

TRENDIET



User's Guide

TEW-672GR H/W: V1.0R

Federal Communication Commission Interference 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.

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.

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.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device is going to be operated in 5.15~5.25GHz frequency range, it is restricted in indoor environment only.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

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Getting Started with the TEW-672GR

Congratulations on purchasing the TEW-672GR! This manual provides information for setting up and configuring the TEW-672GR. This manual is intended for both home users and professionals.

The following conventions are used in this manual:



THE NOTE SYMBOL INDICATES ADDITIONAL INFORMATION ON THE TOPIC AT HAND.



THE TIP SYMBOL INDICATES HELPFULL INFORMATION AND TIPS TO IMPROVE YOUR NETWORK EXPERIENCE.



THE CAUTION SYMBOL ALERTS YOU TO SITUATIONS THAT MAY DEGRADE YOUR NETWORKING EXPERIENCE OR COMPROMISE



LIKE NOTES AND TIPS, THE IMPORTANT SYMBOL INDICATES INFORMATION THAT CAN IMPROVE NETWORKING. THIS INFORMATION SHOULD NOT BE OVERLOOKED.

Package Contents

- TEW-672GR 2.4/5GHz Dual-Band Wireless 802.11n(DRAFT) Giga Router
- CAT-5 Ethernet Cable
- Power Adapter (12V, 1A)
- CD-ROM with Manual
- Quick Installation Guide



Using a power supply with a different voltage than the one included with your product will cause damage and void the warranty for this product.

Minimum System Requirements

- Ethernet-Based Cable or DSL Modem
- Computers with Windows, Macintosh, or Linux-based operating systems with an installed Ethernet adapter and CD-ROM Drive
- Internet Explorer Version 6.0 or Netscape Navigator Version 7.0 and Above

Wireless LAN Networking

This section provides background information on wireless LAN networking technology. Consult the **Glossary** for definitions of the terminology used in this section.



THE INFORMATION IN THIS SECTION IS FOR YOUR REFERENCE. CHANGING NETWORK SETTINGS AND PARTICULARLY SECURITY SETTTINGS SHOULD ONLY BE DONE BY AN AUTHORIZED ADMINISTRATOR.

Transmission Rate (Transfer Rate)

The TEW-672GR provides various transmission (data) rate options for you to select. In most networking scenarios, the factory default Best (automatic) setting proves the most efficient. This setting allows your TEW-672GR to operate at the maximum transmission (data) rate. When the communication quality drops below a certain level, the TEW-672GR automatically switches to a lower transmission (data) rate. Transmission at lower data speeds is usually more reliable. However, when the communication quality improves again, the TEW-672GR gradually increases the transmission (data) rate again until it reaches the highest available transmission rate.

Types of Wireless Networks

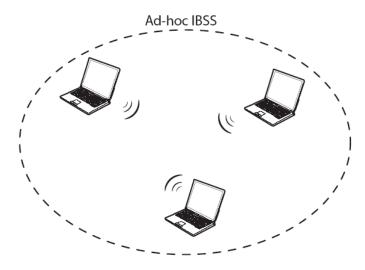
Wireless LAN networking works in either of the two modes: ad-hoc and infrastructure. In infrastructure mode, wireless devices communicate to a wired LAN via access points. Each access point and its wireless devices are known as a Basic Service Set (BSS). An Extended Service Set (ESS) is two or more BSSs in the same subnet. In ad hoc mode (also known as peer-to-peer mode), wireless devices communicate with each other directly and do not use an access point. This is an Independent BSS (IBSS).

To connect to a wired network within a coverage area using access points, set the operation mode to Infrastructure (BSS). To set up an independent wireless workgroup without an access point, use Ad-hoc (IBSS) mode.

AD-HOC (IBSS) NETWORK

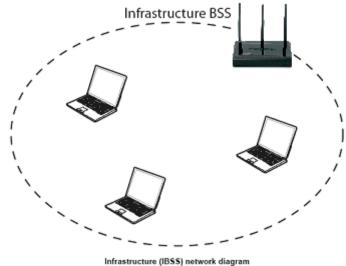
Ad-hoc mode does not require an access point or a wired network. Two or more wireless stations communicate directly to each other. An ad-hoc network may sometimes be referred to as an Independent Basic Service Set (IBSS).

To set up an ad-hoc network, configure all the stations in ad-hoc mode. Use the same SSID and channel for each station.



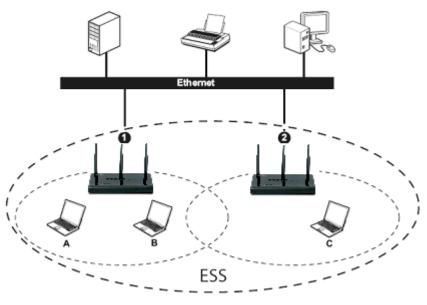
Ad-hoc (also known as peer-to-peer) network diagram

When a number of wireless stations are connected using a single access point, you have a Basic Service Set (BSS).



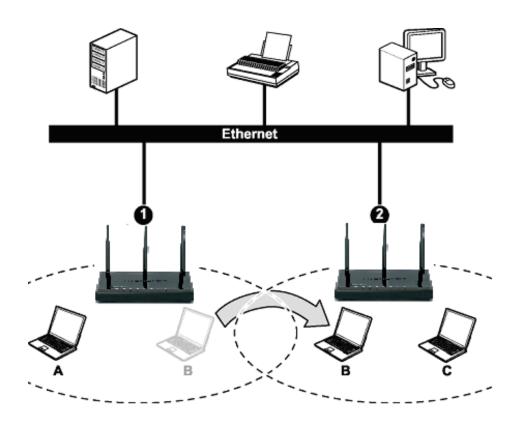
illinastracture (1033) network diagram

In the ESS diagram below, communication is done through the access points, which relay data packets to other wireless stations or devices connected to the wired network. Wireless stations can then access resources, such as a printer, on the wired network.



Infrastructure (ESS) network diagram

In an ESS environment, users are able to move from one access point to another without losing the connection. In the diagram below, when the user moves from BSS (1) to BSS (2) the WLAN client devices automatically switches to the channel used in BSS (2).



Introduction

The 300Mbps Dual Band Wireless N Gigabit Router offers unsurpassed wireless speed, coverage and reliability. Enjoy up to 14x the speed and 6x the coverage of a wireless g connection*.

Dual Band wireless n technology uses 11 additional wireless channels, reduces wireless interference and optimizes performance in the most challenging environments.

Advanced Multiple Input Multiple Output (MIMO) antenna technology eliminates wireless dead spots. Advanced wireless encryption and a manual on/off wireless switch keeps your data safe. Wireless Protected Setup (WPS) integrates other WPS supported wireless adapters at the touch of a button. Seamlessly stream HD media, download files, surf and play games all at the same time.

**Maximum wireless signal rates are referenced from IEEE 802.11 theoretical specifications. Actual data throughput and coverage will vary depending on interference, network traffic, building materials and other conditions.

Features

- IEEE 802.11n draft 2.0 and IEEE 802.11a/b/g compliant
- Dual band 2.4Ghz and 5Ghz Wireless Local Area Networking (WLAN) in one device
- 4 x 10/100/1000Mbps Auto-MDIX LAN ports and 1 x 10/100/1000Mbps WAN port (Internet)
- Gigabit LAN ports for high speed network connectivity
- Compatible with most popular cable/DSL Internet service providers using Dynamic/Static IP, PPPoE, PPTP and L2TP
- High-speed data rates up to 300Mbps using an IEEE 802.11n draft 2.0 connection
- 3 external antennas provide high-speed performance and expansive wireless coverage
- Advanced Firewall protection with Network Address Translation (NAT) and Stateful Packet Inspection (SPI)
- Access restriction with Internet Access Control; time scheduling, URL and MAC filtering
- Built in pre-configured virtual servers and Application Level Gateway services for special Internet applications
- Universal Plug and Play (UPnP) for auto discovery and support for device configuration of Internet applications
- Enable/disable wireless functionality with the WLAN on/off toggle switch
- Multiple pass-through sessions for popular VPN applications (IPSec, L2TP and PPTP)
- Easy setup via Web browser using the latest versions of Internet Explorer, FireFox, and Safari
- One touch wireless security setup using the Wi-Fi Protected Setup (WPS) button

- Complete wireless security with WPA/WPA2, WPA-PSK/WPA2-PSK, and WEP
- Windows 95/98/NT/2000/XP/2003 Server/Vista, Linux and Mac OS supported
- 3-year limited warranty

Product usage



Note: The TEW-672GR only supports one wireless mode at a time. The dual band wireless n Router use 2.4GHz 802.11b/g/n or 5GHz 802.11a/n, only one frequency can be select for use.

Hardware Overview



LED Indications:

LEDs Indication	LED 1	Power	Green ON:
			Power ON
			Green OFF:
			Power OFF
	LED 2	WAN	Green/Orange OFF: No link
			Green ON: 10/100Mbps connection established
			Green Blinking: 10/100Mbps connected with data traffic
			Orange ON: 1000Mbps connection established
			Orange Blinking: 1000Mbps connected with data traffic
	LED 3	LAN 1	Green/Orange OFF: No link
			Green ON: 10/100Mbps connection established
			Green Blinking: 10/100Mbps connected with data traffic
			Orange ON: 1000Mbps connection established
			Orange Blinking: 1000Mbps connected with data traffic
	LED 4	LAN 2	Green/Orange OFF: No link
			Green ON: 10/100Mbps connection established
			Green Blinking: 10/100Mbps connected with data traffic
			Orange ON: 1000Mbps connection established
			Orange Blinking: 1000Mbps connected with data traffic

LED 5	LAN 3	Green/Orange OFF: No link
		Green ON: 10/100Mbps connection established
		Green Blinking: 10/100Mbps connected with data traffic
		Orange ON: 1000Mbps connection established
		Orange Blinking: 1000Mbps connected with data traffic
LED 6	LAN 4	Green/Orange OFF: No link
		Green ON: 10/100Mbps connection established
		Green Blinking: 10/100Mbps connected with data traffic
		Orange ON: 1000Mbps connection established
		Orange Blinking: 1000Mbps connected with data traffic
LED 7	Wireless	Green/Orange OFF: Wireless disable
		Green ON: 11b/g mode enabled
		Green Blinking: 11b/g mode enables with data traffic
		Orange ON: 11n mode enabled
		Orange Blinking: 11n mode enabled with data traffic
LED 8	WPS	Green OFF: No WPS/PBC activity
		Green Blinking : PBC in progress
		Orange Blinking (faster): WPS error
		Orange Blinking (normal): WPS success
LED 9	Reserve	Green





Rear panel: (from bottom to top)

Standard	Wired: IEEE 802.3 (10Base-T), 802.3u (100Base-TX), 802.3ab (1000Base-T) Wireless: IEEE 802.11a, 802.11b, 802.11g, 802.11n (draft)	
I/O Ports	One WAN Port	10/100/1000Mbps Auto-MDIX
	Four LAN Ports	10/100/1000Mbps Auto-MDIX
	Slide Switch	Turn ON/OFF wireless LAN
	Power Jack	DC Input, φ 2.0 (Diameter)
	Reset Button	Reset to factory default setting
	WPS Button (side)	Trigger WPS/PBC function

Installation Considerations

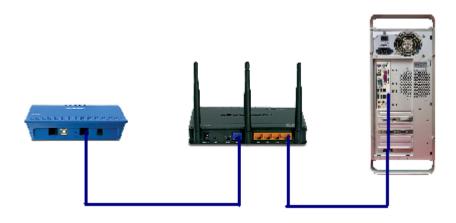
The TEW-672GR 2.4/5GHz Dual-Band Wireless 802.11n(DRAFT) Giga Router lets you access your network, using a wireless connection, from virtually anywhere within its operating range. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

- 1 Keep the number of walls and ceilings between the TEW-672GR and other network devices to a minimum each wall or ceiling can reduce your wireless product's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- 2 Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
- 3 Building Materials can impede the wireless signal a solid metal door or aluminum studs may have a negative effect on range. Try to position wireless devices and computers with wireless adapters so that the signal passes through drywall or open doorways and not other materials.
- 4 Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate extreme RF noise.

Getting Started

For a typical wireless setup at home, please do the following:

- 1. You will need broadband Internet access (a Cable or DSL-subscriber line into your home or office)
- 2. Consult with your Cable or DSL provider for proper installation of the modem.
- 3. Connect the Cable or DSL modem to the TEW-672GR Wireless Broadband Router (WAN port).
- 4. Ethernet LAN ports of the TEW-672GR are Auto MDI/MDIX and will work with both Straight-Through and Cross-Over cable.



Using the Configuration Menu

Whenever you want to configure your TEW-672GR, you can access the Configuration Menu through your PC by opening the Web-browser and typing in the IP Address of the TEW-672GR. The TEW-672GR's default IP Address is http://192.168.10.1

- > Open the Web browser.
- > Type in the **IP Address** of the Router (http://192.168.10.1).



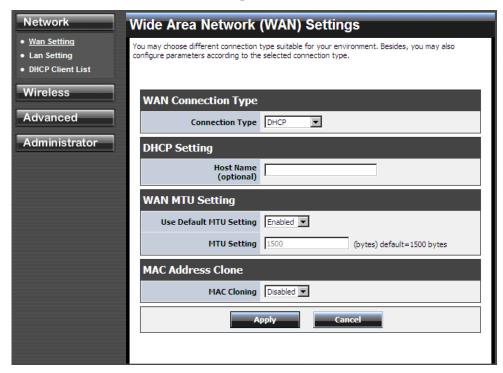


If you have changed the default IP Address assigned to the TEW-672GR, make sure to enter the correct IP Address.

- > Select admin in the User Name field.
- Leave the **Password** blank.
- > Click Login In.

Network

Network: WAN Setting



WAN Connection Type

There are several connection types to choose from: Static IP, DHCP, PPPoE, PPTP, L2TP, and Russia PPTP. If you are unsure of your connection method, please contact your Internet Service Provider.

Static

Used when your ISP provides you a set IP address that does not change. The IP information is manually entered in your IP configuration settings. You must enter the IP address, Subnet Mask, Gateway, Primary DNS Server, and Secondary DNS Server. Your ISP provides you with all of this information.

DHCP

A method of connection where the ISP assigns your IP address when your router requests one from the ISP's server.

Host Name: Some ISP's may check your computer's Host Name. The Host Name identifies your system to the ISP's server.

PPPoE

Select this option if your ISP requires you to use a PPPoE (Point to Point Protocol over Ethernet) connection. DSL providers typically use this option. This method of connection requires you to enter a

Username and Password (provided by your Internet Service Provider) to gain access to the Internet.

Reconnect Mode: Typically PPPoE connections are not always on. The router allows you to set the reconnection mode. The settings are:

Always on: A connection to the Internet is always maintained.

On demand: A connection to the Internet is made as needed.

Manual: You have to open up the Web-based management interface and click the Connect button manually any time that you wish to connect to the Internet.

Maximum Idle Time: Time interval the machine can be idle before the PPPoE connection is disconnected. The Maximum Idle Time value is only used for the "On demand" and "Manual" reconnect modes.

L2TP

L2TP (Layer Two Tunneling Protocol) uses a virtual private network to connect to your ISP. This method of connection requires you to enter a Username and Password (provided by your Internet Service Provider) to gain access to the Internet.

L2TP Server IP Address: The ISP provides this parameter, if necessary. The value may be the same as the Gateway IP Address.

Reconnect Mode: Typically PPPoE connections are not always on. The router allows you to set the reconnection mode. The settings are:

Always on: A connection to the Internet is always maintained.

On demand: A connection to the Internet is made as needed.

Manual: You have to open up the Web-based management interface and click the Connect button manually any time that you wish to connect to the Internet.

Maximum Idle Time: Time interval the machine can be idle before the PPPoE connection is disconnected. The Maximum Idle Time value is only used for the "On demand" and "Manual" reconnect modes.

WAN Interface IP Type

Static: If your ISP has assigned a fixed IP address, select this option. The ISP provides the values for the following fields for **WAN Interface IP Setting**:

IP Address, Subnet Mask, Default Gateway.

Dynamic: If the ISP's servers assign the router's IP addressing upon establishing a connection, select this option.

PPTP

PPTP (Point to Point Tunneling Protocol) uses a virtual private network to connect to your ISP. This method of connection is primarily used in Europe. This method of connection requires you to enter a **Username** and **Password** (provided by your Internet Service Provider) to gain access to the Internet.

PPTP Server IP Address: The ISP provides this parameter, if necessary. The value may be the same as the Gateway IP Address.

Reconnect Mode: Typically PPPoE connections are not always on. The router allows you to set the reconnection mode. The settings are:

Always on: A connection to the Internet is always maintained.

On demand: A connection to the Internet is made as needed.

Manual: You have to open up the Web-based management interface and click the Connect button manually any time that you wish to connect to the Internet.

Maximum Idle Time: Time interval the machine can be idle before the PPPoE connection is

disconnected. The Maximum Idle Time value is only used for the "On demand" and "Manual" reconnect modes.

WAN Interface IP Type

Static: If your ISP has assigned a fixed IP address, select this option. The ISP provides the values for the following fields for **WAN Interface IP Setting**:

IP Address, Subnet Mask, Default Gateway, and optional for DNS Server

Dynamic: If the ISP's servers assign the router's IP addressing upon establishing a connection, select this option.

Russia PPTP

The Russia PPTP can configure IP address on the WAN interface and establish PPTP to get IP address, subnet mask, default gateway and DNS for ANOTHER logical IP interface on WAN port. So the physical WAN port will have 2 logical IP interfaces and can communicate with internal ISP's network resources and also communicate with Internet through PPTP tunnel. It is specified by Russia Cobrina ISP, user can configure it the same as the normal PPTP and PPTP server IP Address can use the domain name string.

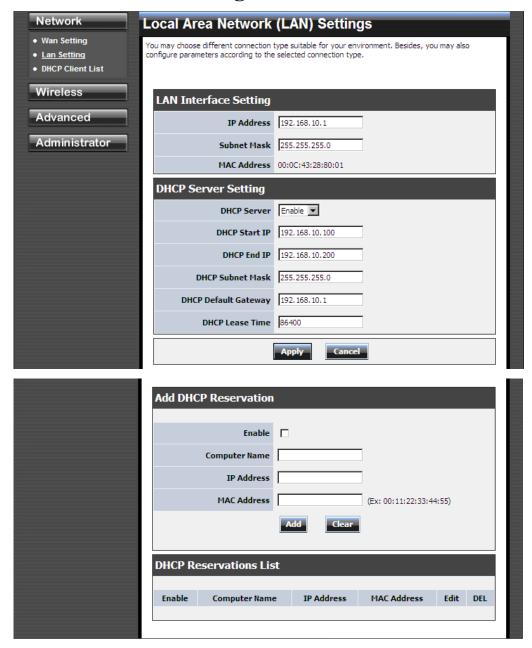
WAN MTU Setting

The Maximum Transmission Unit (MTU) is a parameter that determines the largest packet size (in bytes) that the router will send to the WAN. If LAN devices send larger packets, the router will break them into smaller packets. Ideally, you should set this to match the MTU of the connection to your ISP. Typical values are 1500 bytes for an Ethernet connection and 1492 bytes for a PPPoE connection. If the router's MTU is set too high, packets will be fragmented downstream. If the router's MTU is set too low, the router will fragment packets unnecessarily and in extreme cases may be unable to establish some connections. In either case, network performance can suffer. t modes.

MAC Address Clone

Each networking device has it's own unique MAC address defined by the hardware manufacturer. Some ISP's may check your computer's MAC address. Some ISP's record the MAC address of the network adapter in the computer or router used to initially connect to their service. The ISP will then only grant Internet access to requests from a computer or router with this particular MAC address. This router has a different MAC address than the computer or router that initially connected to the ISP. If you need to change the MAC address of the rounter's WAN-side Ethernet interface, either type in an alternate MAC address (for example, the MAC address of the router initially connected to the ISP) or copy the MAC address of a PC. To copy the MAC address of the computer that initially connected to the ISP, connect to the router using that computer and click the Clone Your PC's MAC Address button. The WAN interface will then use the MAC address of the network adapter in your computer.

Network: LAN Setting



LAN Interface Setting

IP Address

The IP address of the this device on the local area network. Assign any unused IP address in the range of IP addresses available for the LAN. For example, 192.168.10.101.

Subnet Mask

The subnet mask of the local area network.

DHCP Server Settings

DHCP stands for Dynamic Host Configuration Protocol. The DHCP section is where you configure the built-in DHCP Server to assign IP addresses to the computers and other devices on your local area network (LAN).

Enable DHCP Server

Once your router is properly configured and this option is enabled, the DHCP Server will manage the IP addresses and other network configuration information for computers and other devices connected to your Local Area Network. There is no need for you to do this yourself.

The computers (and other devices) connected to your LAN also need to have their TCP/IP configuration set to "DHCP" or "Obtain an IP address automatically". When you set **Enable DHCP Server**, the following options are displayed.

DHCP IP Address Range

These two IP values (Start and End) define a range of IP addresses that the DHCP Server uses when assigning addresses to computers and devices on your Local Area Network. Any addresses that are outside of this range are not managed by the DHCP Server; these could, therefore, be used for manually configured devices or devices that cannot use DHCP to obtain network address details automatically.

It is possible for a computer or device that is manually configured to have an address that does reside within this range. In this case the address should be reserved, so that the DHCP Server knows that this specific address can only be used by a specific computer or device.

Your router, by default, has a static IP address of 192.168.10.1. This means that addresses 192.168.10.2 to 192.168.10.254 can be made available for allocation by the DHCP Server.

Subnet Mask

The subnet mask of the local area network.

Gateway

The IP address of the router on the local area network. For example, 192.168.10.1.

DHCP Lease Time

The amount of time that a computer may have an IP address before it is required to renew the lease. The lease functions just as a lease on an apartment would. The initial lease designates the amount of time before the lease expires. If the tenant wishes to retain the address when the lease is expired then a new lease is established. If the lease expires and the address is no longer needed than another tenant may use the address.

Add/Edit DHCP Reservation

This option lets you reserve IP addresses, and assign the same IP address to the network device with the specified MAC address any time it requests an IP address. This is almost the same as when a device has a static IP address except that the device must still request an IP address from the router. The router will provide the device the same IP address every time. DHCP Reservations are helpful for server computers on the local network that are hosting applications such as Web and FTP. Servers on your network should either use a static IP address or use this option.

Computer Name

You can assign a name for each computer that is given a reserved IP address. This may help you keep track of which computers are assigned this way. Example: **Game Server**.

IP Address:

The LAN address that you want to reserve.

MAC Address

To input the MAC address of your system, enter it in manually or connect to the router's Web-Management interface from the system and click the **Copy Your PC's MAC Address** button. A MAC address is usually located on a sticker on the bottom of a network device. The MAC address is comprised of twelve digits. Each pair of hexadecimal digits are usually separated by dashes or colons such as 00-0D-88-11-22-33 or 00:0D:88:11:22:33. If your network device is a computer and the network card is already located inside the computer, you can connect to the router from the computer and click the **Copy Your PC's MAC Address** button to enter the MAC address.

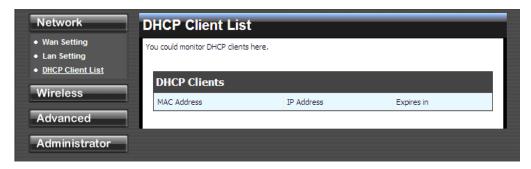
Clear

Re-initialize this area of the screen, discarding any changes you have made.

DHCP Reservations List

This shows clients that you have specified to reserve DHCP addresses. Click the Enable checkbox at the left to directly activate or de-activate the entry. An entry can be changed by clicking the Edit icon or can be deleted by clicking the Delete icon. When you click the Edit icon, the item is highlighted, and the "Edit DHCP Reservation" section is activated for editing.

Network: DHCP Client List

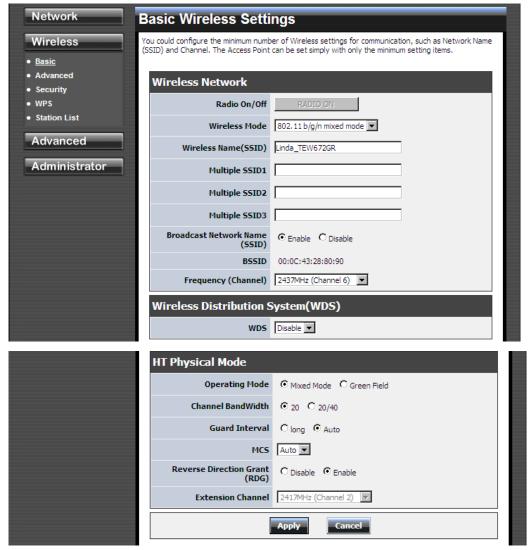


DHCP Client List

In this section you can see what LAN devices are currently leasing IP addresses.

Wireless

Wireless: Basic



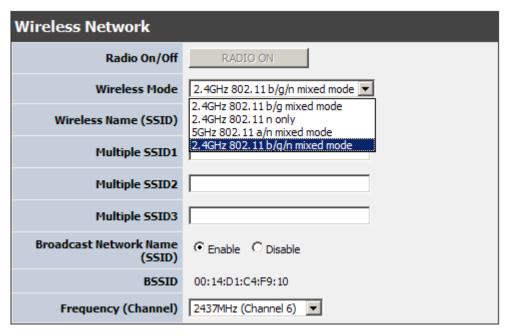
Radio On/Off

This indicates the wireless operating status. The wireless can be turned on or off by the slide switch. When the radio is on, the following parameters are in effect.

Wireless Mode

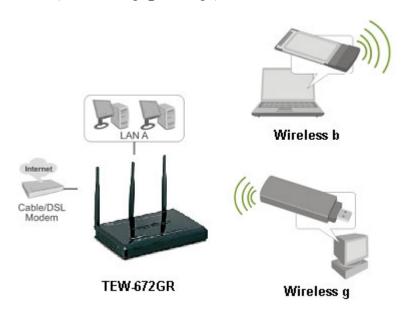
If all of the wireless devices you want to connect with this router can connect in the same transmission mode, you can improve performance slightly by choosing the appropriate wireless mode. If you have some devices that use a different transmission mode, choose the appropriate wireless mode. The TEW-672GR supports both 2.4GHz and 5GHz wireless networks. There are many different configuration options available to choose from. Use the drop down list to select the wireless mode.

Note: One wireless mode can be selected can select at any one time. This means that you can only select one of the operating frequency at a time



Wireless Mode options

2.4GHz 802.11b/g mixed mode - This wireless mode works in the 2.4GHz frequency range and will allow both wireless b and wireless g client to connect and access the TEW-672GR at 11Mbps for wireless b, at 54Mbps for wireless g and share access at the same time. Although the wireless b/g operates in the 2.4GHz frequency, it will allow the use of other 2.4GHz client devices (Wireless n/g @ 54Mbps) to connect and access at the same time.



2.4GHz 802.11 wireless b/g mixed mode

2.4GHz 802.11 n only – This wireless mode works in the 2.4GHz frequency range and will only allow the use of wireless n client devices to connect and access the TEW-672GR up to 300Mbps*. Although the wireless n operates in the 2.4GHz frequency, this mode will only permit wireless n client devices to work and will exclude any other wireless mode and devices that are not wireless n only.



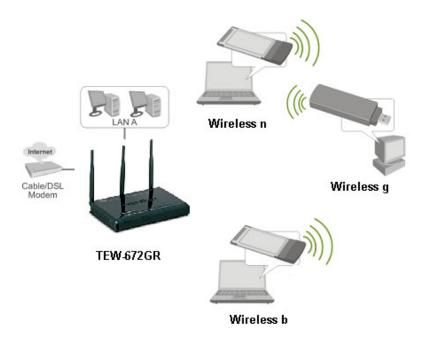
2.4GHZ 802.11 wireless n only

5GHz 802.11a/n mixed mode - This wireless mode works in the 5GHz frequency range and will only allow the use of wireless a/n dual band client devices to connect and access the TEW-672GR up to 300Mbps*. Dual band wireless client devices that support both wireless a/n can connect and access the TEW-672GR up to 300Mbps. Wireless a client devices can connect and access the TEW-672GR but, will only connect up to 54Mbps, (this due to the legacy limitation of wireless a technology for that standard). Although the wireless a/n operate in the same 5GHz frequency, this mode will only permit wireless a/n client devices to work and will exclude any other wireless mode and devices that are not wireless a/n. (note: wireless b/g/n will not be able to connect at the same time to the TEW-672GR with 5GHz wireless a/n mode enable).



5GHz 802.11 wireless a/n mixed mode

2.4 GHz 802.11b/g/n mixed mode - This wireless mode works in the 2.4GHz frequency range and will only allow the use of wireless g client devices to connect and access the TEW-672GR at 11Mbps for wireless b, 54Mbps for wireless g and up to 300Mbps* for wireless n and share access at the same time. Although the wireless b/g/n operates in the same 2.4GHz frequency, it will allow the use of other 2.4GHz client devices (Wireless b/g/n) to connect and access at the same time.

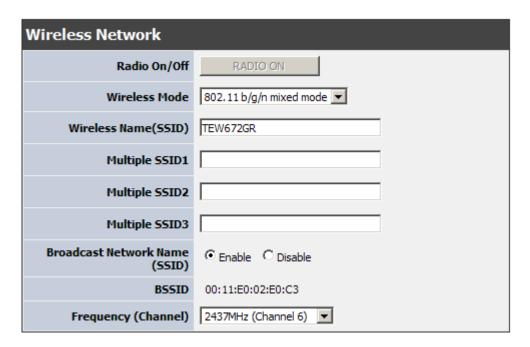


2.4GHz 802.11 wireless b/g/n mixed mode

^{*}Maximum wireless signal rates are referenced from IEEE 802.11 theoretical specifications. Actual data throughput and coverage will vary depending on interference, network traffic, building materials and other conditions.

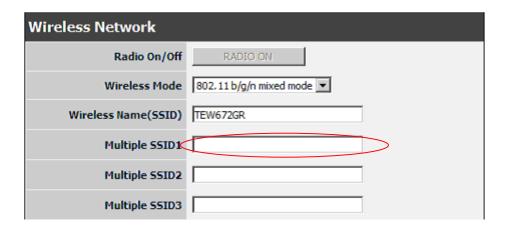
Wireless Network Name (SSID)

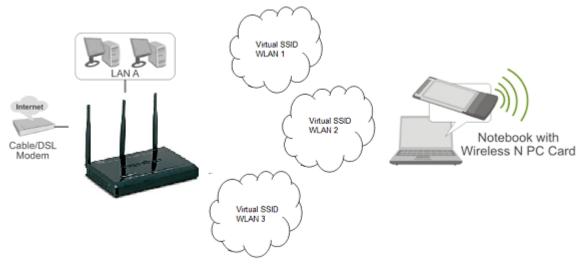
When you are browsing for available wireless networks, this is the name that will appear in the list (unless Visibility Status is set to Invisible, see below). This name is also referred to as the SSID. For security purposes, it is highly recommended to change from the pre-configured network name. Add up to three additional SSIDs to create virtual wireless networks from one wireless Router Access Point device.



Add Additional Wireless Network Name (SSID)

To add additional wireless Network Names simply add the name to the Multiple SSID field and click on apply at the bottom of the page. When finished, go to the Security section in this Users Guide for wireless security configuration.

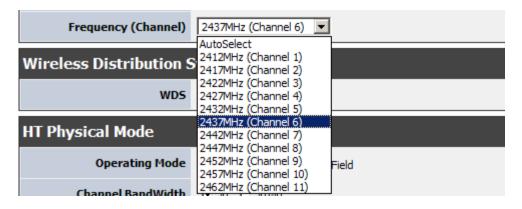




Multiple SSID with the TEW-672GR

Frequency (Channel)

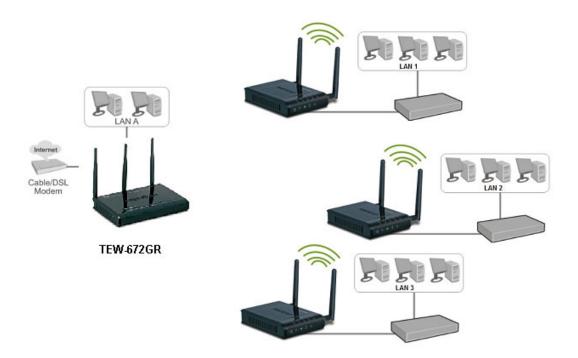
A wireless network uses specific channels in the wireless spectrum to handle communication between clients. Some channels in your area may have interference from other electronic devices. Choose the clearest channel to help optimize the performance and coverage of your wireless network.



Wireless Distribution System (WDS)

When WDS is enabled, this access point functions as a wireless repeater and is able to wirelessly communicate with other APs via WDS links. Note that WDS is incompatible with WPA -- both features cannot be used at the same time. A WDS link is bidirectional; so this AP must know the MAC Address (creates the WDS link) of the other AP, and the other AP must have a WDS link back to this AP. Make sure the APs are configured with same channel number.

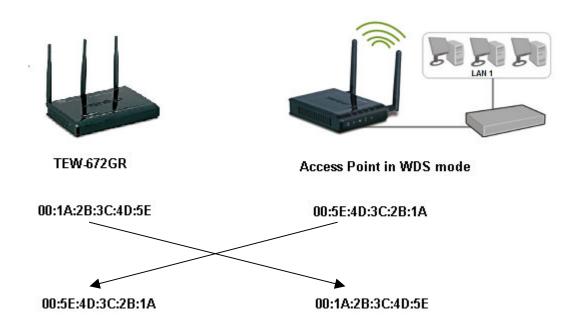
Wireless Distribution System(WDS)			
WDS	Enable 💌		
EncrypType	NONE 🔽		
AP MAC Address			

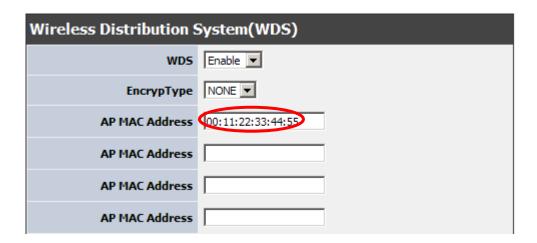


WDS setup with TEW-672GR and multiple Access Points on the LAN

Configuring WDS with TEW-672GR

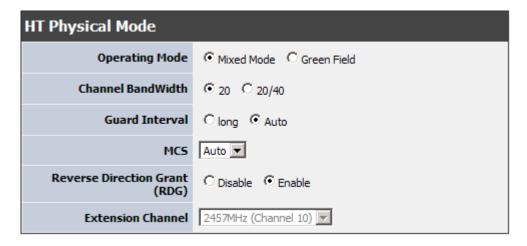
Enable the option for WDS and select the Encryp Type for wireless security (Note: WDS supports wireless g/n modes. The use multiple Access Point will reduces the overall network throughput to ½ the TEW-672GR. For wireless security, WDS will only support WEP; however, you have the ability to use WPA as a non-standard configuration for securing WDS feature). Now, add the MAC Address of the wireless device that also supports WDS in to the blank fields. You can add up to three additional devices in the spaces provided. Click on apply at the bottom of the page, to apply your setting changes.





HT Physical Mode

In HT (High Throughput) Physical mode setting allow for control of the 802.11n wireless environment.



Operating Mode

- Mixed Mode
- Green Field

Mixed Mode:

In this mode packets are transmitted with a preamble compatible with the legacy 802.11a/g, the rest of the packet has a new format. In this mode the receiver shall be able to decode both the Mixed Mode packets and legacy packets.

Green Field:

In this mode high throughput packets are transmitted without a legacy compatible part.

Channel BandWidth:

Set channel width of wireless radio.

- **2**0
- **20/40**

20 Channel Width = 20 MHz

20/40 Channel Width = 20/40 MHz

Guard Interval:

Support Short/Long GI, the purpose of the guard interval is to introduce immunity to propagation delays, echoes and reflections, to which digital data is normally very sensitive.

- Long
- Auto

Long Guard Interval, 800 nsec

Short Guard Interval, 400 nsec

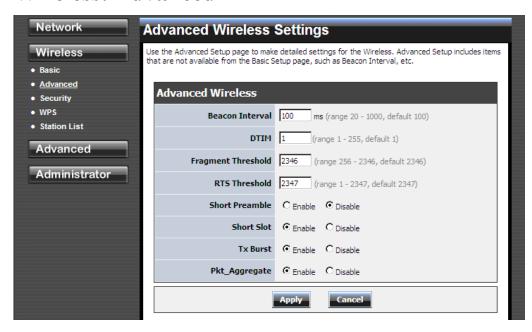
MCS:

Fix MCS rate for HT rate.

■ 0-15

The Modulation and Coding Scheme (MCS) is a value that determines the modulation, coding and number of spatial channels.

Wireless: Advanced



Beacon Interval

Beacons are packets sent by a wireless router to synchronize wireless devices. Specify a Beacon Period value between 20 and 1000. The default value is set to 100 milliseconds.

DTIM

A DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages. When the wireless router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. Wireless clients detect the beacons and awaken to receive the broadcast and multicast messages. The default value is 1. Valid settings are between 1 and 255.

Fragmentation Threshold

Wireless frames can be divided into smaller units (fragments) to improve performance in the presence of RF interference and at the limits of RF coverage. Fragmentation will occur when frame size in bytes is greater than the Fragmentation Threshold. This setting should remain at its default value of 2346 bytes. Setting the Fragmentation value too low may result in poor performance.

RTS Threshold

When an excessive number of wireless packet collisions are occurring, wireless performance can be improved by using the RTS/CTS (Request to Send/Clear to Send) handshake protocol. The wireless transmitter will begin to send RTS frames (and wait for CTS) when data frame size in bytes is greater than the RTS Threshold. This setting should remain at its default value of 2346 bytes.

Short Preamble and Slot

Using a short (400ns) guard interval can increase throughput. However, it can also increase error rate in some installations, due to increased sensitivity to radio-frequency reflections. Select the option that works best for your installation.

TX Burst

Allows the wireless Router to deliver better throughput in the same period and environment in order to increase speed.

Pkt_Aggregate

Increase efficiency by aggregating multiple packets of application data into a single transmission frame. In this way, 802.11n networks can send multiple data packets with the fixed overhead cost of just a single frame.

Wireless: Security



Security Mode

Unless one of these encryption modes is selected, wireless transmissions to and from your wireless network can be easily intercepted and interpreted by unauthorized users.

WEP

A method of encrypting data for wireless communication intended to provide the same level of privacy as a wired network. WEP is not as secure as WPA encryption. To gain access to a WEP network, you must know the key. The key is a string of characters that you create. When using WEP, you must determine the level of encryption. The type of encryption determines the key length. 128-bit encryption requires a longer key than 64-bit encryption. Keys are defined by entering in a string in HEX (hexadecimal - using characters 0-9, A-F) or ASCII (American Standard Code for Information Interchange - alphanumeric characters) format. ASCII format is provided so you can enter a string that is easier to remember. The ASCII string is converted to HEX for use over the network. Four keys can be defined so that you can change keys easily. A default key is selected for use on the network.

WPA-Personal and WPA-Enterprise

Both of these options select some variant of Wi-Fi Protected Access (WPA) -- security standards published by the Wi-Fi Alliance. The WPA Mode further refines the variant that the router should employ.

WPA Mode: WPA is the older standard; select this option if the clients that will be used with the router only support the older standard. WPA2 is the newer implementation of the stronger IEEE 802.11i security standard. With the "WPA2" option, the router tries WPA2 first, but falls back to WPA if the client only supports WPA. With the "WPA2 Only" option, the router associates only with clients that also support WPA2 security.

Cipher Type: The encryption algorithm used to secure the data communication. TKIP (Temporal Key Integrity Protocol) provides per-packet key generation and is based on WEP. AES (Advanced Encryption Standard) is a very secure block based encryption. With the "TKIP and AES" option, the router negotiates the cipher type with the client, and uses AES when available.

Group Key Update Interval: The amount of time before the group key used for broadcast and multicast data is changed.

Group Key Update Interval: The amount of time before the group key used for broadcast and multicast data is changed.

WPA-Personal

This option uses Wi-Fi Protected Access with a Pre-Shared Key (PSK).

Pre-Shared Key: The key is entered as a pass-phrase of up to 63 alphanumeric characters in ASCII (American Standard Code for Information Interchange) format at both ends of the wireless connection. It cannot be shorter than eight characters, although for proper security it needs to be of ample length and should not be a commonly known phrase. This phrase is used to generate session keys that are unique for each wireless client.

WPA-Enterprise

This option works with a RADIUS Server to authenticate wireless clients. Wireless clients should have established the necessary credentials before attempting to authenticate to the Server through this Gateway. Furthermore, it may be necessary to configure the RADIUS Server to allow this Gateway to authenticate users.

Authentication Timeout: Amount of time before a client will be required to re-authenticate.

RADIUS Server IP Address: The IP address of the authentication server.

RADIUS Server Port: The port number used to connect to the authentication server.

RADIUS Server Shared Secret: A pass-phrase that must match with the authentication server.

Wireless MAC Filtering

Choose the type of MAC filtering needed.

Turn MAC Filtering Disable: When "Disable" is selected, MAC addresses are not used to control network access.

Add MAC Filtering Rule

Use this section to add MAC addresses to the list below.

MAC Address

Enter the MAC address of a computer that you want to control with MAC filtering. Computers that have obtained an IP address from the router's DHCP server will be in the DHCP Client List. Select a device from the drop down menu.

Wireless: WPS

Network Wi-Fi Protected Setup	
Wireless You could setup security easily by choosing PIN or PBC method to do Wi-Fi Protected Setup.	
• Basic	
Advanced WPS Config	
Security WPS	Enable
Station List	Apply
Advanced	
Administrator WPS Summary	
WPS Current Status	
WPS Configured	
	Linda_TEW672GR
WPS Auth Mode WPS Encryp Type	·
WPS Default Key Index	
WPS Key(ASCII)	
	26543529
	Reset To WPS Default
WPS Action	
	€ PIN € PBC
Client PIN	
	Apply
WPS Status	
WSC:Idle	
1	

WPS

Enable

Enable the WPS feature.

Lock Wireless Security Settings

Locking the wireless security settings prevents the settings from being changed by any new external registrar using its PIN. Devices can still be added to the wireless network using WPS.

PIN Settings

A PIN is a unique number that can be used to add the router to an existing network or to create a new network. The default PIN may be printed on the bottom of the router. For extra security, a new PIN can be generated. You can restore the default PIN at any time. Only the Administrator ("admin" account) can change or reset the PIN.

Current PIN

Shows the current value of the router's PIN.

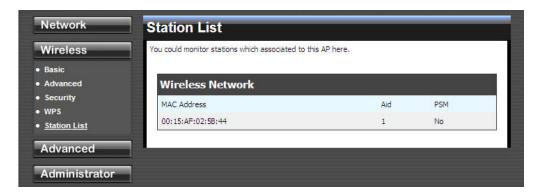
Reset To WPS Default

Restore the default PIN of the router.

Generate New PIN

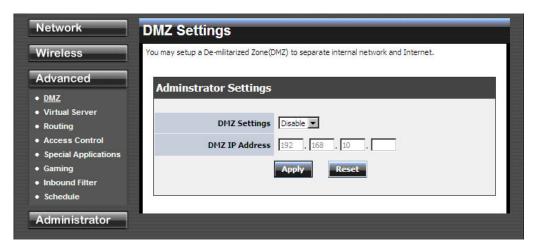
Create a random number that is a valid PIN. This becomes the router's PIN. You can then copy this PIN to the user interface of the registrar.

Wireless: Station List



Advanced

Advanced: DMZ



DMZ Setting

DMZ means "Demilitarized Zone." If an application has trouble working from behind the router, you can expose one computer to the Internet and run the application on that computer.

When a LAN host is configured as a DMZ host, it becomes the destination for all incoming packets that do not match some other incoming session or rule. If any other ingress rule is in place, that will be used instead of sending packets to the DMZ host; so, an active session, virtual server, active port trigger, or port forwarding rule will take priority over sending a packet to the DMZ host. (The DMZ policy resembles a default port forwarding rule that forwards every port that is not specifically sent anywhere else.)

The router provides only limited firewall protection for the DMZ host. The router does not forward a TCP packet that does not match an active DMZ session, unless it is a connection establishment packet (SYN). Except for this limited protection, the DMZ host is effectively "outside the firewall". Anyone considering using a DMZ host should also consider running a firewall on that DMZ host system to provide additional protection.

Packets received by the DMZ host have their IP addresses translated from the WAN-side IP address of the router to the LAN-side IP address of the DMZ host. However, port numbers are not translated; so applications on the DMZ host can depend on specific port numbers.

The DMZ capability is just one of several means for allowing incoming requests that might appear unsolicited to the NAT. In general, the DMZ host should be used only if there are no other alternatives, because it is much more exposed to cyberattacks than any other system on the LAN. Thought should be given to using other configurations instead: a virtual server, a port forwarding rule, or a port trigger. Virtual servers open one port for incoming sessions bound for a specific application (and also allow port redirection and the use of ALGs). Port forwarding is rather like a selective DMZ, where incoming traffic targeted at one or more ports is forwarded to a specific LAN host (thereby not exposing as many ports as a DMZ host). Port triggering is a special form of port forwarding, which is activated by outgoing traffic, and for which ports are only forwarded while the trigger is active.

Few applications truly require the use of the DMZ host. Following are examples of when a DMZ host might be required:

• A host needs to support several applications that might use overlapping ingress ports such that two port forwarding rules cannot be used because they would potentially be in conflict.

• To handle incoming connections that use a protocol other than ICMP, TCP, UDP, and IGMP (also GRE and ESP, when these protocols are enabled by the PPTP and IPSec ALGs).

Enable DMZ

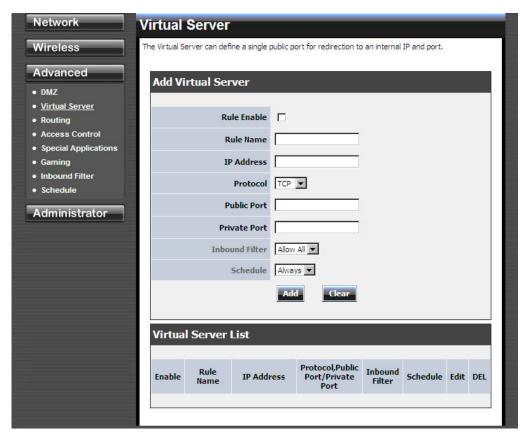


Putting a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort.

DMZ IP Address

Specify the LAN IP address of the LAN computer that you want to have unrestricted Internet communication.

Advanced: Virtual Server



Add/Edit Virtual Server

Enable

Specifies whether the entry will be active or inactive.

Name

Assign a meaningful name to the virtual server, for example **Web Server**. Several well-known types of virtual server are available from the "Application Name" drop-down list. Selecting one of these entries fills some of the remaining parameters with standard values for that type of server.

IP Address

The IP address of the system on your internal network that will provide the virtual service, for example **192.168.10.50**. You can select a computer from the list of DHCP clients in the "Computer Name" drop-down menu, or you can manually enter the IP address of the server computer.

Protocol

Select the protocol used by the service. The common choices -- UDP, TCP, and both UDP and TCP -- can be selected from the drop-down menu. To specify any other protocol, select "Other" from the list, then enter the corresponding protocol number (as assigned by the IANA) in the **Protocol** box.

Private Port

The port that will be used on your internal network.

Public Port

The port that will be accessed from the Internet.

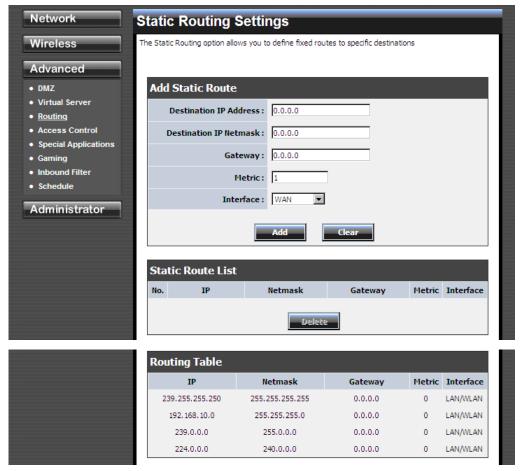
Schedule

Select a schedule for when the service will be enabled. If you do not see the schedule you need in the list of schedules.

Clear

Re-initialize this area of the screen, discarding any changes you have made.

Advanced: Routing



Add/Edit Route

Adds a new route to the IP routing table or edits an existing route.

Destination IP

The IP address of packets that will take this route.

Gateway

Specifies the next hop to be taken if this route is used. A gateway of 0.0.0.0 implies there is no next hop, and the IP address matched is directly connected to the router on the interface specified: LAN or WAN.

Metric

The route metric is a value from 1 to 16 that indicates the cost of using this route. A value of 1 is the lowest cost, and 15 is the highest cost. A value of 16 indicates that the route is not reachable from this router. When trying to reach a particular destination, computers on your network will select the best route, ignoring unreachable routes.

Interface

Specifies the interface -- LAN or WAN -- that the IP packet must use to transit out of the router, when this route is used.

Clear

Re-initialize this area of the screen, discarding any changes you have made.

Routes List

The section shows the current routing table entries. Certain required routes are predefined and cannot be changed. Routes that you add can be changed by clicking the Edit icon or can be deleted by clicking the Delete icon. When you click the Edit icon, the item is highlighted, and the "Edit Route" section is activated for editing. Click the Enable checkbox at the left to directly activate or de-activate the entry.

Advanced: Access Control

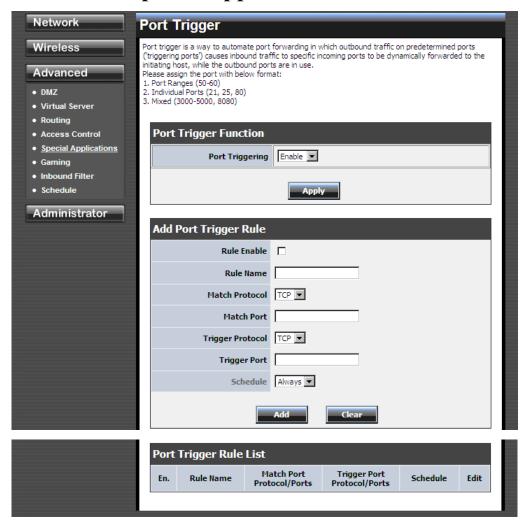


Enable

By default, the Access Control feature is disabled. If you need Access Control, check this option.

Note: When Access Control is disabled, every device on the LAN has unrestricted access to the Internet. However, if you enable Access Control, Internet access is restricted for those devices that have an Access Control Policy configured for them. All other devices have unrestricted access to the Internet.

Advanced: Special Applications



Add/Edit Port Trigger Rule

Enable

Specifies whether the entry will be active or inactive.

Name

Enter a name for the Special Application Rule, for example **Game App**, which will help you identify the rule in the future. Alternatively, you can select from the **Application** list of common applications.

Protocol

Select the protocol used by the service. The common choices -- UDP, TCP, and both UDP and TCP -- can be selected from the drop-down menu.

Trigger Port

Enter the outgoing port range used by your application (for example 6500-6700).

Schedule

Select a schedule for when this rule is in effect.

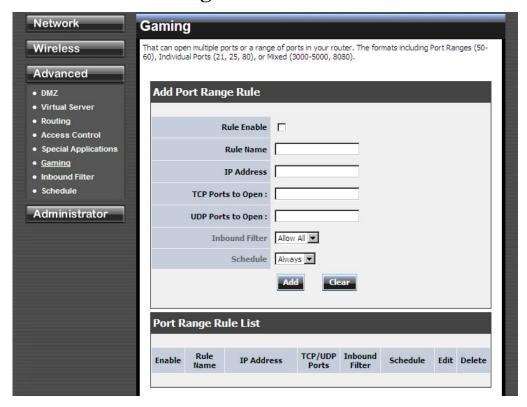
Clear

Re-initialize this area of the screen, discarding any changes you have made.

Port Trigger Rule List

This is a list of the defined application rules. Click the Enable checkbox at the left to directly activate or de-activate the entry. An entry can be changed by clicking the Edit icon or can be deleted by clicking the Delete icon.

Advanced: Gaming



Add/Edit Port Range Rule

Use this section to add a Port Range Rule to the following list or to edit a rule already in the list.

Rule Enable

Specifies whether the entry will be active or inactive.

Rule Name

Give the rule a name that is meaningful to you, for example **Game Server**. You can also select from a list of popular games, and many of the remaining configuration values will be filled in accordingly. However, you should check whether the port values have changed since this list was created, and you must fill in the IP address field.

IP Address

Enter the local network IP address of the system hosting the server, for example **192.168.10.50**. You can select a computer from the list of DHCP clients in the "Computer Name" drop-down menu, or you can manually enter the IP address of the server computer.

TCP Ports to Open

Enter the TCP ports to open (for example 6159-6180, 99).

UDP Ports to Open

Enter the UDP ports to open (for example 6159-6180, 99).

Inbound Filter

Select a filter that controls access as needed for this rule.

Schedule

Select a schedule for the times when this rule is in effect.

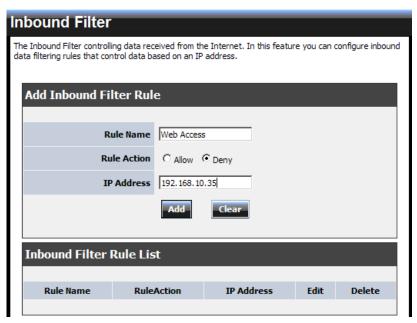
Clear

Re-initialize this area of the screen, discarding any changes you have made.

Port Range Rule List

This is a list of the defined Port Range Rules. Click the Enable checkbox at the left to directly activate or de-activate the entry. An entry can be changed by clicking the Edit icon or can be deleted by clicking the Delete icon. When you click the Edit icon, the item is highlighted, and the "Edit Port Forwarding Rule" section is activated for editing.

Advanced: Inbound Filter



Add/Edit Inbound Filter Rule

Here you can add entries to the Inbound Filter Rules List below, or edit existing entries.

Name

Enter a name for the rule that is meaningful to you.

Action

The rule can either Allow or Deny messages.

Remote IP Range

Define the ranges of Internet addresses this rule applies to. For a single IP address, enter the same address in both the **Start** and **End** boxes. Up to eight ranges can be entered. The **Enable** checkbox allows you to turn on or off specific entries in the list of ranges.

Clear

Re-initialize this area of the screen, discarding any changes you have made.

Inbound Filter Rules List

The section lists the current Inbound Filter Rules. An entry can be changed by clicking the Edit icon or can be deleted by clicking the Delete icon. When you click the Edit icon, the item is highlighted, and the "Edit Inbound Filter Rule" section is activated for editing.

In addition to the filters listed here, two predefined filters are available wherever inbound filters can be applied:

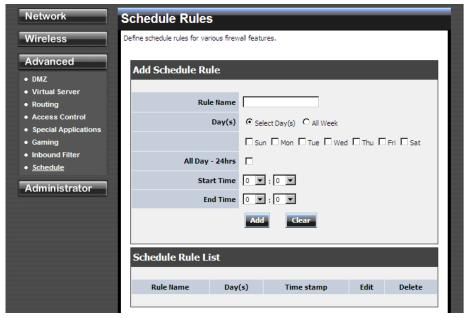
Allow All

Permit any WAN user to access the related capability.

Deny All

Prevent all WAN users from accessing the related capability. (LAN users are not affected by Inbound Filter Rules.)

Advanced: Schedule



Add/Edit Schedule Rule

In this section you can add entries to the Schedule Rules List below or edit existing entries.

Name

Give the schedule a name that is meaningful to you, such as "Weekday rule".

Day(s)

Place a checkmark in the boxes for the desired days or select the All Week radio button to select all seven days of the week.

All Day - 24 hrs

Select this option if you want this schedule in effect all day for the selected day(s).

Start Time

If you don't use the All Day option, then you enter the time here. The start time is entered in two fields. The first box is for the hour and the second box is for the minute. Email events are normally triggered only by the start time.

End Time

The end time is entered in the same format as the start time. The hour in the first box and the minutes in the second box. The end time is used for most other rules, but is not normally used for email events.

Clear

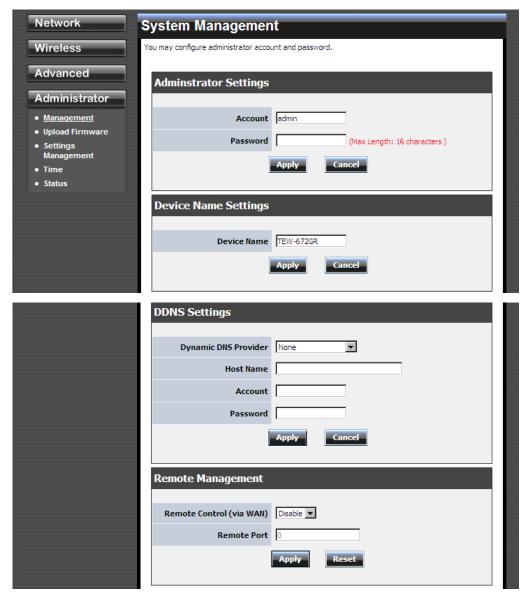
Re-initialize this area of the screen, discarding any changes you have made.

Schedule Rules List

This section shows the currently defined Schedule Rules. An entry can be changed by clicking the Edit icon or can be deleted by clicking the Delete icon. When you click the Edit icon, the item is highlighted, and the "Edit Schedule Rule" section is activated for editing.

Administrator

Administrator: Management



Admin Password

Enter a password for the user "admin", who will have full access to the Web-based management interface.

Device Name

The name of the router can be changed here.

Enable Dynamic DNS

Enable this option only if you have purchased your own domain name and registered with a dynamic DNS service provider. The following parameters are displayed when the option is enabled.

Dynamic DNS Provider

Select a dynamic DNS service provider from the pull-down list.

Host Name

Enter your host name, fully qualified; for example: myhost.mydomain.net.

Account

Enter the account provided by your service provider. If the Dynamic DNS provider supplies only a key, enter that key in all three fields.

Password

Enter the password provided by your service provider. If the Dynamic DNS provider supplies only a key, enter that key in all three fields.

Administrator: Upload Firmware



Upload Firmware

Upload Firmware

Once you have a firmware update on your computer, use this option to browse for the file and then upload the information into the router.

Administrator: Setting Management



Export Settings

This option allows you to export and then save the router's configuration to a file on your computer. Be sure to save the configuration before performing a firmware upgrade.

Import Settings

Use this option to restore previously saved router configuration settings.

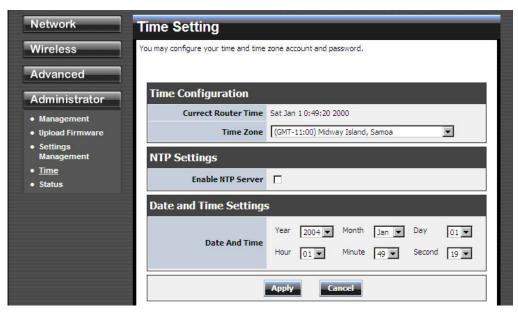
Load Factory Defaults

This option restores all configuration settings back to the settings that were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost. If you want to save your router configuration settings, use the **Export Settings** option above.

System Reboot

This restarts the router. It is useful for restarting when you are not near the device.

Administrator: Time



Time Configuration

Current Router Time

Displays the time currently maintained by the router. If this is not correct, use the following options to configure the time correctly.

Time Zone

Select your local time zone from pull down menu.

Automatic Time Configuration

Enable NTP Server

Select this option if you want to synchronize the router's clock to a Network Time Server over the Internet. If you are using schedules or logs, this is the best way to ensure that the schedules and logs are kept accurate.

Note that, even when NTP Server is enabled, you must still choose a time zone and set the daylight saving parameters.

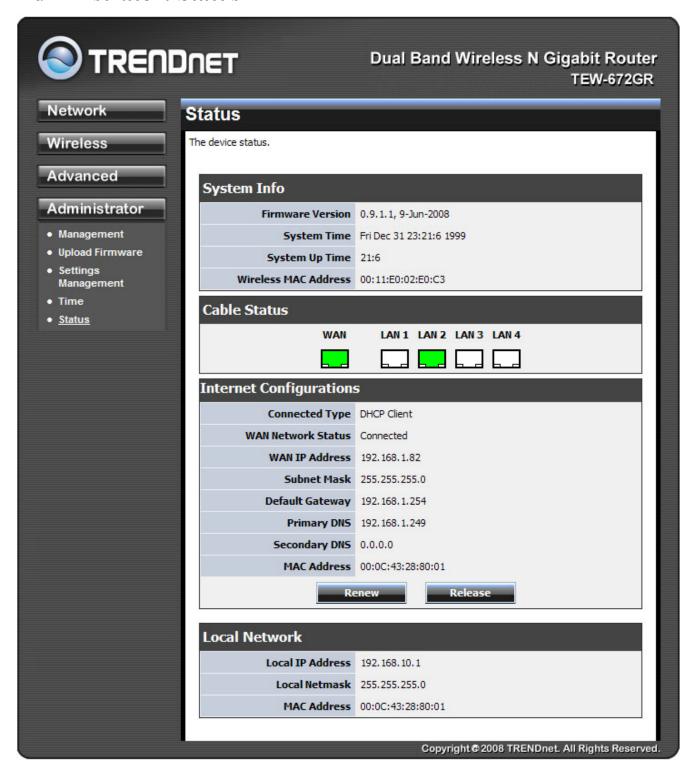
NTP Server Used

Select a Network Time Server for synchronization. You can type in the address of a time server or select one from the list. If you have trouble using one server, select another.

Set the Date and Time Manually

If you do not have the NTP Server option in effect, you can either manually set the time for your router here.

Administrator: Status



Network Glossary

Access Point - A device that allows wireless-equipped computers and other devices to communicate with a wired network. also used to expand the range of a wireless network.

Ad-hoc - A group of wireless devices communicating directly with each other (peer-to-peer) without the use of an access point.

AES (Advanced Encryption Standard) - A security method that uses symmetric 128-bit block data encryption.

Bandwidth - The transmission capacity of a given device or network.

Bit - A binary digit.

Boot - To start a device and cause it to start executing instructions.

Broadband - An always-on, fast Internet connection.

Browser - An application program that provides a way to look at and interact with all the information on the World Wide Web.

Cable Modem - A device that connects a computer to the cable television network, which in turn connects to the Internet.

Daisy Chain - A method used to connect devices in a series, one after the other.

DDNS (**D**ynamic **D**omain **N**ame **S**ystem) - Allows the hosting of a website, FTP server, or e-mail server with a fixed domain name (e.g., www.xyz.com) and a dynamic IP address.

Default Gateway - A device that forwards Internet traffic from your local area network.

DHCP (**D**ynamic **H**ost Configuration **P**rotocol) - A networking protocol that allows administrators to assign temporary IP addresses to network computers by "leasing" an IP address to a user for a limited amount of time, instead of assigning permanent IP addresses.

DMZ (**Demilitarized Zone**) - Removes the Router's firewall protection from one PC, allowing it to be "seen" from the Internet.

DNS (Domain Name Server) - The IP address of your ISP's server, which translates the names of websites into IP addresses.

Domain - A specific name for a network of computers.

Download - To receive a file transmitted over a network.

DSL (Digital Subscriber Line) - An always-on broadband connection over traditional phone lines.

Dynamic IP Address - A temporary IP address assigned by a DHCP server.

EAP (Extensible Authentication Protocol) - A general authentication protocol used to control network access. Many specific authentication methods work within this framework.

Encryption - Encoding data transmitted in a network.

Ethernet - IEEE standard network protocol that specifies how data is placed on and retrieved from a common transmission medium.

Firewall - A set of related programs located at a network gateway server that protects the resources of a network from users from other networks.

Firmware - The programming code that runs a networking device.

FTP (File Transfer Protocol) - A protocol used to transfer files over a TCP/IP network.

Full Duplex - The ability of a networking device to receive and transmit data simultaneously.

Gateway - A device that interconnects networks with different, incompatible communications protocols.

Half Duplex - Data transmission that can occur in two directions over a single line, but only one direction at a time.

HTTP (HyperText Transport Protocol) - The communications protocol used to connect to servers on the World Wide Web.

Infrastructure - A wireless network that is bridged to a wired network via an access point.

IP (Internet **P**rotocol) - A protocol used to send data over a network

IP Address - The address used to identify a computer or device on a network.

IPCONFIG - A Windows 2000 and XP utility that displays the IP address for a particular networking device.

IPSec (Internet Protocol Security) - A VPN protocol used to implement secure exchange of packets at the IP layer.

ISP (Internet Service Provider) - A company that provides access to the Internet.

LAN - The computers and networking products that make up your local network.

MAC (Media Access Control) Address - The unique address that a manufacturer assigns to each networking device.

Mbps (MegaBits Per Second) - One million bits per second; a unit of measurement for data transmission.

NAT (Network Address Translation) - NAT technology translates IP addresses of a local area network to a different IP address for the Internet.

Packet - A unit of data sent over a network.

Passphrase - Used much like a password, a passphrase simplifies the WEP encryption process by automatically generating the WEP encryption keys for Linksys products.

Ping (Packet Internet Groper) - An Internet utility used to determine whether a particular IP address is online.

POP3 (Post Office Protocol 3) - A standard mail server commonly used on the Internet.

Port - The connection point on a computer or networking device used for plugging in cables or adapters.

Power over Ethernet (PoE) - A technology enabling an Ethernet network cable to deliver both data and power.

PPPoE (Point to Point Protocol over Ethernet) - A type of broadband connection that provides authentication (username and password) in addition to data transport.

PPTP (Point-to-Point Tunneling Protocol) - A VPN protocol that allows the Point to Point Protocol (PPP) to be tunneled through an IP network. This protocol is also used as a type of broadband connection in Europe.

RADIUS (Remote Authentication Dial-In User Service) - A protocol that uses an authentication server to control network access.

RJ-45 (Registered Jack-45) - An Ethernet connector that holds up to eight wires.

Roaming - The ability to take a wireless device from one access point's range to another without losing the connection.

Router - A networking device that connects multiple networks together.

Server - Any computer whose function in a network is to provide user access to files, printing, communications, and other services.

SMTP (Simple Mail Transfer Protocol) - The standard e-mail protocol on the Internet.

SNMP (Simple Network Management Protocol) - A widely used network monitoring and control protocol.

SPI (Stateful Packet Inspection) **Firewall** - A technology that inspects incoming packets of information before allowing them to enter the network.

SSID (Service Set IDentifier) - Wireless network's name.

Static IP Address - A fixed assigned address to a computer or device that is connected to a network.

Static Routing - Forwarding data in a network via a fixed path.

Subnet Mask - An address code that determines the size of the network.

Switch - 1. A data switch that connects computing devices to host computers, allowing a large number of devices to share a limited number of ports. 2. A device for making, breaking, or changing the connections in an electrical circuit.

TCP (Transmission Control Protocol) - A network protocol for transmitting data that requires acknowledgement from the recipient of data sent.

TCP/IP (Transmission Control Protocol/Internet Protocol) - A set of instructions PCs use to communicate over a network.

Telnet - A user command and TCP/IP protocol used for accessing remote PCs.

TFTP (Trivial File Transfer Protocol) - A version of the TCP/IP FTP protocol that has no directory or password capability.

Throughput - The amount of data moved successfully from one node to another in a given time period.

TKIP (Temporal Key Integrity Protocol) - a wireless encryption protocol that provides dynamic encryption keys for each packet transmitted.

Topology - The physical layout of a network.

TX Rate - Transmission Rate.

Upgrade - To replace existing software or firmware with a newer version.

Upload - To transmit a file over a network.

URL (Uniform Resource Locator) - The address of a file located on the Internet.

VPN (Virtual Private Network) - A security measure to protect data as it leaves one network and goes to another over the Internet.

WAN (Wide Area Network)- The Internet.

WEP (Wired Equivalent Privacy) - A method of encrypting network data transmitted on a wireless network for greater security.

WLAN (Wireless Local Area Network) - A group of computers and associated devices that communicate with each other wirelessly.

WPA (Wi-Fi Protected Access) - a wireless security protocol using TKIP (Temporal Key Integrity Protocol) encryption, which can be used in conjunction with a RADIUS server.



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