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 ta	able describes	the LEDs of	the device:
------------------	----------------	-------------	-------------

LEDs Color		Status	Description
	Croon	On	The device is powered on.
Dowor	Green	Off	The device is powered off.
Fower	Ded	07	The device is self-testing or self-testing
	Reu	On	is failed, or the software is upgrading.
		05	The device has established connection
ADSL	Green	On	with the office physical layer.
		Blinks	The device is handshaking with the
		(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 or data is being transmitted on the Internet in the bridge mode.				
		Off	The LAN connection is failed.				
		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.
Lino	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.
Dowor	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.
MDS	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.

ADDO Extending flexibilities for p	N [©]						
	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	System	LAN	WLAN	WAN	Port Mapping	Statistics	ARP Table
System	System	em Status	status and some t	asic settings of	the device.	_	
	Alias Na	me	ADSL R	outer			
	Uptime(hh:mm:ss)	00:21:13				
	Softwar	e Version	V2.1				
	DSP Ver	rsion	2.9.0.5a				
	DSL						
	Operatio	onal Status	G992.5 /	ADSL2+			
	DSL Up	Time(hh:mm:ss)	00:00:17				
	Upstrea	m Speed	921 kbps	;			
	Downstr	eam Speed	7661 kbr)s			

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.

Extending flexibilities for p	N [®]						
Status	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	System	LAN	WLAN	WAN	Port Mapping	Statistics	ARP Table
System	Syste This page System	em Status shows the current	status and some	basic settings of	the device.	_	
	Alias Na	me	ADSL R	Router			
	Uptime(I	hh:mm:ss)	00:21:10	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)	00:00:11	7			
	Upstrear	n Speed	921 kbp	IS			
	Downstr	eam Speed	7661 kb	ips			

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	LAN Cont	Status shows some basic	: LAN settings.			_	
	IP Addres	is	192.168	1.1.1			
	Subnet N	ask	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 .

VLAN	Status	Wizard	Netv	vork	Service	Advance	Admin	Diagno:	
	System	LAN	wL	AN	WAN	Port Mapping	Statistics	ARP Ta	
WLAN	WLAN Status This page shows some basic status of wireless lan.								
	Wireless	Configuratio	n						
	Wireless			Enabled					
	Band			2.4 GHz (B+	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	Statu	JS ome basic	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	N [®]							
Port Mapping	Status	Wizard	Network	Service	Advance	Adm	in Diagnost	tic
	System	LAN	WLAN	WAN	Port Mapping	Statist	ics ARP Tabl	e
Port Mapping	Port This page Status: [Manning	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	3,LAN4,wlan,wlan- vap3,ppj	vapO,wlan-vap1,w poe1	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.

ADDO	N [®]								
Statistics	Status	Wizard	Netv	ork	Service	Advan	ce	Admin	Diagnosti
	System	LAN	WL.	AN	WAN	Port Map	ping	Statistics	ARP Table
Traffic Statistic DSL Statistic	Statis This page network int	tics shows the pack terface.	ket statistic	s for transmi	ssion and rece	ption regard	ling to		
	Interface	Rx pkt	Rx err	Rx drop	Tx pkt	Tx err	Tx drop		
	e1	626	0	0	703	0	0		
	a0	0	0	0	0	0	0		
	a1	55	0	0	54	0	0	1	
	a2	0	0	0	0	0	0	1	
	a3	0	0	0	0	0	0	1	
	a4	0	0	0	0	0	0	1	
	a5	0	0	0	0	0	0	1	
	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		
	wd	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.

ADDO Extending flexibilities for per	N [©]						
DSL Statistic	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	System	LAN	WLAN	WAN	Port Mapping	Statistics	ARP Table
Traffic Statistic	ADSI	_ Configurat	ion				
	This page	e shows the setting of th	ne ADSL Router				
	Adsl Lin	e Status	SHOWTIME.	LO			
	Adsl Mo	de	G992.5 ADSL	2+			
	Up Strea	im	945 kbps				
	Down St	ream	17418 kbps				
	Attenuat	ion Down Stream(db)	2				
	Attenuat	ion Up Stream(db)	3				
	SNR Ma	rgin Down Stream(db)	11.8				
	SNR Ma	rgin Up Stream(db)	12.4				
	Vendor	D	RETK				
	DSP Ver	sion	2.9.0.5a				
	CRC Erre	ors	73				
	Up Strea	m BER	158e-7				
	Down St	ream BER	13e-7				
	Up Outp	ut Power	5				
	Down O	utput Power	6				
	ES		10				
	SES		2				
	UAS		0				
	Adsl Ret	rain: Retra	in Refresh				

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	Arp tables The page show MAC address tables.					
		IP address		Mac address			
		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	Wizard Wiza The Wiz Step 1: 1 Step 2: 3 Step 3: 1 Step 4: 1 Step 5: 3	ard will guide you t Setup Web Accour Setup Time Zone Setup WAN Interfac Setup WLAN Interfa Save Configuration	b finishing the DSL t :e ce	. Configuration ste	p by step.		
	Step 1: Please s User N New Pa Confirm	: Setup Web Ac et a new account to ame: assword: ned Password:	access the web to access the web to admin 💌	server of ADSL Ro	uter. 1	4EXT	

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) ∨	ci: 0 (32-	65535)		
	Encaps	sulation: 🖲 📖	C/SNAP CVC-M	ux			
	Channe	el Mode: 0140 0140 @PF 0PF 0140	83 Bridged 83 MER PP over Ethernet(P P over ATM(PPPo 83 Routed	PPoE) DA)			
	PPP Se	ttings: User N	Name:		Password:		
	Default	Route: 🕫 En	able C Disable				
	DNS Se	ettings: © Ob C Us Primai Secon	itain DNS Automa e the following DN ry DNS Server: idary DNS Server:	tically S server address:			
					BACK	IEXT	

The following table describes the parameters of this page:

Field	Description
	The virtual path between two points in an ATM
DVC Sottings	network, and its valid value is from 0 to 255.
PVC Settings	 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.			
	 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: 🖲 🗄	nable C Disable				
	Band:	802.	11b 💌]			
	SSID:	ADD	-GWAR3550				
	Encryp	tion: Non	e 💌				
					BACK	EXT	

The following	table	describes	the	narameters	of this	nade.
The following	labic	00301003	uic	parameters	01 1113	page.

Field	Description				
	You can choose Enable or Disable. By default, WAN				
WLAN	interface is enabled.				
Interface	You need to enable WAN interface, and then you can				
	set the parameters in this page.				
	Choose the working mode of the router. You can choose				
Band	2.4 GHz (B), 2.4 GHz (G), or 2.4 GHz (B + G). By				
	defaut, the band is 2.4 GHz (B + G) .				
	The service set identification (SSID) is a unique name to				
	identify the router in the wireless LAN. Wireless stations				
SSID	associating to the router must have the same SSID.				
	Enter a descriptive name that is used when the wireless				
	client connecting to the router.				
	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.				
Encryption	 Wi-Fi protected access (WPA) is a subset of the 				
Eneryption	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 per	N [©]						
Wizard	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Wizard						
Wizard	Step 3:	Setup WAN In	terface				
	Please se	tup the Channel M	fode of WAN Inter	ace.			
	PVC Se	etting: VPI: 0	(0-255) 🗸	ci: 35 (32-i	65535)		
	Encaps	sulation: 🖲 📖	C/SNAP C VC-M	х			
	Chann	el Mode: @ 148 C 148 C PP C PP C 148	33 Bridged 33 MER P over Ethernet(PI P over ATM(PPPo 33 Routed	⊐PoE) A)			
					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	hannel Mode: C 1483 Bridged C 1483 MER C PPP over Ethernet(PPPoE) C PPP over ATM(PPPoA) C 1483 Routed					
	WAN I	P Settings: @ C W Ne Ge	Cobtain an IP addr Use the following AN IP: atmask: ateway:	ess automatically IP address:			
	Defaul	t Route: 🤉	Enable C Disable	в	,		
	DNS S	ettings: @ C Pr Se	Obtain DNS Autor Use the following imary DNS Server: econdary DNS Serv	matically DNS server address er:	S:		
					BACK	IEXT	

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

PPPoE

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	fode of WAN Inter	face.			
	PVC S	etting: VPI:) (0-255) ∨	ci: 35 (32-	65535)		
	Encap	sulation: 🖲 📖	C/SNAP C VC-M	ux			
	Channel Mode: C 1483 Bridged C 1483 MER C PPP over Ethemet(PPPoE) C PPP over ATM(PPPoA) C 1483 Routed						
	PPP Se	ettings: User N	Jame:		Password:		
	Default	t Route: 🔍 En	able C Disable				
	DNS S	ettings: 💿 Ob	tain DNS Automa	tically			
		C Us	e the following DN	S server address:			
		Prima	ry 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 s	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: ⊂14	B3 Bridged				
		C 14	B3 MER				
		CPF	P over Ethernet(P	PPoE)			
		• PF	P over ATM(PPPc	A)			
		C 14	B3 Routed				
	PPP S	ettings: User M	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:				
		Secor	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:			
		٧	VAN IP:				
		N	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	N [®]						
LAN IP	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
LAH IP DHCP DHCP Static IP	LAN This page change th Interface IP Addne Subnet M Ges IGMP Sn Apply	Interface S is used to configure we setting for IP add Name: e1 ss: [19 Aask: 25 mdary IP ooping: C Changes	Setup e the LAN interface esss, subnet mask 2.168.1.1 6.265.265.0 Disable C Enab	of your ADSL Ro r, etc	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						
	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 IF	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 DHCP LAN IP Ad This page (1)Enable (2)Enable on the L2)Enable on the L2)Enable On the L2)Enable On the L2)Enable On the L2)Enable DHCP Mo- IP Pool R, Default Gateway; Max Leas Domain N	VAU Mode dress: 192.163.1. can be used to co he DHCP Server he DHCP Relay i he DHCP Relay i he DHCP Relay i he OHCP Relay i he OHCP Relay i he Comparison of the other he comparison of the	1 Subnet Mask: 2 onfig the DHCP mod if you are using this cets on your LAN. T it Internet access. f you are using the cets bHCP server ▼ 192.168.1.2 192.168.1.1 1440 domain name ado	55,255,255,0 E: None, DHCP Rel device as a DHCP he device as a DHCP he device distribut ther DHCP server dress. nothing when the - 192,168,1,2 minutes	ay or DHCP Server. 'server. This page lie es numbers in the pc to assign IP address hosts request a IP a	ts the IP ol to hosts on to your hosts dddress. rent	
	261	venuororass 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
	Windows95, Windows NT and other systems that
	support the DHCP client.
	It specifies the first and the last of contiguous IP
IP Pool Range	address of the IP address pool.
Show Client	Click it, the Active DHCP Client Table page appears.
	It shows the assigned IP address of the clients.

Field	Description
Default	Enter the IP default gateway of the IP address pool.
Gateway	
Max Loopo	The lease time determines the period that the PCs
Timo	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.

Name	IP Address	MAC Address	Expiry(s)	Туре
Refresh	Close			

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.
MAC Address	It displays the MAC address of the PC. Each Ethernet device has a unique 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 modify 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	N [☉]						
DHCP	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
LAH IP DHCP DHCP Static IP	DHCP Mode LAN IP Address: 192.168.1.1 Subnet Mask: 255.255.255.0 Xin Ip Address: available to hosts on your LAN. The device distributes numbers in the pool to hosts on your network as the public Parent access. Q/Enable the DHCP Relay if you are using the other DHCP server to assign IP address to your hosts on the LAN. You can set the DHCP server ip address. (3) If you choose "None", then the modern will do nothing when the hosts request a IP address. DHCP Mode: None Apply Changes Undo				1		
					3		

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	LAN IP Address: 192.168.1.1. Subher Mask: 256.256.26.0 This page can be used to config the DHCP mode.None.DHCP Relay or DHCP Server. (1)Enable the DHCP Server if you are using this device as a DHCP server. This page lists the IP address pools available to hosts on your LAN. The device distributes numbers in the pool to hosts on your network as they request Internet access. (2)Enable the DHCP Relay if you are using the other DHCP server to assign IP address to your hosts on the LAN. You can set the DHCP server ip address. (3)If you choose "None", then the modern will do nothing when the hosts request a IP address.						
	DHCP Moo Relay Ser	le: ver: 192.168.2.2	DHCP Relay	•			
	Apply C	Hanges 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.

nodes of your ADSL "Manual", the "Connect" and 	WLAN ration e parameters for the nect type of PPPol e.	WAN Inel Configue is used to configure t Router. Note : When co ect" button will be ena	II Char g g This pag Modem/i	WAN ATM Setting ADSL Setting
nodes of your ADSL "Manual", the "Connect" and 	ration e parameters for the nect type of PPPol e.	Inel Configue e is used to configure t Router. Note : When co ect" button will be ena	u Char	WAII ATM Setting ADSL Setting
nodes of your ADSL "Manual", the "Connect" and 	e parameters for the nect type of PPPol e.	e is used to configure t Router. Note : When co ect" button will be ena	g This pag Modem/F	ADSL Setting
			"Disconr	ADSL Setting
C-Mux	uto 🕫 Specified	Route Selection: O	Default I	
	Encapsula	vci:	VPI: 0	
	Enable NA	Mode: 1483 Bridged GMP:	Channel Enable I	
rd:		tings: User Name	PPP Set	
ie (min):	Continuous	Type:		
ρ	@ Fixed IP	Settings: Type:	WAN IP	
10		Local IP Address:		
;	,	Netmask:		
:			Default	
	@ Enable	Route: C Disable ered C	Unnumb	
P	@ Fixed IP	Settings: Type: Local IP Address: Netmask:	WAN IP Default	
rd:	Continuous	mode: 1 403 Bridged GMP: tings: User Name Type: Settings: Type: Local IP Address: Netmask:	Channel Enable PPP Set	

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
VI 1	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 Made	You can choose 1483 Bridged, 1483 MER,
Channel Mode	PPPoE, PPPoA, or 1483 Routed.
	Select it to enable the NAPT function of the
ENADIE NAF I	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	
Lisor Namo	The correct user name that your ISP has
User Marrie	provided to you.
Decoword	The correct password that your ISP has
Password	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	
	You can choose Fixed IP or DHCP. If select
	fixed IP, you should enter the local IP
Turne	address, remote IP address and subnet
туре	mask. If set to use DHCP, the router is a
	DHCP client, the WAN IP address is
	assigned by the remote DHCP server.
	It is the IP address of WAN interface that is
Local IP Address	provided by your ISP.
Domoto ID Addroop	This is the gateway IP address that is
Remote IP Address	provided by your ISP.
Netmask	It is the subnet mask of the local IP address.
Unnumborod	Select this checkbox to enable IP
	Unnumbered function.
Add	After configuring the parameters of this page,
Auu	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.					
l I	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	ol:	PPF	юЕ					
	ATM V	CC:	0/32						
	Login I	Vame:	adn	in1@9803.com					
	Passw	ord:	•••	•••					
	Authen	ntication Metho	d: AUI	0 🕶					
	Conne	ction Type:	Cor	tinuous	-				
	Idle Tin	ne(s):	0						
	Bridge: C Bridged Ethernet (Transparent Bridging)								
	C Bridged PPPoE (implies Bridged Ethernet)								
			• [)isable Bridge					
	AC-Na	me:							
	Service	e-Name:							
	802.1q	:	۹ ()isable CEnab	le				
			VLA	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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ATM Setting	Status	Wizard	Network	Service	Advar	nce	Admin	Diagnostic
	LAN	WAN	WLA	4				
WAII	ATM This pag you may VPI: PCR: Apply	settings e is used to config change the settin vcl: cDvT: y Changes	jure the paramete g for VPI, VCI, Q QoS:	urs for the ATM of oS etc	of your ADSL Ro	outer. Here		
	Current A	ATM VC Table:						
	Select	VPI VCI	QoS	PCR CDV	r 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.

ADDO Extending flexibilities for p	N [⊕]						
ADSL Setting	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
WAII ATM Setting	ADSL	Settings					
ADSL Setting	Adsl Settin	gs.					
	ADSL mot	lulation:					
			G.Lite				
		5	3.Dmt				
		· 되	1.413				
		. 되	ADSL2				
		. ସ	ADSL2+				
	AnnexL 0	ption:					
		•	Enabled				
	AnnexM 0	ption:					
			Enabled				
	ADSL Cap	ability:					
		1 2	Bitswap Enable				
		1	SRA Enable				
	Apply C	hanges					

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[®]

	1.544						
WLAN	Status W	izard	Network	Service	Advance	Admin	Diagnostic
	LAN	WAN	WLAN				
Basic Setting Security Access Control multi-SSID Advance Setting WPS	Wireless I This page is used connect to your A, well as wireless in Disable Wire Band: Mode: SSID: Country/Area: Channel Number Radio Power (Percent): Associated Clian	Basic S to configure cess Point. etwork param eless LAN In 2.4 GH AP ADD-GV UNITED 100% 100%	Settings the parameters for Here you may chan terface Iz (B+G) VAR3650 VAR3650 Current Chant Current Chant Market Clients	wireless LAN clien nge wireless encry wireless encry vel: 6	ts which may plion settings as		
	Apply Changes	3					

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
000	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	This pag Encrypti	e allows you setup on Keys could prev	the wireless securi ent any unauthorize	ty. Turn on WEP ed access to you	or WPA by using wireless network.		
Advance Setting	SSID TY	PE:	€ Root CN	AP0 C VAP1	C VAP2 C VAP3	}	
WPS	Encrypt	ion: None	 Set WEP 	Key			
	🗆 Use 🕯	802.1x Authentica	tion 🔍 WEP 64bi	ts 🥥 WEP 128b	iits		
	WPA Au	ithentication Mod	e: 🤍 Enterprise	(RADIUS) @ P	ersonal (Pre-Shared	Key)	
	Pre-Sha	red Key Format:	Passphrase	*			
	Pre-Sha	red Key:	\$1.5.5.5.5.5.5.5.5				
	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					

Field	Description
Encryption	Configure the wireless encryption mode. You can
	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.
Set WEP Key	It is available when you set the encryption mode to WEP . Click it, the Wireless WEP Key Setup page appears.
WPA Authentication Mode	 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 server. You need to enter the username and 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

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	lf you ch in the ac Listed' is Access F	cose 'Allowed List cess control list w selected, these w Point.	ed', only those clien vill be able to connec vireless clients on th	ts whose wireless t to your Access e list will not be a	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	dress	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	SSID:	apu	DAT AN OOD	1			
	broadcast SS	ID:	@ Enable	C Disable			
	Authenticatio	n Type:	C Open S	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	stem 🥤 Shared I	<ey @="" auto<="" td=""><td></td><td></td></ey>		
	Apply Char	nges					

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 p	N [®]							
Advance Setting	Status	Wizard	Netwo	ik :	Service	Advance	Admin	Diagnostic
	LAN	WAN	- L	WLAN				
Basic Setting Security Access Control muth-SSID Advance Setting WPS	Lan Wirel These se knowledg know wha Authenti Fragmer RTS Thre Beacon DTIM Into Data Rat Preambl Broadca Relay Bl Ethemet Blocking Wiff Mult Unicast	vxtr ess Adv trings are only for a about wirelessed at effect the char eshold: interval: e: e Type: st SSID: ocking: to Wireless ticast to	C Open Sy 2346 2347 170 1 Auto C Enabled C Enabled C Enabled C Enabled	MLAN Setting cally advance settings shou on your Acce on your Acce stem C Sh (256-2344 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (20-1024 (0-2347) (0-2342) (0-2347) (0-2342) (0-2347) (0-2342) (0-234) (0-2342) (0-234)	S Id users white ess Point. ared Key () ms) hort Preamb	o have a sufficient anged unless you ? Auto	_	
	WMM:		C Enabled	Oisablec				
	Apply	Changes						

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.
Dreadcast CCID	• 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 page this feature connect to	allows you to cha could let your w the Access Poir	ange the setting for ireless client autom it in a minute witho	WPS (Wi-Fi Prot nically syncronize ut any hassle.	ected Setup). Using its setting and		
Advance Setting	🗆 Disat	le WPS					
WPS	WPS Stat	us:	Configur	ed @ UnConfig	ured	_	
	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	DN [®]						
DNS	Status	Wizard	Network	Service	Advand	ce Admin	Diagnostic
	DNS	Firewall	UPNP	IGMP	Proxy	TR-069	ACL
DHS	DNS (This page i G Anta C Set DN: DN: Apply (Configur s used to config ain DNS Autom DNS Manually S 1: S 2: S 3: Changes	ation ure the DNS server atically 0.000 Comparison Reset Selected	ip addresses fo	r 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 per	N [®]						
DDNS	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	DNS	Firewall	UPNP	IGMP	Proxy	TR-069	ACL
DHS <u>DDHS</u>	DHS Firew DHS DDHS DDHS This page is used to cc Here you can Add/Ren DDNS provider: Hostname: Interface: Enable: DynDns Settings: Username: Password: TZO Settings:		S Configur igure the Dynamic I ve to configure Dyna DynDNS org pppo81 v	ation DNS address from mic DNS.	n DynDNS.org or	TZO.	
	Kev:				_		
	Add Dynamic Select	Remove DDNS Table: State Ser	vice Hos	stname	Username	Interface	

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.

Extending flexibilities for p	N [®]						
IPPort Filter	Status	Wizard	Network	Service	Adva	nce A	idmin Diagnostic
	DNS	Firewal	I UPNP	IGN	IP Proxy	TR-069	ACL
IPPort Filter MAC Filter URL Blocking Virtual Server DMZ Setting ALG Setting DoS Setting	IP/Pol Entries in Internet th network. Outgoing Incoming	rt Filter this table are rough the Gat Default Actio Default Actio	ing used to restrict certa eway. Use of such fi n: @ Permit @ D on: @ Permit @ D	ain types of dat Iters can be hei Ieny Ieny	a packets fro pful in securi	m your local net ng or restricting	twork to your local
	Rule Actin Protocol: Source IP Dest IP Ar SPort: Enable: Apply Current Fi	on: Address: Idress: Changes Iter Table:	C Permit C Der	ny Dir Ma Ma DP	ection: sk Address: sk Address: ort:	Outgoing 255 255 255 2 255 255 255 2	266

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	MAC Entries in Internet t network. Outgoing	Filtering this table are use hrough the Gateward g Default Policy g Default Policy	ed to restrict certain ay. Use of such filte C Deny	types of data p rs can be helpfu w	ackets from you I in securing or	r local network to restricting your loc	ai
	Apply Direction Action: Source I Destinat Add Current I	n: MAC: ion MAC: MAC Filter Table: ct Direction	Outgoing Course MA	ex. 00E0867105 ex. 00E0867105 c	02) 02) Destination M/	sc Activ	n

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.

Extending flexibilities for p	N [©]						
URL Blocking	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	URL E This page keyword. URL Block Apply C	Blocking is used to config king Capability: Changes	Configui	ration (word. Here you d Oisable	an add/delete f `Enable	iltered	
	Keyword: AddKey URL Black	word [Delete Selected K	eyword			
	Select	Filtered	Keyword				

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	The page	allow you to config	ı virtual server,so oth	ers can access th	e server through th	ne	
Virtual Server	Gateway.						
DMZ Setting	Service T	vpe:					
ALG Setting	O Usua	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					

Field	Description				
	You can choose the common service type, such as				
	name.				
Service Type	 If you choose the common service type, the corresponding WAN communication port/service host communication port has the default settings. If you define service type, you need to enter the 				
	Choose the transport layer protocol that the service				
Protocol	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.

ê A	DD	ON°
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DMZ Setting	Status	Wizard	Network	Service	Advance	Admin	Diagnostic	
	DNS	Firewall	UPNP	IGMP Pr	oxy TR	-069	ACL	
IPPort Filter MAC Filter URL Blocking Virtual Server DMZ Setting ALG Setting DoS Setting	A Demilit unauthori devices a SMTP (e-	arized Zone is used zed access to its lo ccessible to Internet mail) servers and DI ble DMZ	to provide Interne cal private networ traffic, such as ¹ VS servers.	t services without k. Typically, the D Web (HTTP) servi	sacrificing IMZ host contains rrs, FTP servers,			
	Apply	Changes Re	set					

- 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.

	0						
Extending flexibilities for p	people						
ALG Setting	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	DNS	Firewall	UPNP	IGMP Pro	xxy TR-0	59	ACL
IPPort Filter MAC Filter URL Blocking	NAT A	LG and F	Pass-Thro	ough			
Virtual Server	IPSec Pas	s-Through:	✓ Enable				
DMZ Setting	L2TP Pass	-Through:	🔽 Enable				
ALG Setting	PPTP Pas	s-Through:	🗹 Enable				
DoS Setting	FTP:		🔽 Enable				
	H.323:		🗹 Enable				
	SIP:		🔽 Enable				
	RTSP:		🗹 Enable				
	ICQ:		🗹 Enable				
	MSN:		🗹 Enable				
	Apply 0	Changes Re	set				

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	sime of the same second in the state of the same
Virtual Server	legitimate users of a service from using that s	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	
	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:	ky TR-069		ACL		
UPHP	UPnP This page UPnP. UPnP: WAN Inter Apply C	Configu is used to config rface: Changes	ure UPnP. The syst	em acts as a daem able © Enable a 1 💌	ion 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.

ADDO Extending flexibilities for p	N [☉]							
IGMP Proxy	Status	Wizard	Network	Service	Advance	Admin	Diagnos	stic
	DNS	Firewall	UPNP	IGMP Pr	oxy TR	069	ACL	
IGMP Proxy	IGMP pro the syste for its ho	P Proxy Co and the system m discovered through IGMP proxy on WAN IGMP on LAN interface oxy: 1 Allowed: Count: mber Query Count: teterval: eave Delay: Changes Under	nfiguratic em to issue IGMP h standard IGMP i interface (upstex ce (downstream), C Dis- C DIS	host messages nterfaces. The s www: am), which connects which connects able @ Enable (seconds) (*100ms) (ms)	on behalf of hosts ystem acts as a p acts to a router rur to its hosts.	that roxy nning		

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.	figure the TR-069 CPE. Here you may change the setting for							
	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:	••••							
	Path:	/tr069							
	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	Reset							
	Certificate Management:								
	CPE Certificate Password:	client Apply Undo							
	CPE Certificate:	Browse Upload							
	CA Certificate:	Browse Upload							

The fall and a state late	deservite seattle s			1	- 6 41- 1-	
The following table	describes the	parameters	and	Duttons	of this	page.

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 Direction s	Configurat pecify what service his ACL table are to his ACL table are to work to the Gatew ich access control Select: C LAN	tion s are accessable used to permit ce ay. can be helpful in C WAN C Enable	form LAN or WAN rtain types of data securing or restric	I parts. packets from you ting the Gateway Disable	r local network or managment. 	1
	IP Address Services A F Any Add R Current AC	: llowed: eset L Table: Direction		(The	e IP 0.0.0.0 represi	ent any IP) Port Action	-

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.			
۸dd	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.

ADDC Extending flexibilities for p	N [©]						
	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Bridge Setting	Routing	Port Mapping	QoS	SN	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:	@ Disa	bled C Enable	ed		
	Apply C	hanges U	ndo Show MACs				

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	ing Table - M	licrosoft Int	ernet Explorer	
Forwarding	Table	;		K
MAC Address	Port	Type	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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	Status	Wizard	Network	Service	Advance	Admin	Diagnost
	Bridge Setting	Routing	Port Mapping	QoS	SNM	Р	Others
Static Route RIP	Routir	ng Config	guration				
	This page is routes.	s used to configu	re the routing inform	nation. Here you o	an add/delete IP		
	Enable:		v				
	Destination	1:					
	Subnet Ma	isk:					
	Next Hop:						
	Metric:		1				
			-				
	Interface:						

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	9					

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				
	Enable the with others attention: it	RIP if you are using the Routin you want to ena	sing this device as ng Information Proto ble RIP, please ma	a RIP-enabled rout ocol. ake sure remote co	er to communicate ontrol is enabled.		
	RIP:		€Off COn	Apply	J		
	interface: Recv Vers	ion:	br0 RIP1 <u>-</u>	•]			
	Send Vers Add De Rip Config	ion: elete List:	RIP1 <u></u>	1			
	Select	inter	ace R	ecv Version	Send Version		

The following lable describes the parameters and buttons of this page.	The	following	table	describes	the	parameters	and	buttons	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:
	QoS Rule List:
	stream rule behavior
	src IP src Port dest IP Port proto prot Preced ToS 802.1p wan sel
	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

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	SNMF This page for system V Enab System D System L Trap IP A Commun only Commun write)	P Protocol is used to config description escription escription ontact ame occation ddress ity name (read- binges F	ADSL SoHo Router ADSL SoHo Router ADSL SoHo Router ADSL public Reset	ol. Here you man	y change the settin	9	

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	DN [©]						
Others	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Bridge Setting	Routing	Port Mapping	QoS	SNN	IP	Others
Other	Other Here you c Half Bridge to Continue Half Bridge Interface: Apply C	Advancec an set other miscel : When enable Half us. e: © Disable interpretation of the set interpretation of the set inter	I Configur	ation ettings. E(PPPoA)'s cor	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.



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 Fir	mware	
	This page allows you upgrade the ADSL Router firmware to new version. Please note, do not power off the device during the upload because it may crash the system. Note:System will reboot after file is uploaded.		
	Select File:		Browse
	Upload Reset		

Field	Description			
Select File	Click Browse to select the firmware file.			
Upload	Select the firmware file and click Upload to begin			
-	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 Presses to colort the configuration file		
File	Click Browse to select the configuration 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.

Sustam Lag						
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					
	Event log Table:					
	Save Log to File Clean Log Table					
	Old 155 Zel New					
	Time Index Type Log Information					
	Thu Jan 1 0:0:10 1970 0 system uppp 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**.

ADDC Extending flexibilities for p	N [©]						
Password	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Commit/Reboot	Upgrade	System Log	Password	Time	Zone	
Password	Passw This page i user name User Nam New Pass Confirmer Set to Def Password Apply C	vord Setup is used to set the a and password will e: adm word: 1 Password: ault hanges Re	D ccount to access th fisable the protection in •	e web server of AD n.	SL Router. En	npty	

The following table describes the parameters of this page:

Field	Description			
User Name	You can choose admin or user .			
New Deseword	Enter the password to which you want to change			
New Password	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	DN ⁰						
Time Zone	Status	Wizard	Network	Service	Advance	Admin	Diagnostic
	Commit/Reboot	Upgrade	System Lo	g Password	Time 2	Zone	
Time Zone	CommitRebaot Syste This page you can ct parameter arrest System Ti Apply C MTP Confil State: Server: [Server2: [Interval: [Time Zone: GMT time:	Upgrade m Time (is used to configure inange the setting me: 1970 min[17 changes Rei guration: every[1 (GMT) Gambia, L fru Jan 11:6:17	System Lo Config urat is or view some info year Jan V mor soc soc set able Liberia, Morocco, E 1970	Pessword Pessword rand Network Time [day[SPotocol(NTP) se m time and NTP m time and NTP	zone	
	Apply C NTP Start	changes Re:	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.

ADDO Extending flexibilities for p	N [®]					
Diagnostic	Status	Wizard	Network	Service Ad	Nance 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	Diagnostic ADSL						
	Adsl Tone Diag	nostic						
	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				
	Tono Number	LI Deal	Illmore	CND	OLN	lller		
		n neeal		-32 D	-102.5	-96.3		
	1	0.000	0.000	-32.0	-102.0	-30.3		
	2	0.000	0.000	-32.0	-107.5	-96.3		
	3	0.000	0.000	-32.0	-107.5	-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.