GWAR3550 User Manual

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1 Introduction

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

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

1.1 Package List

- 1 x ADSL Router
- 1 x external splitter
- 1 x power adapter
- 2 x telephone cables (RJ11)
- 1 x Ethernet cable (RJ45)
- 1 x CD
- 1 x Quick Installation Guide

1.2 Safety Cautions

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

- Use volume labels to mark the type of power.
- Use the power adapter packed within the device package.
- Pay attention to the power load of the outlet or prolonged lines. An overburden power outlet or damaged lines and plugs may cause electric shock or fire accident. Check the power cords regularly. If you find any damage, replace it at once.
- Proper space left for heat dissipation is necessary to avoid damage caused by overheating to the device. The long and thin holes on the device are

designed for heat dissipation to ensure that the device works normally. Do not cover these heat dissipation holes.

- Do not put this device close to a place where a heat source exits or high temperature occurs. Avoid the device from direct sunshine.
- Do not put this device close to a place where it is over damp or watery. Do not spill any fluid on this device.
- Do not connect this device to any PCs or electronic products, unless our customer engineer or your broadband provider instructs you to do this, because any wrong connection may cause power or fire risk.
- Do not place this device on an unstable surface or support.

1.3 LEDs and Interfaces

Front Panel



The following table describes the LEDs of the device:

LEDs	Color	Status	Description
	Green	On	The device is powered on.
Power	Green	Off	The device is powered off.
FOwer	Red	On	The device is self-testing or self-testing
	Reu		is failed, or the software is upgrading.
		On	The device has established connection
	Green	OII	with the office physical layer.
ADSI		Blinks	The device is handshaking with the
ADSL		(fast)	office physical layer.
		Blinks	The device does not detect the signals.
		(slow)	
			The device has a successful Internet
Internet	Green	On	connection in the routing mode, and no
			data is being transmitted.

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LEDs	Color	Status	Description				
		Blinks	Data is being transmitted on the Internet in the routing mode.				
		Off	The device is in bridge mode.				
	Red	On	After the successful synchronous in the routing mode, the Internet connection is failed.				
		On	The device has successful LAN connection.				
LAN1/LAN2/ LAN3/LAN4	Green	Blinks Data is being transmitted on LAN data is being transmitted on Internet in the bridge mode.					
		Off	The LAN connection is failed.				
WLAN	Croon	On	The device has successful WLAN connection.				
VVLAN	Green	Blinks	Data is being transmitted on WLAN.				
		Off	The WLAN connection is failed.				
		Off	WPS is disabled.				
WPS	Green	Blinks	WPS is enabled, and is waiting for client to negotiate.				

Rear Panel



The following table describes the interfaces of the device:

Interface	Description
\bigcirc	Wireless antenna.
Line	RJ-11 interface, for connecting to the ADSL interface or a
Line	splitter through the telephone cable.

Interface	Description
LAN1/LAN2/	RJ-45 interface, for connecting to the Ethernet interface of
LAN3/LAN4	the PC or the Ethenet devices with the cable.
Power	Power interface, for connecting to the power adapter of 12 V $$
Fower	DC, 800 mA.
	Reset to the factory defaults. To restore factory defaults, keep
Reset	the device powered on and push a paper clip into the hole.
	Press down the button over 3 seconds and then release.
WPS	Press the button and hold for more than 3 seconds, to
WF3	initialize WPS negotiation.
On/Off	Power switch, power on or power off the router.

1.4 System Requirements

Recommended system requirements are as follows:

- A 10/100 base-T 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 or Windows Vista
- Internet Explorer V5.0 or higher, Netscape V4.0 or higher, or firefox 1.5 or higher

1.5 Features

The device supports the following features:

- Various line modes (line auto-negotiation)
- External PPPoE dial-up access
- Internal PPPoE/PPPoA dial-up access
- Zero installation PPP bridge mode (ZIPB)
- 1483B/1483R/MER access
- Multiple PVCs (eight at most)
- A single PVC with multiple sessions
- Multiple PVCs with multiple sessions
- DHCP server

- NAT/NAPT
- Static route
- Firmware upgrading through Web, TFTP, or FTP
- Rsetting to the factory defaults through Reset button or Web
- DNS relay
- Virtual server
- Web interface
- Telnet CLI
- System status display
- PPP session PAP/CHAP
- IP/Port, MAC, URL filter
- Remote access control
- Line connection status test
- Remote access control
- Backup and restoration of configuration file
- IP quality of service (QoS)
- Universal plug and play (UPnP)
- WLAN with high-speed data transmission rate, up to 54 Mbps, compatible with IEEE 802.11b/g, 2.4 GHz compliant equipment

1.6 Supported Protocols

The device supports the following protocols:

- ITU G.992.1 (G.DMT) Annex A
- ITU G.992.2 (G.LITE)
- ANSI T1.413 Issue 2
- ITU G.992.3 (ADSL2)
- ITU G.992.5 (ADSL2+)
- Annex L
- Annex M

2 Hardware Installation

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

The splitter has three interfaces:

- Line: Connect to a wall phone jack (RJ-11 jack)
- Modem: Connect to the ADSL jack of the device
- **Phone**: Connect to a telephone set.
- Step 2 Connect the LAN interface of the device to the network card of the PC through an Ethernet cable (MDI/MDIX).

Note:

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

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

Connection 1

The following figure displays the application diagram for the connection of the router, PC, splitter and the telephone sets, when no telephone set is placed before the splitter.



Figure 1 Connection diagram (Without connecting telephone sets before the splitter)

Connection 2

Figure 2 shows the connection when the splitter is installed close to the router.



Figure 2 Connection diagram (Connecting a telephone set before the splitter)

Note:

When connection 2 is used, the filter must be installed close to the telephone cable. See Figure2. Do not use the splitter to replace the filter.

Installing a telephone directly before the splitter may lead to failure of connection between the device and the central office, or failure of Internet access, or slow connection speed. If you really need to add a telephone set before the splitter,

m

you must add a microfilter before a telephone set. Do not connect several telephones before the splitter or connect several telephones with the microfilter.

3 About the Web Configuration

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

3.1 How to Access the Router

The following is the detailed description of accesing the router for the first time.

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

Step 2 In the LOGIN page that is displayed, enter the username and password.

- The username and password of the super user are admin and admin respectively.
- The user name and password of the common user are user and user respectively.

Connect to 192.	168.1.1 ? 🔀
	GR.
DSL Router	
<u>U</u> ser name:	🖸 admin 🛛 💌
Password:	••••
	Remember my password
	OK Cancel

If you log in as the super user, the page shown in the following figure appears. You can check, configure and modify all the settings.

ADDC nding flexibilities for Status	Status	Wizard	Network	Service	Advance	Admin	Diagnost
Status							
	System	LAN	WLAN	WAN	Port Mapping	Statistics	ARP Tabl
	This page	e shows the current	status and some b				
	System			usie settings of		-	
	System Alias Na		ADSL R			_	
	Alias Na					_	
	Alias Na Uptime (ame	ADSL R			_	
	Alias Na Uptime (ame (hh:mm:ss) re Version	ADSL R			_	
	Alias Na Uptime(Softwar	ame (hh:mm:ss) re Version	ADSL R 00:21:13 V2.1				
	Alias Na Uptime(Softwar DSP Ve DSL	ame (hh:mm:ss) re Version	ADSL R 00:21:13 V2.1	uter			
	Alias Na Uptime Softwar DSP Ve DSL Operation	ame (hh:mm:ss) re Version rsion	ADSL R/ 00:21:13 V2.1 2.9.0.5a	uter			
	Alias Na Uptime(Softwar DSP Ve DSL Operati DSL Up	ame (hh:mm:ss) re Version rsion onal Status	ADSL Rd 00:21:13 V2.1 2.9.0.5a G992.5 A	uter DSL2+			

If you log in as a common user, you can check the status of the router, but can not configure the most of the settings.

3.2 Status

In the navigation bar, choose Status. In the Status page that is displayed contains: System, LAN, WLAN, WAN, Port Mapping, Statistic, and ARP Table.

3.2.1 System

Choose **Status** > **System**. The page that is displayed shows the current status and some basic settings of the router, such as software version, DSP version, uptime, upstream speed, and downstream speed.

ADDO	N [☉]						
Status	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	System	LAN	WLAN	WAN	Port Mapping	Statistics	ARP Table
System		em Status shows the current		pasic settings of	the device.	_	
	Alias Na	me	ADSL R	outer			
	Uptime(I	hh:mm:ss)	00:21:13	3			
	Software	e Version	V2.1				
	DSP Ver	DSP Version 2.9.0.5a					
	DSL						
	Operatio	onal Status	G992.5	ADSL2+			
	DSL Up	Time (hh:mm:ss)	00:00:17				
	Upstream	n Speed	921 kbp	s			
	Downstr	eam Speed	7661 kb	ps			

3.2.2 LAN

Choose **Status** > **LAN**. The page that is displayed shows some basic LAN settings of the router. In this page, you can view the LAN IP address, DHCP server status, MAC address, and DHCP client table. If you want to configure the LAN network, refer to chapter 3.4.1.1 LAN IP.

ADDO Extending flexibilities for p	N [©]						
LAN	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	System	LAN	WLAN	WAN	Port Mapping	Statistics	ARP Table
LAN		Status shows some basic	c LAN settings.			_	
	IP Addres	is	192.168				
	Subnet M		255.255	.255.0			
	DHCP Se	rver	Enable				
	MAC Add	ress	00:11:2	2:33:44:55			
	DHCP Clie	ent Table					
	Name	IP Address		MAC Address	Expiry(s)	Туре	

3.2.3 WLAN

Choose **Status** > **WLAN**. The page that is displayed shows some basic WLAN settings of the router. In this page, you can view basic status of WAN and DNS server. If you want to configure the WAN network, refer to chapter 3.4.3 .

NLAN	Status	Wizard	Netv	vork	Service	Advance	Admin	Diagno:
	System	LAN	wL	AN	WAN	Port Mapping	Statistics	ARP Ta
WLAN	WLA This page							
	Wireless	Configuratio	n					
	Wireless			Enabled				
	Band				G)			
	Mode			AP				
	Broadca	st SSID		Enabled				
	root							
	Status			Enabled				
	SSID			ADD-GWAR	3550			
	Authenti	cation Mode		Auto				
	Encrypt	Node		None				
	Vap0							
	Status			Disabled				
	Vap1							
	Status			Disabled				
	Vap2							
	Status			Disabled				
	Vap3							
	Status			Disabled				
	Wireless	Client List						
	MAC				Tx Rate (Mbps)		Expired Time (s)	
	None							

3.2.4 WAN

Choose **Status** > **WAN**. The page that is displayed shows some basic WAN settings of the router. In this page, you can view basic status of WAN and DNS server. If you want to configure the WAN network, refer to chapter 3.4.2.1 WAN.

ADDO Extending flexibilities for p	N [®]								
WAN	Status	Wiza	rd	Networ	k	Service	Advance	Admin	Diagnostic
	System	LAI	•	WLAN		WAN	Port Mapping	Statistics	ARP Table
WAII	WAN This page			WAN sett	ings.			_	
	Interface	VPI/VCI	Encap	Droute	Protocol	IP Address	Gateway	Status	
	pppoe1	0/32	LLC	On	PPP₀E	10.126.0.57	10.126.0.1	up 00:01:18 / 00:01:18 disconnect	
	DNS Ser	vers		172.24.1	0.10				

3.2.5 Port Mapping

Choose **Status > Port Mapping**. In this page, you can view the mapping relation and the status of port mapping.

ADDO Extending flexibilities for p								
Port Mapping	Status	Wizard	Network	Service	Advance	Adm	in Diagnosti	с
	System	LAN	WLAN	WAN	Port Mapping	Statis	tics ARP Table	
Port Mapping	This page Status: [Mapping e shows the mappin Disabled	g relation and the	status of port ma	pping.			
	Select	y renation	Interfa	ces		Status		
	Default	LAN1,LAN2,LAN	8,LAN4,wlan,wlan vap3,ppj		lan-vap2,wlan-	Enabled		
	Group1							
	Group2							
	Group3							
	Group4							

3.2.6 Statistics

Choose Status > Statistics. The Statistics page that is displayed contains Traffic Statistic and DSL Statistic.

3.2.6.1 Traffic Statistic

Click **Traffic Statistic** in the left pane. The page shown in the following figure appears. In this page, you can view the statistics of each network port.

Statistics	Status	Wizard	Netv	vork	Service	Advan	ce	Admin	Diagno
	System	LAN	wL	AN	WAN	Port Map	ping	Statistics	ARP Ta
Traffic Statistic DSL Statistic	Statis	tics							
	This page s network int		ket statistic	s for transmi	ssion and rece	ption regard	ing to	_	
	Interface								
	e1	626	0	0	703	0	0		
	a0	0	0	0	0	0	0		
	a1	55	0	0	54	0	0		
	a2	0	0	0	0	0	0		
	a3	0	0	0	0	0	0		
	a4	0	0	0	0	0	0		
	a5	0	0	0	0	0	0		
	a6	0	0	0	0	0	0		
	a7	0	0	0	0	0	0		
	w1	30477	0	0	0	0	3265		
	w2	0	0	0	0	0	0		
	w3	0	0	0	0	0	0		
	w4	0	0	0	0	0	0		

3.2.6.2 DSL Statistic

Click **DSL Statistic** in the left pane. The page shown in the following figure appears. In this page, you can view the ADSL line status, upstream rate, downstream rate, and other information.

	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	System	LAN	WLAN	WAN	Port Mapping	Statistics	ARP Table
Traffic Statistic		. Configurat					
		shows the setting of th					
	Adsl Line		SHOWTIME.LC				
	Adsl Mod		G992.5 ADSL2	+			
	Up Stream Down Stream		945 kbps				
	Attenuation Down Stream(db)		17418 kbps				
		on Up Stream(db)	2				
		gin Down Stream(db)					
		gin Up Stream(db)	12.4				
	Vendor I		RETK				
	DSP Ver		2.9.0.5a				
	CRC Erro		73				
	Up Strea		158e-7				
		eam BER	13e-7				
	Up Outpu	rt Power	5				
	Down Ou	tput Power	6				
	ES		10				
	SES		2				
	UAS		0				

3.2.7 ARP Table

Choose **Status > ARP Table.** In the **ARP Table** page, you can view the table that shows a list of learned MAC addresses.

ADDON[®]

Extending flexibilities for p	eople						
	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	System	LAN	WLAN	WAN	Port Mapping	Statistics	ARP Table
ARP Table	Arp ta	ables show MAC address	tables.			_	
		IP address		Mac address	Sector Sector		
		192.168.1.25		00:1D:0F:19:91:	C1		
		192.168.1.1		00:11:22:33:44:	55		
	Refresh						

3.3 Wizard

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 either PPP, ADSL, or both. The 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, and the protocol that you use to communicate on the Internet.

In the navigation bar, choose **Wizard**. The page shown in the following figure appears. The **Wizard** page guides fast and accurate configuration of the Internet connection and other important parameters. The following sections describe these various configuration parameters. Whether you configure these parameters or use the default ones, click **NEXT** to enable your Internet connection.

Wizard	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
Wizard	Step 1: Step 2: Step 3: Step 4: Step 5:	ard will guide you t Setup Web Accoun Setup Time Zone Setup WAN Interfac Setup WLAN Interfa Save Configuration	it ce ace	. Configuration ste	p by step.		
	Please s User N New P	Setup Web Ac et a new account to ame: assword: ned Password:		server of ADSL Ro		JEXT	

Enter the correct password and then click **NEXT**. The page shown in the following figure appears. In this page, you can set the system time and Network Time Protocol (NTP) server.

Extending flexibilities for	DN [©]						
Wizard	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Wizard						
Wizard	Step 2:	Setup Time Z	one				
	Please se	tup the system ti	me and the Networ	k Time Protocol(N	TP) server.		
	NTP Configu	uration:					
	State:	(• Disable 🤆 Enab	le			
	Server IF	r: [
	Interval:	E	very hou	Jrs			
	Time Zor	ne: [(GMT) Gambia, Lib	eria, Morocco, Eng	gland		•
	GMT time	e: T	hu Jan 1 0:23:37 1	970			
					BACK	IEXT	

The following table describes the parameters of this page:

Field	Description
State	You can disable or enable NTP function. You have to enable it if you want to configure the parameters in this page.

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Field	Description
Server IP	Enter the IP address of the specified time server manually.
	Set the interval that the router obtains the time from the
Interval	time server. That is, the interval that the router verifies the
	time with the server.
Time Zone	Choose the time zone of your country.
GMT time	It displays the Greenwich mean time.

After finishing the configuration, click **NEXT**. The page shown in the following figure appears.

Extending flexibilities for p							
Wizard	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Wizard						
Wizard	Step 3:	Setup WAN Ir	nterface				
	Please se	tup the Channel N	Node of WAN Inter	face.			
	PVC Se	etting: VPI:) (0-255) V	CI: 0 (32-1	65535)		
	Encaps	sulation: 🖲 📖	C/SNAP C VC-M	ux			
	Channe	€ PF C PF	83 Bridged 83 MER P over Ethernet(P P over ATM(PPPc 83 Routed	,			
	PPP Se	ettings: User N	Name:		Password:		
	Default	Route: 🔍 En	able C Disable				
	DNS Se	C Us Prima	itain DNS Automat e the following DN ry DNS Server: idary DNS Server:				
					BACK	EXT	

The following table describes the parameters of this page:

Field	Description
PVC Settings	 The virtual path between two points in an ATM network, and its valid value is from 0 to 255. The virtual channel between two points in an ATM network, ranging from 32 to 65535 (0 to 31 is

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Field	Description				
	reserved for local management of ATM traffic).				
Enconculation	Select the method of encapsulation provided by your				
Encapsulation	ISP. You can select LLC/SNAP or VC-Mux.				
	Select the WAN connection type. You can select 1483				
Channel Mode	Bridged, 1483 MER, PPP over Ethernet (PPPoE),				
	PPP over ATM (PPPoA), or 1483 Routed.				
	The username and password apply to PPPoE and				
PPP Settings	PPPoA encapsulation only. Ensure that you enter the				
	correct username and password.				
Default Route	You can select Enable or Disable.				
	Obtain DNS Automatically: Obtain the DNS				
	server assigned by the uplink equipment, such as				
DNS Settings	BAS.				
Divo Settings	 Use the following DNS server address: If you 				
	want to enter the DNS server address by yourself,				
	select it and enter the related data.				

After finishing the configuration, click **NEXT**. The page shown in the following figure appears.

Extending flexibilities for p	DN [®]						
Wizard	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Wizard						
Wizard	Step 4:	Setup WLAN	Interface				
	Please se	tup the parameter	s for WLAN Interfa	ce.			
	WLAN	nterface: 👁 E	nable C Disable				
	Band:	802.	11b 💌]			
	SSID:	ADD	-GWAR3550				
	Encryp	tion: Non	e 💌				
					BACK	EXT	

The following table	describes the	narameters of t	his nage:
The following table		parameters or t	mo page.

Field	Description
WLAN Interface	You can choose Enable or Disable . By default, WAN interface is enabled. You need to enable WAN interface, and then you can set the parameters in this page.
Band	Choose the working mode of the router. You can choose 2.4 GHz (B), 2.4 GHz (G), or 2.4 GHz (B + G). By defaut, the band is 2.4 GHz (B + G).
SSID	The service set identification (SSID) is a unique name to identify the router in the wireless LAN. Wireless stations associating to the router must have the same SSID. Enter a descriptive name that is used when the wireless client connecting to the router.
Encryption	 Configure the wireless encryption mode. You can choose None, WEP, WPA (TKIP), WPA (AES), WPA2 (AES), WPA2 (TKIP), or WPA2 Mixed. Wired equivalent privacy (WEP) encrypts data frames before transmitting over the wireless network. Wi-Fi protected access (WPA) is a subset of the IEEE802.11i security specification draft. WPA2 Mixed is the collection of WPA and WPA2 encryption modes. The wireless client establishes the connection between the router through WPA or WPA2. Key differences between WPA and WEP are user authentication and improved data encryption.

After finishing the configuration, click **NEXT**. The page shown in the following figure appears.

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1483 Bridged

ADDO Extending flexibilities for p							
Wizard	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Wizard						
Wizard	Step 3:	Setup WAN In	terface				
	Please se	tup the Channel N	fode of WAN Inter	ace.			
	PVC Se	etting: VPI: 0	(0-255) 🗸	ci: 35 (32-i	65535)		
	Encaps	sulation: 🖲 📖	C/SNAP C VC-M	их			
	Chann	C PP C PP	33 Bridged 33 MER P over Ethernet(PI P over ATM(PPPo 33 Routed				
					BACK	IEXT	

In the Setup WAN Interface page, set the channel mode to 1483 Bridged

1483 MER

ADDO Extending flexibilities for p								
Wizard	Status	Wizard	Network	Service	Advance	Admin	Diagnostic	
	Wizard							
Wizard	Step 3:	Setup WAN	Interface					
	Please s	etup the Channel	Mode of WAN Inte	rface.				
	PVC S	etting: VF	PI: 0 (0-255)	VCI: 35 (3	2-65535)			
	Encap	sulation: 🤉	LLC/SNAP OVO	-Mux				
	Chann		C 1483 Bridged C 1483 MER C PPP over Ethernet(PPPoE) C PPP over ATM(PPPoA) C 1483 Routed					
	WAN I	C W. Ne	Cobtain an IP addr Use the following AN IP: atmask: ateway:					
	Defaul		Enable C Disable	в	,			
	DNS S	Pr	Obtain DNS Autor Use the following imary DNS Server: econdary DNS Serv	DNS server address	S:			
					BACK	IEXT		

In the Setup WAN Interface page, set the channel mode to 1483 MER

PPPoE

Extending flexibilities for	DN [®]						
Wizard	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Wizard						
Wizard	Step 3:	Setup WAN In	nterface				
	Please se	etup the Channel M	fode of WAN Inter	face.			
	PVC S	etting: VPI:) (0-255) ∨	ci: 35 (32-	65535)		
	Encap	sulation: 🖲 LLC	C/SNAP C VC-M	их			
	Chann	el Mode: C 148	33 Bridged				
		C 148	33 MER				
		(° PP	P over Ethernet(P	PPoE)			
		C PP	P over ATM(PPPc	A)			
		C 148	33 Routed				
	PPP S	ettings: User N	Jame:		Password:		
	Default	tRoute: ⊛ _{En}	able C Disable				
	DNS S	ettings: 💿 Ob	tain DNS Automat	ically			
		C Us	e the following DN	S server address:			
		Primar	y DNS Server:				
		Secon	dary DNS Server:				
					BACK	EXT	

In the Setup WAN Interface page, set the channel mode to PPPoE

PPPoA

Extending flexibilities for p	N [☉]						
Wizard	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Wizard						
Wizard	Step 3:	Setup WAN Ir	nterface				
	Please se	etup the Channel N	Node of WAN Inter	face.			
	PVC S	etting: VPI:) (0-255) ∨(ci: 35 (32-	65535)		
	Encap	sulation:	C/SNAP C VC-M	ux			
	Chann	el Mode: O 14	B3 Bridged				
		C 14	B3 MER				
			P over Ethernet(P	,			
		h	PP over ATM(PPPc	A)			
		C 14	B3 Routed				
	PPP S	ettings: User N	Name:		Password:		
	Default	t Route: ⊛ _{En}	able C Disable				
	DNS S	ettings: 🕫 Ob	tain DNS Automat	ically			
		C Us	e the following DN	S server address:			
		Prima	ry DNS Server:				
		Secon	idary DNS Server:				
					BACK	IEXT	

In the Setup WAN Interface page, set the channel mode to PPPoA

1483 Routed

ADDO Extending flexibilities for pe	N ^o						
Wizard	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Wizard						
Wizard	Step 3:	Setup WAN	Interface				
	Please se	etup the Channe	I Mode of WAN Inter	íace.			
	PVC S	etting: \	(D-255)	VCI: 35 (3	2-65535)		
	Encap	sulation:	€LLC/SNAP CVC-	Mux			
	Chann	el Mode:	C 1483 Bridged				
			C 1483 MER				
		6	C PPP over Ethernet	(PPPoE)			
			C PPP over ATM(PP	PoA)			
			1483 Routed				
	WAN IF	Settings:	Obtain an IP addre	ss automatically			
			C Use the following li	⊃ address:			
		۷	VAN IP:				
		Ν	letmask:				
		0	ateway:				
	Default	t Route:	• Enable C Disable		,		
	DNS S	ettings:	Obtain DNS Autom	natically			
			C Use the following D	NS server address			
		F	rimary DNS Server:				
		S	econdary DNS Serve	r.			
					BACK	VEXT	

In the Setup WAN Interface page, set the channel mode to 1483 Routed

3.4 Network

In the navigation bar, choose **Network**. The **Network** page that is displayed contains **LAN**, **WAN**, and **WLAN**.

3.4.1 LAN

Choose Network > LAN. The LAN page that is displayed contains LAN IP, DHCP, and DHCP Static IP.

3.4.1.1 LAN IP

Click **LAN IP** in the left pane. The page shown in the following figure appears. In this page, you can change IP address of the router. The default IP address is 192.168.1.1. This is the private IP address of the router. This is the address under which the router can be reached in the local network. It can be freely assigned from the block of available addresses.

Extending flexibilities for p							
LAN IP	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
LAH IP DHCP DHCP Static IP	This page change th Interface IP Addre Subnet M Scoo IGMP Sn	ss: 19 Mask: 26 Indary IP	e the LAN interface	κ, eίc	uter. Here you may		

The following table describes the parameters and button of this page:

Field	Description					
	Enter the IP of LAN interface. It is recommended to					
IP Address	use an address from a block that is reserved for					
IF Address	private use. This address block is 192.168.1.1-					
	192.168.255.254.					
	Enter the subnet mask of LAN interface. The range					
Subnet Mask	of subnet mask is from					
	255.255.0.0-255.255.255.254.					
Secondary ID	Select it to enable the secondary LAN IP. The two					
Secondary IP	LAN IP addresses must be in the different network.					
IGMP Snooping	You can disable or enable IGMP Snooping.					
Apply Changes	Click it to save the settings of this page.					

3.4.1.2 DHCP

Dynamic Host Configuration Protocol (DHCP) allows the individual PC to obain the TCP/IP configuration from the centralized DHCP server. You can configure this router as a DHCP server or disable it. The DHCP server can assign IP address, IP default gateway, and DNS server to DHCP clients. This router can also act as a surrogate DHCP server (DHCP proxy) where it relays IP address assignment from an actual real DHCP server to clients. You can enable or disable DHCP server or DHCP proxy.

Click **DHCP** in the left pane. The page shown in the following figure appears.

ADDO Extending flexibilities for p	N [☉]						
DHCP	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
LAH IP ORCP DHCP State IP	LAN IP Ad This page (1)Enable 1 address p your network (2)Enable 1 on the LAN (3)If you CAN (3)If yo	Mode dress: 192, 168, 11. can be used to co he DHCP Server to savailable to ho DHCP Relay 1. You can set th he DHCP Relay the: ange: ange: ange: thanges Ur	1 Subnet Mask: 2 onfig the DHCP mod if you are using this solve on your LAN. T it Internet access. DHCP Server je ad n the modern will do DHCP Server 192. 192.168.1.1 1440 domain.name udo	e:None,DHCP Rel device as a DHCF he device distribut other DHCP server dress. nothing when the	³ server. This page list es numbers in the po to assign IP address hosts request a IP a	ol to hosts on to your hosts ddress.	
	261	/endorClass IP R	ange				

The following table describes the parameters in this page:

Field	Description
	If set to DHCP Server , the router can assign IP addresses, IP default gateway and DNS Servers to
DHCP Mode	Windows95, Windows NT and other systems that
	support the DHCP client.
IP Pool Range	It specifies the first and the last of contiguous IP
IF FOULKange	address of the IP address pool.
Show Client	Click it, the Active DHCP Client Table page appears.
Show Chern	It shows the assigned IP address of the clients.

Field	Description
Default	Enter the IP default gateway of the IP address pool.
Gateway	
Max Lease	The lease time determines the period that the PCs
Time	retain the assigned IP addresses before the IP
TIME	addresses change.
	Enter the domain name if you know. If you leave this
	blank, the domain name obtained by DHCP from the
Domain Name	ISP is used. You must enter host name (system name)
	on each individual PC. The domain name can be
	assigned from the router through the DHCP server.
Set	Click it, the Device IP Range Table page appears. You
VendorClass IP	can configure the IP address range based on device
Range	type.

Click **Show Client** in the **DHCP Settings** page. The page shown in the following figure appears. You can view the IP address assigned to each DHCP client.

Active DHCP Client Table

This table shows the assigned IP address, MAC address and time expired for each DHCP leased client.

The following table describes the parameters and buttons in this page:

Field	Description
IP Address	It displays the IP address relative to the MAC address.
	It displays the MAC address of the PC.
	Each Ethernet device has a unique MAC address.
MAC Address	The MAC address is assigned at the factory and it consists of six pairs of hexadecimal character, for
	example, 00-A0-C5-00-02-12.

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Field	Description
	It displays the lease time. The lease time determines
Expired (s)	the period that the PCs retain the assigned IP
	addresses before the IP addresses change.
Refresh	Click it to refresh this page.
Close	Click it to close this page.

Click **Set VendorClass IP Range** in the **DHCP Settings** page. The page shown in the following figure appears. You can configure the IP address range based on device type.

Device IP Range Table

This page is used to configure the IP address range based on device type.

device name:				
start address:				
end address:				
router address:				
option60				
add delete mod	lify Close			
IP Range Table:				
Select device name	start address	end address	default gateway	option60

Choose **None** in the **DHCP Settings** page. The page shown in the following figure appears.

Extending flexibilities for p							
DHCP	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
LAH IP DHCP DHCP Static IP	LAN IP Ad This page (1)Enable	can be used to c the DHCP Server	if you are using thi	de:None,DHCP F s device as a DH	Relay or DHCP Serve CP server. This page	e lists the IP	
	your netwo (2)Enable on the LAI	ork as they reque the DHCP Relay V. You can set th noose "None", th	st Internet access. if you are using the e DHCP server ip a en the modem will (other DHCP sen ddress.	butes numbers in the ver to assign IP addr the hosts request a l	ess to your hosts	
	Apply (ndo	-			

Choose **DHCP Relay** in the **DHCP Mode** page. The page shown in the following figure appears.

ADDC Extending flexibilities for p	DN [©]						
DHCP	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
LAN IP DHCP	DHCP	Mode					
DHCP Static IP	This page (1) Enable t address po your netwo (2) Enable t on the LAN	can be used to o he DHCP Server rols available to l rk as they reque he DHCP Relay I. You can set th	rifyou are using thi hosts on your LAN. ist Internet access. ifyou are using the ne DHCP serverip a	de:None,DHCP F s device as a DH The device distril other DHCP ser ddress.	Relay or DHCP Servi CP server. This pag butes numbers in thi ver to assign IP addi the hosts request a	e lists the IP e pool to hosts on ress to your hosts	
	DHCP Moo Relay Ser	le: ver: 192.168.2.1	DHCP Relay	•			
	Apply C	ihanges U	indo Range				

The following table describes the parameters of this page:

Field	Description
	If set to DHCP Relay, the router acts a surrogate DHCP
DHCP Mode	Server and relays the DHCP requests and reponses
	between the remote server and the client.
Relay Server	Enter the DHCP server address provided by your ISP.

3.4.1.3 DHCP Static IP

Click **DHCP Static IP** in the left pane. The page shown in the following figure appears. You can assign the IP addresses on the LAN to the specific individual PCs based on their MAC address.



The following table describes the parameters and buttons of this page:

Field	Description
IP Address	It specifies the IP address of the IP address pool.
Mac Address	Enter the MAC address of a PC on the LAN.
Add	After entering the IP address and MAC address,
	click it. A row will be added in the DHCP Static IP
	Table.
Delete Selected	Select a row in the DHCP Static IP Table, then
	click it, this row is deleted.
Undo	Click it to refresh this page.
DHCP Static IP Table	It shows the assigned IP address based on the
	MAC address.

3.4.2 WAN

Choose Network > WAN. The WAN page that is displayed contains WAN, ATM Setting, and ADSL Setting.

3.4.2.1 WAN

Click **WAN** in the left pane. The page shown in the following figure appears.

In this page, you can configure WAN interface of your router.

Channel		wLAN ration				
This page is use		ration				
This page is use						
	ed to configure the Note : When con tton will be enable	nect type of PPPoE	channel operation n and PPPoA only is	nodes of your ADSL : "Manual", the "Conn	nect" and	
Default Route S	Selection: CA	uto 🏾 Specified				
VPI: 0	vci:			C-Mux		
		Enable NAF	Т: Г			
PPP Settings:	User Name:			····		
	Type:	Continuous	🗾 Idle Tim	ne (min):		
WAN IP Setting		Fixed IP				
	Local IP Address:					
	Netmask:]			
Default Route: Unnumbered 🗌	C Disable	@ Enable	C Auto			
	VP: 0 Channel Mode Enable IGMP: PPP Settings: WAN IP Setting	VPI: 0 VCI: C Channel Mode: 1433 Bridged ⊻ Enable ISMP: ■ PPP Settings: User Name: Type: WAN IP Settings: Type: Local IP Address: Netmask:	Channel Mode: T483 Bridged T Enable NAP Enable IGMP: PPP Settings: User Name: Type: Continuous WAN IP Settings: Type: Fixed IP Address: Netmask:	VPI: VCI: Encapsulation: CLC VCI: Channel Mode: 1463 Bridged Image Enable NAPT: Enable IGMP: Enable IGMP: PPP Settings: User Name: Passwo Type: Continuous Idle Tin WAN IP Settings: Type: Continuous Idle Tin WAN IP Settings: Type: Continuous Idle Tin Address: Address: Address: Netmask: Image: Idle State	VPI: VCt: Encapsulation: C LLC C VC-Mux Channel Mode: [1463 Bridged] Enable NAPT: Enable NAPT: Enable NAPT: Enable IGMP: Image: Continuous Password: Image: Continuous Indle Time (min): WAN IP Settings: Type: Continuous Indle Time (min): Indle PASSWORD: WAN IP Settings: Image: Continuous Indle PASSWORD: C PACP Address: Address: Address: Netmask: Image: Continuous Image: Continuous	VPI: VCI: Encapsulation: CLC CVC-Mux Channel Mode: [1463 Bridged] Enable NAPT: Enable IGMP: Enable IGMP: Image: Continuous Password: Image: Continuous PPP Settings: User Name: Password: Image: Continuous WAN IP Settings: Type: Image: Continuous Indee State VAN IP Settings: Continuous Indee State Address: Netmask: Image: Continuous Address:

The following table describes the parameters of this page:

Field	Description
Default Route Selection	You can choose Auto or Specified.
VPI	The virtual path between two points in an
VFI	ATM network, ranging from 0 to 255.
	The virtual channel between two points in an
VCI	ATM network, ranging from 32 to 65535 (1 to
	31 are reserved for known protocols)
Encapsulation	You can choose LLC and VC-Mux.
Channel Mode	You can choose 1483 Bridged, 1483 MER,
Channel Mode	PPPoE, PPPoA, or 1483 Routed.
Enable NAPT	Select it to enable the NAPT function of the
	router. If you do not select it and you want to

Field	Description
	access the Internet normally, you must add a
	route on the uplink equipment. Otherwise, the
	access to the Internet fails. Normally, it is
	required to enable NAPT.
Enabel IGMP	You can enable or disable IGMP function.
PPP Settings	
User Name	The correct user name that your ISP has provided to you.
Password	The correct password that your ISP has provided to you.
Туре	You can choose Continuous , Connect on Demand , or Manual .
Idle Time (min)	If select connect on demand, 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 disconnects the PPPoE connection.
WAN IP Settings	
Туре	You can choose Fixed IP or DHCP . If select fixed IP, you should enter the local IP address, remote IP address and subnet mask. If set to use DHCP, the router is a DHCP client, the WAN IP address is assigned by the remote DHCP server.
Local IP Address	It is the IP address of WAN interface that is provided by your ISP.
Remote IP Address	This is the gateway IP address that is provided by your ISP.
Netmask	It is the subnet mask of the local IP address.
Unnumbered	Select this checkbox to enable IP Unnumbered function.
Add	After configuring the parameters of this page, click it to add a new PVC into the current ATM

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Field	Description					
	VC table.					
Modify	Select a PVC in the current ATM VC table, then modify the parameters of this PVC. After finishing, click it to apply the change of this PVC.					
Current ATM VC Table	This table shows the existed PVCs. It shows the Interface name, channel mode, VPI/VCI, encapsulation mode, local IP address, remote IP address and other information. The maximum item of this table is eight.					
1	Click it, the PPP Interface-Modify page appears. You can modify the PVCs' parameters.					

Click *PPPoE* mode. The page shown in the following figure appears. In this page, you can configure parameters of this PPPoE PVC.

WAN	Status	Wizard	Network	Service	Advance	Admin	Diagnostic		
	LAN	WAN	WLAN						
WAII ATM Setting	PPP	Interface ·	- Modify						
ADSL Setting	Protoc		PPF	юЕ					
	ATM V		0/32						
	Login I	Vame:	adn	in1@9803.com					
	Passw	ord:	•••	•••					
	Authen	ntication Metho	d: AUI	0 🕶					
	Connection Type:			Continuous					
	Idle Tin	ne(s):	0						
	Bridge: C Bridged Ethernet (Transparent Bridging)								
	C Bridged PPPoE (implies Bridged Ethernet)								
			• [)isable Bridge					
	AC-Na								
		e-Name:							
	802.1q	:)isable CEnab					
				N ID(0-4095):					
	MTU:		149	2					
	Static I	P:							
	Apply	Changes Re	turn Undo						
Field	Description								
-----------------------	--	--	--	--					
Protocol	The protocol type used for this WAN								
	connection.								
ATM VCC	The ATM virtual circuit connection assigned for								
	this PPP interface (VPI/VCI).								
Login Name	The login name provided by your ISP.								
Password	The password provided by your ISP.								
Authentication Method	You can choose AUTO, CHAP, or PAP.								
Connection Type	You can choose Continuous, Connect on								
	Demand, or Manual.								
Idle Time (s)	If choose Connect on Demand, 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								
	disconnects the PPPoE connection.								
Bridge	You can choose Bridged Ethernet, Bridged								
	PPPoE, or Disable Bridge.								
AC-Name	The accessed equipment type.								
Service-Name	The service name.								
Apply Changes	Click it to save the settings of this page.								
Return	Click it to return to the WAN Interface page.								
Undo	Click it to refresh this page.								

The following table describes the parameters and buttons of this page:

3.4.2.2 ATM Setting

Click **ATM Setting** in the left pane. The page shown in the following figure appears.

In this page, you can configure the parameters of the ATM, including QoS, PCR, CDVT, SCR, and MBS

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Extending flexibilities for								
ATM Setting	Status	Wizard	Network	Service	Adva	nce	Admin	Diagnostic
	LAN	WAN	WLA	4				
WAII	ATM This pag you may VPI: [PCR: [Settings e is used to config change the settin vcl: cDVT:	gure the paramete ig for VPI, VCI, C QoS:	rs for the ATM o oS etc	of your ADSL R	outer. Here		
	Current	ATM VC Table:						
	Select	VPI VCI	QoS	PCR CDV	T SCR	MBS		
	0	0 32	UBR	6144 0				

The following table describes the parameters and buttons of this page:

Field	Description
VPI	The virtual path identifier of the ATM PVC.
VCI	The virtual channel identifier of the ATM PVC.
QoS	The QoS category of the PVC. You can choose
	UBR, CBR, rt-VBR, or nrt-VBR.
PCR	The maximum rate at which cells can be
	transported along a connection in the ATM
	network.
CDVT	The amount of delay permitted between ATM
	cells (expressed in microseconds).
SCR	The maximum rate that traffic can pass over a
	PVC without the risk of cell loss.
MBS	The maximum number of cells that can be
	transmitted at the PCR.
Apply Changes	Click it to save the settings of this page.
Undo	Click it to refresh this page.

3.4.2.3 ADSL Setting

Click **ADSL Setting** in the left pane. The page shown in the following figure appears.

In this pae, you can select the DSL modulation. Mostly, you need to remain this factory default settings. The router supports these modulations: **G.lite**, **G.Dmt**, **T1.413**, **ADSL2**, **ADSL2+**, **AnnexL**, and **AnnexM**. The router negotiates the modulation modes with the DSLAM.

SL Setting	Status	Wizard	Network	Service	Advance	Admin	Diagnosti
	LAN	WAN	WLAN				
WAII	ADSI	Settings					
ATM Setting	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. comigo					
ADSL Setting	Adsl Setti	ings.					
	ADSL mo	dulation:					
			G.Lite				
			G.Dmt				
			T1.413				
			ADSL2				
			ADSL2+				
	AnnexL (
			Enabled				
	AnnexM						
	1001 0		Enabled				
	ADSL Ca		Diama Cashia				
			Bitswap Enable SRA Enable				

3.4.3 WLAN

Choose Network > WLAN. In the WLAN page that is displayed contains Basic Setting, Security, Access Control, multi-SSID, Advance Setting, and WPS.

3.4.3.1 Basic Setting

Click **Basic Setting** in the left pane. The page shown in the following figure appears. In this page, you can configure the parameters for wireless LAN clients that may connect to the router.

ADDON[®]

WLAN	Status	Wizard	Network	Service	Advance	Admin	Diagnosti
	LAN	WAN	WLAN				
Basic Setting Security	Wirel	ess Basic	Settings				
Access Control		is used to configure					
multi-SSID		o your Access Point reless network parar		nge wireless encry	ption settings as		
Advance Setting							
WPS	🗆 Disa	ble Wireless LAN I	nterface				
	Band:	2.4 Gł	Hz (B+G) ▼				
	Mode:	AP 🔻					
	SSID:	ADD-G	WAR3550				
	Country/A	area: UNITED	_KINGDOM	•			
	Channel	Number: 6 💌	Current Chann	el: 6			
	Radio Po (Percent):		•				
	Associate	d Clients: Sh	ow Active Clients				

The following table describes the parameters and buttons of this page:

Field	Description
	Choose the working mode of the router. You can
Band	choose 2.4 GHz (B), 2.4 GHz (G), or 2.4 GHz (B
	+ G). By defaut, the band is 2.4 GHz (B + G).
	Choose the network modle of the router, which is
Mode	varied according to the software. By defaut, the
	network model of the router is AP .
	The service set identification (SSID) is a unique
	name to identify the router in the wireless LAN.
SSID	Wireless stations associating to the router must
3310	have the same SSID. Enter a descriptive name
	that is used when the wireless client connecting to
	the router.
	A channel is the radio frequency used by
	802.11b/g wireless devices. There are 13
Channel Number	channels (from 1 to 13) available depending on
	the geographical area. You may have a choice of
	channels (for your region) and you should use a
	different channel from an adjacent AP to reduce

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Field	Description
	the interference. Interference and degrading performance occurs when radio signal from different APs overlap. Choose a channel from the drop-down list box.
Radio Power (Percent)	You can choose the transmission power of the radio signal. It is recommended to choose the default value 100% .
Show Active Clients	Click it to view the information of the wireless clients that are connected to the router.
Apply Changes	Click it to save the settings of this page.

3.4.3.2 Security

Click Security in the left pane. The page shown in the following figure appears.

ADDO Extending flexibilities for p	N [☉]						
Security	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
Basic Setting Security	Wire	less Secu	rity Setup				
Access Control multi-SSID		e allows you setup on Keys could prev					
Advance Setting	SSID TY	PE:	€ Root CN	AP0 C VAP1	C VAP2 C VAP3	}	
WPS	Encrypti	ion: None	 Set WEP 	Кеу			
	🗆 Use 8	802.1x Authentica	tion 🔍 WEP 64bi	ts 🥥 WEP 128b	iits		
	WPA Au	ithentication Mod	e: CEnterprise	(RADIUS) @ P	ersonal (Pre-Shared	Key)	
	Pre-Sha	red Key Format:	Passphrase	Y			
	Pre-Sha	red Key:	-\$-\$-\$-\$-\$-\$-\$-\$-\$-\$-				
	Authent Server:	ication RADIUS	Port 1812	IP address 🛛	0.0.0 Pas	ssword	
	Note: W	hen encryption WE.	P is selected, you	must set WEP ke	ey value.		
	Appl	y Changes					

The following table describes the parameters of this page:

Field	Description
Encryption	Configure the wireless encryption mode. You can
Encryption	choose None, WEP, WPA (TKIP), WPA (AES),

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Field	Description
	WPA2 (AES), WPA2 (TKIP), or WPA2 Mixed.
	 Wired equivalent privacy (WEP) encrypts
	data frames before transmitting over the
	wireless network.
	 Wi-Fi protected access (WPA) is a subset of
	the IEEE802.11i security specification draft.
	 WPA2 Mixed is the collection of WPA and
	WPA2 encryption modes. The wireless client
	establishes the connection between the
	router through WPA or WPA2.
	Key differences between WPA and WEP are user
	authentication and improved data encryption.
	It is available when you set the encryption mode
Set WEP Key	to WEP. Click it, the Wireless WEP Key Setup
	page appears.
	• Select Personal (Pre-Shared Key), enter the
	pre-shared key in the Pre-Shared Key field.
	• Select Enterprise (RADIUS), enter the port,
	IP address, and password of the Radius
WPA Authentication	server. You need to enter the username and
Mode	password provided by the Radius server
	when the wireless client connects the router.
	If the encrypton is set to WEP, the router uses
	802.1 X authentication, which is Radius
	authentication.

Click Set WEP Key, and the following page appears.

Wireless WEP Key Setup

This page allows you setup the WEP key value. You could choose use 64-bit or 128-bit as the encryption key, and select ASCII or Hex as the format of input value.

SSID TYPE:	
Key Length:	64-bit 💌
Key Format:	ASCII (5 characters) 💌
Default Tx Key:	Key 1 💌
Encryption Key 1:	*****
Encryption Key 2:	****
Encryption Key 3:	*****
Encryption Key 4:	****
Apply Changes CI	ose Reset

The following describes the parameters and button of this page:

Field	Description		
Key Length	Choose the WEP key lenth. You can Choose 64-bit or 128-bit .		
Key Format	 If you choose 64-bit, you can choose ASCII (5 characters) or Hex (10 characters). If you choose 128-bit, you can choose ASCII (13 characters) or Hex (26 characters). 		
Default Tx Key	Choose the index of WEP Key. You can choose Key 1, Key 2, Key 3, or Key 4.		
Encryption Key 1 to 4	 The Encryption keys are used to encrypt the data. Both the router and wireless stations must use the same encryption key for data transmission. If you choose 64-bit and ASCII (5 characters), enter any 5 ASCII characters. If you choose 64-bit and Hex (10 characters), enter any 10 hexadecimal characters. 		

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Field	Description
	• If you choose 128-bit and ASCII (13
	characters), enter any 13 ASCII characters.
	• If you choose 128-bit and Hex (26 characters),
	enter any 26 hexadecimal characters.
Apply Changes	Click it to save the settings of this page.

3.4.3.3 Access Control

Click **Advanced Setting** in the left pane. The page shown in the following figure appears. In this page, you can configure the access control of the wireless clients.

ADDO Extending flexibilities for p	N [☉]						
Access Control	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
Basic Setting Security	Wire	less Acce	ess Contro	Í.			
Access Control multi-SSID Advance Setting	in the ac	cess control list w selected, these w	ed', only those clien vill be able to connec vireless clients on th	t to your Access	MAC addresses an Point. When 'Deny ble to connect the	e	
WPS	Wireless Disab	s Access Control le 🔽	Mode:	Apply Char	ges		
	MAC Add	Iress:	(ex. 008	086710502)			
	Gurrent	Access Control Li					
	Current	MAC Ad		Sele	ect		
	Deleti	e Selected	Delete All				

Choose Allow Listed in the Wireless Access Control Mode field to enable white list function. Only the devices whose MAC addresses are listed in the Current Access Control List can access the router.

Choose **Deny Listed** in the **Wireless Access Control Mode** field to enable black list function. The devices whose MAC addresses are listed in the **Current Access Control List** are denied to access the router.

3.4.3.4 multi-SSID

Click **multi-SSID** in the left pane. The page shown in the following figure appears.

ADDO Extending flexibilities for pe	N [®]						
multi-SSID	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
Basic Setting Security	Wireles	s Multi	ple BSSIE	Setup			
Access Control multi-SSID	This page allow virtual AP, and effect.	vs you to set set its SSID	virutal access poin and authentication	ts(VAP). Here you type. click "Apply (can enable/disable Changes" to take it		
Advance Setting							
WPS	□ Enable V SSID:	apu	WLAN-000	1			
	broadcast SS	ID:	,	C Disable			
	Authenticatio			rstern C Shared I	<ey @="" auto<="" td=""><td></td><td></td></ey>		
	🗖 Enable V	ap1					
	SSID:		WLAN-111				
	Broadcast SS	ID:	@ Enable	Disable			
	Authenticatio	n Type:	Open S	rstem 🥤 Shared I	<ey @="" auto<="" td=""><td></td><td></td></ey>		
	🗆 Enable V	ap2					
	SSID:		WLAN-222	2			
	Broadcast SS	ID:	@ Enable	C Disable			
	Authenticatio	n Type:	Open S	rstem 🧖 Shared I	<ey @="" auto<="" td=""><td></td><td></td></ey>		
	🗆 Enable V	ap3					
	SSID:		WLAN-333	3			
	Broadcast SS	ID:	Enable	C Disable			
	Authenticatio	n Type:	Open Sy	rstem 「 Shared I	<ey @="" auto<="" td=""><td></td><td></td></ey>		
	Apply Char	nges					

The following table describes parameterand button of this page:

Field	Description
SSID	The service set identification (SSID) is a unique name
	to identify the router in the wireless LAN.
Apply Changes	Click it to save the settings of this page.

3.4.3.5 Advance Setting

Click **Advance Setting** in the left pane. The page shown in the following figure appears. In this page, you can configure the wireless advanced parameters. It is recommended to use the default parameters.

Note:

The parameters in the **Wireless Advanced Settings** page are modified by the professional personnel, it is recommended to keep the default values.

ADDO Extending flexibilities for pe	N [©]							
Advance Setting	Status	Wizard	Netwo	ĸ	Service	Advance	Admin	Diagnostic
	LAN	WAN		WLAN				
Basic Setting Security Access Control muth-SSID Advance Setting WPS	Wirele These setti knowledge know what Authentica	ess Adv ngs are only fo about wireless effect the char ation Type: Threshold: terval: vval: : Type: SSID: cking: o Wireless	anced s	Cally advance settings sho on your Acco stem C S (256-234 (0-2347) (20-1024	ed users wh uid not be ch ess Point. hared Key (6) L ms) Short Preaml d d d	o have a sufficient hanged unless you ? Auto ble	_	
	WMM:		C Enabled	Oisable	d			
	Apply C	hanges						

The following table describes the parameters and button of this page:

Field	Description
Authentication	 Select the router operating in the open system or encryption authentication. You can choose Open System, Shared Key, or Auto. In the open system, the wireless client can directly connect to the device In the encryption authentication, the wireless

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Field	Description
	client connects to the router through the
	shared key.
	Choose the transmission rate of the wireless data.
Data Rate	You can choose Auto, 1 M, 2 M, 5.5 M, 11 M, 6 M,
	9 M, 12 M, 18 M, 24 M, 36 M, 48 M, or 54 M.
	Select whether the router broadcasts SSID or not.
	You can select Enable or Disable.
Broadcast SSID	• Select Enable, the wireless client searchs the
BIOAUCASI SSID	router through broadcasting SSID.
	 Select Disable to hide SSID, the wireless
	clients can not search the SSID.
	Wireless isolation. Select Enable, the wireless
Relay Blocking	clients that are connected to the router can not
	intercommunication.
Ethernet to	Wheteher the wireless network can communicate
Wireless Blocking	with the Ethernent network or not.
Apply Changes	Click it to save the settings of this page.

3.4.3.6 WPS

Click **WPS** in the left pane. The page shown in the following figure appears.

ADDC Extending flexibilities for p	DN [®]						
WPS	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
Basic Setting Security	Wi-Fi	Protecte	d Setup				
Access Control multi-SSID	this feature	e could let your w	ange the setting for ireless client autom it in a minute witho	nically syncronize	ected Setup). Using its setting and		
Advance Setting	🗆 Disat	le WPS					
WPS	WPS Stat		Configur			_	
	Self-PIN I	lumber:	71593579	Reg	enerate PIN		
	Push Butt	on Configuratio	n: Start PBC				
	Apply	Changes R	leset				
	Client PI	l Number:		Start	PIN		

WPS Authentication: The WPS service is enabled by default.

There are there methods used in the Wi-Fi Protected Setup. In order to use wps authentication, you can select one method from the following there methods.

- Press the WPS button on the rear panel for more than 3 seconds.
- The router generates PIN, see the above figure. Click **Regenerate PIN** to generate a new PIN, then click **Start PCB**, press WPS button on the wireless client simultaneously. The wireless client automatically establishes the connection with the router through the encryption mode, and you need not to enter the key.
- The wireless client generates PIN. In the above figure, enter PIN of the wireless client in the **Client PIN Number** field, then click **Start PIN** to establish the connection.

Note:

The wireless client establishes the connection with the router through WPS negotiation. The wireless client must support WPS.

3.5 Service

In the navigation bar, choose **Service**. The **Service** page that is displayed contains **DNS**, **Firewall**, **UPNP**, **IGMP Proxy**, **TR069**, and **ACL**.

3.5.1 DNS

Choose Service > DNS. The DNS page that is displayed contains DNS and DDNS.

3.5.1.1 DNS

Click DNS in the left pane. The page shown in the following figure appears.

Domain name system (DNS) is an Internet service that translates the domain name into IP address. Because the domain name is alphabetic, it is easier to remember. The Internet, however, is based on IP addresses. Every time you use a domain name, a DNS service translates the name into the corresponding IP address. For example, the domain name www.example.com might translate to 198.105.232.4. The DNS system has 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.

ADDC Extending flexibilities for							
DNS	Status	Wizard	Network	Service	Advance	e Admin	Diagnostic
	DNS	Firewall	UPNP	IGMP	Proxy	TR-069	ACL
DHS	This page i	ain DNS Auton DNS Manually S 1: S 2:	ure the DNS server	ip addresses for	DNS Relay.		

The following table describes the parameters and buttons of this page:

Field	Description
Attain DNS Automatically	Select it, the router accepts the first received DNS assignment from one of the PPPoA, PPPoE or MER enabled PVC(s) during the connection establishment.
Set DNS	Select it, enter the primary and optional secondary
Manually	DNS server IP addresses.
Apply Changes	Click it to save the settings of this page.
Reset Selected	Click it to refresh this page.

3.5.1.2 DDNS

Click **DDNS** in the left pane. The page shown in the following figure appears.

ADDO Extending flexibilities for pe	N [®]						
DDNS	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	DNS	Firewall	UPNP	IGMP	Proxy	TR-069	ACL
DHS DDHS	Dyna This page Here you DDNS pri Hostnam Interface Enable: DynDns S Usernam Passwor TZO Sett	mic DNS is used to control can Add/Remore ovider: e: :: :: :: :: :: :: :: :: :: :: :: ::	Configure the Dynamic L Configure the Dynamic L DynDNS.org	ation			
	Email:				_		
		Remove DDNS Table: State Ser	vice Hos	tname	Username	Interface	

The following table describes the parameters of this page:

Field	Description
DDNS provider	Choose the DDNS provider name.
Hostname	The DDNS identifier.
Interface	The WAN interface of the router.
Enable	Enable or disable DDNS function.
Username	The name provided by DDNS provider.
Password	The password provided by DDNS provider.
Email	The email provided by DDNS provider.
Кеу	The key provided by DDNS provider.

3.5.2 Firewall

Choose Service > Firewall. The Firewall page that is displayed contains IPPort Fileter, MAC Filter, URL Blocking, Virtual Server, DMZ Setting, ALG Setting, and DoS Setting.

3.5.2.1 IPPort Filter

Click **IPPort Filter** in the left pane. The page shown in the following figure appears. Entries in this table are used to restrict certain types of data packets through the gateway. These filters are helpful in securing or restricting your local network.

ADDC Extending flexibilities for p							
IPPort Filter	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	DNS	Firewal	I UPNP	IGMP	Proxy	TR-069	ACL
IPPort Filter MAC Filter UPL Blocking Virtual Server DMZ Setting ALG Setting DoS Setting	Entries i Internet t network. Outgoing		used to restrict certa away. Use of such fil n: @ Permit @ D	ters can be helpfi			al
	Dest IP / SPort: Enable: Appl: Current I	: IP Address: Address: / Changes -ilter Table:	© Permit © Der IP P Reset Mrce IP Mask SI	Direc Mask	Address: 255 Address: 255 t:	tgoing	Action

Click **Apply Changes** to save the settings of this page.

Click **Add** to add a new rule of the IP/Port filter.

3.5.2.2 MAC Filter

Click **MAC Filter** in the left pane. The page shown in the following figure appears. Entries in this table are used to restrict certain types of data packets from your local network to Internet through the gateway. These filters are helpful in securing or restricting your local network.

ADDO Extending flexibilities for per	N [©]						
MAC Filter	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	DNS	Firewall	UPNP	IGMP	Proxy	TR-069	ACL
IPPort Filter MAC Filter URL Blocking Virtual Server DMZ Setting ALG Setting DoS Setting	Entries i Internet 1 network. Outgoin	through the Gatew	ed to restrict certain ay. Use of such filte C Deny ເ Allo	vs can be helpfu	ackets from you I in securing or r	r local network to estricting your loc: 	al
	Add	MAC: tion MAC: MAC Filter Table		ex. 00E0867105 ex. 00E0867105	·	C Activ	'n
	Delete	Delete All					

Click **Apply Changes** to save the settings of this page. Click **Add** to add a new rule of the MAC filter

3.5.2.3 URL Blocking

Click **URL Blocking** in the left pane. The page shown in the following figure appears. This page is used to block a fully qualified domain name (FQDN), such as tw.yahoo.comand and filtered keyword. You can add or delete FQDN and filtered keyword.

URL Blocking	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	DNS	Firewall	UPNP	IGMP I	Proxy	TR-069	ACL
IPPort Filter MAC Filter URL Blocking Virtual Server DMZ Setting ALG Setting DoS Setting	This page keyword. URL Bloc	Blocking is used to configu king Capability: Changes		word. Here you c	an add/delete fi Ènable	Itered	
	Keyword: AddKey		elete Selected K	eyword			

The following table describes the parameters and buttons of this page:

Field	Description
URL Blocking	You can choose Disable or Enable .
Capability	 Choose Disabled to turn off URL blocking and keyword filtering.
	• Choose Enable to block access to the URLs and
	keywords specified in the URL Blocking Table
	and Keyword Filtering Table.
Apply Changes	Click it to save the settings of this page.
Keyword	The keyword to block.
Add Keyword	Click it to add the keyword to the keyword filtering
	table.
Delete Selected	Select a row in the Keyword Filtering Table and click it
Keyword	to delete the row.
URL Blocking	A list of the URL (s) to which access is blocked.
Table	

3.5.2.4 Virtual Server

Click **Virtual Server** in the left pane. The page shown in the following figure appears.

'irtual Server	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	DNS	Firewall	UPNP	IGMP Pro	xy TR-0	69	ACL
IPPort Filter MAC Filter	Virtu	al Server					
URL Blocking			ı virtual server,so oth	ers can access th	e server through th	ne	
Virtual Server	Gateway.						
DMZ Setting	Service T	vpe:					
ALG Setting		al Service Name:	AUTH		•		
DoS Setting	C User	-defined Service Na	ame:				
	Protocol:		TCP		-		
	WAN Set	ting:	Interface		-		
	WAN Inte	rface:	pppoe1		•		
	WAN Por	t:	113	(ex. 5001	:5010)		
	LAN Ope	n Port:	113				
	LAN Ip A	ddress:					
	LAN IP A	aaress:	1				
	ânnis	/ Changes					

The following table describes the parameters of this page:

Field	Description
Service Type	 You can choose the common service type, such as AUTH, DNS, or FTP. You can also define a service name. If you choose the common service type, the corresponding WAN communication port/service host communication port/service host communication port has the default settings. If you define service type, you need to enter the
	corresponding port.
Protocol	Choose the transport layer protocol that the service type uses. You can choose TCP or UDP .
WAN Setting	You can choose Interface or Ip Address.
WAN Interface	Choose the router port that uses virtual server.
WAN Port	Enter the access port on the WAN.
LAN Open Port	Enter the port number of the specified service type.
LAN Ip Address	Enter the IP address of the virtual server. It is in the

Field	Description
	same network segment with LAN IP address of the
	router.

3.5.2.5 DMZ Setting

Click **DMZ Setting** in the left pane. The page shown in the following figure appears. A demilitarized zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains services accessible to Internet traffic, such as web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.

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OMZ Setting	Status	Wizard	Network	Service	Ad	vance	Admin	Diagn	iostic
	DNS	Firewall	UPNP	IGMP P	roxy	TR-069		ACL	Ι
IPPort Filter	DMZ								
MAC Filter									
URL Blocking		arized Zone is used zed access to its lo							
Virtual Server	devices a	ccessible to Internet	t traffic, such as ∖						
Virtual Server DMZ Setting	devices a		t traffic, such as ∖						
	devices an SMTP (e-i	ccessible to Internet	t traffic, such as ∖						
DMZ Setting	devices ar SMTP (e-i	ccessible to Internet mail) servers and Df	t traffic, such as ∖						

- Step 1 Select Enable DMZ to enable this function.
- Step 2 Enter an IP address of the DMZ host.
- Step 3 Click Apply Changes to save the settings of this page.

3.5.2.6 ALG Setting

Click **ALG Setting** in the left pane. The page shown in the following figure appears.

ADDO tending flexibilities for pe							
LG Setting	Status W	fizard	Network	Service	Advance	Admin	Diagnos
	DNS	Firewall	UPNP	IGMP Pro	xy TR	-069	ACL
IPPort Filter MAC Filter URL Blocking	NAT ALC			Ŭ			
Virtual Server	IPSec Pass-Thr	ough:	I Enable				
DMZ Setting	L2TP Pass-Thro	•	Enable				
ALG Setting	PPTP Pass-Thre	ough:	🗹 Enable				
DoS Setting	FTP:		🔽 Enable				
	H.323:		🗹 Enable				
	SIP:		🗹 Enable				
	RTSP:		🗹 Enable				
	ICQ:		🗹 Enable				
	MSN:		🗹 Enable				

3.5.2.7 DoS Setting

Click **DoS Setting** in the left pane. The page shown in the following figure appears. Denial-of-service attack (DoS Attack) is a type of attack on a network that is designed to bring the network to its knees by flooding it with useless traffic. In this page, you can prevent DoS attacks.

IPPort Filter	DoS Setting	
MAC Filter		
URL Blocking	0 "deniel of convice" (De C) others is a bound	
Virtual Server	legitimate users of a service from using that s	rized by an explicit attempt by hackers to prevent service.
DMZ Setting	Enable DoS Prevention	
ALG Setting	□ Whole System Flood: SYN	100 Packets/Second
DoS Setting	☐ Whole System Flood: FIN	100 Packets/Second
	Whole System Flood: UDP	100 Packets/Second
	Whole System Flood: ICMP	100 Packets/Second
	Per-Source IP Flood: SYN	100 Packets/Second
	Per-Source IP Flood: FIN	100 Packets/Second
	Per-Source IP Flood: UDP	100 Packets/Second
	Per-Source IP Flood: ICMP	100 Packets/Second
	TCP/UDP PortScan	Low Sensitivity
	□ ICMP Smurf	
	🗖 IP Land	
	🗖 IP Spoof	
	🔲 IP TearDrop	
	🗖 PingOfDeath	
	TCP Scan	
	TCP SynWithData	
	🔲 UDP Bomb 🔲 UDP EchoChargen	
	ODP EchoChargen	
	Select ALL Clear ALL	
	Enable Source IP Blocking	300 Block time (sec)
	Analy Changes	
	Apply Changes	

3.5.3 UPNP

Choose **Service > UPNP**. The page shown in the following figure appears. This page is used to configure UPnP. The system acts as a daemon after you enable it.

UPNP	Status	Wizard	Network	Service	Advance	Admin	Diagnostic			
	DNS	Firewall	UPNP	IGMP Pro	xy TR-069		ACL			
UPHP	This page UPnP. UPnP: WAN Inter		ure UPnP. The syst	able [©] Enable	non when you enable	-				

3.5.4 IGMP Proxy

Choose **Service > IGMP Proxy** in the left pane. The page shown in the following figure appears. IGMP proxy enables the system to issue IGMP host messages on behalf of hosts that the system discovered through standard IGMP interfaces. The system acts as a proxy for its hosts after you enable it.

CADDON° Extending Restbillies for people								
IGMP Proxy	Status	Wizard	Network	Service	Advance	Admin	Diagnostic	
	DNS	Firewall	UPNP	IGMP Pr	oxy TR	-069	ACL	
IGMP Proxy	IGMP pro the syste for its hou- . Enable IGMP, . Enable IGMP Pr Multicas Robust C Last Meu Query In Query R Group L	t Allowed: Count: mber Query Count:	em to issue IGMP h standard IGMP it by doing the foll interface (upstree ce (downstream), C Dis C Dis C Dis 2 2 60 100 2000	host messages Interfaces. The s lows: am), which conni which connects	ystem acts as a p ects to a router run to its hosts.	roxy		

3.5.5 TR069

Choose **Service > TR069**. The page shown in the following page appears. In this page, you can configure the TR-069 of the router.

TR-069	TR-069 Confi	TR-069 Configuration						
	This page is used to con the ACS's parameters.	This page is used to configure the TR-069 CPE. Here you may change the setting for the ACS's parameters.						
	ACS:							
	Enable:	v						
	URL:	http://20.20.20.20:9090/web/tr069						
	User Name:	hgw						
	Password:							
	Periodic Inform Enable:	C Disable 🤨 Enable						
	Periodic Inform Interval:	300						
	Connection Request:							
	User Name:	itms						
	Password:	•••• /tr069						
	Path:							
	Port:	7547						
	Debug:							
	ACS Certificates CPE:	⊙ No C Yes						
	Show Message:	• Disable C Enable						
	CPE Sends GetRPC:	O Disable O Enable						
	Skip MReboot:	• Disable C Enable						
	Delay:	O Disable 💿 Enable						
	Auto-Execution:	O Disable I Enable						
	Apply Changes	Apply Changes Reset						
	Certificate Management:							
	CPE Certificate Password:	client Apply Undo						
	CPE Certificate:	Browse Upload						
	CA Certificate:	Browse Upload						

Field	Description
ACS	
URL	The URL of the auto-configuration server
	to connect to.
User Name	The user name for logging in to the ACS.
Password	The password for logging in to the ACS.
Periodic Inform Enable	Select Enable to periodically connect to
	the ACS to check for configuration
	updates.
Periodic Inform Interval	Specify the amount of time between
	connections to ACS.
Connection Request	
User Name	The username to connect the router from
	the ACS.
Password	The password to connect the router from
	the ACS.
Debug	
ACS Certificates CPE	Specify whether to check the ACS
	certification of the router.
Show Message	Select Enable to display ACS SOAP
	messages on the serial console.
CPE Sends GetRPC	Select Enbale, the CPE contact the ACS
	to obtain configuration updates.
Skip MReboot	Specify whether to send an MReboot event
	code in the inform message.
Delay	Specify whether to start the TR-069
	program after a short delay.
Auto-Execution	Specify whether to automatically start the
	TR-069 after the router is powered on.
CT Inform Extension	Specify whether to support China Telecom
	extension inform type.
Apply Changes	Save the settings in this page.
Undo	Refresh this page.

Field	Description
Certificate Management	
CPE Certificate Password	The certificate password of the router
Apply	Save the settings of this page.
CPE Certificate	Click it to browse and upload the certificate
	for the router.
CA Certificate	Click it to browse and upload the CA
	certificate for the router.

3.5.6 ACL

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

ADDO Extending flexibilities for pe	N [⊗]						
ACL	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	DNS	Firewall	UPNP	IGMP Pr	oxy TR-	069	ACL
ACL	You can sp Entries in t Internet net Using of su	Configurat pecify what service his ACL table are to his ACL table are work to the Gatew ich access control Select: I LAN	s are accessable used to permit ce ay. can be helpful in	rtain types of data securing or restric	packets from you		1
	IP Address Services A F Any Add R Current AC	eset		(The	e IP 0.0.0.0 represi	ent any IP) Port Action	-

The following table describes the parameters and buttons of this page:

Field	Description			
Direction Select	Select the router interface. You can select LAN or WAN.			
LAN ACL Switch	Enable or disable ACL.			
IP Address	Enter the IP address of the specified interface. Only			

Field	Description			
	the IP address that is in the same network segment			
	with the IP address of the specified interface can			
	access the router.			
	You can choose the following services from LAN or			
Services Allowed	WAN: web, telnet, ftp, tftp, snmp, or ping. You can			
	also choose all the services.			
Add	After setting the parameters, click it to add the			
Add	Current ACL Table.			
Reset	Click it to refresh this page.			

3.6 Advance

In the navigation bar, choose **Advance**. The **Advance** page that is displayed contains **Bridge Setting**, **Routing**, **Port Mapping**, **QoS**, **SNMP**, and **Others**.

3.6.1 Bridge Setting

Choose **Advance** > **Bridge Setting**. The page shown in the following figure appears. This page is used to configure the bridge parameters. In this page, you can change the settings or view some information in the bridge mode and its attached ports.

Advance	Status	Wizard	Network	Service	Advance	Admin	Diagnostic		
	Bridge Setting	Routing	Port Mapping	QoS	SNI	мр	Others		
Bridge Setting	Bridge Setting This page is used to configure the bridge parameters. Here you can change the settings or view some information on the bridge and its attached ports.								
	Ageing Ti	ne:	300	(s	econds)				
	802.1d Sp	anning Tree:	Disi	abled C Enable	ed				
	Apply C	hanges U	ndo Show MAC:	3					

The following table describes the parameters and buttons of this page:

Field	Description
Aging Time	If the host is idle for 300 seconds (default value), its

Field	Description
	entry is deleted from the bridge table.
802.1d Spanning	You can select Disable or Enable .
Tree	Select Enable to provide path redundancy while
	preventing undesirable loops in your network.
Apply Changes	Click it to save the settings of this page.
Undo	Click it to refresh this page.
Show MACs	Click it to show a listing of the learned MAC
	addresses for the bridge.

Click **Show MACs**. The page shown in the following figure appears. This table shows a list of learned MAC addresses for this bridge.

🚰 http://192.168.1.1 - Forward	http://192.168.1.1 - Forwarding Table - Microsoft Internet Explorer							
Forwarding	Forwarding Table							
MAC Address	Port	Туре	Aging Time					
01:80:c2:00:00:00	0	Static	300					
01:00:5e:00:00:09	0	Static	300					
00:19:e0:0a:f4:73	1	Dynamic	180					
00:19:e0:0a:77:66	1	Dynamic	300					
00:11:22:33:44:55	0	Static	300					
ff:ff:ff:ff:ff:ff	0	Static	300					
refresh close								

3.6.2 Routing

Choose Advance > Routing. The Routing page that is displayed contains Static Route and RIP.

3.6.2.1 Static Route

Click **Static Route** in the left pane. The page shown in the following figure appears. In this page, you can configure the routing information. You can add or delete IP routes.

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Routing	Status	Wizard	Network	Service	Advance	Admin	Diagnost
	Bridge Setting	Routing	Port Mapping	QoS	SNM	Р	Others
Static Route RIP		ng Config					
	This page is routes.	s used to configu	re the routing inform	nation. Here you o	can add/delete IP		
	Enable:		v				
	Destination	1:					
	Subnet Ma	isk:					
	Next Hop:						
	Metric:		1				
	Interface:		-				
	interface:						

The following table describes the parameters and buttons of this page:

Field	Description
Enable	Select it to use static IP routes.
Destination	Enter the IP address of the destination device.
Subnet Mask	Enter the subnet mask of the destination device.
Next Hop	Enter the IP address of the next hop in the IP route to the
	destination device.
Metric	The metric cost for the destination.
Interface	The interface for the specified route.
Add Route	Click it to add the new static route to the table.
Update	Select a row in the table to populate the configuration
	fields with that row's values. Make any necessary
	changes to those values and click it to save those
	changes.
Delete	Select a row in the table and click it to delete the row.
Selected	
Show	Click it, the IP Route Table appears. You can view a list
Routes	of destination routes commonly accessed by your
	network.
Static Route	A list of the previously configured static IP routes.
Table	

Click **Show Routes**. The table shown in the following figure appears. The table shows a list of destination routes commonly accessed by your network.

🍠 http:/	http://192.168.1.1 - IP Route Table - Microsoft Internet Explorer							
IP Route Table								
	This table shows a	list of destination ro	utes commonly acc	essed by your netw	ork.			
	Destination	Subnet Mask	NextHop	lface				
	239.0.0.0	255.0.0.0	*	e1				
	0.0.0.0	0.0.0.0	10.126.0.57	pppoe1				
	10.126.0.57	255.255.255.255	*	pppoe1				
	192.168.1.0	255.255.255.0	*	e1				
	Refresh Close							

3.6.2.2 RIP

Click **RIP** in the left pane. The page shown in the following figure appears. If you are using this device as a RIP-enabled router to communicate with others who is using the Routing Information Protocol (RIP), enable the RIP. This page is used to select the interfaces on your devices that use RIP, and the version of the protocol used.

ADDO Extending flexibilities for p	N [☉]							
RIP	Status	Wizard	Network	Service	Advance	Admin	Diagnostic	
	Bridge Setting	Routing	Port Mappir	ng QoS	SNM	P	Others	
Static Route	RIP C	onfigura	tion					
	with others	Enable the RIP if you are using this device as a RIP-enabled router to communicate with others using the Routing Information Protocol attention: if you want to enable RIP, please make sure remote control is enabled.						
	RIP:	RIP: COn Apply						
	interface: Recv Vers	ion:	br0 RIP1 <u>-</u>	-				
	Send Vers Add De Rip Config	elete	RIP1 <u></u>	1				
	Select	inter	ace R	ecv Version	Send Version			

The following table describes the parameters and buttons o	of this page:
--	---------------

Field	Description
RIP	Select On , the router communicates with other
	RIP-enabled devices.
Apply	Click it to save the settings of this page.
Interface	The router interface that uses RIP.
Recv Version	The interface type to accept RIP messages. You can
	choose RIP1, RIP2, or Both.
	• Choose RIP1 indicates the router receives RIP v1
	messages.
	 Choose RIP2 indicates the router receives RIP v2
	messages.
	 Choose Both indicates the router receives RIP v1
	and RIP v2 messages.
Send Version	The working mode for sending RIP messages. You can
	choose RIP1 or RIP2.
	• Choose RIP1 indicates the router broadcasts RIP1
	messages only.
	Choose RIP2 indicates the router multicasts RIP2
	messages only.
Add	Click it to add the RIP interface to the Rip Config Table .
Delete	Select a row in the Rip Config Table and click it to
	delete the row.
Rip Config Table	A list of the router interfaces that enble RIP.

3.6.3 Port Mapping

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



The procedure for manipulating a mapping group is as follows:

- **Step 1** Select **Enable** to enable this function.
- Step 2 Select a group from the table.
- **Step 3** Select interfaces from the WAN and LAN interface list and add them to the grouped interface list using the arrow buttons to manipulate the required mapping of the ports.
- **Step 4** Click **Apply** to save the changes.

3.6.4 QoS

Choose **Advance > QoS**. The page shown in the following figure appears. Entries in this table are used to assign the precedence for each incoming packet based on physical LAN port, TCP/UDP port number, and source/destination IP address/subnet masks.

IP QoS	IP QoS
	Entries in this table are used to assign the precedence for each incoming packet based on specified policy. Config Procedure: 1: set traffic rule. 2: assign the precedence or add marker for different stream.
	IP QoS: C disable C enable Apply
	QoS Policy: stream based 🔻
	Schedule Mode: strict prior
	QoS Rule List:
	stream rule behavior behavior
	src IP src Port dest IP dest Port Proto prior IP IP R02.1p iff
	delete all add rule
	Add QoS Rule
	Src IP: 0.0.0.0 Src Mask: 255.255.255
	Dest IP: Dest Mask:
	Src Port: Dest Port:
	Protocol: Phy Port:
	set priority: p3(Lowest) 💌
	insert or modify QoS mark
	add rule

The following table describes the parameters and buttons of this page:

Field	Description
IP QoS	You can choose disable or enable . By default, IP QoS
	is disabled.
	You need to enable IP QoS, and then you can set the
	parameters in this page.
QoS Policy	You can choose stream based, 802.1p based, or
	DSCP based.
Schedule Mode	You can choose strict prior or WFQ (4:3:2:1).
Src IP	The IP address of the source data packet.
Src Mask	The subnet mask of the source IP address.
Src Port	The port of the source data packet.
Dest IP	The IP address of the destination data packet.
Dest Mask	The subnet mask of the destination IP address.
Dest Port	The port of the destination data packet.
Protocol	The protocol responds to the IP QoS rules. You can
	choose TCP, UDP, or ICMP.
Phy Port	The LAN interface responds to the IP QoS rules,
	including four LAN interfaces, one AP interface, and
	four virtual AP interfaces.
Set priority	The priority of the IP QoS rules. P0 is the highest
	priority and P3 is the lowest.
IP Precedence	You can choose from 0 to 7 define the priority in the
	ToS of the IP data packet.
IP ToS	The type of IP ToS for classifying the data package
	You can choose Normal Service, Minimize Cost,
	Maximize Reliability, Maximize Throughput, or
	Minimize Delay.
802.1p	You can choose from 0 to 7.
delete	Select a row in the table and click it to delete the row.
delete all	Select all the rows in the table and click it to delete the
	rows.

3.6.5 SNMP

Choose **Advance** > **SNMP**. The page shown in the following figure appears.

ADDC Extending flexibilities for p							
SNMP	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Bridge Setting	Routing	Port Mapping	QoS	SNN	лр	Others
SIMP	This page for system F Enab System D System C System L Trap IP A Commun only Commun write)	is used to config i description, trap escription ontact ame ocation ddress ity name (read- ity name (read-	ADSL SoHo Router ADSL SoHo Router ADSL SoHo Router ADSL DSL public	ol. Here you ma;	y change the settin	9	

The following table describes the parameters and buttons of this page:

Field	Description				
Tran ID Address	Enter the IP address of trap host. The trap				
Trap IP Address	information is sent to the host.				
	The common character string that is used for				
Community name	obtaining the device information. It is like				
(read-only)	password, through which SNMP application				
	entry obtains the device information directly.				
	Modify the common character string that is				
Community name	configured by the device. It is like password,				
(read-write)	through which SNMP application entry				
	modifies the device information directly.				

3.6.6 Others

Choose Advance > Others. The page shown in the following figure appears.

ADDC Extending flexibilities for							
Others	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Bridge Setting	Routing	Port Mapping	QoS	SNN	IP	Others
Other	Here you c	an set other miscel : When enable Half us. e: © Disable	I Configur	ettings.	nnection type will s	et	

3.7 Admin

In the navigation bar, choose Admin. The Admin page that is displayed contains Commit/Reboot, Upgrade, System Log, Password, and Time Zone.

3.7.1 Commit/Reboot

Choose **Admin** > **Commit/Reboot**. The page shown in the following figure appears. In this page, you can set the router reset to the default settings or set the router to commit the current settings.



The following table describes the parameters of this page:

Field	Description
Factory Default	Select it to reset the router to the default
Configuration	settings.
Save Current	Select it to save the current settings and reboot
Configuration	the router.
Reboot	Click it to reboot the router.

3.7.2 Upgrade

Choose Admin > Upgrade. The Upgrade page that is displayed contains Upgrade Firmware and Backup/Restore.

3.7.2.1 Upgrade Firmware

Click **Upgrade Firmware** in the left pane. The page shown in the following figure appears. In this page, you can upgrade the firmware of the router.

Note:

Do not turn off your router or press the **Reset** button while this procedure is in progress.

Upgrade Firmware Backup/Restore	Upgrade Firmware				
		pgrade the ADSL Router firmware to n vice during the upload because it may t after file is uploaded.			
	Select File:		Browse		
	Upload Reset				

The following table describes the parameters and buttons of this page:

Field	Description				
Select File	Click Browse to select the firmware file.				
Upload	Select the firmware file and click Upload to begin				
Opidau	upgrading the firmware.				

Field	Description		
Reset	Click it to begin selecting the firmware file.		

3.7.2.2 Backup/Restore

Click **Backup/Restore**. The page shown in the following figure appears. In this page, you can backup the current settings to a file and restore the settings from the file which was saved previously.

Note:

Do not turn off your router or press the **Reset** button while these procedures are in progress.

Upgrade Firmware Backup Restore	Backup/Restore Settings				
	Save Settings to File: Save	Jpload			

The following table describes the parameters and buttons of this page:

Field	Description				
Save Settings to	Click it and select the path. Then you can save the				
File	configuration file of the router.				
Load Settings from	Click Browse to select the configuration file.				
File					
Liniand	Select the configuration file of the router. Click				
Upload	Upload to begin restoring the router configuration.				

3.7.3 System Log

Choose **Admin > System Log**. The page shown in the following figure appears. In this page, you can view the log information.

System Log	
System Log	Log Setting
	This page is used to display the system event log table. By checking Error or Notice
	(or both)will set the log flag. By clicking the ">> ", it will display the newest log information below.
	Error: 🔽 Notice: 🔽
	Apply Changes Reset
	Apply Changes Reset
	Event log Table:
	Save Log to File Clean Log Table
	Old I<< > > New
	OldNew
	Time Index Type Log Information
	Thu Jan 1 0:0:10 1970 0 system upnp task is up
	Thu Jan 1 0:0:10 1970 1 system Generic driver is up and running
	Thu Jan 1 0:0:10 1970 2 system DNS task is UP
	Thu Jan 1 0:0:15 1970 3 system Port 10 link up
	Thu Jan 1 0:38:8 1970 4 other admin web login successfully.
	Thu Jan 1 0:38:11 1970 5 other admin web login successfully.
	Thu Jan 1 0:41:16 1970 6 other admin web login successfully.
	Page: 1/1

3.7.4 Password

Choose **Admin > Password**. The page shown in the following figure appears. In this page, you can change the password of the user, including admin and user. By default, the super user name and password are **admin** and **admin**. The common user name and password are **user** and **user**.

Password	Status	Wizard	Network	Service	Advance	Admin	Diagnostic		
	Commit/Reboot	Upgrade	System Log	Password	Time	Zone			
Password	This page i user name User Nam New Pass	and password will a e: adm word: I Password: ault	Cocount to access th disable the protection		SL Router. En	npty			

The following table describes the parameters of this page:

Field	Description				
User Name	You can choose admin or user .				
New Password	Enter the password to which you want to change				
New Fassword	the old password.				
Confirmed Password	Enter the new password again.				
Set to Default	After selecting it, the password you set does not				
Password	take effect. It keeps the default password.				

3.7.5 Time Zone

Choose **Admin > Time Zone**. The page shown in the following figure appears. In this page, you can set the system time manually or get the system time from the time server.

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Extending flexibilities for p	N [©]						
Time Zone	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Commit/Reboot	Upgrade	System Log	g Password	Time 2	lone	
Time Zone	Syste This page i you can ch parameters System Ti Apply C NTP Config State: Server: [Server: [Interval: [Time Cont.	m Time (s used to configure ange the setting 	Configurat are the system time or view some info year Jan I mor sec sec sable hours Liberia, Morocco, E	tion and Network Time f mation on the syste th th day T	Protocol(NTP) se	rver. Here	
	Apply C NTP Start		Get GMT Time]			

3.8 Diagnostic

In the navigation bar, choose **Diagnostic**. The **Diagnostic** page that is displayed contains **Ping**, **ATM Loopback**, **ADSL** and **Diagnostic**.

3.8.1 Ping

Choose **Diagnostic > Ping**. The page shown in the following figure appears.

CADDON [°] Extending feedbilities for people									
Diagnostic	Status	Wizard	Network	Service Ad	Ivance Admin	Diagnostic			
	Ping	ATM Loopback	ADSL	Diagnostic Test					
Ping	Ping Host : PING	Diagnostic							

The following table describes the parameters and buttons in this page:

Field	Description			
Host	Enter the IP address.			
PING	Click it to begin to Ping the host address.			

3.8.2 ATM Loopback

Choose **Diagnostic > ATM Loopback**. The page shown in the following figure appears. In this page, you can use VCC loopback function to check the connectivity of the VCC.



3.8.3 ADSL

Choose **Diagnostic** > **ADSL**. The page shown in the following figure appears. It is used for ADSL tone diagnostics.

ADSL	Diagnos	stic Al	DSL							
	Adsl Tone Diag	Adsl Tone Diagnostic								
	Start									
			Downstream	Upstream						
	Hlin Scale		33399	0						
	Loop Attenua	tion(dB)	2.6	3.5						
	Signal Attenu	ation(dB)	2.6	0.0						
	SNR Margin(d	B)	8.4	12.5						
	Attainable Ra	te(Kbps)	23560	1024						
	Output Power	(dBm)	11.9	4.4						
	Tone Number	H.Real	H.Image	SNR	QLN	Hlog				
	0	0.000	0.000	-32.0	-102.5	-96.3				
	1	0.000	0.000	-32.0	-108.0	-96.3				
	2	0.000	0.000	-32.0	-107.5	-96.3				
	3	0.000	0.000	-32.0	-108.5	-96.3				
	4	0.000	0.000	-32.0	-107.5	-96.3				
	5	0.000	0.000	-32.0	-108.0	-91.2				

Click Start to begin ADSL tone diagnostics.

3.8.4 Diagnostic Test

Choose **Diagnostic > Diagnostic Test**. The page shown in the following figure appears. In this page, you can test the DSL connection.



Click Run Diagnostic Test to begin testing.