0		0.0.0.0		UDP	161

REMOTE ACCESS CONTROL -- SERVICES

Service	E	inable	Source Network	Source Mask	Protocol	Port
нттр		Enabled	0.0.0.0	0.0.0.0	ТСР	80
TELNET		Enabled	0.0.0.0	0.0.0.0	ТСР	23
SSH		Enabled	0.0.0.0	0.0.0.0	ТСР	22
FTP		Enabled	0.0.0.0	0.0.0.0	ТСР	21
TFTP		Enabled	0.0.0.0	0.0.0.0	UDP	69
ICMP		Enabled	0.0.0.0	0.0.0.0	ICMP	0
SNMP		Enabled	0.0.0.0	0.0.0.0	UDP	161

4.5.4 Diagnostics

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

This page is used to test the connection to your local network, and the connection to your DSL service provider. Click **Rerun Diagnostics Test** to run diagnostics.

DIAGNOSTICS

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

WAN Connection : Bridge/atm0 V

Rerun Diagnostic Tests

TEST THE CONNECTION TO YOUR LOCAL NETWORK

Test your eth0 Connection:	PASS
Test your eth1 Connection:	FAIL
Test your eth2 Connection:	FAIL
Test your eth3 Connection:	FAIL
Test your Wireless Connection:	PASS

TEST THE CONNECTION TO YOUR DSL SERVICE PROVIDER

Test ADSL Synchronization:	FAIL
Test ATM OAM F5 segment ping:	DISABLED
Test ATM OAM F5 end-to-end ping:	DISABLED

Test With OAM F5

Test With OAM F4

4.5.5 System Log

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

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 check box.
- 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.

SYSTEM LOG

If the log mode is enabled, the system will begin to log all the selected events. For the Log Level, all events above or equal to the selected level will be logged. For the Display Level, all logged events above or equal to the selected level will be displayed. If the selected mode is "Remote" or "Both", events will be sent to the specified IP address and UDP port of the remote syslog server. If the selected mode is "Local" or "Both", events will be recorded in the local memory.

Select the desired values and click "Apply" to configure the system log options.

Note: This will not work correctly if modem time is not properly set! Please set it in "Setup/Time and Date" $% \mathcal{A} = \mathcal{A} = \mathcal{A}$

SYSTEM LOG CONFIGURATION	
	Enable Log
Log Level :	Debugging 🗸
Display Level :	Error
Mode :	Local 🗸
Server IP Address :	
Server UDP Port :	
Apply Cancel	View System Log

4.5.6 Logout

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

LOGOUT	
Logging out will close the browser.	
	Logout

4.6 Status

You can view the system information and monitor performance.

4.6.1 Device Info

Choose $\ensuremath{\text{STATUS}}$ > $\ensuremath{\text{Device Info}}$. The page shown in the following figure appears.

The page displays the summary of the device status, including the system information, Internet information, wireless information and local network information.

	SETUP	ADVA	NCED	MAINTE	NANCE	STATUS
	DEVICE INF	0				
ents	This informatio	on reflects the curren	t status of vo	ur DSL conne	rtion	
ts	THIS INFORMACIO	in reneets the curren	e searcas on ye	ar boe count		
	SYSTEM IN	0				
	Model Name	:		DSL-2750U		
	Time and Da	te:		Thu Jan 1 01	:08:38 1970	
	Firmware Ve	rsion:		GE_1.00		
	Hardware Ve	ersion:		T1		
	INTERNET I	NFO				
	Internet Cor	nection: br_0_8_35	· ·			
	Internet Co	nnection Status:		Unconfigured	I	
	Connection	Up Time:		0 day,0 hour	,0 min,0 sec	
	Downstream	n Line Rate (Kbps):		0		
	Upstream Li	ne Rate (Kbps):		0		
	Enabled WA	N Connections:				
	VPI/VCI	Service Name	Protocol	IGMP	QoS	IPv4 Address
	8/35	br_0_8_35	Bridge	Disabled	Enable	0.0.0.0
	0/35	PPPoE_0_0_35	PPPoE	Disabled	Disabled	0.0.0
	WIRELESS	INFO				
	Select SSID :	dlink				
	MAC Addres	s:		02:10:18:01	00:02	
	Status:			Enabled		
	Network Na	me (SSID):		dlink		
	Visibility:			Visible		
	Security Mo	de:		WPA2 Only		

4.6.2 Wireless Clients

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

WIRELESS CLIENTS

This page shows authenticated wireless stations and their status.

MAC	Associated	Authorized	SSID	Interface
:26:5A:08:65:0C	0	0	BrcmAP0	wl0

4.6.3 DHCP Clients

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

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).

DHCP CLIENTS					
This information reflects	the current DHCP client of	your modem.			
DHCP LEASES					
Hostname	MAC Address	IP Address	Expires In		
Refresh					

4.6.4 Logs

Choose **STATUS** > **Logs**. The page shown in the following figure appears. This page lists the system log. Click **Refresh** to refresh the system log shown in the table.

LOGS				
This page allows yo	u to view s	ystem logs.		
SYSTEM LOG				
Data (Tima	Facility .	Countibu	M	
Date/Time	Facility	Severity	Message	
Jan 1 01:11:39	user	crit	kernel: eth0 Link UP 100 mbps full duplex	
		_		
			Refresh	

4.6.5 Statistics

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

STATISTICS

This information reflects the current status of your DSL connection.

LOCAL NETWORK & WIRELESS

Interface	e Received				Transmitted			
	Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops
eth0	0	0	0	0	0	0	0	0
eth1	887053	9524	0	0	11762848	12261	0	0
eth2	0	0	0	0	0	0	0	0
eth3	0	0	0	0	0	0	0	0
wl0	0	0	0	0	0	0	1	0

Service VPI/VCI Protocol Received Transmitted Bytes Pkts Errs Drops Bytes Pkts Errs Drops PPPoE_0_032 0/32 0 0 0 0 0 0 0 0 0 0

Mode:		
Туре:		
Status:		Down
	Downstream	Upstream
Line Coding(Trellis):		
SNR Margin (dB):		
Attenuation (dB):		
Output Power (dBm):		
Attainable Rate (Kbps):		
Rate (Kbps):		
D (interleaver depth):		
Delay (msec):		
HEC Errors:		
OCD Errors:		
LCD Errors:		
Total ES:		

4.6.6 Route info

Choose **STATUS** > **Route Info**. The page shown in the following figure appears. The table shows a list of destination routes commonly accessed by the network.

ROUTE INFO

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

Destination	Gateway	Subnet Mask	Flags	Metric	Service	Interface
92.168.1.0	0.0.0.0	255.255.255.0	U	0		br0

4.6.7 Logout

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

LOGOUT	
Logging	out will close the browser.
	Logout
	Logout

5 FAQs

Question	Answer		
Why are all the indicators off?	 Check the connection between the power adapter and the power socket. 		
Why are all the indicators off?	 Check whether the power switch is turned on. 		
	Check the following:		
	 The connection between the device and the PC, the hub, or the switch. 		
Why is the LAN indicator not on?	 The running status of the computer, hub, or switch. 		
	 The cables that connects the device and other devices: 		
	 If the device connects to a computer, use the cross over cable. 		
	 If the device connects to a hub or a switch, use the straight-through cable. 		
Why is the DSL indicator not on?	Check the connection between the DSL interface of the device and the socket.		
Why does the Internet access fail when the	Ensure that the following information is entered correctly:		
DSL indicator is on? • User name and password			
Why does the web configuration page of	Choose start > Run from the desktop. Enter Ping 192.168.1.1 (the default IP address of the device) in the DOS window. If the web configuration page still cannot be accessed, check the following configuration:		
the device fail to be accessed?	The type of the network cable		
	The connection between the device and the computer		
	 The TCP/IP properties of the network card of the computer 		
	Keep the device powered on and press the RESET button for 1 second. Then, the device automatically reboots and is restored to the factory default configuration. The default configuration of the device is as follows:		
How to restore the default configuration	• IP address: 192.168.1.1		
after incorrect configuration?	 Subnet mask: 255.255.255.0. 		
	 User name and password of super account: admin/admin 		
	 User name and password of common account: admin/admin 		