# Netgear WNR612 Wireless Router User Manual

V1.0

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# **About User Manual**

This user manual mainly describes how to install and configure the wireless router.

# Organization

This user manual is organized as follows:

Chapter	Description
Chapter 1 Safety Precautions	Provides safety precaution information.
Chapter 2 : Overview	Provides a general overview of the wireless router, and the packing list.
Chapter 3 : Hardware Description and Hardware	Mainly describes the front and rear panels of the wireless router and the procedure
Installation	for hardware installation.
Chapter 4 : TCP/IP Settings and Wireless Connection Introduction	Describes how to set the TCP/IP and how to connect the wireless router wirelessly.
Chapter 5 : Logging In to the Web Page	Describes how to log in to the wireless router.
Chapter 6 : Web Configuration	Mainly describes how to navigate through the Web pages and how to configure the parameters.
Chapter 7 : Troubleshooting	Provides the troubleshooting information.

# Features

• Support IEEE802.11b, IEEE802.11b/g, and IEEE802.11b/gn

- Transmission data rate is up to 150 Mbps
- Support WEP and WPA for secure data transmission

- Support DHCP server
- Support manually configuration of static routing
- Support version upgrade through Web page
- Support restoring factory default settings
- Support demilitarized zone (DMZ)
- Support DNS proxy and forwarding
- Support QoS
- Support UPnP
- Support WPS
- Support port mapping
- Support port triggering
- Support wireless repeater
- Support guest network
- Support restricting IP bandwidth
- Support filtering by keyword and domain name
- Support wireless security authentication
- Support 5 types of WAN connection modes, including static IP, dynamic IP, PPPoE, PPTP, and L2TP

- Support remote access control
- Support firewall
- Support system status display
- Support backup and restoration of configuration file

# **1** Safety Precautions

Before operating the wireless router, read the following precaution information carefully:

- Use the type of power that user manual marks.
- Use the power adapter that is packed within the device package.
- Pay attention to the power load of the outlet or the prolonged lines. An overburden power outlet or damaged lines and plugs may cause electric shock or fire accident. Check the power cords regularly. If you find any damage, replace it at once.
- Proper space left for heat dissipation is necessary to avoid any damage caused by overheating to the device. The long and thin holes on the router are designed for heat dissipation, to ensure that the device works normally. Do not cover these cooling holes.
- Do not put this device close to a place where a heat source exits or high temperature occurs. Avoid the device from direct sunshine.
- Do not put this device close to a place where is over damp or watery. Do not spill any liquid on this device.
- Do not connect this device to any PC or electronic product, unless our customer engineer or your broadband provider instructs you to do this, because any wrong connection may cause any power or fire risk.
- Do not place this device on an unstable surface or support.

# 2 Overview

## 2.1 **Product Introduction**

The wireless router is a high-performance network access device. It is fully compatible with IEEE802.11b, IEEE802.11g and IEEE802.11n standards. It can provide reliable and convenient access service for individual users and SOHO (Small Office, Home Office).

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# 2.2 Packing list

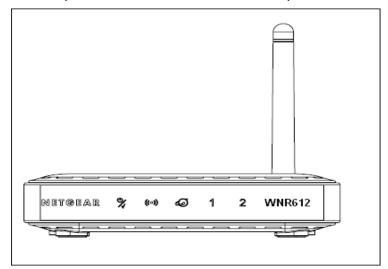
Please check whether your packing list includes the following items:

- Wireless router x 1
- Power adapter (5V DC,1A) x 1
- Network cable x1
- Quick Installation Guide x1
- Warranty card x1 (Optional)

# 3 Hardware Description and Hardware Installation

# 3.1 Front Panel and LED Status

There are 5 LED indicators on the front panel of the wireless router. By observing their status, you can check whether the device runs normally.



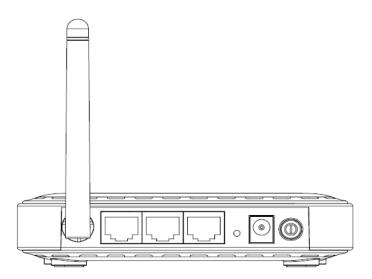
The following table describes the status of LED indicators on the front panel.

Indicator	Color	Status	Description
<b>0</b> /	Green	On	Power is on.
🎾 Power	-	Off	Power is off or the device is down.
	Green	On	Radio switch is turned on.
(i) WIAN	Green	Blink	Data is being transmitted.
112) (IT	-	Off	Radio switch is shut off.

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	Green	On	Connection succeeds.
	Green	Blink	Data is being transmitted.
internet	-	Off	No WAN connection.
	Green	On	LAN connection succeeds.
1/2 LAN	Green	Blink	Data is being transmitted.
	-	Off	No LAN connection.

# 3.2 Rear Panel and Interface Description



The following table describes interfaces and buttons on the rear panel.

Interface/Button		Description
		The first and second RJ45 interfaces are LAN interfaces, for connecting hub, switch, or computer in a LAN.

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	The third RJ45 interface is WAN interface, for connecting WAN or the uplink network devices.
0	Reset button. Press this button for 3 seconds and then release it, and then the wireless router reboots and restores to the factory defaults.
۲	Power socket, for connecting the power adapter (5V DC,1A).
0	Power switch

# ▲ Caution:

Do not press Reset unless you want to clear the current settings. The Reset button is in a small circular hole on the rear panel. If you want to restore the default settings, please press the Reset button gently for 3 seconds with a fine needle inserted into the hole and then release the button. The system reboots and restores to the factory default settings.

The power specification is 5V DC, 1A. If the power adapter does not match the specification, the device may be damaged.

## 3.3 Hardware Installation

#### 3.3.1 System Requirements

Before installing the device, please ensure that the following items are ready:

- At least one Ethernet RJ45 cable (10Base-T/100Base-T)
- One NETGEAR WNR612 wireless router
- A PC is already installed with the TCP/IP protocol and the PC can access the Internet.

## 3.3.2 Before You Begin

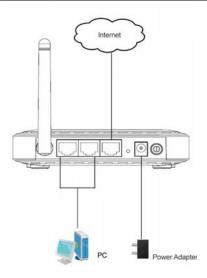
Before you install the device, please pay attention to the following items:

- When the device is connected to a computer, hub, router or switch, the Ethernet cable should be less than 100 meters.
- Do not place this device on an unstable surface or support. Do not put this device on the ground.
- Keep the device clean. Avoid the device from direct sunshine. Avoid any metal in the device.
- Place the device in the center of the area, and try to optimize the wireless coverage.

#### 3.3.3 Connecting the Device

To connect the device, do as follows:

- Step 1 Connect one end of the RJ45 cable to the LAN interface of the wireless router.
- Step 2 Connect the other end of the RJ45 cable to your PC.
- Step 3 Connect the power adapter to the power socket of the wireless router.



#### 3.4 Operation Range

The operation range of the wireless router depends on the actual environment. The path and effect of signal transmission vary according to the deployment in a house or an office. For example, the outdoor straight transmission distance for a certain device can be 300 meters and the indoor transmission distance can be 100 meters.

### 3.5 Roaming

Suppose that several wireless routers run in the same network. Each wireless router serves as a BSS that has its coverage range. One wireless client (for example, a notebook PC or PDA) can realize roaming from one AP to another AP accurately. In that case, the wireless client can communicate with the other devices within the coverage range of the wireless router.

To realize roaming in the coverage range of the wireless router by a wireless client, you need to set the APs properly as follows:



- Set the same SSID for different APs.
- The SSIDs of all the computers and PDAs should be consistent with that of APs.
- All the BSSs must use the same wireless channel.
- If the encryption function is enabled, all wireless routers must be configured with the same encryption mode and encryption key for establishing connection.
- Wireless routers must keep coverage of uninterrupted wireless signals in the whole operation environment. Hence, please put wireless routers to the appropriate places.

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# 4 TCP/IP Settings and Wireless Connection Introduction

# 4.1 TCP/IP Settings

By default, the LAN IP address of the wireless router is 192.168.1.1, the subnet mask is 255.255.255.0, and the DHCP server is enabled.

It is recommended to set the network adapter to **Obtain an IP address automatically**. Then, your PC obtains the TCP/IP settings, including the IP address, subnet mask, gateway, and DNS address automatically through the wireless router. If you know the settings of the current LAN interface, you can manually set the TCP/IP properties of the network adapter, so that your PC can communicate with the wireless router.

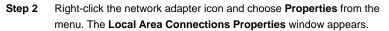
To manually set the network adapter, do as follows:

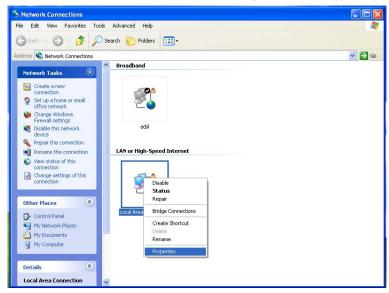
Step 1 Right-click the icon of My Network Places and choose Properties from the menu. The Network Connections window appears.





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#### A Note:

If multiple network cards are installed on your PC, a window other than the **Local Area Connections Properties** window may appears.

Step 3 Double-click Internet Protocol (TCP/IP) and the Internet Protocol (TCP/IP) Properties window appears.



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🗕 Local Area Connection Properties 🛛 🔹 💽
General Advanced
Connect using:
Broadcom 440x 10/100 Integrated Cc
This connection uses the following items:
Ilient for Microsoft Networks     Ilient for Microsoft Networks     Ilient Printer Sharing for Microsoft Networks     Ilient Scheduler     Ilient Protocol (TCP/IP)
Install Uninstall Properties
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
☐ Show icon in notification area when connected ✓ Notify <u>m</u> e when this connection has limited or no connectivity
OK Cancel

Step 4 Select Use the following IP address and enter the IP address of the network adapter. The IP address must be 192.168. 1.X (X is a number in the range of 2 to 254). If you want to access the Internet through a wireless router, you need to enter the default gateway and IP address of the DNS server correctly.

neral	
nis capability. Otherwise, you r ne appropriate IP settings.	ed automatically if your network supports eeed to ask your network administrator for
<ul> <li>Obtain an IP address auto</li> <li>Use the following IP address</li> </ul>	Contraction of the second s
IP address:	192 . 168 . 1 . 123
Subnet mask:	255.255.255.0
 Default gateway:	192 . 168 . 1 . 1
Obtain DNS server addres	ss automatically
Use the following DNS se	rver addresses:
Preferred DNS server:	2 B G.

Step 5 Set the subnet mask and click OK.

Step 6 After setting, you can ping the default IP address of the wireless router, to check whether the current connection between the PC and the wireless router is normal. Choose Start > Run from the desktop and enter ping 192.168.1.1. See the following figure:

Run	? 🛛
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	ping 192.168.1.1
	OK Cancel Browse

# Note:

**192.168.1.1** in the ping command is the default IP address of the LAN interface. If the IP address changes, enter the current IP address instead.

Step 7 If the PC can ping through the default IP address of the wireless router, the following page appears, indicating that the connection between your PC and the wireless router is normal.

🛤 C:\WINDOWS\system32\ping.exe	
	▲
Pinging 192.168.1.1 with 32 bytes of data:	
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64	
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64	
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64	

#### 4.2 Wireless Connection Introduction

By default, the AP function of the wireless router is enabled. If you use a wireless network adapter, do as follows to establish the connection:



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 Step 1
 Enable the wireless network adapter on your PC and ensure that the

 Wireless Zero Configuration tool is available. Right-click the Wireless

 Network Connection icon and choose View Available Wireless

 Networks from the menu.

LAN or High-Spee	ed Internet
Mot con	Network Connection 2 hected, Firewalled Connected, Firewalled
— (ရ) HED HED	Disable
	View Available Wireless Networks
	Status
	Repair
	Bridge Connections
	Create Shortcut
	Delete
	Rename
	Properties

Step 2 In the Wireless Network Connection page, click Refresh network list and the network list is refreshed. The default SSID of the wireless router is NETGEAR. Select the wireless router that you want to connect and click Connect. The default wireless security mode is None, and you can connect the wireless router directly without the encryption key in this mode. If the wireless router is encrypted, you need to enter the correct key to connect to the wireless router.

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Network Tasks	Choose	e a wireless network	
🛃 Refresh network list	Click an ite information	m in the list below to connect to a wireless network in ran 1.	ge or to get more
Set up a wireless network for a home or small office	((0))	WLAN	Connected 👷
for a home or small office		Unsecured wireless network	
Related Tasks	((o))	NETGEAR	Automatic ☆
(i) Learn about wireless		😚 Security-enabled wireless network (WPA)	littee
networking     Change the order of     preferred networks     Change advanced	81	This network requires a network key. If you want to cor network, click Connect.	nnect to this
settings	((0))	SSENET	
		Unsecured wireless network	U
	((Q))	A555	
		Unsecured wireless network	Ille
	((ဓူ))	mxmhaha	
	1997 - 1992 -		

Step 3If you are not sure of the available SSID, please log in to the Web page<br/>of the wireless router, and view the SSID in the Wireless Settings page.<br/>For more information about the wireless settings, please refer to 6.4.2<br/>Wireless Settings.

## Wireless Settings

Region Selection	
Region :	Asia
Wireless Network	
Enable SSID Broadcast	
Enable Wireless Isolation	
Name(SSID) :	NETGEAR
Channel:	Auto 💌
Mode :	Up to 65Mbps 💌
Security Options	
None	
C WEP	
C WPA-PSK[TKIP]	
C WPA2-PSK[AES]	
C WPA-PSK[TKIP]+WPA2-PSK[AES]	
	Apply Cancel

#### Note:

After your wireless network card connects to the wireless router successfully, usually, you should set the network adapter to **Obtain an IP address automatically**. The configuration of wireless connection is now complete.

# 5 Logging In to the Web Page

Run the Internet Explorer (IE), enter *http://192.168.1.1/* (the default IP address of the wireless router) in the address bar, and press **Enter**.

🗿 In	🗿 Invalid syntax error - Microsoft Internet Explorer									
File	Edit	View	Favorites	Too	ls He	lp				
G	Back	- 6	) - 💌	2	6	🔎 Search	K Favorites	Ø	è 🗟	- 88
Addre	ess 🙋	http:19	2.168.1.1							

In the window that is displayed as shown in the following figure, enter the user name and password, and click  ${\rm OK}.$ 

Connect to 192.1	68.1.1 🛛 🛛 🔀
	G
NETGEAR WNR500	
User name:	🖸 admin 💌
Password:	•••••
	Remember my password
	OK Cancel



#### Note:

The default user name and password are admin and admin respectively.

After logging in to the Web page, you can view, configure and modify the router settings. To make the settings and changes take effect, you need to reboot the wireless router sometimes.

# ▲ Caution:

If you are managing the wireless router through the Web page, do not cut off the power supply. Otherwise, the device may be damaged.

# 6 Web Configuration

#### 6.1 Language Selection

After successful login, you can select the appropriate language in the upper right corner of the page. After selecting a language and clicking **Apply**, the language setting takes effect immediately.

NETGEAR		Select Language :
SMARTWIZARD router manager	<u>1150</u>	English
Basic Wireless Router model WNR612		Apply

## 6.2 Setup Wizard

You can set the basic network parameters for accessing the Internet by following this wizard.

To configure the setup wizard, do as follows:

Step 1 After login, click Setup Wizard in the navigation bar on the left pane of the page. The Setup Wizard page appears.

#### Setup Wizard

The Smart Setup Wizard Can Detect The Type Of Internet Connection That You Have. Do You Want The Smart Setup Wizard To Try And Detect The Connection Type Now? Yes.

O No. I Want To Configure The Router Myself.

Next

If you are familiar with the router settings, you can select **No. I Want To Configure The Router Myself**. If you want to follow this wizard to configure the router, please select **Yes** and click **Next**. The router automatically detects the WAN connection mode.

Setup Wizard

Detecting Connection Type on Internet Port.

Please wait a moment .

#### Note:

If you do not insert the network cable into the WAN interface of the wireless router, the previous page does not appear.

- Step 2 The broadband type can be Dynamic IP (DHCP), Static IP (Fixed), PPPoE, or PPTP.
  - (1) If the detected Internet type is **Dynamic IP (DHCP)**, the following figure appears:

Dynamic IP	(DHCP	) detected
------------	-------	------------

Successfully detected the type of Internet connection you have.

Back Next

Click Next and the following figure appears:

WNR500

Dynam	ic I	PAd	dress
-------	------	-----	-------

Account Name (If Required)

Apply Cancel

Enter the account name provided by the Internet service provider (ISP) in the **Account Name** field. If the ISP does not provide it, you need not modify it.

In this mode, the WAN port of the wireless router obtains the network property information, including the IP address, subnet mask, gateway, and IP address of the DNS server, from the connected DHCP server

After setting, click **Apply** to save the settings, and then the **Router Status** page appears. You can view the parameters of WAN connection type in this page. The setup wizard is now complete.

(2) If the detected Internet type is **Static IP (Fixed)**, the following figure appears:

#### Setup Wizard

Static IP (Fixed) detected
Successfully detected the type of Internet connection you have.
If you believe you have received this message in error, please power cycle your modem (unplug the modem and plug it back in). Then close this screen, and reopen a new Web browser (e.g., Internet Explorer)

Back Next

#### Click Next and the following figure appears:

Static IP (Fixed) Address	
Your Internet service provides the stati	P (Fixed) settings.
	or each static IP settings.For example, be sure to enter the Gateway IP Address in the Gateway IP Address fields without mixing them up.
Internet IP Address	
IP Address	
IP Subnet Mask	
Gateway IP Address	
Domain Name Server (DNS) Address	
Primary DNS	

The following table describes parameters in this page:

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Field	Description	
IP Address	Enter the IP address of the WAN interface.	
IP Subnet Mask	Subnet mask of the WAN IP address. It is usually 255.255.255.0.	
Gateway IP Address	Enter the IP address of the gateway if necessary.	
Primary DNS	Enter the IP address of the primary DNS server if necessary.	
Secondary DNS	If the ISP provides another DNS server, enter the IP address of that DNS server.	

After setting, click Apply to save the settings, and then the Router Status page appears. You can view the parameters of WAN connection type in this page. The setup wizard is now complete.

(3) If the detected Internet type is **PPPoE**, the following figure appears:

#### PPPoE detected

|--|

Back Next

Click Next and the following figure appears:

Login :	tw5
Password :	•••
Service Name (If required) :	
Domain Name Server(DNS) Address	
<ul> <li>Get Automatically From ISP</li> </ul>	
C Use These DNS Servers	
Primary DNS	
Secondary DNS	

Apply Cancel

The following table describes parameters in this page:

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Field	Description
Login	Enter the user name provided by the ISP.
Password	Enter the password provided by the ISP.
Service Name (If	Enter the service name provided by the ISP. If the ISP
required)	does not provide it, you need not enter any information.
	Select Use These DNS Servers and enter the IP
Domain Name Server	address information of the DNS server provided by the
(DNS) Address	ISP. If no DNS server information is available, select
	Get Automatically From ISP.
Primary DNS	Enter the IP address of the primary DNS server if
	necessary.
Secondary DNS	If the ISP provides another DNS server, enter the IP
Secondary DNS	address of that DNS server.

#### Note:

The user name and password are case-sensitive. If you have any question about the user name and password, contact your ISP.

After setting, click **Apply** to save the settings, and then the **Router Status** page appears. You can view the parameters of WAN connection type in this page. The setup wizard is now complete.

(4) If the detected Internet type is PPTP, the following figure appears:

#### **PPTP** detected

Successfully detected the type of Internet connection you have.

Back Next

#### Click Next and the following figure appears:

5
10.0.0.138

#### The following table describes parameters in this page:

Field	Description
Username	Enter the PPTP user name provided by the ISP.
Password	Enter the PPTP password provided by the ISP.
	Set the idle timeout. If the system does not detect any
Idle Timeout (In minutes)	Internet access behavior within the set time of idle
	timeout, the system interrupts the Internet connection.
My IP Address	Enter the IP address provided by the ISP (User needs
My IP Address	to manually set this IP address).
Server IP Address	Enter the PPTP server IP address.
Gateway IP Address	Enter the gateway IP address.

After setting, click **Apply** to save the settings, and then the **Router Status** page appears. You can view the parameters of WAN connection type in this page. The setup wizard is now complete.

# 6.3 Add WPS Client

Click Add WPS Client on the left pane of the page to display the following page.

Add WPS Client

New and easy way to connect to the Wireless Router via WiFi Protected setup (WPS)

A wireless client has to support WPS function in order to use this wizard to add the client to your WPS enabled Wireless Router.

Please check the user manual and gift box of your wireless client to see whether it supports the WPS function. If your wireless client does not support the WPS function, you have to configure your wireless client manually so it has the same SSID and wireless security settings as on this router.

Next

WPS refers to Wi-Fi Protected Setup. You can use the WPS setup function to add a wireless client to a network, without setting specific parameters, such as SSID, security mode, and password. To use this function, a wireless client must support WPS. If the wireless client does not support WPS, you must manually configure the wireless client to ensure that it has consistent SSID and wireless security settings with the router. There are two WPS modes: Push Button and PIN.

Click  $\ensuremath{\textbf{Next}}$  to select the WPS mode.

Push Button mode

Add WPS Client

Select a setup method:
Push Button (recommended)
You can either press the Push Button physically on the router or press the Button below (soft Push Button)
C PIN (Personal Identification Number)

Select Push Button (recommended) and click in the router and	the
following page appears:	
Connecting to New Wireless Client	
Please click the software or hardware button on the client to start the WPS process Please click the software button on the client to start the WPS process	
Cancel	
Press the button on the network card or click the button in the software page wi	thin
two minutes to start WPS connection. After WPS connection is established,	the
following page appears. The client can now visit the LAN.	

The wireless client '2-0bsfalb9upwar' (00:1f:a4:90:74:09	<ol> <li>has been added to the network successfully.</li> </ol>	
Click OK to go back to the Wi-Fi Pro	lected Setup page	
PIN mode		
Add WPS Client		
Select a setup method:		
C Push Button (recommended)		
PIN (Personal Identification Number)		
If your Adapter supports WPS, please click on 'Generate a client Security Pin to number here.	nput on the AP/Router/Gateway and put the generated c	lient PIN
Enter Client's PIN:	16561731	Next

Select PIN (Personal Identification Number) and enter the PIN of the network (refer to the client of the network card), then click **Next** to start WPS connection. The following page appears:

The client's PIN is 1656			
Please click the software	button on the client to start the V	WPS process	
	0		
		Cancel	

Click the PIN button on the client of the network card within two minutes to start WPS connection. After WPS connection is established, the following page appears. The client can now visit the LAN.

The wireless client '2-0bsfalk	o9upwar' (00:1f:a4:90:74:09) has been added to the network successfully
CII	ck OK to go back to the Wi-Fi Protected Setup page
	OK

# 6.4 Setup

Click  $\ensuremath{\textbf{Setup}}$  and the extended navigation menu is shown as follows:

S	etup
•	Basic Settings
•	Wireless Settings
•	Guest Network

The submenu contains Basic Settings, Wireless Settings, and Cuest Network.

#### 6.4.1 Basic Settings

Click Basic Settings on the left pane of the page to display the following page.



Does your Internet Connection Required	A Login?			
CYes				
€ No				
Account Name (If Required)		W	NR612	
Domain Name (If Required)			1, 67, 67, 97, 97, 97, 97, 97, 97, 97, 97, 97, 9	
nternet IP Address				
Get Dynamically From ISP				
C Use Static IP Address				
IP Address	0	0	0	0
IP Subnet Mask	0	0	0	0
Gateway IP Address	0	. 0	0	0
Domain Name Server (DNS) Address				
Get Automatically From ISP				
O Use These DNS Servers				
Primary DNS				
Secondary DNS				
Router MAC Address				
<ul> <li>Use Default Address</li> </ul>				
C Use Computer MAC Address				
C Use This MAC Address			00:1E:E3:0	DA:95:B0

The router supports 5 modes of Internet connection, including **Dynamic IP (DHCP)**, **Static IP (Fixed)**, **PPPoE**, **PPTP**, and **L2TP**. In this page, you can select the appropriate Internet connection mode and configure the relevant parameters according to the actual requirements.

• Dynamic IP (DHCP)

If you select Dynamic IP (DHCP), the router automatically obtains IP address, subnet mask, and IP address of the gateway from the ISP. If the ISP does not provide any IP network parameters, please select this mode. See the following figure:

**Basic Settings** 

Does your Internet Connection Required A Login?

Account Name (If Required)		W	WNR612			
Domain Name (If Required)						
Internet IP Address						
<ul> <li>Get Dynamically From ISP</li> </ul>						
C Use Static IP Address						
IP Address	0	0	0	0		
IP Subnet Mask	0	0	0	0		
Gateway IP Address	0	. 0	0	0		
Domain Name Server (DNS) Address						
<ul> <li>Get Automatically From ISP</li> </ul>						
C Use These DNS Servers						
Primary DNS						
Secondary DNS	Í					
Router MAC Address						
Use Default Address						
C Use Computer MAC Address						
C Use This MAC Address			00:1E:E3:	DA:95-B		

The following table describes parameters in this page:

Field Description
-------------------

•	

Netgear WNR612 Wireless Router User Manual

Netgear WNR612 Wireless Router User Manual		
Field	Description	
Does your Internet	Select No.	
Connection Require		
A Login?		
Account Name (If	Enter the account name provided by the ISP. If the ISP does	
Required)	not provide it, you need not modify it.	
Domain Name (If	Enter the domain name provided by the ISP. If the ISP does	
Required)	not provide it, you need not modify it.	
Internet IP Address	Select Get Dynamically From ISP.	
Domain Name	Enter the IP address of the DNS server provided by the ISP.	
Server (DNS)	If the ISP does not provide it, select Get Automatically	
Address	From ISP.	
Router MAC	Physical address of the router. Normally, you can select Use	
Address	Default Address. If the ISP requires MAC address	
	authentication, select Use Computer MAC Address or Use	
	This MAC Address. If you select Use Computer MAC	
	Address, the MAC address of the current computer serves	
	as the MAC address of the router. If you select Use This	
	MAC Address, you need to enter the MAC address of	
	another computer. The format of a MAC address is	
	XX:XX:XX:XX:XX:XX.	

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

• Static IP (Fixed)

If the ISP provides the information of the IP address, subnet mask, gateway, and DNS server, select **Static IP (Fixed)**. For detailed settings, refer to your ISP.

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Basic Settings					
Does your Internet Connection Required	A Login?				
CYes					
€ No					
Account Name (If Required)			WNR612		
Domain Name (If Required)					
Internet IP Address					
Get Dynamically From ISP					
C Use Static IP Address					
IP Address	0	0	0	. 0	
IP Subnet Mask	0	0	0	0	
Gateway IP Address	0	0	0	0	
Domain Name Server (DNS) Address					
<ul> <li>Get Automatically From ISP</li> </ul>					
C Use These DNS Servers					
Primary DNS					
Secondary DNS	Ì				
Router MAC Address					
Use Default Address					
O Use Computer MAC Address					
O Use This MAC Address			00:1E:E3:I	DA:95:B0	

Apply Cancel

The following table describes parameters in this page:

Field	Description		
Does your Internet	Select No.		
Connection Require			
A Login?			
Account Name (If	Enter the host name provided by the ISP. If the ISP does not		

2	$\sim$
- 5	3

Netgear WNR612 Wireless Router User Manual

Field	Description
Required)	provide it, you need not modify it.
Domain Name (If Required)	Enter the domain name provided by the ISP. If the ISP does not provide it, you need not modify it.
Internet IP Address	Select Use Static IP Address.
IP Address	Enter the WAN IP address provided by the ISP. It cannot be null.
IP Subnet Mask	Enter the WAN subnet mask provided by the ISP. It varies depending on the network type. It is usually 255.255.255.0 (Class C).
Gateway IP Address	Enter the IP address of the gateway provided by the ISP. It is the IP address used for connecting to the ISP.
Domain Name Server (DNS) Address	Select Use These DNS Servers.
Primary DNS	Enter the IP address of the primary DNS server if necessary.
Secondary DNS	If the ISP provides another DNS server, enter the IP address of that DNS server.
Router MAC Address	Physical address of the router. Normally, you can select <b>Use</b> <b>Default Address</b> . If the ISP requires MAC address authentication, select <b>Use Computer MAC Address</b> or <b>Use</b> <b>This MAC Address</b> . If you select <b>Use Computer MAC</b> <b>Address</b> , the MAC address of the current computer serves as the MAC address of the router. If you select <b>Use This</b> <b>MAC Address</b> , you need to enter the MAC address of another computer. The format of a MAC address is XX:XX:XX:XX:XX:XX.

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

• PPPoE

If the ISP provides the user name and password for PPPoE dialup, select **PPPoE**.

Does your Internet Connection Required	A Login?				
Yes					
C No					
Internet Service Provider					PPPoE -
Login			Г		
Password			1		
Service Name (If Required)				, 	
Connection Mode				Dial C	)n Demand 🔻
Idle Timeout (In minutes)				,	5
Internet IP Address					
Get Dynamically From ISP					
O Use Static IP Address					
IP Address		0	. 0	. 0	. 0
Domain Name Server (DNS) Address					
<ul> <li>Get Automatically From ISP</li> </ul>					
O Use These DNS Servers					
Primary DNS					
Secondary DNS					
Router MAC Address					
Use Default Address					
C Use Computer MAC Address					
C Use This MAC Address				00:1E:E3:	DA:95:B0

The following table describes parameters in this page:

Field	Description
Does your Internet	Select <b>Yes</b> .
Connection	

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Field	Description
Require A Login?	
Internet Service Provider	Select PPPoE.
Login	Enter the user name for PPPoE dialup provided by the ISP.
Password	Enter the password for PPPoE dialup provided by the ISP.
Service Name (If Required)	If several PPPoE servers are available, specify one in this field.
Connection Mode	<ul> <li>Dial On Demand: If you select it, the system automatically establishes a connection when a network access request from the LAN is received. If no network access request is sent from the LAN within the set time of Idle Timeout, the system automatically interrupts the connection. If you pay for Internet access by time, you are recommended to use this connection mode, which effectively saves the expense of Internet access.</li> <li>Always On: If you select it, the system automatically establishes a connection. If the network is disconnected because of external factors when you are using the Internet access service, the system tries connection every certain time (for example, 10 seconds) until the connection is established. If you pay for Internet access in the monthly fee mode, you are recommended to use this connection mode.</li> <li>Manually Connect: If you select it, you need to manually set dialup connection after startup.</li> </ul>
Idle Timeout (In minutes)	If the system does not detect any Internet access behavior within the set time of idle timeout, the system interrupts the Internet connection.
Internet IP Address	You may select <b>Get Dynamically From ISP</b> or <b>Use Static IP</b> Address. If .you select <b>Use Static IP Address</b> , you need to manually enter the IP address.

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Fiel	d	Description	
Domain Server Address	Name (DNS)	Enter the DNS address provided by the ISP. If the ISP does not provide it, select <b>Get Automatically From ISP</b> .	
Router Address	MAC	Physical address of the router. Normally, you can select <b>Use</b> <b>Default Address</b> . If the ISP requires MAC address authentication, select <b>Use Computer MAC Address</b> or <b>Use</b> <b>This MAC Address</b> . If you select <b>Use Computer MAC</b> <b>Address</b> , the MAC address of the current computer serves as the MAC address of the router. If you select <b>Use This</b> <b>MAC Address</b> , you need to enter the MAC address of another computer. The format of a MAC address is XX:XX:XX:XX:XX:XX.	

After setting, click  $\ensuremath{\textbf{Apply}}$  to save the settings.

• PPTP

If the ISP provides the user name and password for PPTP dialup, select **PPTP**.

Netgear WNR612	2 Wireless	Router	User	Manua

Does your Internet Connection Required	I A Login?
• Yes	-
C No	
Internet Service Provider	PPTP V
Login	
Password	,
Connection Mode	Dial On Demand 🔻
Idle Timeout (In minutes)	5
My IP Address	
Subnet Mask	
Server Address	
Gateway IP Address	
Connection ID/Name	
Domain Name Server <mark>(</mark> DNS) Address	
<ul> <li>Get Automatically From ISP</li> <li>Use These DNS Servers</li> </ul>	
Primary DNS	
Secondary DNS	
Router MAC Address	
• Use Default Address	
O Use Computer MAC Address	
C Use This MAC Address	00:1E:E3:DA:95:B0

The following table describes parameters in this page:

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Netgear WNR612 Wireless Router User Manual		
Field	Description	
Does your Internet Connection Require A Login?	Select <b>Yes</b> .	
Internet Service Provider	Select PPTP.	
Login	Enter the user name for PPTP dialup provided by the ISP.	
Password	Enter the password for PPTP dialup provided by the ISP.	
Service Name	If several PPPoE servers are available, specify one in this field.	
Connection Mode	<ul> <li>Dial On Demand: If you select it, the system automatically establishes a connection when a network access request from the LAN is received. If no network access request is sent from the LAN within the set time of Idle Timeout, the system automatically interrupts the connection. If you pay for Internet access by time, you are recommended to use this connection mode, which effectively saves the expense of Internet access.</li> <li>Always On: If you select it, the system automatically establishes a connection. If the network is disconnected because of external factors when you are using the Internet access service, the system tries connection every certain time (for example, 10 seconds) until the connection mode.</li> <li>Manually Connect: If you select it, you need to manually set dialup connection after startup.</li> </ul>	
Idle Timeout (In minutes)	If the system does not detect any Internet access behavio within the set time of idle timeout, the system interrupts the Internet connection.	
My IP Address	Enter the IP address provided by the ISP (User needs to	

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Field	Description	
	manually set this IP address).	
Subnet Mask	Enter the subnet mask of the IP address provided by the ISP.	
Server Address	Enter the PPTP server address.	
Gateway I Address	Enter the gateway IP address.	
Connection ID/Name	Specify the connection name.	
Domain Nam Server (DNS Address	Enter the DNS address provided by the ISP. If the ISP does	
Router MA Address	Physical address of the router. Normally, you can select <b>Use</b> <b>Default Address</b> . If the ISP requires MAC address authentication, select <b>Use Computer MAC Address</b> or <b>Use</b> <b>This MAC Address</b> . If you select <b>Use Computer MAC</b> <b>Address</b> , the MAC address of the current computer serves as the MAC address of the router. If you select <b>Use This</b> <b>MAC Address</b> , you need to enter the MAC address of another computer. The format of a MAC address is XX:XX:XX:XX:XX:XX.	

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

• L2TP

If the ISP provides the user name and password for L2TP dialup, select L2TP.

Does your Internet Connection Required A Login © Yes © No Internet Service Provider	14
C No	
Internet Service Provider	
	L2TP 🔻
Login	
Password	
Connection Mode	Dial On Demand 💌
Idle Timeout (In minutes)	5
My IP Address	
- Subnet Mask	
Server Address	
Gateway IP Address	
Domain Name Server (DNS) Address	
<ul> <li>Get Automatically From ISP</li> </ul>	
O Use These DNS Servers	
Primary DNS	
Secondary DNS	
Router MAC Address	
O Use Default Address	
O Use Computer MAC Address	
C Use This MAC Address	00:1E:E3:DA:95:B0

The following table describes parameters in this page:

Field	Description
Does your Internet Connection	Select <b>Yes</b> .

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Field	Description	
Require A Login?		
Internet Service Provider	Select PPTP.	
Login	Enter the user name for PPTP dialup provided by the ISP.	
Password	Enter the password for PPTP dialup provided by the ISP.	
Connection Mode	<ul> <li>Dial On Demand: If you select it, the system automatically establishes a connection when a network access request from the LAN is received. If no network access request is sent from the LAN within the set time of Idle Timeout, the system automatically interrupts the connection. If you pay for Internet access by time, you are recommended to use this connection mode, which effectively saves the expense of Internet access.</li> <li>Always On: If you select it, the system automatically establishes a connection. If the network is disconnected because of external factors when you are using the Internet access service, the system tries connection every certain time (for example, 10 seconds) until the connection is established. If you pay for Internet access in the monthly fee mode, you are recommended to use this connection mode.</li> <li>Manually Connect: If you select it, you need to manually set dialup connection after startup.</li> </ul>	
Idle Timeout (In minutes)	If the system does not detect any Internet access behavior within the set time of idle timeout, the system interrupts the Internet connection.	
My IP Address	Enter the IP address provided by the ISP (User needs to manually set this IP address).	
Subnet Mask	Enter the subnet mask of the IP address provided by the ISP.	
Server Address	Enter the L2TP server address.	

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Field	ł	Description
Gateway Address	IP	Enter the gateway IP address.
Domain Server Address	Name (DNS)	Enter the DNS address provided by the ISP. If the ISP does not provide it, select <b>Get Automatically From ISP</b> .
Router Address	MAC	Physical address of the router. Normally, you can select Use Default Address. If the ISP requires MAC address authentication, select Use Computer MAC Address or Use This MAC Address. If you select Use Computer MAC Address, the MAC address of the current computer serves as the MAC address of the router. If you select Use This MAC Address, you need to enter the MAC address of another computer. The format of a MAC address is XX:XX:XX:XX:XX.

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

# 6.4.2 Wireless Settings

Click Wireless Settings on the left pane of the page to display the following page.

### Wireless Settings

Region Selection	
Region :	Asia
Wireless Network	
Enable SSID Broadcast	
Enable Wireless Isolation	
Name(SSID) :	NETGEAR
Channel:	Auto 💌
Mode :	Up to 65Mbps
Security Options	
None	
C WEP	
C WPA-PSK[TKIP]	
C WPA2-PSK[AES]	
O WPA-PSK[TKIP]+WPA2-PSK[AES]	

# Apply Cancel

In this page, you can configure the basic wireless parameters. The following table describes parameters in this page:

Field	Description
Region	Select the region where you are in from the drop-down list.
Enable SSID Broadcast	Enable or disable SSID broadcast. If it is enabled, the router broadcasts its SSID in the wireless network. In this way, wireless clients can finds the SSID after scanning and join the corresponding wireless network.
Enable Wireless Isolation	Enable or disable wireless isolation. If it is selected, wireless clients that use this SSID can access the Internet, but cannot communicate with other wireless clients, Ethernet clients, or other devices.
Name (SSID)	Network name. The SSID can contain up to 32 characters and can be letters, numerals, underlines, and any



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Field	Description	
	combinations of them. The SSID is case-sensitive.	
Channel	Select the working channel of the wireless network. The default is <b>Auto</b> , which indicates that the wireless router automatically searches for the best channel in the available channels.	
Mode	The drop-down list displays all the supported data rate. Please select one as the maximum transmission data rate.	
Security Options	Set the security encryption of the wireless network, to prevent unauthorized access and listening. You can select <b>None</b> , <b>WEP</b> , <b>WPA-PSK (TKIP)</b> , <b>WPA2-PSK (AES)</b> , or <b>WPA-PSK</b> <b>(TKIP) + WPA2-PSK (AES)</b> . The following describes the settings in detail.	

### **Security Options**

• None: Data encryption is not adopted and the network is not secure. Any station can access the network. This option is not recommended.

Security Options

None
C WEP
C WPA-PSK[TKIP]
C WPA2-PSK[AES]
C WPA-PSK[TKIP]+WPA2-PSK[AES]

Apply Cancel

• WEP: Wired equivalent privacy. You can encrypt the data with WEP 64 bits or 128 bits.

Security Encryption(W Authentication Type Encryption Strength	Automatic 💌
Security Encryption(W	EP) Key
Passphrase:	Generate
Key 1: 💿	
Key 2: O	
Key 3: O	
Key 4: O	

### The following table describes parameters related to the WEP mode:

Field	Description
Authentication	You can select Automatic or Shared Keys. The default is
Туре	Automatic.
Encryption	Select the encryption strength of WEP. You can select 64-bit
Strength	or <b>128-bit</b> .
Passphrase	Enter a word or a string of printable characters, and click
	Generate button. The wireless router automatically
	generates four WEP keys. User may select one as the
	encryption key of wireless network.
Key 1/2/3/4	Select one from the four keys and enter the corresponding
	WEP key in the field.
	If the Encryption Strength is set to 64-bit, enter 10
	hexadecimal digits. The key can be any combination of 0-9
	and A-F.
	If the Encryption Strength is set to 128-bit, enter 26
	hexadecimal digits. The key can be any combination of 0-9
	and A-F.

 WPA-PSK (TKIP): Preshared key Wi-Fi protection access. It uses WPA-PSK standard encryption and Temporal Key Integrity Protocol (TKIP). TKIP has stronger encryption mechanism and integrates message integrity code (MIC) to protect against attacks of hackers.

O WPA-PSK[TKIP]+WPA2-PSK[AES	
Security Options(WPA-PSK)	

The following table describes parameters related to the WPA-PSK (TKIP) mode:

Field	Description	
PassPhrase	Enter 8-63 characters or 64 hexadecimal digits.	

 WPA2-PSK (AES): Preshared key Wi-Fi protection access version 2. It uses WPA2-PSK standard encryption and Advanced Encryption Standard (AES). AES uses symmetric 128 bits block data to encrypt.

Security Options C None C WEP C WPA-PSK[TKIP] WPA2-PSK[AES] C WPA-PSK[TKIP]+WPA2-PSK[AES]		
Security Options(WPA2-PSK) PassPhrase :		(8-63 characters or 64 hex digits)
	Apply Cancel	

The following table describes parameters related to the WPA2-PSK (AES) mode:

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Field	Description
PassPhrase	Enter 8-63 characters or 64 hexadecimal digits.

 WPA-PSK (TKIP) + WPA2-PSK (AES): It allows the client to use WPA-PSK (TKIP) or WPA2-PSK (AES).

Security Options--Profile 1 © None © WPA-PSK[TKIP] © WPA-PSK[TKIP] © WPA-PSK[TKIP]+WPA2-PSK[AES] Security Options(WPA-PSK+WPA2-PSK) PassPhrase : (8-63 characters or 64 hexdigits)

Apply Cancel

The following table describes parameters related to the WPA-PSK (TKIP) + WPA2-PSK (AES) mode:

Field	Description
PassPhrase	Enter 8-63 characters or 64 hexadecimal digits.

#### Note:

After wireless setting is complete on the router, a host in the wireless network must have consistent wireless settings, including the SSID, with the router if the host wants to connect to the router. If the router has security settings, the host in the wireless network must have consistent security settings. For example, the passwords set on the host and the router must be the same. Otherwise, the host cannot connect to the router.

### 6.4.3 Guest Network

If you enable guest network, a visitor can use Internet connection in your home without knowing your wireless password.

# Click Guest Network on the left pane of the page to display the following page.

#### **Guest Network Settings**

	Scheme	S SID	Security	Apply	SSID Broadcast
•	1	NetGear-002	None	NO	YES
0	2	NetGear-003	None	NO	YES
0	3	NetGear-004	None	NO	YES
0	4	NetGear-005	None	NO	YES

Wireless Settings--Profile 1

Enable Guest Network

🗷 Enable SSID Broadcast

 $\square$  Allow Guest to access My Local Network

Enable Wireless Isolation

Guest Wireless Network Name(SSID): NetGear-002

Security Options--Profile 1

None

O WEP

O WPA-PSK[TKIP]

C WPA2-PSK[AES]

O WPA-PSK[TKIP]+WPA2-PSK[AES]

#### Apply Cancel

The following table describes parameters in this page:

Field	Description			
Network Profiles	Brief description of the created guest network. You can create up to four guest networks. A network profile contains the information of a guest network, including the number, SSID, encryption mode, whether the guest network is enabled, and whether to broadcast SSID. You can select the radio button of a profile to view the detailed information or modify the settings.			
Enable Guest	Enable or disable a guest network. After it is enabled, you and			

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	Netgear WINR612 WIReless Router User Manual			
Field	Description			
Network	the visitor can connect to the network through the SSID of the			
	guest network.			
Enable SSID	Enable or disable SSID broadcast. After it is enabled, the			
Broadcast	wireless router broadcasts its SSID to all wireless stations.			
	If it is enabled, users connected to the network of this SSID can			
Allow Guest to	access not only the Internet but also the LAN of the wireless			
access My	router, like users connected to the network of the primary SSID.			
Local network	If this option is disabled, users connected to the network of this			
	SSID cannot access the LAN of the wireless router.			
	Enable or disable wireless isolation. If it is enabled, wireless			
Enable Wireless	clients connected to the network of this SSID can access the			
Isolation	Internet, but cannot communicate with other wireless clients or			
	Ethernet clients.			
Guest Wireless	Name of the guest network. The SSID can contain up to 32			
Network Name	characters and can be any combination of letter, numerals, and			
(SSID)	underlines. It is case-sensitive.			
Security	Refer to descriptions and setting methods of Security Options			
Options	in section 6.4.2 "Wireless Settings".			

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

# 6.5 Content Filtering

Click Content Filtering and the extended navigation menu is shown as follows:



The submenu contains Logs, Block Sites, Block Services, Schedule, and E-mail.

### 6.5.1 Logs

Click Guest Network on the left pane of the page to display the following page.

Logs	

#### Enable Log

<pre>[5] syslog:</pre>	[AUTH]	192.168.	1.136 10	gin
success, Sat	Jan 1	20:28:13	2011	
<pre>[5] syslog:</pre>	[AUTH]	User adm	in sessi	on
imeout and	auto log	gout		
<pre>[5] syslog:</pre>	[AUTH]	192.168.	1.136 10	gin
success, Sat	Jan 1	20:22:22	2011	
<pre>[5] syslog:</pre>	[AUTH]	User adm	in sessi	on
imeout and	auto log	gout		
<pre>[4] kernel:</pre>	wlan0:	A STA is	rejecte	d by
02.1x daemo	n - 00:2	26:5A:80:	87:48	
<pre>[4] kernel:</pre>	wlan0:	A wirele	ss clien	t is
associated -	00:26:5	5A:80:87:	48	
<pre>[4] kernel:</pre>	wlan0:	A wirele	ss clien	t is
associated -	00:26:5	5A:80:87:	48	
<pre>[4] kernel:</pre>	wlan0:	A STA is	rejecte	d by

Apply Refresh Clear Log Send Log

In this page, you can view the system events.

Enable log function and click the **Apply** button to activate the log function. Click the **Refresh** button to refresh the system log.

Click the **Clear Log** button to clear the system events.

Click the Send Log button to send the system events to your local PC.

### 6.5.2 Block Sites

Click Block Sites on the left pane of the page to display the following page.

Netgear WNR612	Wireless	Router	User	Manual
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Block Sites				
Keyword Blocking				
• Never				
C Per Schedule				
C Always				
Type Keyword or Domain Name Here.				
Add Keyword				
Block Sites Containing these Keywords or Domain Na	ames:			
Delete Keyword Clear List				
□ Allow Trusted IP Address To Visit Blocked Sites				
Trusted IP Address	192	. 168	. 1	

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

In this page, you can add or delete a filter rule of domain name or keyword, to block LAN users from accessing certain websites in the WAN.

The following table	e describes parameters an	d buttons in this page:

I he following table describes parameters and buttons in this page:					
Field	Description				
Keyword Blocking	<ul> <li>Select the mode of blocking. You can select Never, Per Schedule, or Always.</li> <li>Never: Website blocking is disabled.</li> <li>Per Schedule: After you select it and set in Schedules page, website blocking is enabled according to the settings in the Schedules page.</li> <li>Always: Website blocking is always enabled.</li> </ul>				
Type Keyword	Type Keyword Enter the keyword or domain name that you want to block.				
or Domain	Domain name: For example, www.badstuff.com/xxx (bad stuff				

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Field	Description
Name Here	indicates improper information.
	Keyword: Enter certain words, for example, blasphemy or erotic
	readings, included in a link.
Add Keyword	Click the button to add the keyword or domain name you entered
Add Reywold	to the list under the button.
Block Sites	
containing	
these	The list displays the blocked entries. It can contain up to 32
Keywords or	entries.
Domain	
Names	
Delete	Select a keyword or domain name in the above list and click the
Keyword	button to delete it from the list.
Clear List	Click the button and all keywords and domain names are deleted
	from the list.
Allow Trusted	
IP Address To	After it is selected, the specified computer has the full authority for
Visit Blocked	accessing the Internet.
Sites	
Trusted IP	Specify the IP address of a computer. You need to enter only a
Address	numeral in the fourth field.

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

# 6.5.3 Block Services

 $\label{eq:click} \textbf{Block Services} \text{ on the left pane of the page to display the following page.}$ 

Block Services			
Services Blocking			
Never			
C Per Schedule			
C Always			
Block Service Rules Table			
#	Service Name	Port	IP
	Add Edit Delete		
	Apply Cancel		

In this page, you can set rules of service blocking, to block users from Internet access.

The following table describes parameters and buttons in this page:

Field	Description				
Services       Select the mode of service blocking. You can select Nev         Services       Never: Service blocking is disabled.         Blocking       Per Schedule: After you select it and set in the Sch         page, service blocking is enabled according to the sin the Schedules page.         Always: Service blocking is always enabled.					
Block Service	The table lists all services to be blocked. You can add, edit, or				
Rules Table	delete a service entry according to your requirement.				
Add	Click the button to add a rule of service blocking in the <b>Block</b> <b>Services Setup</b> page that is displayed.				
Edit	Select a rule of service blocking in the <b>Block Service Rules</b> <b>Table</b> and click the button to edit the rule in the <b>Block</b> <b>Services Setup</b> page that is displayed.				
Delete	Select a rule of service blocking in the <b>Block Service Rules</b> <b>Table</b> and click the button to delete it.				

Click Add and the Block Services Setup page appears:		
Block Services Setup		
Service Type	User Defined	
Protocol	TCP 🔽	
Starting Port	(1~65535)	
Ending Port	(1~65535)	
Service Type/User Defined		
Filter Service For:		
C Only This IP Address:	192 168 1	
C IP Address Range:	192 168 1	
	to 192 168 1	
All IP Address:		
	Add Cancel	

The following table describes parameters in this page:

Field	Description		
	Select a service type from the drop-down list. If your desired		
	type is not in the list, select User defined. Then, you need to		
Service Type	select the protocol, enter the service name, and specify the		
	port range. For services that exist in the drop-down list, the		
	corresponding information is already preset.		
Protocol	Indicate the protocol that is used at the service ports. You can		
FIOLOCOI	select TCP/UDP, TCP, or UDP.		
	The first port to which an application sends a connection		
Starting Port	request. All relevant ports can be open only after connection is		
Starting Fort	established at this starting port. Otherwise, other relevant ports		
	are not open.		
Ending Port	Set the end port of the service port range.		
Service	Enter the contine name		
Type/User	Enter the service name.		

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Field	Description		
Defined			
Filter Service For	<ul> <li>It determines the computers to be blocked.</li> <li>Only This IP Address: Only one network card on a computer is blocked. You need to enter the IP address of a network card on a computer.</li> <li>IP Address Range: Network cards that corresponding to a range of IP addresses are blocked. You need to enter the starting and ending addresses of the IP address range.</li> <li>All IP Address: Network cards of all computers are blocked.</li> </ul>		

After setting, click **Add** to add a new rule. Then, click **Apply** to save the settings in the **Block Services** page.

# 6.5.4 Schedule

Click **Schedule** on the left pane of the page to display the following page.

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Schedule	Schedule		
Davia ta Blaziki			
Days to Block:			
Every Day			
🔽 Sunday			
🔽 Monday			
🗹 Tuesday			
📈 Wednesday			
M Thursday			
Friday			
V Saturday			
Time of day to Block:(use 24-	hour clock)		
🔽 All Day			
Start Blocking	OO Hour OO Minute		
End Blocking	23 Hour 59 Minute		
Time Zone			
(GMT+08:00) Beijing, Chongqing, H	Hong Kong, Urumqi 🔍		
Automatically adjust for daylight	savings time		
Curr	Current time: Saturday, Jan01, 2011 20:16:53		

```
Apply Cancel
```

If you already set content filtering in the **Block Sites** page or set sevice filtering in the **Block Services** page, you can set a schedule to specify the time and mode of restricting Internet access.

The following table describes parameters in this page:

Field	Description
Days to Block	Select every day, one day, or several days.
Time of Day to Block	If you want to fully restrict access every day, select <b>All Day</b> . If you want to restrict access in a specific time during certain days, select the days and enter the starting time and ending time.

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Field	Description			
	Note that the system uses 24-hour clock.			
Time Zone	Select the proper local time zone. After selecting the time zone, the time schedule can work properly. You may select <b>Automatically adjust for daylight savings time</b> according to your location.			

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

### 6.5.5 E-mail

Click **E-mail** on the left pane of the page to display the following page. **E-mail** 

Turn E-mail Notification On	
Send Alerts and Logs Via E-mail	
Your Outgoing Mail Server:	
Send To This E-mail Address:	
Vour Mail Server requires authentication	
User Name	
Password	
Send Alert Immediately When Someone Attempts To Visit A Blocked Site.	
Send Logs According to this Schedule None Day Sunday Time 12:00 & a.m. © p.m.	
Apply Cancel	

The wireless router can send the alarm information to you if someone tries to access the blocked sites. The log information lists all the accessed URL addresses.



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If you hope that the wireless router sends you the alarm and log information by E-mail, please set the relevant parameters in this page.

The following table describes parameters in this page:

Field	Description			
Turn E-mail	Enable or disable E-mail notification function.			
Notification On				
Your Outgoing Mail	Enter SMTP outgoing mail server of ISP.			
Server				
Send To This E-mail	Enter an E-mail address. The alarm and log information			
Address	can be sent to this E-mail address.			
Your Mail Server	If your mail server requires authentication for sending an			
requires	E-mail, please select this option and enter the correct			
authentication	username and password.			
User Name	Enter the user name of your E-mail server.			
Password	Enter the password of your E-mail server.			
Send Alert	Enable or disable the function of sending alarm			
Immediately	information immediately to your e-mail.			
Send Logs According	Set the regular time for sending the log information to your			
to this Schedule	E-mail.			

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

### 6.6 Maintenance

Click Maintenance and the extended navigation menu is shown as follows:



The submenu contains Router Status, Attached Devices, Backup Settings, Set Password, and Router Upgrade.

### 6.6.1 Router Status

 $\label{eq:click} \mbox{\bf Router Status} \mbox{ on the left pane of the page to display the following page.}$ 

# Router Status

System Info	
Hardware Version	WNR612
Firmware Version	1.0.7.1
Time and Date	2011-01-01 21:44:16
Internet Port	
MAC Address	00:1E:E3:DA:95:B0
Internet	Disconnected(DHCP)
IP address	0.0.0.0
IP Subnet mask	0.0.0.0
Default Gateway	0.0.0.0
Domain Name Server	0.0.0.0
LAN Port	
MAC Address	00:1E:E3:DA:95:AF
IP Address	192.168.1.1
IP Subnet Mask	255.255.255.0
Wireless Port	
Wireless Network Name (SSID)	NETGEAR
Region	Asia
Wireless Channel	2.442GHz- CH7
802.11 Mode	Up to 150Mbps
Wireless Radio	Enabled
Broadcast Name	ON
Wireless Isolation	OFF
Wi-Fi Protected Setup	ON
Wireless Security Mode	None

This page displays the information of the current running status of the device, including system information, connection status of the Internet port, LAN port, and wireless port.

Click Show Statistics to display the following page.

#### System Up Time00:02:06

Port	Status	TxPkts	RxPkts	Collisions	Tx B/s	Rx B/s	Up Time
WAN	LinkDown	0	0	0	0	0	00:00:00
LAN 1	100M/Full	783	607	0	572287	80889	00:01:56
LAN 2	LinkDown						00:00:00
WLAN	150Mbps	144	2298	0	56448	378835	00:01:48

Poll Interval: 5 (1~86400 secs) Set Interval Stop

This page displays the performance statistics information of the router, including the numbers of sent and received packets at each port.

The following table describes parameters in this page:

Field	Description
System Up Time	Display the time period that the router is running.
Set Interval	Set the interval for refreshing this page. Its value range is 1 to 86400 seconds. Enter a value in the field and click <b>Set Interval</b> . The settings take effect immediately. If you click <b>Stop</b> , this page displays the statistics information when the page is refreshed for the last time and it is not refreshed any more.

Click **Connection Status** in the **Router Status** page, and the **Connection Status** page appears. This page displays the information of current connection on the router.

If the WAN connection is set to **Dynamic IP (DHCP)**, the **Connection Status** page is as shown in the following figure:

# **Connection Status**

IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0
DHCP Server	0.0.0.0
DNS Server	0.0.0.0
Lease Obtained	0Day,0Hour,0Minute
Lease Expires	0Day,0Hour,0Minute

Release Renew

### Close Window

The following table describes buttons in this page:

Button	Description
Release	Click the button to release the IP address of the WAN interface.
Renew	Click the button to refresh the parameters in this page.

If the WAN connection is set to any other mode, you can view the information, the parameters in the **Connection Status** page varies according to the Internet connection mode.

For detailed descriptions of the WAN connection modes, refer to the section 错误! 未找到引用源。.

### 6.6.2 Attached Devices

Click Attached Devices on the left pane of the page to display the following page.

#### Attached Devices

	Device Name	MAC Address
192.168.1.136	GJ544D	00:22:19:04:FE:26
Devices(Wireless int	ruders also show up here) Device Name	MAC Address
		192.168.1.136 GJ544D

This page displays the information of computers connected to the router, including the IP adress, device name, and MAC address of each computer. Click **Refresh** to refresh the information of the connected computers.

### 6.6.3 Backup Settings

Click Backup Settings on the left pane of the page to display the following page.

Save a Copy of Current Sett	ings	
	Backup	
Restore Saved Setting from	a File	
	Browse	
	Restore	
Revert to Factory Default Se	ttings	
	Erase	
Reboot Device		
	Reboot	

In this page, you can export the configuration information of the router in a file to the computer for later use, import a previously saved or a new configuration file, restore the factory default settings of the router, and reboot the router.

- Backup Click Backup and select the path to save the configuration of the router as a local file.
- Restore

Click **Browse...** to select the configuration file in your computer and click **Restore** to load the selected file to the router.

Erase

Click **Erase** to restore the factory default settings of the router. This operation has the same effect of pressing the **Reset** button on the rear panel for 3 seconds.

Reboot
 Click **Reboot** to reboot the router.

# ▲ Caution:

After a new configuration file is imported, the original configuration information of the router is lost. Hence, it is recommended to back up the configuration before importing a new configuration file. If the new configuration file is incorrect, you can import the previous backup file. During a configuration file is loading, do not power off the router. Otherwise, the router may be damaged and fail to work.

#### 6.6.4 Set Password

Click Set Password on the left pane of the page to display the following page.

Old Password	
Set Password	
Repeat New Password	

In this page, you can change the password of the administrator. The following table describes parameters in this page:

Field	Description
Old Password	Enter the password for logging in to the router.
Set Password	Enter a new password.
Repeat New Password	Enter the new password again.

#### A Note:

For security measures, it is strongly recommended to change the default password of the administrator. If you forget the password, you can restore the router to the default settings. The default user name and password are **admin** and **password** respectively.

# 6.6.5 Router Upgrade

Click Router Upgrade on the left pane of the page to display the following page.

### Router Upgrade

ocate and select the upgrade file from your hard disk:		
	Browse	
	Upload Cancel	

In this page, you can upgrade the software of the router in the following steps:

- Step 1 Click Browse... to navigate to the latest software.
- Step 2 Select the correct upgrade file.
- Step 3 Click Upload to start upgrading.

After the upgrade is complete, the router automatically reboots.

▲ Caution:

To avoid losing previous configuration of the router, save the configuration before upgrade.

During upgrade, do not power off the router or press the Reset button.

# 6.7 Advanced Settings

Click Advanced and the extended navigation menu is shown as follows:



The submenu of advanced settings contains Advanced Wireless Settings, Wireless Repeating Function, Port Forwarding/Port Triggering, WAN Setup, LAN Setup, QoS Setup, Dynamic DNS, Static Routes, Remote Management, UPnP, and Traffic Meter.

### 6.7.1 Advanced Wireless Settings

Click **Advanced Wireless Settings** on the left pane of the page to display the following page..

Advanced Wireless Settings	
Wireless Advanced Setting ☑ Enable Wireless Router Radio	
Fragmentation Length (256-2346)	2346
CTS/RTS Threshold (1-2347)	2346
Preamble Mode	Short Preamble 💌
Transmit Power Control	100% -
WPS Settings	
Router's PIN:	87682830
Disable Router's PIN	
🗆 Keep Existing Wireless Settings	
Wireless Card Access List	Setup Access List
	Apply Cancel

The following table describes parameters in this page:

Field	Description
Enable Wireless	After it is selected, the WLAN indicator on the front panel
Router Radio	of the router blinks. The client can now connect to the
	router wirelessly.
Fragmentation Length	Set the threshold of fragmentation length. If the length of a
(256-2346)	packet is greater than the value, the packet is
	automatically fragmented into several packets. Because
	too many packets lead to low performance of the wireless
	network, the value of Fragmentation Length cannot be
	too small. The default value is 2346.
CTS/RTS Threshold	Set the CTS/RTS threshold. If the length of a packet is
(1-2347)	greater than the value, the router sends an RTS frame to
	the destination station to negotiate. After receiving the
	RTS frame, the wireless station responds with a Clear to

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Field	Description
	Send (CTS) frame to the router, indicating that they can communicate with each other. The default value is 2346.
Preamble Mode	Set the preamble mode. You may select Long preamble or Short preamble. The default is Short preamble. A preamble (especially the 802.11b High Rate/DSSS PHY field; 56 digits synchronized field for short preamble) defines the length of the CRC correction block for communication between wireless devices. Shorter settings should be applied in a network of intense traffics. Short preamble is mainly used to improve the efficiency of a wireless network for applications that have high
	requirement of real-time, such as streaming video and voice-over-IP telephony.
Transmit Power Control	Set the transmit power of the router. The default is <b>100%</b> , which indicates to transmit full power.
Router's PIN	To configure wireless settings of the router through WPS, you need to enter PIN on the wireless client.
Enable WPS	Enable or disable WPS.
Disable Router's PIN	Enable or disable routeris PIN mode.
Keep Existing Wireless Settings	It determines whether WPS is configured on the router. If this option is not selected, newly added wireless clients changes the wireless settings of the router into random SSID and security key that are automatically generated.
Wireless Card Access List	You can set to allow only network cards of specific PCs to access your wireless network according to the MAC address of the network card of a PC. Click <b>Setup Access</b> <b>List</b> to add, edit, or delete entries in the <b>Wireless Card</b> <b>Access List</b> page.

Click Setup Access list button and the Wireless Card Access List page appears:

Wireless Card Access List	Wirel	ess	Card	Access	List
---------------------------	-------	-----	------	--------	------

	Device Name		Mac Address
--	-------------	--	-------------

Apply Cancel

The following table describes parameters and buttons in this page:

Field	Description
Turn Access	Enable or disable wireless access control. If it is selected, you
Control On	can restrict wireless network cards according to their MAC
	addresses.
Add	Click the button to add an entry of wireless network card in the
	Wireless Card Access Setup page that is displayed.
Edit	Select an entry of wireless network card and click the button to
	modify the device name or MAC address in the Wireless Card
	Access Setup page that is displayed.
Delete	Select an entry of wireless network card and click the button to
	delete it.

Click the  $\boldsymbol{Add}$  button and the  $\boldsymbol{Wireless}\ \boldsymbol{Card}\ \boldsymbol{Access}\ \boldsymbol{Setup}$  page appears:

#### Wireless Card Access Setup

	Device Name	Mac Address
	-	04:0C:CE:E0:B8:60
)	ANDROID_3188850087525FA6	78:D6:F0:33:59:C1
>		00:22:66:E2:37:41
)	GJ1461D	00:26:5A:80:87:48
	ALVIN	00:22:FA:F5:5F:08
; [	ARTHUR	00:1C:B3:61:D1:1B

Mac Address

## Add Cancel Refresh

The following table describes parameters in this page:

Field	Description
Available Wireless Cards	It displays all the available wireless network cards of PCs and their MAC addresses. Click the radio button of a network card to select its MAC address. If the list does not contain your desired wireless network card, you can manually enter the MAC address of the wireless network card.
Device Name	Name of the device. You can customize one.
Mac Address	Physical address of the network card. It is a string of 12 characters.

After setting, click **Add** to add a wireless card entry. Then, click **Apply** to save the settings in the **Advanced Wireless Settings** page.

# 6.7.2 Wireless Repeater

Wireless distribution system (WDS) enables interconnection between APs in an IEEE 802.11 wireless network. It extends the wireless network through several APs, without connection of wired backbone network. This function is also called wireless repeating or bridging.

Click **Wireless Repeating Function** on the left pane of the page to display the following page.

Wireless Repeater

#### Enable Wireless Repeating Function

Wireless MAC of this router: 00:1E:E3:DA:95	5:AF						
Wireless Repeater							
Disable Wireless Clients Association Repeater IP Address:	192	. 168	. 1				
Basic Station MAC Address:		:	:	:	:	:	
Wireless Basic Station							
Disable Wireless Clients Association							
Repeater MAC Address 1:		:	:	:	:	:	
Repeater MAC Address 2:		:	:	:	:	:	
Repeater MAC Address 3:		:	:	:	:	:	
Repeater MAC Address 4:		:	:	:	:	:	
A	pply	Cance					

The following table describes parameters in this page:

Field	Description
	Enable or disable wireless repeating.
Enable Wireless	If the channel is set to Auto, this function cannot be
Repeating Function	enabled. If you try enabling the function when the
	channel is set to Auto, the system automatically

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Field	Description
	switches to the <b>Wireless Settings</b> page, where you can change the channel.
Wireless Repeater	In this mode, the router serves as a repeater to communicate with the central base station.
Disable Wireless Clients Association	If it is selected, clients cannot access the LAN.
Repeater IP Address	Enter the IP address of the repeater. It must be in the same network segment as the IP address of the central base station.
Basic Station MAC Address	Enter the physical address of the central base station.
Wireless Basic Station	In this mode, the router serves as the central base station to communicate with repeaters. You can add up to four repeaters. The central base station forwards the data of communication between repeaters to the destination repeaters. Repeaters should be configured accordingly.
Repeater MAC Address 1/2/3/4	Enter the physical address of the repeater.

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

# 6.7.3 Port Forwarding/Port Triggering

Click **Port Forwarding/Port Triggering** on the left pane of the page to display the following page.

Please select the service type			
Port Forwarding			
C Port Triggering			
Service Name	Service IP	Address	
FTP 💌	192 168	B. 1 Add	]
# Server Name	Start Port	End Port	Server IP Address
# Server Name	Start Port	End Port	Server IP Address
	Edit Service	Delete Service	

#### • Port Forwarding

By default, the firewall function of the router hides your LAN. As a result, other users on the Internet can detect only the router, but cannot access a certain PC in the LAN directly. If you want to access a PC in a LAN, you need to configure port forwarding on the router and map the desired port to the corresponding PC in the LAN. After setting, after receiving an access request from the Internet, the router forwards the packets to the PC according to the rule of port mapping. In this way, communication is successfully established between the Internet and the PC in the LAN.

Choose **Port Forwarding** in the **Port Forwarding/Port Triggering** page to display the following page.

Please select the service type				
Port Forwarding				
C Port Triggering				
Service Name	Service IF	Address		
FTP 💌	192   168   1   Add			
# Server Name	Start Port	End Port	Server IP Address	
	Edit Service	Delete Service		
		0 1		
	Add Cust	om Service		

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

Field	Description
Service Name	Select a service type from the drop-down list.
Service IP Address	Enter the IP address of the computer on which the service is to be provided.
Add	Click the button to add a service.
Edit Service	Click the button to edit a service entry in the <b>Ports - Custom</b> <b>Service</b> page that is displayed.
Delete Service	Delete a service entry.
Add Custom Service	If the list does not contain your desired service, click the button to add a service in the <b>Ports - Custom Service</b> page that is displayed.

Click the **Add Custom Service** button and the **Ports - Custom Service** page appears:



#### Ports - Custom Service

Service Name:	
Protocol :	TCP 🔽
Starting Port	(1~65535)
Ending Port	(1~65535)
Server IP Address	
	Apply Cancel

# The following table describes parameters in this page:

Field	Description
Service Name	Select a service type from the drop-down list.
Indicate the protocol that is used at the mapping port. Ye	
Protocol select TCP/UDP, TCP, or UDP.	
	After the connection to the mapping port is established, the
Starting Port	corresponding port is open and the application can initiate
consequent connection requests to the open port.	
Ending Port	Set the end port of the mapping port range.
Server IP	Enter the IP address of the computer on which the service is to be
Address	provided.

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

#### • Port Triggering

Certain applications, such as WAN network games, video conferences, and network calls, require multiple connections. Because of the firewall setting, these applications cannot work on a simple NAT router. However, certain special applications enable the applications to work on a NAT router. When an application sends a connection request to a trigger port, the corresponding ports are open, for later connection and service provision.



Choose **Port Triggering** in the **Port Forwarding/Port Triggering** page to display the following page.

## Port Triggering

	tune				
Please select the service	type				
O Port Forwarding					
Port Triggering					
Enable Port Triggerin	g				
Port Triggering Timeout(i	n minute	s)	20	(1-9999)	
# Enable Server	Name	Service Type	Requi	red Inbound Connection	n Service User
	Add S	ervice Edit	Service	Delete Service	
		Apply	/ Cance	1	

The following table describes parameters in this page:

Field	Description
Enable Port Triggering	Enable or disable port triggering.
Port Triggering Timeout (in minutes)	Enter a value not greater than 9999. The timeout value controls the inactive timer at the specified ingress port. Upon timeout of the inactive timer, the ingress port is disabled.
Add Service	Click the button to add a rule in the <b>Port Triggering – Services</b> page that is displayed.
Edit Service	Click the button to edit a selected rule in the <b>Port Triggering</b> – <b>Services</b> page that is displayed.
Delete Service	Click the button to delete a selected rule.

Click the Add Service button and the Port Triggering – Services page appears:

Port	Triac	ierina	- Serv	ices
	ingg	Jerning	- 0010	1003

Service Name	
Service User	Any
Service Type	TCP
Triggering Port	(1~65535)
Required Inbound Connection	
Connection Type	TCP 🔽
Starting Port	(1~65535)
Ending Port	(1~65535)
	Apply Cancel

The following table describes parameters in this page:

Field	Description
Service Name	Enter the service name.
Service User	<ul> <li>You can select Any or Single address.</li> <li>Any: Allow everybody in the user network to use the service.</li> <li>Single address: Enter the IP address of the network card on the PC. Then, the service is applied only on the specific network card of the PC.</li> </ul>
Service Type	Indicate the protocol used at the triggering port. You can select <b>TCP/UDP</b> , <b>TCP</b> , or <b>UDP</b> .
Triggering Port	Unless this port generates the traffic, the input connection service cannot be triggered.
Connection Type	You can select <b>TCP/UDP</b> , <b>TCP</b> , or <b>UDP</b> .
Starting Port	When the connection to the triggering port is successful, the corresponding ports are open and the application can send consequent connection request to the open ports.

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Field	Description
Ending Port	Set the end port of the triggering port range.

After setting, click **Apply** to add the rule of port triggering.

# 6.7.4 WAN Setup

Click **WAN Setup** on the left pane of the page to display the following page. WAN Setup

Disable Port Scan and DOS Protection	n				
Default DMZ Server		192	. 168	. 1	
Respond to Ping on Internet Port					
Disable IGMP Proxying					
MTU Size(in bytes)					1500
NAT Filtering				• Se	ecured C Open
Disable SIP ALG     Enable IPv6 Pass-Through					
	Apply Can	cel			

In this page, you can set a default DMZ server and allow the router to respond to the ping command from the Internet. Do not use the two functions unless it is necessary because they lead to security risks. DMZ allows all ports of a PC in your LAN to be exposed to the WAN. Enter the IP address of a PC to set the PC to a DMZ host, which is not restricted by the firewall any more. In this way, the DMZ

host can have mutually unrestricted communcation with a user or server on the WAN.

The following table describes parameters in this page:

	table describes parameters in this page:			
Field Description				
Disable Port				
Scan and	This function protects your LAN against DoS attack. Do not			
DOS	disable this firewall function unless a special situation occurs.			
Protection				
Default DMZ	Enter the IP address of a computer or server that serves as a DMZ			
Server	server.			
Deenend to	If you want the router to respond to ping commands from the			
Respond to	Internet, select the check box. The ping command can be used for			
Ping on	diagnosis. Like a DMZ server, this function also leads to security			
Internet Port	risks. Hence, do not select the check box unless it is necessary.			
Dischie JOMD	IGMP proxy allows a PC in the LAN to receive certain multicast			
Disable IGMP	traffics from the Internet. If you do not want to use IGMP proxy,			
Proxying select the check box to disable IGMP proxy.				
	The maximum transmission unit. Normally, it is 1500 bytes for			
	most Ethernet networks, 1492 bytes for PPPoE connection, and			
MTU Size (in	1436 bytes for PPTP connection. Certain ISPs may require			
bytes)	smaller MTU, but this is a rare case. Do not modify the value of			
	MTU size unless it is necessary for your ISP connection.			
	Determines the mode of the router to handle the input traffics.			
	• Secured: It provides a secure firewall that protects personal			
	computers in a LAN against attacks from the Internet.			
NAT Filtering	However, it causes malfunction of certain network games,			
	point-to-point (P2P) applications, and multimedia applications.			
	• Open: It provides firewall settings of a lower security level. It			
	allows running of almost all network applications.			
	Certain SIP applications have special mechanisms of passing			
Disable SIP	through the NAT firewall and SIP ALG may have conflicts with			
ALG	these mechanisms. In most cases, you should not disable SIP			
	ALG.			

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Field	Description
Enable IPv6 Pass-Through	By default, IPv6 pass-through is disabled. If your configuration contains IPv6 devices and you want to replace IPv4 with IPv6, you can select the check box to enable IPv6 pass-through.

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

## 6.7.5 LAN Setup

Click  $\ensuremath{\text{LAN setup}}$  on the left pane of the page to display the following page.

#### LAN IP Setup

Device Name		WNR612
LAN TCP/IP Setup		
IP Address		192   168   1   1
IP Subnet Mask		255 255 255 0
RIP Direction		Both 💌
RIP Version		Disabled 💌
Use Router as DHCP Server		
Starting IP Address		192 168 1 2
Ending IP Address		192 168 1 254
DHCP Lease Time( 1 - 160 hours)		24
Address Reservation		
# IP Address	Device Name	MAC Address
	Add Edit Delete	
	Apply Cancel	

In this page, you can configure the parameters of the LAN port. You can modify the IP address of the LAN port according to the actual network environment.

~	-
- 2	1
0	

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The following table d	escribes parameters and buttons in this page:
Field	Description
IP Address	Set the IP address that a LAN user uses to access the
	router. The default IP is 192.168.1.1. You can change it if
	necessary.
IP Subnet Mask	Subnet mask of the LAN port. You can enter a different
	subnet mask according to the actual network status.
RIP Direction	The mode in which the router sends and receives RIP
	packets. If it is set to Both or Out Only, the router
	periodically broadcasts its routing table. If it is set to <b>Both</b> or
	In Only, the router integrates the received routing tables.
RIP Version	The format of the RIP packets and broadcast mode that the
	router sends them. RIP-1 is universally supported. Routing
	data sent by using RIP-2B or RIP-2M is in RIP-2 format.
	RIP-2B uses subnet broadcast and RIP-2M uses multicast.
Use Router as	If it is selected, the router serves as the DHCP server and
DHCP Server	automatically assigns IP addresses for all connected
	computers.
Starting IP Address	The first address in a consecutive IP address pool.
Ending IP Address	The last address in a consecutive IP address pool.
DHCP Lease Time	After the DHCP lease time elapsed, the router automatically
(1 – 160 hours)	assigns new IP addresses for all connected computers.
Address	If an IP address is reserved for the network card of a PC in a
Reservation	LAN, the network card obtains the same IP address every
	time the network card accesses the DHCP server.
Add	Click the button to add an entry in the Address
	Reservation page that is displayed.
Edit	Select an entry of reserved address and click the button to
	modify the IP address, MAC address, or device name in the
	Address Reservation page that is displayed.
Delete	Select an entry of reserved address and click the button to
	delete it.

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Click the **Add** button in the **LAN IP Setup** page, and the **Address Reservation** page is as follows:

#### Address Reservation

	#	IP Address	Device Name	MAC Address
0 1		192.168.1.136	GJ544D	00:22:19:04:fe:26
MAC Add				

The following table describes parameters and buttons in this page:

Field	Description
Address	Display entries of reserved addresses. You can select the
Reservation Table	information of the local computer, or enter the IP address,
	MAC address, and device name of a computer, and then
	click Add to add an entry to the Address Reservation
	Table.
IP Address	Enter the IP address to be reserved. It must be within the IP
	address pool.
MAC Address	Enter the MAC address of a computer whose IP address is
	to be reserved.
Device Name	Enter the device name of a computer whose IP address is to
	be reserved.
Add	Click the button to add the entry to the Address
	Reservation Table.
Cancel	Click the button to cancel the entry just set.
Refresh	Click the button to refresh the page.

0	4
۰ð	4

After setting, click Add to add an entry to the Address Reservation Table.

#### Note:

- If your IP address is changed, you must use the new IP address to log in to the Web configuration page of the router and the default gateway of all hosts in the LAN must be set to the new IP address for Internet access.
- The subnet mask of all hosts in the LAN must be consistent with the subnet mask specified in the LAN IP Setup page.

## 6.7.6 QoS Setup

Click **QoS Setup** on the left pane of the page to display the following page. **QoS Setup** 

🗹 Enable WMM (Wi-Fi	multi-media) Settings
🗆 Turn Internet Qos A	iccess On
Turn Bandwidth Co Uplink bandwidt	
QoS Priority Rule list	Setup QoS rule
	Apply Cancel

The QoS function sets priority policies on applications, online games, Ethernet LAN ports, and MAC addresses, sets an order for various network traffics, and thus optimizes your network performance.

The following table describes parameters in the **QoS Setup** page:

Field		Description		
Enable	WMM	Enable or disable WMM. Wireless Multimedia (WMM) is a		
(Wi-Fi subset of the 802.11e standard. It supports setting priorities				
		05		

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Field	Description
multi-media)	wireless traffics according to data types within a certain range.
Settings	Time-related information such as audio and video has higher
	priority than normal data. To ensure proper performance of
	WMM, wireless clients must support WMM.
Turn Internet	Enable or disable QoS. After it is enabled, you can optimize the
QoS Access On	network access traffics according to the settings in the $\ensuremath{\text{QoS}}$
	Priority Table page.
Turn Bandwidth	Set the maximum uplink bandwidth at the WAN port.
Control On	If the value is in units of Kbps, the maximum value is 1000. If
	the value is in units of Mbps, the maximum value is 100.
Setup QoS rule	Click the button and the QoS Setup page is displayed
Enable Trusted	After it is enabled, you can reserve half egress bandwidth for a
IP Address	specified computer, to avoid impact to the computer because of
	Internet access behaviors by other users in the network.
Trusted IP	Specify the IP address of a computer. You need to enter only a
Address	numeral in the fourth field.

Click Setup QoS Rule and the QoS Setup page appears:

#### QoS Setup

	#	QoS Policy	Priority	Description
0	1	MSN Messenger	High	MSN_messenger Applications
0	2	Yahoo Messenger	High	Yahoo_Messenger Applications
0	3	IP Phone	Highest	IP_Phone Applications
0	4	Vonage IP Phone	Highest	Vonage_IP_Phone Applications
0	5	Net Meeting	High	NetMeeting Applications
0	6	AIM	High	AIM Applications
0	7	Google Talk	Highest	Google_Talk Applications
C	8	Netgear EVA	Highest	Netgear_EVA Applications
C	9	SSH	High	SSH Applications
C	10	Telnet	High	Telnet Applications
C	11	VPN	High	VPN Applications
0	12	FTP	Normal	FTP Applications
0	13	SMTP	Normal	SMTP Applications
0	14	WWW	Normal	WWW Applications
0	15	DNS	Normal	DNS Applications
C	16	ICMP	Normal	ICMP Applications
0	17	eMule/eDonkey	Low	eMule/eDonkey Applications
0	18	Kazaa	Low	Kazaa Applications
0	19	Gnutella	Low	Gnutella Applications
0	20	BT/Azureus	Low	BT/Azureus Applications
0	21	Counter Strike	High	On-line Gaming Counter-Strike
C	22	Age of Empires	High	On-line Gaming Age-of-Empires
0	23	Everquest	High	On-line Gaming Everquest
0	24	Quake 2	High	On-line Gaming Quake-2
0	25	Quake 3	High	On-line Gaming Quake-3
C	26	Unreal Tourment	High	On-line Gaming Unreal-Tourment
0	27	Warcraft	High	On-line Gaming Warcraft

Edit Delete Add Priority Rule

Apply Cancel

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The following table describes buttons in this page:		
Field	Description	
Edit	Click the button to change the priorities of the applications, LAN ports, online games, and MAC addresses in the <b>QoS Priority Table</b> .	
Delete	Click the button to delete a rule in the QoS Priority Table.	
Add Priority Rule	Click the button to set priority policy for an online game, an application, an Ethernet LAN port, or the MAC address of a computer in the <b>QoS – Priority Rules</b> page that is displayed.	

Click the **Add Priority Rule** button and the **QoS – Priority Rules** page for an application appears:

## QoS - Priority Rules

Priority	
QoS Policy For	
Priority Category	Applications 💌
Applications	Add A New Application 💌
Priority	Normal 💌
Specified Port Range	
Connection Type	TCP/UDP -
Starting Port	(1 - 65535)
Ending Port	(1 - 65535)
	Apply Cancel

The following table describes parameters in this page:

Field	Description
QoS Policy For	Enter the name of the QoS policy.
Priority Category	Select Applications.

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Field	Description	
Applications	Select an application that you want to set. If your desired application is not in the drop-down list, select Add A New Application.	
Priority	You can select Highest, High, Normal, or Low.	
Connection Type	Indicates the protocol that is used at the port. You can select <b>TCP/UDP</b> , <b>TCP</b> , or <b>UDP</b> .	
Starting Port	The first port to which an application sends a connection request. All relevant ports can be open only after connection is established at this starting port. Otherwise, other relevant ports are not open.	
Ending Port	Set the end port of the port range.	

The **QoS - Priority Rules** page for an online game is as follows:

#### QoS - Priority Rules

Priority	
QoS Policy For	
Priority Category	On-line Gaming 💌
On-line Gaming	Add a new Game
Priority	High 💌
Specified Port Range	
Connection Type	TCP/UDP -
Starting Port	(1 - 65535)
Ending Port	(1 - 65535)
	Apply Cancel

The following table describes parameters in this page:

Q	o
0	7

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Field	Description
QoS Policy For	Enter the name of the QoS policy.
Priority Category	Select On-line Gaming.
On-line Gaming	Select an online game that you want to set. If your desired online game is not in the drop-down list, select <b>Add a new Game</b> .
Priority	You can select Highest, High, Normal, or Low.
Connection Type	Indicates the protocol that is used at the port. You can select <b>TCP/UDP</b> , <b>TCP</b> , or <b>UDP</b> .
Starting Port	The first port to which an application sends a connection request. All relevant ports can be open only after connection is established at this starting port. Otherwise, other relevant ports are not open.
Ending Port	Set the end port of the port range.

The **QoS – Priority Rules** page for a LAN port is as follows:

QoS - Priority Rules

QoS Policy For     LAN Port 1       Priority Category     Ethernet LAN Port •       Ethernet LAN Port     1 •       Priority     Normal •	Priority	
Ethernet LAN Port	QoS Policy For	LAN Port 1
	Priority Category	Ethernet LAN Port 💌
Priority Normal 💌	Ethernet LAN Port	1 💌
	Priority	Normal 💌

The following table describes parameters in this page:

Field	Description	
QoS Policy For	Enter the name of the QoS policy.	

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Field	Description	
Priority Category	Select Ethernet LAN Port.	
Ethernet LAN Port	Select the LAN port that you want to set.	
Priority	You can select Highest, High, Normal, or Low.	

The  $\ensuremath{\textbf{QoS}}$  -  $\ensuremath{\textbf{Priority}}\xspace$  Rules page for an MAC address is as follows:

QoS - Priority Rules

Priority				
QoS Polic	y For			
Priority Category		MAC Address		
MAC Devi	ce List			
	QoS Policy	Priority	Device Name	MAC Address
0	Pri_MAC_104E88	Normal	WANLI	00:03:7F:10:4E:88
0	Pri_MAC_04FE26	Normal	GJ544D	00:22:19:04:FE:26
MAC Addre	ess			
Device Na	ime			
Priority			•	
		Add Edit D	elete Refresh	

Apply Cancel

The following table describes parameters in this page:

Field	Description
QoS Policy For	Enter the name of the QoS policy.
Priority Category	Select MAC Address.
MAC Device List	Display the existing priority rules of computers that have higher priorities according to MAC addresses.

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Field	Description
	Enter the MAC address and device name of a computer for
	which you want to set high priority, and then click Add to add
	the rule to the list.
MAC Address	Enter the MAC address of a computer for which you want to set
MAC Address	high priority.
Device Name	Enter the device name of a computer for which you want to set
	high priority.
Priority	You can select Highest, High, Normal, or Low.
Add	Click the button to add a priority rule to the MAC Device List.
Edit	Select a priority rule in the MAC Device List and click the
Edit	button to modify the priority rule.
Delete	Select a priority rule in the MAC Device List and click the
Delete	button to delete the priority rule from the list.
Refresh	Click the button to update the priority rules in the MAC Device
Reliesli	List.

After setting, click **Apply** to save the settings. Then, click **Apply** to save the settings in the **QoS Setup** page.

#### 6.7.7 Dynamic DNS

Dynamic DNS (DDNS) is mainly used to realize resolution between fixed domain names and dynamic IP addresses. For a user that uses a dynamic IP address, after the user obtains a new IP address when accessing to the Internet, the dynamic domain name software installed in the host sends the IP address to the dynamic domain name resolution server provided by the DDNS service provider and updates the domain name resolution database. When another user on the Internet tries accessing the domain name, the dynamic domain name resolution server returns the correct IP address.

Click **Dynamic DNS** on the left pane of the page to display the following page.

	Netgear	WNR612	Wireless	Router	User	Manual
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#### Dynamic DNS

🗌 Use a Dynamic DNS Se	rvice		
Service Provider			DynDNS.org
Host Name		myhostname	
User Name		User	
Password		••••	

In this page, you can configure the DDNS parameteres. The following table describes parameters in this page:

Field	Description
User a Dynamic DNS Service	Enable this function if you already register to the DDNS service provider.
Service Provider	You can only select <b>Dyndns.org</b> .
Host Name	Enter the host name or domain name provided by the DDNS service provider.
User Name	Enter the user name of the DDNS account.
Password	Enter the password of the DDNS account.

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

#### 6.7.8 Static Routes

Static routing is a special type of routing that can be applied properly in a network to reduce the problem of routing selection and overload of data flow because of routing selection and to improve the forwarding speed of packets. You can set the

destination IP address, subnet mask, and gateway to specify a routing rule. The destination IP address and subnet mask are used to determine a destination network or host. Then, the router sends packets to the specified destination network or host through the gateway.

Click Static Routes on the left pane of the page to display the following page.

c of rules	: 32			
#	Active	Name	Destination	Gateway

In this page, you can add, edit, and delete a static routing rule, and view the current static routing table in the router.

Click  $\boldsymbol{Add}$  and the following page appears:

ວເສ	uc	κo	ule	

Apply Cancel	
	Apply Cancel

The following table describes parameters of adding a routing rule:

Field	Description
Router Name	Enter the name of the static route.
Active	Enable it to apply the routing rule.
Destination IP	Indicate the destination address or network that you want to
Address	access.

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Field	Description
IP Subnet Mask	Subnet mask of the destination IP address.
Gateway IP Address	IP address of the router or host to which packets are sent.
Metric	Indicate the number of other routers in the user network. Its value range is 2 to 15. Usually, the value of 2 or 3 leads to the best performance. If the route is direct connection, set the <b>Metric</b> to <b>2</b> .

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

# 6.7.9 Remote Management

Click **Remote Management** on the left pane of the page to display the following page.

**Remote Management** 

🗌 Turn Remote Management On		
Remote Management Address : http://0.0.0.0:8080		
Allow Remote Access By : C Only This Computer : C IP Address Range :	From	
Everyone	To   .	
Port Number :		8080
	Apply Cancel	

The remote management function allows you to configure the router in the WAN through the Web browser. In this way, you can manage the router from a remote host.

Field	Description
Turn Remote Management On	Enable or disable remote Web management.
Remote Management Address	IP address that is used to access the router from the Internet. The default is http://0.0.0.8080. When accessing the router, you need to enter the WAN IP address of the router, along with : and the port number in the address bar (of IE) or the location bar (of Netscape).
Allow Remote Access By	<ul> <li>Set the IP address of the computer on which remote Web management is carried out to access the router.</li> <li>Only This Computer: Only the specified IP address can access the router. You need to enter an IP address.</li> <li>IP Address Range: A number of IP addresses on the Internet can access the router. You need to enter the starting and ending IP addresses to specify the range.</li> <li>Everyone: Everyone on the Internet can access the router.</li> </ul>
Port Number	Specify the port of Web management for accessing the broadband router.

After setting, click Apply to save the settings.

#### 6.7.10 UPnP

By using the Universal Plug and Play (UPnP) protocol, a host at the LAN side can ask the router to realize specific port conversion, so that an external host can access resources on the internal host when necessary. For example, if MSN Messenger is installed on Windows ME and Windows XP operating systems, UPnP can be used for audio and video conversations. In this way, functions restricted by NAT can work properly.

Click **UPnP** on the left pane of the page to display the following page.

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🗹 🛛 Turn UPn	IP On				
Advertisement Period(in minutes)				30	
Advertisement Time To Live(in hops)				4	
JPnP Portabl	e Table				
Active	Protocol	Int. Port	Ext. Port	IP Address	Description

The following table describes parameters in this page:

Field	Description
Turn UPnP On	Enable or disable UPnP.
Advertisement Period (in minutes)	Set the broadcast interval. It indicates the interval for broadcasting the UPnP information by the router. The value should be in the range of 1 to 1440 minutes and the default is 30 minutes.
Advertisement Time To live (in hops)	The time for the broadcast to live. It is the number of hops after each UPnP packet is sent. The number of hops is the times that each packet can be broadcast before it vanishes. The value should be in the range of 1 to 255 hops and the default is 4 hops.
UPnP Portable Table	This table shows the IP addresses of UPnP devices that are connected to the router and open (internal and external) ports on the devices. It also lists the types and status of the open ports.

#### Note:

Only applications that support UPnP can use the function. The functionality of UPnP requires support by the application and operating systems such as Windows ME, Windows XP, and Windows Vista.

# 6.7.11 Traffic Meter

Choose System Tools > Traffic Meter and the Traffic Meter page appears.

nternet Traffic Meter		
🗆 Enable Traffic Meter		
Traffic volume control by	No limit 🔽	
Monthly limit	0	MBytes
Round up data volume for each connection by	0	MBytes
Connection time control		
Monthly limit	0	Hours

Restart Counter Now

#### Traffic Control

Pop up a warning message

0 MBytes/Minutes before the monthly limit is reached

When the monthly limit is reached

Disconnect and disable the Internet connection

#### Internet Traffic Statistics

Start Date / Time: 2011-01-01 Saturday 20:00:17 Current Date / Time: 2011-01-01 Saturday 21:45:40 Traffic Volume Left: No limit

Counting Period	Connection Time (hh:mm)	Traffic Volume (MBytes) Upload/Avg Download/Avg Total/Avg		
Today	0:0	0	0	0
Yesterday	0:0	0	0	0
This week	0:0	0/0	0/0	0/0
This month	0:0	0/0	0/0	0/0
Last month	0:0	0/0	0/0	0/0

Apply Cancel

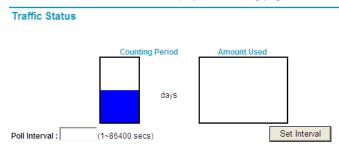


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This page records and restricts the traffics that pass through the Internet port of the router. The following table describes parameters and buttons in this page:

Field	Description
Enable Traffic Meter	Enable or disable traffic statistics and control.
Traffic volume control by	<ul> <li>Select the object of traffic control.</li> <li>No limit: No limit to the Internet traffics.</li> <li>Download only: Restrict downlink traffics only.</li> <li>Both directions: Restrict both uplink and downlink traffics.</li> <li>Monthly limit: Enter the allowed amount of traffics for each month.</li> <li>Round up data volume for each connection by: Certain ISPs counts extra traffics when a user establishes a new connection. In this case, set the extra data volume.</li> </ul>
Connection time control	Enter the allowed connection time for each month. It takes effect only in PPPoE dialup mode.
Restart traffic counter at traffic statistics is again. Click <b>Restart Counter Now</b> to start traffic statistics is again immediately.	
Traffic Control	Enter a number other than 0 as the threshold. If the available traffic or available connection time reaches the threshold, a warning message appears on the router and you can view the warning message in the <b>Traffic Status</b> page. If you select this option, all Internet access behaviors are blocked after the monthly traffic amount reaches the threshold.
Internet Traffic Statistics	Display the detailed statistics information of traffics at the Internet port.
Refresh	Click the button to update the information of traffics at the Internet port.
Traffic Status	Click the button and the <b>Traffic Status</b> page appears. You can view the utilization of Internet traffics in real time in this page.

Click the Traffic Status button to display the following page.



The following table describes parameters in this page:

Field	Description		
Poll Interval	Set the poll interval. Its value range is 1 to 86400 seconds. The page is refreshed periodically according to the set interval.		
Set Interval	Click the button and the poll interval setting takes effect.		

# 6.8 Web Support

Click Web Support and the extended navigation menu is shown as follows:



The submenu contains Knowledge Base and Documentation.

Click **Knowledge Base**, and then you can visit the Web site of the Netgear Company, to get useful information.

Click **Documentation**, and then you can download the user manual, finish product registration, and obtain Web support.

# 6.9 Logout

The Logout control is under the navigation bar on the left pane of the page. See the following figure:

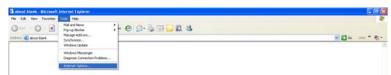
Web Support				
Knowledge Base				
Documentation				
Logout				

The logout function is used to log out the current login status. After logout, you need to log in again before accessing the configuration page of the router. For the method of login, refer to chapter 5 "Logging In to the Web Page".

# 7 Troubleshooting

Failure to configure the router through a web browser

(1) Open the Web browser (for example, IE) and choose **Tools** > **Internet Options** from the main menu.



(2) Click Delete Cookies... and Delete Files....

Internet Options				
General Security Privacy Content Connections Programs Advanced				
Home page You can change which page to use for your home page. Address: <u>Sbout.blank</u> Use Current Use Default Use Blank				
Temporary Internet files Pages you view on the Internet are stored in a special folder for quick viewing later. Delete Cookies Delete Files Settings				
History         The History folder contains links to pages you've visited, for quick access to recently viewed pages.         Days to keep pages in history.         20         Clear History				
Colors Fonts Languages Accessibility				
OK Cancel Apply				

Failure to establish wireless network connection

- Because the router is beyond the wireless coverage.
- (1) Place the router near the customer premises equipment (CPE).
- (2) Try modifying the channel setting.
  - Because of authentication problems.
- (1) Use a computer of wired connection to connect the router.
- (2) Check the network security settings.
- (3) Try hard reset on the router.
  - Because the router cannot be detected.
- (1) Try hard reset on the router and test again.
- (2) Check the settings of the wireless network.
- (3) Check the settings of SSID and encryption.

#### Failure to connect to the Internet through the wireless router

- (1) Place the router to the wireless area where the CPE can connect.
- (2) Check whether the wireless network card connects to the correct AP (base station).
- (3) Check whether the wireless channel accords with the channel specified in your country or region.
- (4) Check the encryption settings.
- (5) Check whether your ADSL cable is connected to the correct network interfaces.
- (6) Replace with a new network cable to connect to the router.

#### Failure to access the Internet

- (1) Check whether the status of indicators on the ADSL modem and the wireless router is normal.
- (2) Check whether the **WAN** indicator is on. If the WAN indicator is off, check whether the cable connected to the **WAN** interface is loose.
- (3) When the **Link** indicator keeps on but does not blink, the router is connected to the Internet.
- (4) Reboot your computer.
- (5) Set the AP again.
- (6) Check whether the WAN indicator is on.
- (7) Check the encryption settings of the wireless network.

- (8) Check whether the PC that connects to the router can obtain the IP address through either the wireless network or the cable network.
- (9) Check the LAN settings of your Internet options, and do not use a proxy server for your LAN. See the following figure:

nternet Options	? 🗙
General Security Privacy Content Connections	Programs Advanced
To set up an Internet connection, click Setup.	Setup
Dial-up and Virtual Private Network settings	
adsl (Default)	Add
	Remove
Choose Settings if you need to configure a proxy server for a connection.	Settings
<ul> <li>Never dial a connection</li> </ul>	
<ul> <li>Dial whenever a network connection is not prese</li> <li>Always dial my default connection</li> </ul>	ent
Current adsl	Set Default
Choose Settings above for dial-up settings. Local Area Network (LAN) Settings	? 🛛
<ul> <li>Automatic configuration</li> </ul>	
Automatic configuration may override manual set use of manual settings, disable automatic configu	
Automatically detect settings	
Use automatic configuration script	
Address	
Proxy server	
Use a proxy server for your LAN (These settin dial-up or VPN connections).	ngs will not apply to
Address: Port:	Advanced
Bypass proxy server for local addresses	
ОК	Cancel

# **FCC Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.