

DSL-N10E 11n Wireless Router



User Manual

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About this guide

This user guide contains information that you need to install and configure the ASUS Wireless Router.

How this guide is organized

This guide contains the following parts:

Chapter 1: Knowing your wireless router

This chapter provides information on the package contents, system requirements, hardware features, and LED indicators of the ASUS Wireless Router.

· Chapter 2: Getting started

This chapter provides instructions on accessing the router's web GUI and quickly setting up the Internet connection via the Quick Internet Setup (QIS) function.

· Chapter 3: Configuring the network clients

This chapter provides instructions on setting up the clients in your network to work with your ASUS Wireless Router.

Chapter 4: Configuring via the web GUI

This chapter provides instructions on configuring the ASUS Wireless Router's Internet service settings, advanced settings, administration settings, diagnostic settings, and your router's working status.

· Chapter 5: Troubleshooting

This chapter provides you with a troubleshooting guide for solving common problems you may encounter when using the ASUS Wireless Router.

Appendices

This chapter provides you with the regulatory Notices and Safety Statements.

Conventions used in this guide



WARNING: Information to prevent injury to yourself when trying to complete a task.

CAUTION: Information to prevent damage to the components when trying to complete a task.

IMPORTANT: Instructions that you MUST follow to complete a task.



NOTE: Tips and additional information to aid in completing a task.

Knowing your wireless router

Package contents

Check the following items in your ASUS Wireless Router package.

- DSL-N10E Wireless Router x1
- External splitter x1
- Power adapter x1
- RJ11 cable x2
- Support CD x1
- RJ45 cable x1
- Quick Start Guide x1



Note: If any of the items is damaged or missing, contact your retailer.

System requirements

Before installing the ASUS Wireless Router, ensure that your system/network meets the following requirements:

- An Ethernet RJ-45 port (10Base-T/100Base-TX)
- · At least one IEEE 802.11b/g/n device with wireless capability
- An installed TCP/IP and Internet browser
- · Operating system: Windows98®SE and higher

Before you proceed

Take note of the following guidelines before installing the ASUS Wireless Router:

- The length of the Ethernet cable that connects the device to the network (hub, ADSL/cable modem, router, wall patch) must not exceed 100 meters.
- Place the device on a flat and stable surface as far from the ground as possible.
- · Keep the device clear from metal obstructions and away from direct sunlight.

- Keep the device away from transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, and other industrial equipment to prevent signal loss.
- Install the device in a central area to provide ideal coverage for all wireless
 mobile devices.
- Install the device at least 20cm from a person to insure that the product is operated in accordance with the RF Guidelines for Human Exposure adopted by the Federal Communications Commission.

Hardware features

Top panel

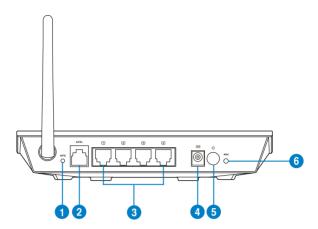


LED	Status	Indication
	Off	No power
Ö	On	Power on
	Slow Flash	No signal detected
ADSL	Fast Flash	The device is synchronizing with the DSL device
	On	The device is connected to the DSL device.

Status indicators

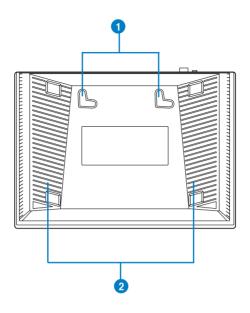
LED	Status	Indication
	Off	No connection or in bridge mode.
E	Flashing	Internet data is transmitted in the routing mode.
	On	The Internet connection is normal in the routing mode and no Internet data is being transmitted.
	Off	No power or no physical connection
12	On	Has physical connection to an Ethernet network.
[3][4]	Flashing	Transmitting or receiving data (through Ethernet cable)
	Off	Inactive WLAN connection
((•))	On	Active WLAN connection
• • •	Flashing	Transmitting data through the WLAN interface
	Off	Inactive WPS connection
WPS	On	WPS connection is successful
	Flashing	WPS is active and the wireless router is waiting for the client to successfully connect to it.

Rear panel



Item	Description
1	WPS button Press this button for more than five seconds to enable the WPS function.
	Note: If you press the button for one to five seconds, no function takes effect.
2	ADSL port
	Connect an RJ-11 telephone cable to this port or a splitter connected from this port.
3	LAN 1 ~ 4 ports
	Connect RJ-45 Ethernet cables to these ports to establish LAN connection.
4	Power (DC-In) port
	Insert the AC adapter into this port to connect your router to a power source.
5	Power switch
	Press this button to turn the power on/off.
6	Reset button
	Using a pointed blunt object, press this button for more than one second to reset the system to its factory default settings.

Bottom panel



Item	Description
1	Mounting hooks Use the mounting hooks to mount your router on concrete or wooden surfaces using two round head screws.
2	Air vents These vents provide ventilation to your router.



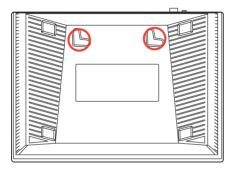
Note: For details on mounting your router on a wall or ceiling, refer to the section Mounting options on the next page of this user manual.

Mounting options

The ASUS Wireless Router is designed to sit on a raised flat surface like a file cabinet or book shelf. The unit may also be converted for mounting to a wall or ceiling.

To mount the ASUS Wireless Router:

- 1. Look on the underside for the two mounting hooks.
- 2. Mark two upper holes on a flat surface.
- 3. Tighten two screws until only 1/4" is showing.
- 4. Latch the hooks of the ASUS Wireless Router onto the screws.





Note: Re-adjust the screws if you cannot latch the ASUS Wireless Router onto it or if it is too loose.



Setting up the wireless router

The ASUS Wireless Router includes a web graphics user interface (web GUI) that allows you to configure the wireless router using your web browser on your computer.



Note: For details on configuring your wireless router using the web GUI, refer to Chapter 4: Configuring via the web GUI.

Accessing the router's web GUI

To access the router's web GUI:

- 1. In your web browser, key in http://192.168.1.1.
- 2. Key in the user name and password. You may choose to log in as administrator (user name/password: admin) or as an ordinary user (user name/password: user/user).

Connect to 192.	168.1.1 ? 🔀
<u>U</u> ser name: <u>P</u> assword:	Remember my password
	OK Cancel



Note: When you log in as the administrator, the Quick Internet Setup (QIS) Wizard is displayed. For details about the QIS Wizard, refer to the next section Using the Quick Internet Setup (QIS).

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Using the Quick Internet Setup (QIS)

The Quick Internet Setup (QIS) function guides you in quickly setting up your Internet connection.



- 1. Click Quick Internet Setup.
- 2. In Step 1: Web Account Setup page, key in the necessary information and click Next.

Quick Internet Setup Network Internet Service Advanced Setting Administration	access. Step 1: Web Account Setup Step 2: Time Zone Setup	eps, you will be o	nico step by clep. Inne and free to anjoy high speed Internet	
 Diagnostic Router Status 	Step 3: WAN Interface Setup Step 4: WLAN Interface Setu Step 5: Configuration Saving			
	Step 1: Web Account 5	Setup		u.
	Set a new account for access	sing the Web serve	r of the device.	
	User Name:	admin 👻		
	New Password:		(MaxLength: 15)	
	Confirmed Password:		(MaxLength: 15)	
			Next	

3. In **Step 2: Time Zone Setup** page, tick **Enable** to enable the NTP function, and key in the necessary information. Click **Next**.

Quick Internet Setup	Quick Internet Setup	
Network	Step 2: Time Zon Set up the system tim	e Setup e and the Network Tume Protocol (NTP) server.
Advanced Setting	NTP Configuration: State:	⊖ Disable ⊛ Enable
Diagnostic	Server: Interval:	pool.ntp.org Every 1 hours
Kouter status	Time Zone: GMT time:	(GMT) Gambia, Liberia, Morocco, England • Thu Jan 1 0 29:42 1970 Back Neat

4. In Step 3: WAN Interface Setup page, fill in the necessary information, and click Next.

	Quick Internet Setup	
Quick Internet Setup		
Network	Step 3: WAN Interface Setup	
Internet Service Advanced Setting Administration Diagnostic Router Status	Internet service provider (ISP) is avail: (1) Select the country. (2) Select the ISP. Note: If the country and ISP are not a	ADS), settings of the device. A predefined list of country and balls for easy configuration. Natilable on the drog-down list, you can select Offlars. In this case, connection type, instructly end the VPI and VoI. For the Conect
	(4) Click "Next" to continue.	
	ISP Protocol	8 (0-255)
		Back

5. In **Step 4: WLAN Interface Setup** page, set up the parameter for your WLAN network.

	Quick Internet		
Quick Internet Setup	Jetup		
Network	Step 4: WLAN Interface Set	up	
Internet Service	Set up the parameters of WLAN int	erface.	
Advanced Setting	WLAN Interface:	Enable ODisable	
Administration	Band:	2.4 GHz(B+G+N) 🝷	
Diagnostic	SSID:	ASUS	
Router Status	Encryption:	None -	
			Back Next



Notes:

- Do not include quotation marks (" or ') in your SSID or use spaces as the start of your SSID.
- For WPA pre-shared key and WEP key settings, neither use quotation marks (" or '), angle brackets (>), square brackets (]) and spaces as the start of your key nor use two spaces in between.

6. In **Step 5: Configuration Saving** page, click **Finish** to save the configuration settings. Click **Back** to modify the settings. Click **Reset** to cancel the settings.

	wick Internet
Quick Internet Setup	er Setup
Network	Step 5:Configuration Saving
Internet Service	Click "Finish" to save the settings. Click "Back" to make more modifications. Click "Reset" to cancel the settings.
Advanced Setting	
Administration	The parameters you set: User Name: admin
Diagnostic	Password: admin NTP State: Enable
Router Status	NTP Server IP: pool.ntp.org NTP Interval: 1
	Time Zone: 8 VPI: 8
	VCI: 35
	Encapsulation: LLC/SNAP
	Channel Mode: pppoe
	ppp User Name: admin ppp Password: admin
	DNS Settings: Obtain DNS Automatically
	WLAN Interface: Enable
	Back Finish Reset

Configuring the network clients

Managing your network clients

To manage your network clients to your ASUS Wireless Router, you must have the correct parameters for wireless, LAN, and WAN connection types. Ensure that the clients' IP addresses are within the same subnet as the ASUS Wireless Router.

By default, the ASUS Wireless Router integrates the DHCP server function that automatically assigns the IP addresses to the clients in your network. You may also manually assign the static IP addresses to selected clients in your network.



Note: ASUS recommends the following settings in establishing a manually assigned IP addresses to your client in the Router mode:

- IP address: 192.168.1.xxx (xxx can be any number between 2 and 254. Ensure that the IP address is not used by another device)
- · Subnet Mask: 255.255.255.0 (same as the ASUS Wireless Router)
- · Gateway: 192.168.1.1 (IP address of the ASUS Wireless Router)
- · DNS: 192.168.1.1 (ASUS Wireless Router) or assign a known DNS server in your network

Windows® 2000

1. Click Start > Control Panel > Network and Dial-up Connection. Right-click Local Area Connection, then click Properties.



- 2. Select Internet Protocol (TCP/IP), then click Properties.
- Select Obtain an IP address automatically if you want the IP settings to be assigned automatically. Otherwise, select Use the following IP address: and key in IP address, Subnet mask, and Default gateway.
- Select Obtain DNS server address automatically if you want the DNS server settings to be assigned automatically. Otherwise, select Use the following DNS server addresses: and key in the Preferred and Alternate DNS server.
- 5. Click OK when done.

meral 'ou can get IP settings assigne nis capability. Otherwise, you n ne appropriate IP settings.			
Obtain an IP address auto	natically		
C Use the following IP addre	\$8:		
IP address:]
			1
Default gateway:]
Obtain DNS server addres	s automatically		
C Use the following DNS ser	ver addresses:		
Preferred DNS server:]
Alternate DNS server:			1
		Ad⊻a	nced

Windows® XP

 Click Start > Control Panel > Network Connection. Right-click Local Area Connection, then select Properties.

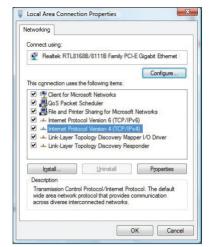


- 2. Select Internet Protocol (TCP/IP), then click Properties.
- Select Obtain an IP address automatically if you want the IP settings to be assigned automatically. Otherwise, select Use the following IP address: and key in IP address, Subnet mask, and Default gateway.
- Select Obtain DNS server address automatically if you want the DNS server settings to be assigned automatically. Otherwise, select Use the following DNS server addresses: and key in the Preferred and Alternate DNS server.
- 5. Click OK when done.

Internet	t Protocol (TCP/IP) Properties	
General	Alternate Configuration	
this cap	an get IP settings assigned automatically if your network supports spability. Otherwise, you need to ask your network administrator for propriate IP settings.	
() O	Dbtain an IP address automatically	
-OU:	Jse the following IP address:	
IP ac	address:	
Subr	bnet mask:	
Defa	fault gateway:	
⊙ 0I	Dbtain DNS server address automatically	
-OU:	Jse the following DNS server addresses:	
Prefe	ferred DNS server:	
Alter	ernate DNS server:	
	Advanced	
	OK Cance	9

Windows® Vista/7

1. Click Start > Control Panel > Network and Internet > Network and Sharing Center. Click View status > Properties > Continue.



- 2. Select Internet Protocol Version 4 (TCP/IPv4), then click Properties.
- 3. Select Obtain an IP address automatically if you want the IP settings to be assigned automatically. Otherwise, select Use the following IP address: and key in IP address and Subnet mask.
- 4. Select Obtain DNS server address automatically if you want the DNS server settings to be assigned automatically. Otherwise, select Use the following DNS server addresses: and key in the Preferred and Alternate DNS server.
- 5. Click OK when done.

eneral	Alternate Configuration						
this cap	n get IP settings assigned a aability. Otherwise, you ne appropriate IP settings.						
00	btain an IP address autom	atically					
OU	se the following IP address						
ĮP a	ddress:		•	4			
Subr	net mask:				2		
Defa	ault gateway:	192	. 16	8.	Ĺ.,	1	
00	btain DNS server address	utomatical					
	se the following DNS serve						
Pref	erred DNS server:		2	- Sa.	4		
Alter	mate DNS server:						
					A	d <u>v</u> anc	ed



Configuring the network settings

The Network page allows you to configure the settings of these three network types: **Wireless**, **LAN**, and **WAN**.

Configuring the wireless network settings

The Wireless page allows you to configure the wireless settings.

Configuring the basic wireless network settings

and the second se							
Duick Internet Setup	Basic Setting		Access Multi Control Multi		lvanced letting	WPS	
> Network	Wirele						4
Internet Services			gure the parame	ers for you	ır wireless	network .	
Advanced Settings	🔲 Disab Band:		.4 GHz (B+G+N				E
Administration	Mode: SSID:		P 💌 SUS				
Diagnostic	Channel V Control Si		DMHZ 💌				
Router Status	Channel N Radio Pov	lumber: A	uto 💌 Curre	nt Channe	d: 6		E
	(Percent): Associated	10	00% 💌 Show Active Cli	ents			
	Apply Ch	langes					

To configure the wireless network settings:

- 1. Click Network > Wireless tab.
- In the Basic Setting page, key in the necessary information to configure the parameters for your wireless network. Tick Disable Wireless LAN Interface to disable the WLAN interface.
- 3. Click **Apply Changes** to apply the settings made.



Notes:

- To display the active clients connected to your wireless network, click Show Active Clients.
- · Do not include quotation marks (" or ') in your SSID or use spaces as the start of your SSID.
- · Clicking the Refresh button of your browser will direct you to the QIS page.

Configuring the security settings

The Security page allows you to configure the security settings to protect your wireless network from unauthorized access.

	Wireless LAN WAN	
Quick Internet Setup	Basic Setting Security Access Multi-SSID Advanced WPS Setting	
> Network		< •
Internet Services	This page is used to configure wireless security mode. Set the encryption mode to WEP or WPA, which prevents any unauthorized access to your wireless network.	
Advanced Settings	SSID Type: Root VAP0 VAP1 VAP2 VAP3	Ξ
Administration	Encryption: None Encryption: None Encryption: VEP 64bits WEP 128bits	
Disease	WPA Authentication Mode: Enterprise (RADIUS) O Personal (Pre-Shared Key)	
Diagnostic	Pre-Shared Key Format: Passphrase	
Router Status	Pre-Shared Key:	
	Authentication RADIUS Port 1812 IP address 0.0.0 Password Server:	н
	Note: When encryption WEP is selected, you must set WEP key value.	
	Apply Changes	

To configure the security settings:

- 1. Click Network > Wireless tab > Security.
- 2. In the **Wireless Security Setup** screen, select a SSID, its encryption method and fill in its authentication settings.
- 3. Click **Apply Changes** to apply the settings made.



Note: For WPA pre-shared key and WEP key settings, neither use quotation marks (" or '), angle brackets (>), square brackets (]) and spaces as the start of your key nor use two spaces in between.

Controlling access to your wireless network

The Access Control page allows you to allow or deny specific clients from accessing your wireless network.

Quick Internet Setup	Basic Setting Security Access Control Multi-SSID Advanced Setting WPS	
> Network		1
Internet Services	This page is used to configure the wireless access control. If you set the wireless access control mode to Allowed Listed, only those clients whose wireless MAC addresses are in the access control list are allowed to connect to your access point (AP).	
Advanced Settings	If you set the wireless access control mode to Deny Listed, those clients whose wireless MAC addresses are in the access control list are blocked from connecting to your access point (AP).	Е
Administration	Wireless Access Control Mode: Disable Apply Changes	
Diagnostic		
Router Status	MAC Address: (ex. 00E086710502)	
		E
	Current Access Control List: MAC Address Select	
	MAC Audress Select	
	Delete Selected Delete All-	•

To control access to your wireless network:

- 1. Click Network > Wireless tab > Access Control.
- 2. In the Wireless Access Control Mode field, select the access control type.
- 3. In the **MAC Address** field, key in the client's MAC address and click **Add** to add it to the control list.
- 4. Click **Apply Changes** to apply the settings made.

Configuring the multi-SSID settings

The Multi-SSID page allows you to enable or disable a virtual access point (VAP) and set up its SSID and authentication type.

Duick Internet Setup	Basic Setting Security Access Control Multi-SSID Advanced WPS	
Network	Wireless Multiple BSSID Setup This page allows you to set vintal access points(VAP). Here you can enable/disable virtual AP, and set its SSID and authemication types (kc/ Yaphy Changes 'to take it effect.	×
Internet Services		
Advanced Settings	Enable VAP0	
	SSID: WLAN-0000	
Administration	Broadcast SSID: © Enable O Disable	
Diagnostic	Relay Blocking: C Enable Disable Authentication Type: Open System Shared Key Auto	
Diagnostic		
Router Status	Enable VAP1	
	SSID: WLAN-1111	
	Broadcast SSID: Enable Disable	
	Relay Blocking: O Enable O Disable	
	Authentication Type: Open System Shared Key Auto	
	Finable VAP2	
	SSID: WLAN-2222	
	Broadcast SSID: © Enable Disable	
	Relay Blocking: © Enable © Disable	
	Authentication Type: Open System Shared Key Auto	
	Enable VAP3	
	SSID: WLAN-3333	
	Broadcast SSID: © Enable Disable	
	Relay Blocking: Enable © Disable	
	Authentication Type: Open System Shared Key OAuto	
	Apply Changes	Ŧ

To configure the multi-SSID settings:

- 1. Click Network > Wireless tab > Multi-SSID.
- 2. Tick Enable VAPX to enable a VAP.
- 3. In the **SSID** filed, key in the SSID you want to use.
- 4. Select the Authentication type, and select **Enable** or **Disable** to enable or disable SSID broadcast and Relay Blocking.
- 5. Click **Apply Changes** to apply the settings made.



Note: To change the authentication configuration for each SSID, go to the Security tab for details.

Configuring the wireless advanced settings

The Advanced Setting page allows you to configure the advanced settings for your wireless network.

Important: Configure the advanced settings only if you have sufficient knowledge about wireless networking. If you are not an experienced or knowledgeable user, we recommend that you keep the default values.

Quick Internet Setup		Access Mult Control	i-SSID Advanced Setting	WPS	
Network			ttings		
Hothorn .	Those extrines can only b	o configurad by	toobnically advanced	users who have sufficient knowledge about	
Internet Services	wireless LAN. These setti	ngs should rema	in unchanged unless	s you know the effects from the changes you	
	have made to your access	s point (AP).			
Advanced Settings	Authentication Type:	Open Syste	em 🗢 Shared Key	· Auto	
	Fragment Threshold:	2346	(256-2346)	I AUTO	
Administration					
	RTS Threshold:	2347	(0-2347)		
Advanced Settings	Beacon Interval:	100	(20-1024 ms)		
	DTIM Interval:	1	(1-255)		
Administration	Data Rate:	Auto 💌			
	Preamble Type:		nble 💿 Short Prea	mble	
Advanced Settings	Broadcast SSID:		Disable		
	Relay Blocking:		Disable		
Administration	Ethernet to Wireless Blocking:	C Enable	Disable		
	Wifi Multicast to	Enable	Disable		
Diagnostic	Unicast:				
	Aggregation:		Disable		
Router Status	Short GI:	Enable C	Disable		
	Apply Changes				

To configure the wireless advanced settings:

- 1. Click Network > Wireless tab > Advanced Setting.
- In the Wireless Advanced Settings screen, select the Authentication type, fill in the threshold and interval settings, select the data rate and preamble type, and select Enable or Disable to enable or disable certain wireless functions.
- 3. Click Apply Changes to apply the settings made.

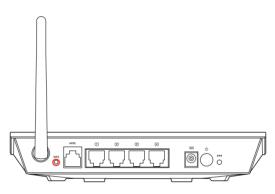
Setting up the Wi-Fi Protected Setup (WPS)

WPS (Wi-Fi Protected Setup) allows you to set up a secure and protected wireless network easily.



Note: Ensure that you use a wireless LAN adapter with WPS function.

To set up the WPS:



1. Press the WPS button on your router.

Quick Internet Setup	Basic Setting		ccess Multi-St ontrol	ID Advanced Setting	WPS			
> Network	Wi-Fi							
Internet Services			figure the Wi-FI F ts setting and cor				r wireless client to	
Advanced Settings	🗖 Disab	le WPS						
	WPS Stat	us:	Config	ured 💿 UnCo	nfigured			
Administration	Self-PIN N	lumber:	1583451	R	egenerate PI	N		
	Push Butte	on Configuratio	on: Start P	BC				
Diagnostic	Apply C	hanges						
Router Status	Client PIN	Number:		s	tart PIN			

- 2. Click Network > Wireless tab >WPS.
- Press the WPS button on the wireless LAN card and click Start PBC. You may also choose to key in the wireless LAN card's PIN code, then click Start PIN.



Note: Refer to the documentation that came with the wireless LAN card for the wireless LAN card's PIN code.

Configuring the local area network (LAN) settings

The LAN page allows you to configure your local area network (LAN) settings.

Configuring the LAN IP settings

The LAN IP Interface Setup page allows you to configure the interface of your local area network.

Vireless		WAN		
LANIP	DHCP DI	HCP Static IP		
LAN Inte	erface S			
This page is use	ed to configure		f your ADSL Router. Here you m	ау
inange tre eett	ing for a court	1000, 000/100 moon,		
Interface Nam	ie: e1			
P Address:	190	2.168.1.1		
Subnet Mask:	255	5.255.255.0		
Secondary	y IP			
IGMP Snoopin		Disable O Enable		
onn anoopn		Disable O Enable		
Apply Chang	es			
AN Port				
	unlay Madai	×		
Link Speed/Du	uplex Mode:	-	×	
	uplex Mode:	×	v	
Link Speed/Du Modify		<u> </u>	¥.	
LAN Port: Link Speed/Du Modify THERNET Sta Select	itus Table:	ort	Link Mode	
Link Speed/Du Modify	itus Table: P	ort NN1	Link Mode Auto Negotiation	
Link Speed/Du Modify THERNET Sta Select	itus Table: P L/	ort	Link Mode Auto Negotiation Auto Negotiation	
Link Speed/Du Modify ETHERNET Sta Select	itus Table: P L/ L/	ort AN1 AN1 AN2 AN3	Link Mode Auto Negotiation Auto Negotiation Auto Negotiation	
Link Speed/Du Modify THERNET Sta Select	itus Table: P L/ L/	ort	Link Mode Auto Negotiation Auto Negotiation	
Ink Speed/Du Modify THERNET Sta Select	itus Table: P L/ L/	ort AN1 AN1 AN2 AN3	Link Mode Auto Negotiation Auto Negotiation Auto Negotiation	
Link Speed/Du Modify THERNET Sta Select	itus Table: P LA LA LA	ort	Link Mode Auto Negotiation Auto Negotiation Auto Negotiation	
Ink Speed/Du Modify THERNET Sta Select	tus Table: P LA LA LA Control:	OTI	Link Mode Auto Negotiation Auto Negotiation Auto Negotiation Auto Negotiation	
Ink Speed/Du Modify THERNET Sta Select	tus Table: P LA LA LA Control:	ort	Link Mode Auto Negotiation Auto Negotiation Auto Negotiation Auto Negotiation	
Link Speed/Du Modify THERNET Sta Select	tus Table: P LA LA LA Control:	OTI	Link Mode Auto Negotiation Auto Negotiation Auto Negotiation Auto Negotiation	
Link Speed/Du Modify THERNET Sta Select	tus Table: LA LA LA Control:	OTI	Link Mode Auto Negotiation Auto Negotiation Auto Negotiation Auto Negotiation	
ink Speed/Du Modify THERNET Sta Select	tus Table: LA LA LA Control:	OTI	Link Mode Auto Negotiation Auto Negotiation Auto Negotiation Auto Negotiation	
ink Speed/Du Modify THERNET Sta Select	tus Table: P LA LA LA Control:	ort NH NH2 NH3 LAN1 LAN2 LAN1 LAN2 Apply Changes	Link Mode Auto Negotiation Auto Negotiation Auto Negotiation Auto Negotiation	

To configure the LAN settings:

- 1. Click **Network > LAN** tab **> LAN IP**. In the LAN Interface Setup screen, key in the Interface Name, IP Address, and Subnet Mask.
- 2. Click **Apply Changes** to apply the settings made.

Configuring the DHCP settings

The DHCP Mode page allows you to configure the DHCP settings.

DHCP Mode		
This page is used to confi Server	gure DHCP mode. You can set DHCP mode to None, DHCP Relay or DHCP	
	DHCP Server if you are using this device as a DHCP server. This page lists set to hosts on your LAN. The device assigns IP addresses in the pool to	
hosts on your network wh	o DHCP Request Internet access. D DHCP Relay if you are using another DHCP server to assign IP address to	
your hosts on the LAN. Ye	ou can set the IP address of the DHCP server.	
(3) If you set the DHCP m request an IP address.	ode to None, the device does not assign IP addresses to the hosts when they	
LAN IP Address: 192.168	8.1.1 Subnet Mask: 255.255.255.0	
DHCP Mode:	DHCP Server •	
Interface:	VLANI VLANZ VLANI VLAN VVAPO	
	VAP1 VAP2 VAP3	
IP Pool Range:	192.168.1.2 = 192.168.1.254 Show Client	
Default Gateway:	192.168.1.1	
Max Lease Time:	1440 minutes	
Domain Name:	domain.name	
DNS Servers:	192.168.1.1	

To configure the DHCP settings:

- 1. Click **Network > LAN** tab **> DHCP**.
- 2. In the **DHCP Mode** dropdown list, select None, DHCP Relay, or DHCP Server.
- 3. In the Interface field, select the port you want to use.
- 4. In the **IP Pool Range** field, key in the range of IP addresses that you want to use.
- 5. Key in the **Default Gateway**, **Max Lease Time**, **Domain Name**, and **DNS Server** address.
- 6. Click **Apply Changes** to apply the settings made.

Configuring the DHCP static IP settings

The DHCP Static IP Configuration page allows you to assign the IP addresses on the LAN to a specific individual PCs based on the MAC addresses.

		WAN		
LANIP	DHCP	DHCP Static IP		
DHCD		c IP Configurat		
		tic IP address and MAC addre		
The device Internet acc		e IP addresses to hosts on yo	ir network when they request	
	100 C 4			
IP Addres	s:	0.0.0.0		
IP Addres MAC Addr			×. 00E086710502)	
	ess:		x. 00E086710502)	
MAC Add	ess:	00000000000 (e	×. 00E086710502)	
MAC Add	ess: Delete	00000000000 (e Selected Reset	×. 00E086710502)	

To configure the DHCP Static IP settings:

- 1. Click Network > LAN tab > DHCP Static IP.
- 2. In the **IP Address** field, key in the specified IP address within the IP pool range which is assigned to the host.
- 3. In the MAC Address field, key in the MAC address of the host on the LAN.
- 4. Click Add to add the IP address and MAC address to the DHCP Static IP Table.
- 5. To delete an entry of MAC address and IP address, tick the selected entry from the **DHCP Static IP Table**, and click **Delete Selected**.

Configuring the wide area network (WAN) settings

The WAN page allows you to configure your wide area network (WAN) settings.

Configuring the WAN channel

The Channel Configuration page allows you to configure the Internet settings in WAN channel.

Wireless	LAN	WAN							
WAN	ATM Setting ADSL	Setting							
The DSL WAN VPI/VCI in eac	I Configu connection can b h Permanent Virtu PPP, Dynamic IP,	e separated virtu al Circuit (PVC)	In each PVC yo						
Default Route	Selection: 0/	Auto () Specifie	d						
	/CI: e: 1483 Bridged		lation: OLLC NAPT:	OVCI	lux				
PPP Settings: User Name:			Password:			-			
Туре:	Continuo	US 🗡	Idle Time (n	nin):					
WAN IP Settin	105:								
Туре:	Fixed	р	DHCP						
Local IP Addr	ess:		Gateway:						
Netmask: Default Route Unnumbered		8	Enable		Auto				
Add Mo	dify Delete	Reset	Refresh						
Current ATM V	C Table:								
Select Inf	Mode VPIVCIE	ncap NAPT IGMP	DRoute IP	Gateway	NetMask	User Name	Unnumber	Status	Edit
O pppoet	PPPoE 8 35	LLC On Off	Off 0.0.0.0	0.0.0.0	255.255.255.255	Concession of the		down	1

To configure the WAN settings:

- 1. Click **Network > WAN** tab **> WAN**.
- 2. In the Default Route Selection field, select Auto or Specified.
- 3. In the **VPI** field, key in the virtual path values for the asynchronous transfer mode ranging from 0 to 255.
- 4. In the **VCI** field, key in the virtual channel values for the asynchronous transfer mode ranging from 32 to 65535.
- 5. In the Encapsulation dropdown list, select LLC or VC-Mux.
- 6. In the **Channel Mode** dropdown list, select 1483 Bridged, 1483 MER, PPPoE, PPPoA, 1483 Routed, or IPoA.
- 7. Tick **Enable NAPT** to enable Network Address Port Translation function. Tick **Enable IGMP** to enable Internet Group Management Protocol function.

To configure the PPP settings:

- 1. In the **User Name** and **Password** fields, key in a user name and password provided by your ISP.
- 2. In the **Type** dropdown list, you can select **Continuous**, **Connect on Demand**, or **Manual**.
- 3. In selecting the **Connect on Demand** type, key in the idle amount time in **Idle Time (min)** field to automatically disconnect the PPPoE connection.

To configure the WAN IP settings:

- 1. In the Type dropdown list, you can select Fixed IP or DHCP.
- 2. In the Local IP Address field, key in the IP address of the WAN inteface provided by your ISP.
- 3. In the **Netmask** field, key in t he subnet mask of the local IP address. Tick **Unnumbered** to enable the IP unnumbered function.
- 4. Click Add to add the configured parameters into the Current ATM VC Table.
- 5. To modify the parameters on this page, select from the **Current ATM VC Table**, and modify the parameters. After modifying, click **Modify** to apply the settings to the PVC.

Configuring the ADSL Settings

The ADSL Settings page allows you to configure the ADSL settings.

DSL Settings s page is used to configure ADSL settings of the device. SL Modulation: G G Lite G Dmt T 1.413 ADSL2 ADSL2 T 4.413 C ADSL2 T 4.413 C ADSL2 C	less LAN	WAN		
s page is used to configure ADSL settings of the device. SSL Modulation: G Lite G Dmt T 1 4 13 ADSL2 DADSL2+ T Enable Insext Option: SSL Capability: Bitswap Enable SSA Enable	WAN ATM Setting ADSL Se	tting		
s page is used to configure ADSL settings of the device. SSL Modulation: G Lite G Dmt T 1 4 13 ADSL2 DADSL2+ T Enable Insext Option: SSL Capability: Bitswap Enable SSA Enable	ADSI Sottinge			
DSL Modulation: G Lite G Dmt T1 1413 ADSL2 ADSL2+ Denable DSL Capability: Bitswap Enable VSRA Enable VSRA Enable	ADOL Settings			
G Lite G Dnt Gable	This page is used to configure	ADSL settings of the devi	ce.	
G Lite G Dnt Gable				
	ADSL Modulation:			
ADSL2 ADSL2+ mext. Option: Enable St. Capability: Platwap Enable SRA Enable SRA Enable				
✓ADSL2+ ✓Enable ✓Enable ✓Enable ✓SRA Enable ✓SRA Enable				
inexL Option: ✓ Enable inexM Option: ■ Enable SSL Capability: ✓ Bitswap Enable ✓ SRA Enable	. ✓ A	DSL2		
✓ Enable mextIl Option: □ Enable SSL Capability: ✓ Bitswap Enable ✓ SRA Enable		DSL2+		
InexIA Option: Enable SL Capability: Ø Bitswap Enable Ø SRA Enable				
SL Capability:		inable		
SSL Capability: ♥ Bitswap Enable ♥ SRA Enable				
i Bitswap Enable I SRA Enable		nable		
SRA Enable		Bitswan Enable		
Apply Changes		IVA Ellable		
	Apply Changes			

To configure the ADSL settings:

- 1. Click Network > WAN tab > ADSL Setting.
- 2. Select the options that you want to apply.
- 3. Click **Apply Changes** to apply the settings made.

Configuring the Internet service settings

The Internet Service function allows you to configure the following Internet service settings: DNS, Firewall, UPnP, IGMP, Proxy, TR-069, and ACL.

- 1. Click Internet Service.
- Click the tabs of the following Internet service configuration: DNS, Firewall, UPnP, IGMP Proxy, TR-069 and ACL.

Configuring the DNS settings

The DNS (Domain Name System) page allows you to automatically obtain the DNS server address from the DHCP server or manually assign an IP address for the DNS server.

Quick Internet Setup	TRUE Frewall UPnP IGMP Proxy TR-069 ACL
Network	DNS Configuration
> Internet Service	This page is used to configure the IP addresses of the DNS server in the DNS relay mode.
Advanced Setting	mode.
Administration	○ Obtain DNS Automatically ○ Set DNS Manually
Diagnostic	DNS 1: 00.00
Router Status	DNS 2:
	DNS 3: Apply Changes Reset

To configure the DNS settings:

- 1. Click Internet Service > DNS tab > DNS.
- 2. Select **Obtain DNS Automatically** or **Set DNS Manually**, key in the IP address that you want to assign to the DNS server.
- 3. Click **Apply Changes** to save the settings made.

Configuring the DDNS Settings

The DDNS (Dynamic DNS) page allows you to configure the DDNS settings from DDNS providers DynDNS or TZO.

-	-	-	_	
S Firewa				
DNS DDNS				
Dvnamic D	NS Configu			
	configure the Dynami emove to configure Dy		DynDNS.org or TZC	L:
nere you can Addar	configure by	name prio.		
DDNS provider:	DynDNS.org			
Host Name:				
Interface:	pppoe1 💌			
Enable:				
OynDns Settings:				
User Name:				
Password:				
ZO Settings:				
Email:				
Key:			_	
Add Remo	/e			
Dynamic DDNS Tal				
Select State	Service	lost Name	User Name	Interface

To configure the DDNS settings:

- 1. Click Internet Service > DNS tab > DDNS.
- 2. In the DDNS provider dropdown list, select the DDNS provider.
- 3. In the Host Name field, assign the DDNS host name.
- 4. In the Interface dropdown list, select the Internet connection type.
- 5. Key in the user name and password for the DDNS provider.
- 6. Click **Add** to add the DDNS settings to the DNS table.

Configure the firewall settings

The Firewall page allows you to configure the security settings for your wireless network.

Configure the IP/Port filter settings

The IP/Port Filter page allows you to restrict certain types of outgoing or incoming Internet data packets from or to your network.

Quick Internet Setup	IP/Port Filter	MAC Filter URL	Blocking Virtu		DMZ Setting NAT	EXCLUDE ALG \$	etting Anti-DoS
Network							
> Internet Service					packets from you		to
Advanced Setting	Internet t local net		way. Use of such	filters can be help	oful in securing or	restricting your	
Administration	Outgoin	Default Action	: Permit	Denv			
Diagnostic	Incomin	g Default Action	a: Permit •	Deny			
Router Status							
	Rule Ac	tion:	• P	ermit O Deny			
	Protoco	b .	IP	*			
	Directio	n:	Upst	ream 🔽			
	Source	P Address:			Subnet M	ask: 255	5 255 255 255
	Destinat	ion IP Address:			Subnet M	ask: 255	5 255 255 255
	Source	Port:			Destinatio	on Port:	-
	Enable:						
	Apply	Changes	Re	set	Help		
	Current	ilter Table:					
				00-110		Charles Director	

To configure the IP/port filter settings:

- 1. Click Internet Service > Firewall tab > IP/Port Filter.
- 2. Select the Rule Action as Permit or Deny.
- 3. In the **Protocol** dropdown list, select the protocol type.
- 4. In the **Direction** field, select **Upstream** (outgoing data packets) or **Downstream** (incoming data packets).
- 5. In the **Source IP Address** field, key in the IP address where the data packets will be coming from.
- 6. In the **Destination IP Address** field, key in the IP addresses where the data packages will be transferred to.
- 7. In the **Subnet Mask** fields, key in the subnet mask addresses for both the source and destination IP addresses.
- 8. Key in the source and destination ports.
- 9. Tick Enable.
- 10. Click **Apply Changes** to apply the settings made. Click **Reset** to cancel the filter settings. Click **Help** for more information on configuring the filter settings.



Note: If you want to restrict access to all outgoing or incoming Internet data packets, select Permit or Deny in the Outgoing Action or Incoming Default Action fields.

Configure the MAC filter settings

The MAC Filter page allows you to restrict certain types of outgoing or incoming data packets from or to network clients based on their MAC addresses.

						ur local network to r restricting your local	
Outgoing	Default Policy	O Deny	• All	ow			
Incoming	Default Policy	ODeny	• Al	low			
Apply							
Direction	:	Outgoin	g 💙				
Direction Action:	:	Outgoin Oeny		w			
Action:	: IAC Address:			w (ex. 00E0867	10502)		
Action: Source M		⊙ Deny					
Action: Source M	IAC Address:	⊙ Deny		(ex. 00E0867			

To configure the MAC filter settings:

- 1. Click Internet Service > Firewall tab > MAC Filter.
- 2. In the Direction field, select Outgoing or Incoming.
- 3. In the **Source MAC address** field, key in the MAC address of the network client where the data packets will be coming from.
- 4. In the **Destination MAC address** field, key in the MAC address of the network client where the data packets will be going to.
- 5. Click Add to add the MAC filter settings to the Current MAC Filter table.



Note: If you want to restrict access to all outgoing or incoming data packets from or to network clients, select Deny or Allow in the Outgoing Default Policy or Incoming Default Policy field.

Configure the URL Blocking settings

The URL Blocking page allows you to block certain websites or online contents based on specific keywords.

DNS	Firewall	UPnP	IGMP Proxy	TR-069	ACL	
IP/Port Filter	MAC Filter URL	Blocking Virtual Server	IP Address Mapping	DMZ Setting NAT	IP ALG Setting	Anti-Do S
This page	is used to config	ure the filtered keys	word. Here you	can add/delete filte	ered keyword.	
URL BIo	cking Capability	:	 Disable 	Enable		
Apply	Changes					
	-					
Keyword						
AddKe	yword Del	ete Selected Key	word			
URL Bloc	king Table:					
Select		Filtered Keyw	rord			

To configure the keyword filter settings:

- 1. Click Internet Service > Firewall tab > URL Blocking.
- 2. In the URL Blocking Capacity field, click Disable or Enable.
- 3. In the **Keyword** field, enter the keyword that you want to block.
- 4. Click Add Keyword to add the keyword to the URL Blocking Table.

Configuring the NAT Exclude IP settings

The NAT Exclude IP page allows you to configure the IP range to be excluded from your router's NAT pool.

DNS	Firewall	1	JPnP	IGMP Proxy	TR-069) (CL	
IP/Port Filter	MAC Filter	URL Blocki	ng Virtual Server		DMZ Setting	NAT EXCLUDE	ALG Setting	Anti-Do S
NAT	EXCLU							
IVA I	EACLU	JDE II						
	ige ,you can cess internet			address which u	se the purge	route mode		
when ac	cess internet	unougn un	e apecilieu il	itenace.				
interfac	e:			pppoe1 🗸				
IP Rang	le:				-			
Apply	Changes	Reset						
Current I	NAT Exclude	e IP Table						
	WAN Interfa	ice	Low	IP Hig	h IP	Action		

To configure the NAT Exclude IP settings:

- 1. Click Internet Service > Firewall tab > NAT EXCLUDE IP.
- 2. In the **IP Range** field, key in the IP range that you want to exclude from your router's NAT pool.
- 3. Click Apply Changes to save the settings made.

Configuring the ALG settings

The NAT ALG and Passthrough page allows you to allow certain protocols or applications to pass through your network's firewall.

Port Filter	MAC Filter URL Blo	cking Virtual Server	IP Address Mapping	DMZ Setting	NAT EXCLUDE	ALG Setting	Anti-DoS
NAI		ass-Ini	ougn				
This page	is used to configure	NAT ALG and	pass-through.				
IPSec Pa	ss-Through:		Enable				
L2TP Pas	s-Through:		Enable				
PPTP Pa	ss-Through:		Enable Enable				
FTP:			Enable				
H.323:			Enable				
SIP:			Enable Enable				
RTSP:			Enable Enable				
ICQ:			Enable				
MSN:			Enable				

To configure the ALG settings:

- 1. Click Internet Service > Firewall tab > ALG Setting.
- 2. Select the protocols or applications that you want to enable.
- 3. Click Apply Changes to save the settings made.

Configuring the UPnP settings

The UPnP (Universal Plug and Play) Configuration page allows you to access the media of the UPnP devices found in your network.

To configure the UPnP settings:

- 1. Click Internet Service > UPnP tab.
- 2. In the UPnP field, tick Enable to enable UPnP connection.
- 3. In the **WAN Interface** dropdown list, choose a network protocol group to enable the UPnP connection.
- 4. Click Apply Changes to save the settings.

Configuring the IGMP Configuration settings

The IGMP (Internet Group Management Protocol) Proxy Configuration page allows you to configure the amount of IPTV packets that can be received through a proxy.

	DNS Firewall UPnP	P IGMP Proxy TR-069 ACL
Duick Internet Setup		
Network		
> Internet Service		ssue IGMP host messages on behalf of hosts that
Advanced Setting	for its hosts when you enable it by doi	
Administration	IGMP.	ice (upstream), which connects to a router running wnstream), which connects to its hosts.
Diagnostic	IGMP Proxv:	05.41.05.41
Router Status	Multicast Allowed:	O Disable O Enable
	Robust Count:	2
	Last Member Query Count:	2
	Query Interval:	60 (seconds)
	Query Response Interval:	100 (*100ms)
	Group Leave Delay:	2000 (ms)
	Apply Changes Reset	

To configure the IGMP settings:

- 1. Click Internet Service > IGMP Proxy tab.
- 2. Tick Enable in IGMP Proxy and Multicast Allowed options.
- 3. In the **Robust Count** and **Last Member Query Count** fields, key in their variables. The default values are 2 and 1 respectively.
- 4. In the **Query Interval** field, key in the amount of time in seconds between IGMP general query messages sent by the router. The default value is 125 seconds.
- In the Query Response Interval field, key in the maximum time value that the IGMP waits to receive a response to a general query message. The default value is 10 seconds.
- 6. In the Group Leave Delay field, key in the time value in milliseconds.
- 7. Click Apply Changes to save the settings.

Configuring the advanced settings

The Advanced Setting page allows you to configure your ASUS WIreless Router's advanced settings such as Bridge Setting, Routing, Port Mapping, QoS, SNMP, and other miscellaneous settings.



NOTE: Configure the Advanced settings only if you are an experienced user and has vast knowledge about networking.



Configuring the administration settings

The Administration page allows you to restore the wireless router to its default or to its saved configuration settings, upgrade the firmware, view the system logs, create, edit, or delete user accounts, and configure the system settings.

Restoring the wireless router's settings

The Commit/Reboot page allows you to restore the wireless router to its default settings or to a previously saved configuration settings.

Quick Internet Setup	nnik Rebox Upgrade System Log Password Time Zone
Network	
Internet Service	This page is used to save the current configuration or restore to the factory default
Advanced Setting	configuration.
Administration	Reboot from: Save the current configuration
Diagnostic	Commit Changes Reboot
Router Status	

To configure the Commit/Reboot settings:

- 1. Click Administration > Commit/Reboot tab.
- 2. In the **Reboot from** dropdown list, you can save the current configuration or restore back to its default setting by selecting from the options **Save the current configuration** or **Restore to the factory default configuration**.
- 3. Click **Reboot** to load the selected configuration and reboot the router's system.

Upgrading the firmware

The Upgrade Firmware page allows you to upgrade the wireless router's firmware version.

r
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NOTE: Download the latest firmware from the ASUS Support site at http://support.asus.com.

	Commit/Reboot Upgrade System Log Password Time Zone			
Quick Internet Setup	Upgrade Firmware Backup:Restore			
Network	Upgrade Firmware			
Internet Service	This page is used to upgrade the firmware to a new version. System will reboot after the file is uploaded.			
Advanced Setting				
Administration	Caution: Do not power off the device during uploading. Otherwise, it may crash the system.			
Diagnostic	Select File: Browse			
Router Status	Upload Reset			

To upgrade the firmware:

- 1. Click Administration > Upgrade tab > Upgrade Firmware.
- 2. In the **Select File** field, click **Browse** to locate the new firmware file on your computer.
- 3. Click Upload. Wait for a few minutes for the uploading process to complete.

Backing up/Restoring the settings

The Backup/Restore Settings page allows you to backup or save the configuration settings to a file in your preferred path and to restore the wireless router's settings using the saved configuration file.

Commit/Reboot	Upgrade	System Log	Password	Time Zone		
Upgrade Firmware	Backup/Restore					
Back	up/Resto		igs			
			the configuration load configuration		figuration file o	n
Save S	ettings to File:	Save				
Load S File:	ettings from			Browse	Upload	

To backup the settings:

- 1. Click Administration > Upgrade tab > Backup/Restore.
- 2. In the **Save Settings to File** field, click **Save** to save the configuration settings to your preferred path.

To restore the settings:

- 1. Click Administration > Upgrade tab > Backup/Restore.
- 2. In the **Load Settings from File** field, click **Browse** to locate the saved configuration file.

Configuring the System Logs

The Log Setting page allows you to enable or disable the system log function and view the system logs.



Note: You can tick both boxes to view the system logs in the Events Log Table.



To configure the system log settings:

- 1. Click Administration > System Log tab.
- 2. Check the Error and Notice boxes to view the system event logs.
- 3. Click **Apply Changes**. The log information (Error and Notice logs) will be shown in the **Events Log Table**.
- 4. Click Save Log to File to save a copy of logs information to your local drive.
- 5. Click **Clear Log Table** to clear the system logs from the table.

Configuring the user account settings

The User Account Configuration page allows you to create, modify, or delete user accounts.

		System Log Passwe	ord Time Zone
Quick Internet Setup			
Network			
HOLMOIN			
Internet Service	This page is used to add(or m	undifu) user account to ac	case the web server of ADSI
Designed Contract	Router. Empty user name or p		cess the web server of Abot.
Advanced Setting			
Administration	User Name:		(MaxLength: 15)
	Privilege:	User 👻	
Diagnostic	Old Password:		(MaxLength: 15)
Router Status	New Password:		(MaxLength: 15)
	Confirm Password:		(MaxLength: 15)
	Add Modify Dele		
	Add Modify Dele	Reset	
	User Account Table:		
	Select	User Name	Privilege
		admin	root
		user	user

To add a user account:

- 1. Click Administration > Password tab.
- 2. In the User Name field, key in the desired user name.
- 3. In the **Privilege** dropdown list, select the privilege type: **Root** or **User**.
- 4. Key in your password to the New Password and Confirm Password fields.
- 5. Click Add to add your new account to the User Account Table.

To modify a user account:

- 1. Click Administration > Password tab.
- 2. In the User Account Table, tick the user account to be modified.
- 3. Key in your old password in the **Old Password** field.
- 4. Key in your password to the New Password and Confirm Password fields.
- 5. Click Modify to modify the selected user account.



NOTE: You can only modify the user account's new password.

To delete a user account:

- 1. Click Administration > Password tab.
- 2. In the User Account Table, tick the user account to be deleted.
- 3. Click Delete to delete the user account from the User Account Table.

Configuring the system time settings

The System Time Configuration page allows you to configure the system time manually or obtain the system time automatically from the time server.

		Upgrade System Log Password Time Zone		
Quick Internet Setup				
Network	System Time Configuration This page is used to configure the system time and Network Time Protocol (MTP) server. In this case use curve carm and the settings or view some information of the system time and MTP			
Internet Service				
Advanced Setting	parameters.			
Administration	System Time:	1970 year Jan ▼ month 1 day2 hour38 min 34		
Diagnostic	DayLight :			
Router Status	Apply Changes Reset			
	NTP Configuration:			
	State:	O Disable Enable		
	Primary Server:	pool.ntp.org		
	Secondary Server:			
	Interval:	Every 1 hours		
	Time Zone:	(GMT) Gambia, Liberia, Morocco, England 🔹		
	Local . Time:	Thu Jan 1 2:38:34 1970		
	Apply Cha	nges Reset		
	NTP Start:	Get GMT Time		

To configure the system time manually:

- 1. Click Administration > Time Zone tab.
- 2. In the System Time field, key in the necessary information.
- 3. Click Apply Changes to save the settings made.

To obtain the system time automatically:

- 1. Click Administration > Time Zone tab.
- 2. In the **State** field under **NTP Configuration**, tick **Enable** to enable the Network Time Protocol (NTP) function.
- 3. Key in the necessary information.
- 4. Click **Apply Changes** to save the settings made.

Configuring the diagnostic settings

The Diagnostic page allows you to detect, isolate, and troubleshoot problems with your network.

Quick Internet Setup	Ping ATM Loopback ADSL Diagnostic Test
Network	Ping Diagnostic
Advanced Setting	Host :
Diagnostic	- Run Ping

Checking your wireless router's status and basic settings

The Router Status page allows you to view the current status of your wireless router, the connection status, and the system logs.

Click the tabs to view these information:

System tab

The **System Status** page displays the current status and some basic settings of the wireless router such as software version, DSP version, uptime, upstream speed, and downstream speed.

LAN tab

The **LAN Status** page displays some basin LAN settings of the wireless router, the LAN IP address, DHCP server status, MAC address and DHCP table.

Wireless tab

The **WLAN Status** page displays the basic settings and status of wireless LAN (WLAN).

WAN tab

The $\ensuremath{\textbf{WAN}}$ page displays the basic status of WAN and DNS server of the router.

· Port Mapping tab

The $\ensuremath{\textbf{Port}}$ $\ensuremath{\textbf{Mapping}}$ page displays the relationship and status of port mapping.

Statistics tab

The **ADSL Statistics** page shows the status of ADSL line, upstream rate, downstream rate, and other information.

ARP Table tab

The **ARP Table** page shows the IP addresses and their corresponding MAC addresses.

Troubleshooting

Troubleshooting

This troubleshooting guide provides solutions to some common problems that you may encounter while installing or using the ASUS Wireless Router. These problems require simple troubleshooting that you can perform by yourself. Contact the ASUS Technical Support if you encounter problems not mentioned in this chapter.

Problem	Action
The client cannot establish a wireless connection with the router.	 Out of Range: Put the router closer to the wireless client. Try to change the channel settings.
	Authentication:
	 Use wired connection to connect to the router.
	Check the wireless security settings.
	 Press the Restore button at the rear panel for more than five seconds.
	Cannot find the router:
	 Insert a needle inside the Reset hole at the rear panel for more than five seconds.
	 Check the setting in the wireless adapter such as SSID and encryption settings.

Problem	Action
Cannot access the Internet via wireless LAN adapter.	 Move the router closer to the wireless client. Check whether the wireless adapter is connected to the correct wireless router. Check whether the wireless channel in use conforms to the channels available in your country/area. Check the encryption settings. Check if the ADSL or Cable connection is correct. Retry using another Ethernet cable.
Internet is not accessible.	 Check the status indicators on the ADSL modem and the wireless router. Check if the WAN LED on the wireless router is ON. If the LED is not ON, change the cable and try again.
When ADSL Modem "Link" light is ON (not blinking), this means Internet Access is possible.	 Restart your computer. Refer to the Quick Start Guide of the wireless router and re-configure the settings. Check if the WAN LED on the wireless router is ON. Check the wireless encryption settings. Check if the computer can get the IP address (via both wired network and wireless network). Ensure that your web browser is configured to use the local LAN, and is not configured to use a proxy server.
If the ADSL "LINK" light blinks continuously or stays off, Internet access is not possible - the Router is unable to establish a connection with the ADSL network.	 Ensure that all your cables are all properly connected. Disconnect the power cord from the ADSL or cable modem, wait a few minutes, then reconnect the cord. If the ADSL light continues to blink or stays OFF, contact your ADSL service provider.
Network name or encryption keys are forgotten.	 Try setting up the wired connection and configuring the wireless encryption again. Insert a needle in the Reset hole at the rear panel of the wireless router for more than five seconds.

Problem	Action		
How to restore the system to its default settings?	 Insert a needle into the Reset hole at the rear panel of the wireless router for more than five seconds. 		
	 Refer to the section Backing up/Restoring the settings in Chapter 4 of this user manual. 		
	The following are the factory default settings:		
	User Name: admin		
	Password: admin		
	Enable DHCP: Yes (if WAN cable is plugged in)		
	IP address: 192.168.1.1		
	Domain Name: (Blank)		
	Subnet Mask: 255.255.255.0		
	DNS Server 1: 192.168.1.1		
	DNS Server 2: (Blank)		
	SSID: ASUS		

Appendices

Notices

For the following equipment: DSL-N10E



Is herewith confirmed to comply with the requirements setout in the Council Directive on the Approximation of the Laws of the MemberStates relating to Electromagnetic Compatibility (2004/108/EC), Low-voltageDirective (2006/95/EC) and R&TTE (1999/5/EC). The equipment was passed The test was performed according to thefollowing European standards:

ETSI EN 301 489-17 V2.1.1: 2009 ETSI EN 301 489-1 V1.8.1: 2008 ETSI EN 300 328 V1.7.1: 2006 EN 62311: 2008 EN 60950-1:2006/A11:2009/A1:2010

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components, as well as the packaging materials. Please go to http://csr.asus.com/english/Takeback.htm for the detailed recycling information in different regions.

REACH

Complying with the REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) regulatory framework, we published the chemical substances in our products at ASUS REACH website at http://csr.asus.com/english/REACH.htm

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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



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

Prohibition of Co-location

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety Information

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna.

Declaration of Conformity for R&TTE directive 1999/5/EC

Essential requirements - Article 3

Protection requirements for health and safety - Article 3.1a

Testing for electric safety according to EN 60950-1 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility – Article 3.1b

Testing for electromagnetic compatibility according to EN 301 489-1 and EN 301 489-17 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum - Article 3.2

Testing for radio test suites according to EN 300 328- 2 has been conducted. These are considered relevant and sufficient.

CE Mark Warning

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

Operation Channels: Ch1~11 for N. America, Ch1~14 Japan, Ch1~13 Europe (ETSI)

IC Warning

The Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulation.

Cet appareil numerique de la class B respecte toutes les exigences du Reglement sur le materiel brouilleur du Canada.

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Safety Warning

SAFE TEMP: This wireless router should be only used in environments with ambient temperatures between $5^{\circ}C(41^{\circ}F)$ and $40^{\circ}C(104^{\circ}F)$.

DO NOT expose to or use near liquids, rain, or moisture. DO NOT use the modem during electrical storms.

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