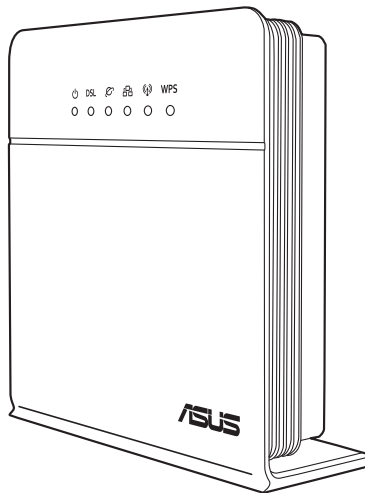




DSL-N10S

Wireless-N150 ADSL Modem Router



User Manual

E7954

First Edition
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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.

1

Knowing your wireless router

Package contents

Check the following items in your ASUS Wireless Router package.

- DSL-N10S Wireless-N150 ADSL Modem Router x1
- RJ-45 cable x1
- RJ-11 cable x1
- Power adapter x1
- Warranty card x1
- Quick Start Guide x1
- External splitter 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

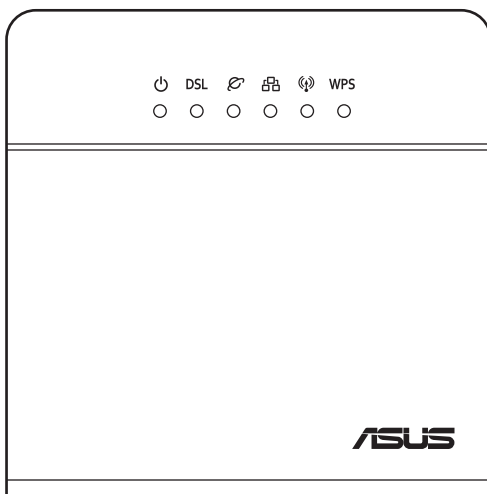
Take note of the following guidelines before installing the ASUS Wireless Router:

- 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



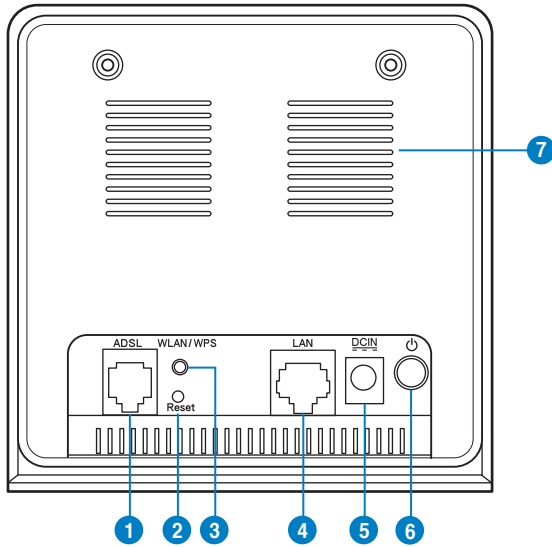
Status indicators

LED	Status	Indication
	Off	No power
	On	Power on
DSL	Slow Flash	No signal detected
	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.
	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
	On	Has physical connection to an Ethernet network.
	Flashing	Transmitting or receiving data (through Ethernet cable)
	Off	Inactive WLAN connection
	On	Active WLAN connection
	Flashing	Transmitting data through the WLAN interface
WPS	Off	Inactive WPS connection
	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	<p>ADSL port</p> <p>Connect an RJ-11 telephone cable to this port or a splitter connected from this port.</p>
2	<p>Reset button</p> <p>Using a pointed blunt object, press this button for more than one second to reset the system to its factory default settings.</p>
3	<p>WPS button / Wi-Fi switch*</p> <p>WPS mode: Press this button for more than four seconds to enable the WPS function.</p> <p>Wi-Fi switch mode: Press this button to turn on/off the Wi-Fi function.</p> <ul style="list-style-type: none"> * • Wi-Fi switch function is only available in some countries or regions. • If you press the button for one to four seconds, no function takes effect.
4	<p>LAN port</p> <p>Connect a RJ-45 Ethernet cable to this port to establish LAN connection.</p>

Item	Description
5	Power (DC-In) port Insert the AC adapter into this port to connect your router to a power source.
6	Power switch Press this button to turn the power on/off.
7	Air vents These vents provide ventilation to your router.

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).



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)**.

Using the Quick Internet Setup (QIS)

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



Important: Obtain the necessary information about your Internet connection type from your ISP.

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

The screenshot shows the 'Quick Internet Setup' wizard interface. On the left is a navigation menu with options: Quick Internet Setup (selected), Network, Internet Service, Advanced Setting, Administration, Diagnostic, and Router Status. The main content area is titled 'Wizard' and contains the following text: 'The Wizard page guides you to configure the device step by step. After finishing the following steps, you will be online and free to enjoy high-speed Internet access.' Below this, a list of steps is shown: Step 1: Web Account Setup (highlighted), Step 2: Time Zone Setup, Step 3: WAN Interface Setup, Step 4: WLAN Interface Setup, and Step 5: Configuration Saving. The 'Step 1: Web Account Setup' section is active and contains the instruction: 'Set a new account for accessing the Web server of the device.' It includes three input fields: 'User Name' (with a dropdown menu showing 'admin'), 'New Password' (with a '(MaxLength: 15)' label), and 'Confirmed Password' (with a '(MaxLength: 15)' label). A 'Next' button is located at the bottom right of the form.

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

The screenshot shows the 'Quick Internet Setup' wizard interface at the 'Step 2: Time Zone Setup' page. The navigation menu on the left is the same as in the previous screenshot. The main content area is titled 'Step 2: Time Zone Setup' and contains the instruction: 'Set up the system time and the Network Time Protocol (NTP) server.' Below this, the 'NTP Configuration' section is active and includes: 'State:' with radio buttons for 'Disable' and 'Enable' (checked); 'Server:' with a text input field containing 'pool.ntp.org'; 'Interval:' with a dropdown menu set to 'Every 1 hours'; 'Time Zone:' with a dropdown menu showing '(GMT) Gambia, Liberia, Morocco, England'; and 'GMT time:' with a text input field containing 'Thu Jan 1 0 23:42 1970'. 'Back' and 'Next' buttons are located at the bottom of the form.

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

Step 3: WAN Interface Setup;

This page allows you to configure the ADSL settings. A predefined list of countries & Internet Service Providers (ISP) is available for easy configuration.

- (1) Select Country.
- (2) Select ISP.
- (3) Enter required values.
- (4) Click Next to continue

Country (Click to Select)

Internet Service Provider (Click to Select)

Protocol (Click to Select)

Connection Type (Click to Select)

VPI (0-255)

VPI (02-65535)

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

Step 4: WLAN Interface Setup

Set up the parameters of WLAN interface.

WLAN Interface: Enable Disable

Band: 2.4 GHz(B+G+N)

SSID: ASUS

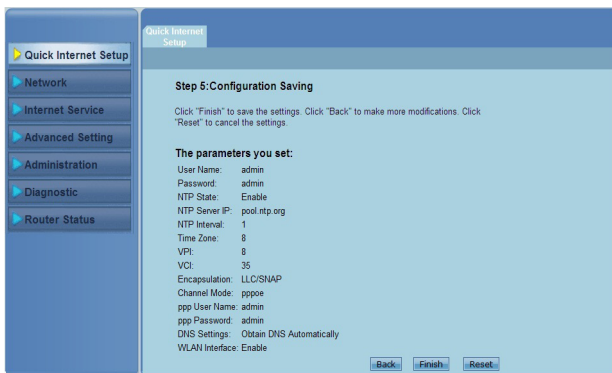
Encryption: None



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.



3 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.

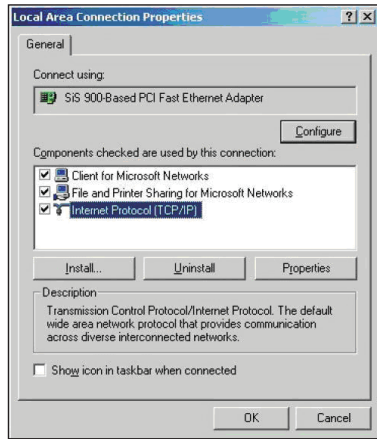


Note: ASUS recommends the following settings in establishing a manually assigned IP addresses to your client in the Router mode:

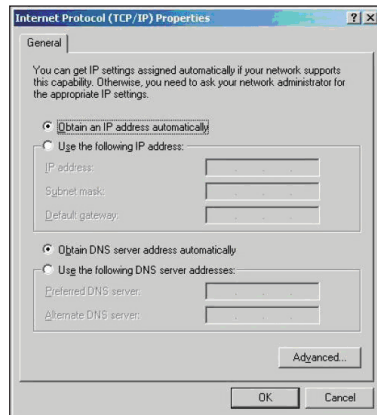
- **IP address:** 192.168.1.xxx (xxx can be any number between 2 and 254. Ensure that the IP address is not used by another device)
 - **Subnet Mask:** 255.255.255.0 (same as the ASUS Wireless Router)
 - **Gateway:** 192.168.1.1 (IP address of the ASUS Wireless Router)
 - **DNS:** 192.168.1.1 (ASUS Wireless 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**.

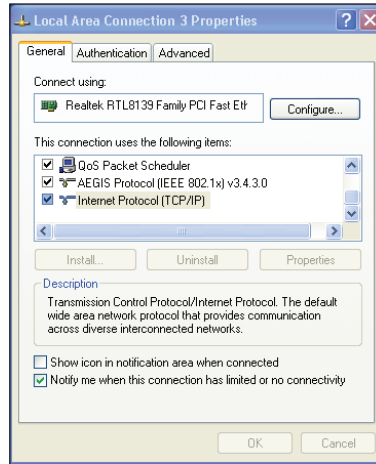


2. Select **Internet Protocol (TCP/IP)**, then click **Properties**.
3. Select **Obtain an IP address automatically** if you want the IP settings to be assigned automatically. Otherwise, select **Use the following IP address:** and key in **IP address**, **Subnet mask**, and **Default gateway**.
4. Select **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.

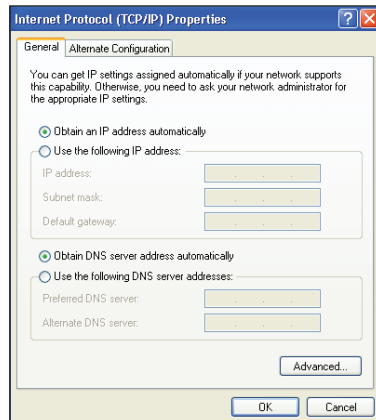


Windows® XP

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

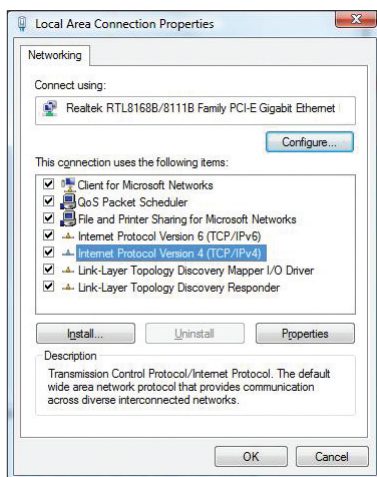


2. Select **Internet Protocol (TCP/IP)**, then click **Properties**.
3. Select **Obtain an IP address automatically** if you want the IP settings to be assigned automatically. Otherwise, select **Use the following IP address:** and key in **IP address**, **Subnet mask**, and **Default gateway**.
4. Select **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.

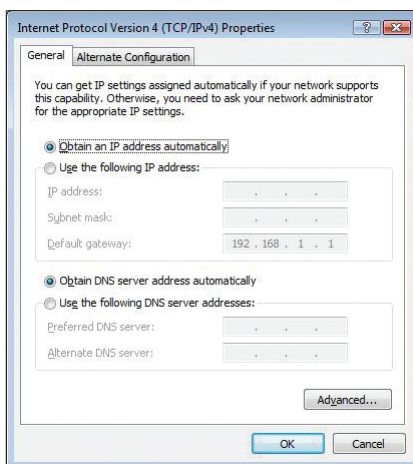


Windows® Vista/7

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.



4 Configuring via the web GUI

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

The screenshot shows the 'Wireless Basic Settings' page in a web GUI. The page has a sidebar on the left with navigation options: Quick Internet Setup, Network, Internet Services, Advanced Settings, Administration, Diagnostic, and Router Status. The main content area has tabs for Wireless, LAN, and WAN. Under the Wireless tab, there are sub-tabs: Basic Setting, Security, Access Control, Multi-SSID, Advanced Setting, and WPS. The 'Basic Setting' tab is active, displaying the 'Wireless Basic Settings' page. The page contains a checkbox for 'Disable Wireless LAN Interface', a dropdown for 'Band' (2.4 GHz (B+G+N)), a dropdown for 'Mode' (AP), a text input for 'SSID' (ASUS), a dropdown for 'Channel Width' (20MHz), a dropdown for 'Control Sideband' (Upper), a dropdown for 'Channel Number' (Auto) and 'Current Channel' (6), a dropdown for 'Radio Power (Percent)' (100%), and a button for 'Show Active Clients'. An 'Apply Changes' button is at the bottom.

To configure the wireless network settings:

1. Click **Network > Wireless** tab.
2. 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.



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



To control access to your wireless network:

1. Click **Network > Wireless tab > Access Control List**.
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.

The screenshot shows the 'Wireless Multiple BSSID Setup' page. The left sidebar contains navigation options: Quick Internet Setup, Network, Internet Services, Advanced Settings, Administration, Diagnostic, and Router Status. The main content area has tabs for Wireless, LAN, WAN, Multi-SSID (selected), Advanced Setting, and WPS. Below the tabs are sub-tabs: Basic Setting, Security, Access Control, Multi-SSID, Advanced Setting, and WPS. The page title is 'Wireless Multiple BSSID Setup'. A note states: 'This page allows you to set virtual access points(VAP). Here you can enable/disable virtual AP, and set its SSID and authentication type. click "Apply Changes" to take it effect.' There are four sections for VAPs:

- Enable VAP0**: SSID: WLAN-0000. Broadcast SSID: Enable Disable. Relay Blocking: Enable Disable. Authentication Type: Open System Shared Key Auto.
- Enable VAP1**: SSID: WLAN-1111. Broadcast SSID: Enable Disable. Relay Blocking: Enable Disable. Authentication Type: Open System Shared Key Auto.
- Enable 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 Auto.

An 'Apply Changes' button is located at the bottom of the page.

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** field, 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.



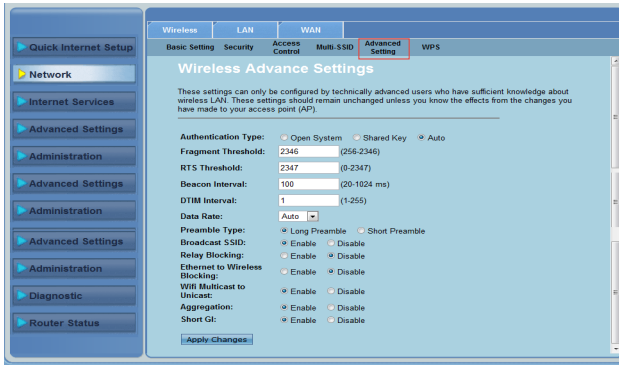
Note: To change the authentication configuration for each SSID, go to the **Security** tab for details.

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.



To configure the wireless advanced settings:

1. Click **Network > Wireless tab > Advanced Setting**.
2. 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.

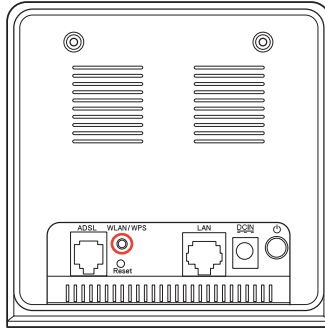
Setting up the Wi-Fi Protected Setup (WPS)

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

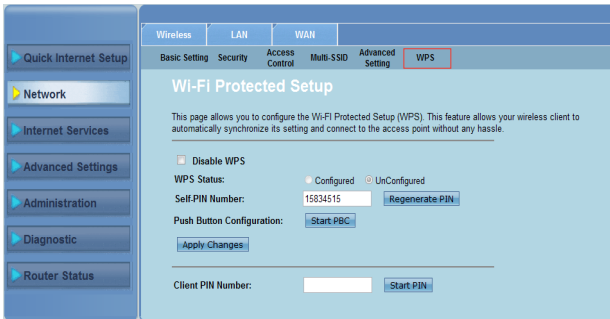


Note: Ensure that you use a wireless LAN adapter with WPS function.

To set up the WPS:



1. Press the WPS button on your router for more than four seconds.



2. Click **Network > Wireless** tab **>WPS**.
3. 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**.



Notes:

- Refer to the documentation that came with the wireless LAN card for the wireless LAN card's PIN code.
- Ensure to press the WPS button for more than four seconds to enable the WPS function, otherwise you might turn on/off the Wi-Fi function.
- The Wi-Fi switch function is only available in some countries or regions.

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.

Wireless LAN WAN

LAN IP DHCP DHCP Static IP

LAN Interface Setup

This page is used to configure the LAN interface of your ADSL Router. Here you may change the setting for IP address, subnet mask, etc.

Interface Name: e1
IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0
 Secondary IP
IGMP Snooping: Disable Enable
[Apply Changes](#)

LAN Port: [v]
Link Speed/Duplex Mode: [v]
[Modify](#)

Select	Port	Link Mode
<input type="radio"/>	LAN1	Auto Negotiation
<input type="radio"/>	LAN2	Auto Negotiation
<input type="radio"/>	LAN3	Auto Negotiation
<input type="radio"/>	LAN4	Auto Negotiation

MAC Address Control: LAN1 LAN2 LAN3 LAN4 WLAN
[Apply Changes](#)

New MAC Address: [input] [Add](#)

Current Allowed MAC Address Table:

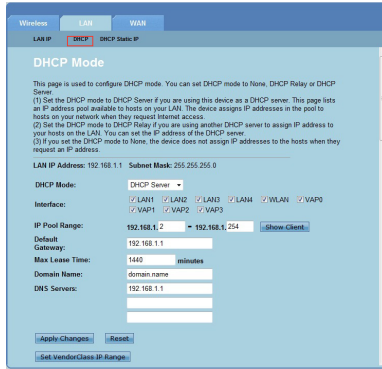
MAC Addr	Action
----------	--------

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.



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 PC based on the MAC addresses.

Wireless LAN WAN

LAN IP DHCP DHCP Static IP

DHCP Static IP Configuration

This page lists the static IP address and MAC address on your LAN.
The device assigns the IP addresses to hosts on your network when they request Internet access.

IP Address:

MAC Address: (ex. 00E086710502)

DHCP Static IP Table:

Select	IP Address	MAC Address
--------	------------	-------------

To configure the DHCP Static IP settings:

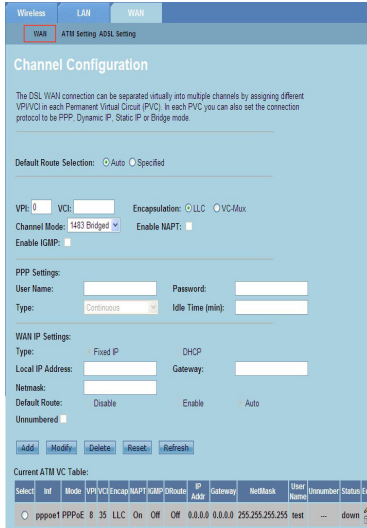
1. Click **Network > LAN tab > DHCP Static IP**.
2. In the **IP Address** field, key in the specified IP address within the IP pool range which is assigned to the host.
3. In the **MAC Address** field, key in the MAC address of the host on the LAN.
4. Click **Add** to add the IP address and MAC address 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.



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 interface provided by your ISP.
3. In the **Netmask** field, key in the 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.

Wireless LAN WAN

WAN ATM Setting ADSL Setting

ADSL Settings

This page is used to configure ADSL settings of the device.

ADSL Modulation:

- G.Lite
- G.Dmt
- T1.413
- ADSL2
- ADSL2+

AnnexL Option:

- Enable

AnnexM Option:

- Enable

ADSL Capability:

- Bitswap Enable
- SRA Enable

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.

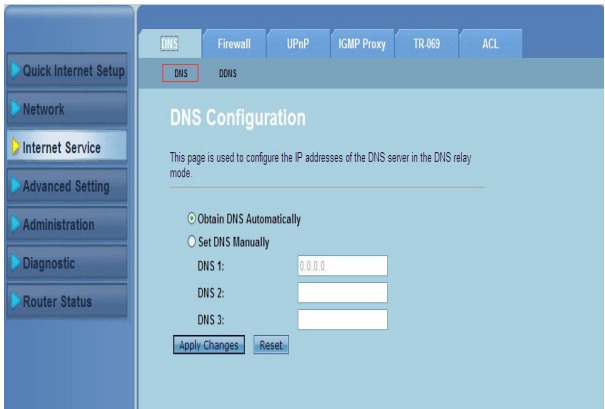
Configuring the Internet services settings

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**.
2. 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.



To configure the DNS settings:

1. Click **Internet Services > 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.

DNS **DDNS** Firewall UPnP IGMP Proxy TR-069 ACL

Dynamic DNS Configuration

This page is used to configure the Dynamic DNS address from DynDNS.org or TZO. Here you can Add/Remove to configure Dynamic DNS.

DDNS provider: DynDNS.org ▼

Host Name:

Interface: pppoe1 ▼

Enable:

DynDns Settings:

User Name:

Password:

TZO Settings:

Email:

Key:

Dynamic DDNS Table:

Select	State	Service	Host Name	User Name	Interface
--------	-------	---------	-----------	-----------	-----------

To configure the DDNS settings:

1. Click **Internet Services > 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.

DNS Firewall IPnP IGMP Proxy TR-069 ACL

IP/Port Filter MAC Filter URL Filter Anti-DOS

IP/Port Filter

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

Outgoing Default Action: Permit Deny
Incoming Default Action: Permit Deny

Rule Action: Permit Deny
Protocol: IP
Direction: Upstream
Source IP Address: Subnet Mask: 255.255.255.255
Destination IP Address: Subnet Mask: 255.255.255.255
Source Port: Destination Port:
Enable:
[Apply Changes](#) [Reset](#) [Help](#)

Current Filter Table:

Rule	Protocol	Source IP/Mask	SPort	Dest IP/Mask	DPort	State	Direction	Action
------	----------	----------------	-------	--------------	-------	-------	-----------	--------

To configure the IP/port filter settings:

1. Click **Internet Services > 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.

MAC Filter

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

Outgoing Default Policy Deny Allow
Incoming Default Policy Deny Allow

Direction:
Action: Deny Allow
Source MAC Address: (ex. 00E086710502)
Destination MAC Address: (ex. 00E086710502)

Current MAC Filter Table:

Select	Direction	Source MAC Address	Destination MAC Address	Action
--------	-----------	--------------------	-------------------------	--------

To configure the MAC filter settings:

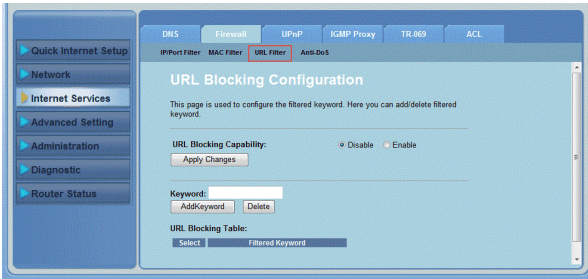
1. Click **Internet Services > Firewall tab > MAC Filter**.
2. In the **Direction** field, select **Outgoing** or **Incoming**.
3. In the **Source MAC address** field, key in the MAC address of the network client where the data packets will be coming from.
4. In the **Destination MAC address** field, 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 Filter settings

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

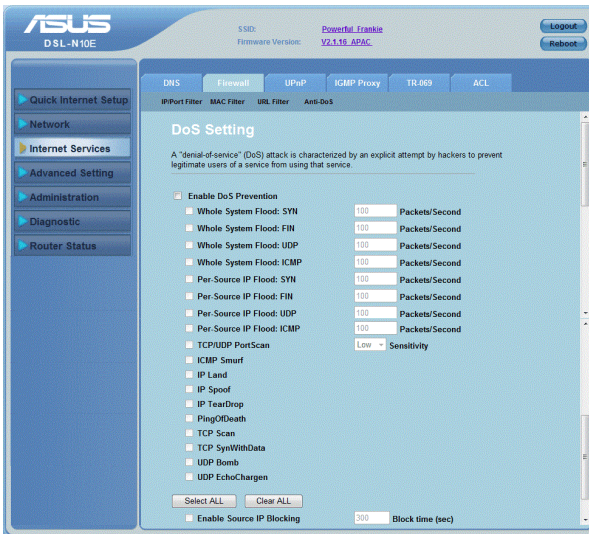


To configure the keyword filter settings:

1. Click **Internet Services > Firewall tab > URL Filter**.
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 Anti-DoS settings

The Anti-QoS page allows you to configure the DoS prevention settings.

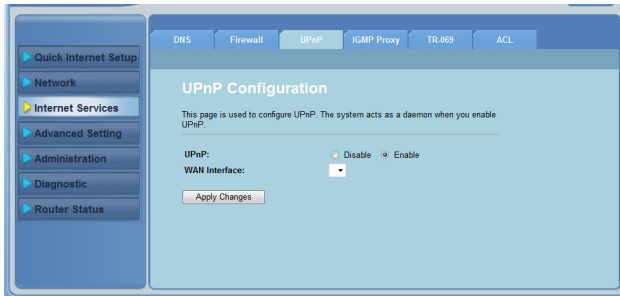


To configure the Anti-DoS settings:

1. Click **Internet Services > Firewall tab > Anti-DoS**.
2. In the **Enable DoS Setting** field, tick the DoS prevention item 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.

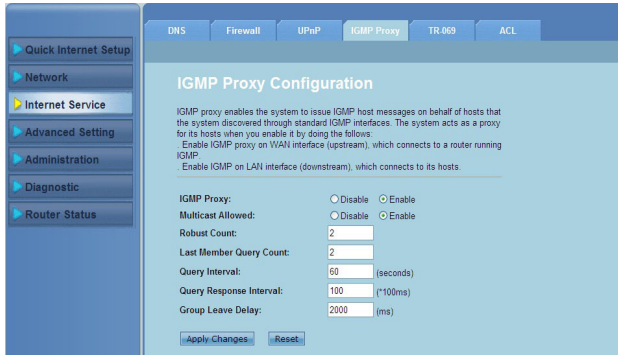


To configure the UPnP settings:

1. Click **Internet Services > 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.

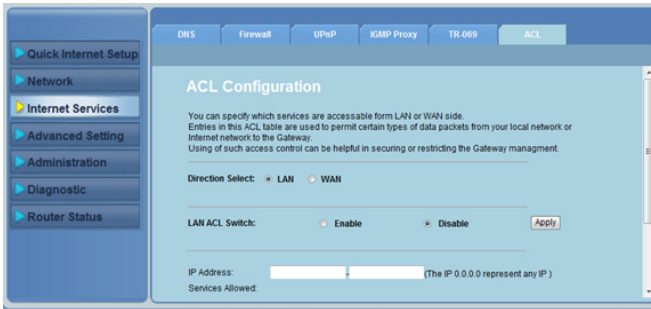


To configure the IGMP settings:

1. Click **Internet Services > 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.
5. 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 ACL

The ACL (Access Control List) configuration page allows you to specify the services that are accessible from LAN or WAN side.



To configure the ACL settings:

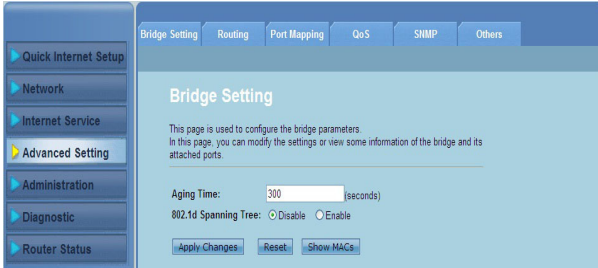
1. Click **Internet Services > ACL** tab.
2. Tick **LAN** or **WAN** options in **Direction Select**.
3. In **LAN ACL Switch**, tick **Enable**, then click **Apply**.
4. In the **IP Address** fields, key in the desired IP to add.

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 IP QoS

The IP QoS allows you to assign the rule for each incoming packet based on the specified policy.



To configure the IP QoS settings:

1. Click **Advanced setting > IP QoS** tab.
2. Tick **Enable** to enable IP QoS and open the configuration field.
3. Select the **QoS Policy** type in the dropdown box to enable different configuration screen.

a. Stream based

Select **Schedule Mode** and then **Add Rule**, click **Apply** to finish the setting.

b. 802.1p based

Select **Schedule Mode** and then click **802.1p config** to open the **802.1p Set** window to modify the rule list.

c. DSCP based

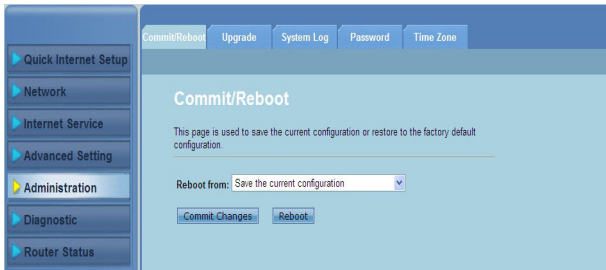
Select **Schedule Mode** and then click **DSCP config** to open the **DSCP Set** window to add DSCP tags.

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.



To configure the Commit/Reboot settings:

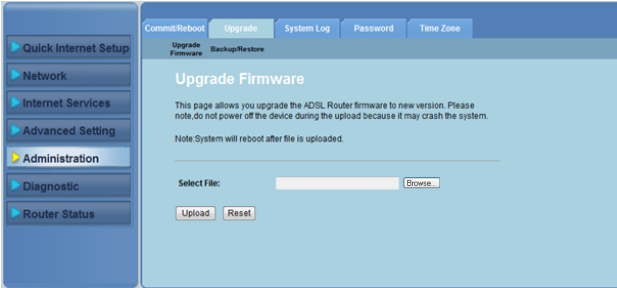
1. Click **Administration > Commit/Reboot** tab.
2. In the **Reboot from** dropdown list, you can save the current configuration or restore back to its default setting by selecting from the options **Save the current configuration** or **Restore to the factory default configuration**.
3. Click **Reboot**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



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

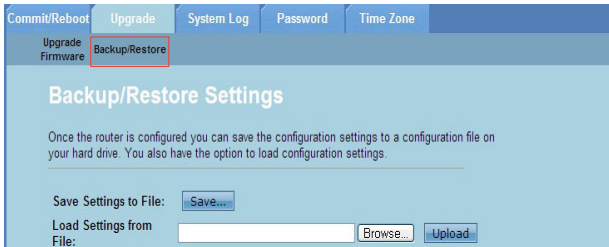


To upgrade the firmware:

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.



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:

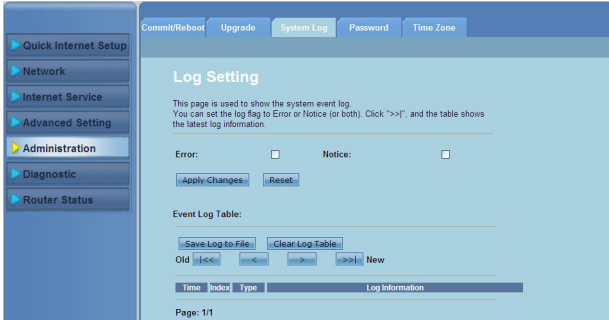
1. Click **Administration > Upgrade tab > Backup/Restore**.
2. In the **Load Settings from File** field, click **Browse** to locate the saved configuration file.

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.

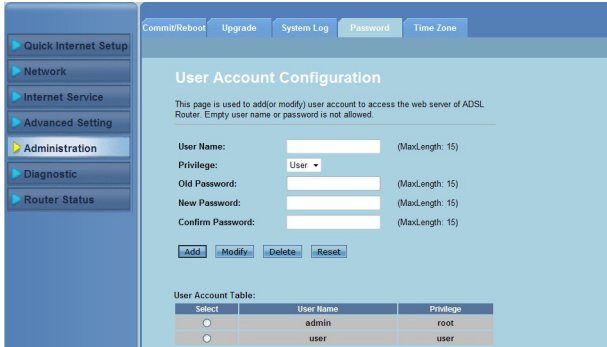


To configure the system log settings:

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.



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.



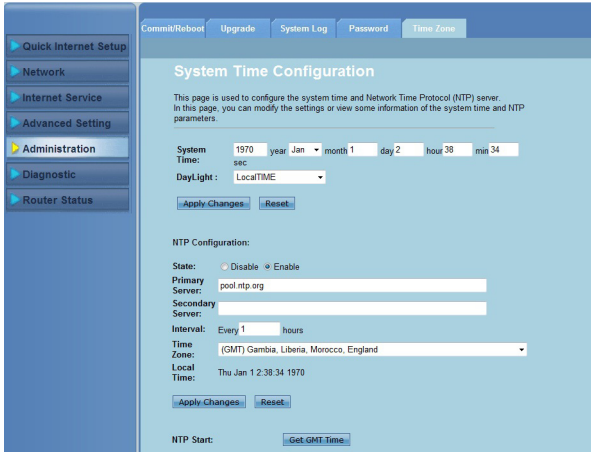
NOTE: You can only modify the user account's new password.

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.



To configure the system time manually:

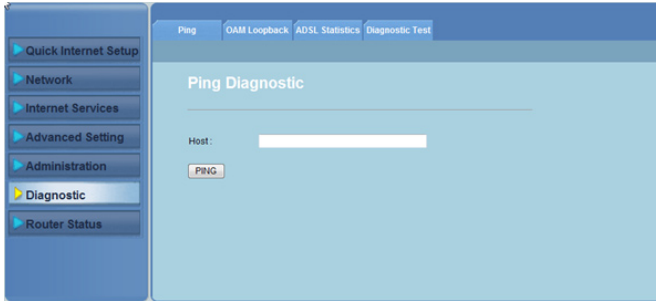
1. Click **Administration > Time Zone** tab.
2. In the **System Time** field, key in the necessary information.
3. Click **Apply Changes** to save the settings made.

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.



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 basic 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 **WAN** page displays the basic status of WAN and DNS server of the router.
- **Port Mapping** tab
The **Port 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 5

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.	<p>Out of Range:</p> <ul style="list-style-type: none">• Put the router closer to the wireless client.• Try to change the channel settings. <p>Authentication:</p> <ul style="list-style-type: none">• 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. <p>Cannot find the router:</p> <ul style="list-style-type: none">• 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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?	<ul style="list-style-type: none">• 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. <p>The following are the factory default settings:</p> <p>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</p>

Appendices

Notices

For the following equipment: DSL-N10S

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 numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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This product includes copyrighted third-party software licensed under the terms of the GNU General Public License. Please see The GNU General Public License for the exact terms and conditions of this license. We include a copy of the GPL with every CD shipped with our product. All future firmware updates will also be accompanied with their respective source code. Please visit our web site for updated information. Note that we do not offer direct support for the distribution.

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Version 2, June 1991

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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Safety Warning

SAFE TEMP: This wireless router should be only used in environments with ambient temperatures between 5°C(41°F) and 40°C(104°F).

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

ASUS Contact Information

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Online support support.asus.com

* EUR 0.14/minute from a German fixed landline; EUR 0.42/minute from a mobile phone.

Networks Asia Pacific (APAC) Hotline Information

Area	Hotline Number	Working Hour	Working Day
Australia	1300-2787-88	9:00-21:00	Mon. to Sun.
EG	8002787349	9:00-18:00	Sun. to Thur.
India	1800-2090-365	9:00-21:00	Mon. to Sun.
Indonesia	0062-2129495000;	9:30-17:00	Mon. to Fri.
	500128 (Local Indonesia only)	9:30-12:00	Sat.
Japan	0800-123-2787 (free);	9:00-18:00	Mon. to Fri.
	047-390-5630 (charge)	9:00-17:00	Sat.
Korea	82-2-1566-6868	9:30-17:00	Mon. to Fri.
Malaysia	603-2053-5077	9:00-21:00	Mon. to Sun.
New Zealand	0800-278-788	9:00-18:00	Mon. to Fri.
Philippine	1800 1855 0163	9:00-18:00	Mon. to Fri.
Saudi Arabia	800-121-2787	9:00-18:00	Sat. to Wed.
Singapore	+65-6415-7917;	11:00-19:00	Mon. to Fri.
	+65-6720-3835 (Check Repair Detail Status Only);	11:00-13:00	Sat.
South Africa	27-11-783-5450	9:00-17:00	Mon. to Fri.
Thailand	662-401-1717; 001-800-852-5201	8:30-20:30	Mon. to Fri.
Turkey	90-216-524-3000	9:00-18:00	Mon. to Fri.
UAE	+971-4-2958941	9:00-18:00	Sun. to Thur.
Vietnam	1900 55 55 81	08:00-12:00;	Mon. to Sat.
		13:30-17:30	



NOTE: For more information, visit the ASUS support site at: <http://support.asus.com>.

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