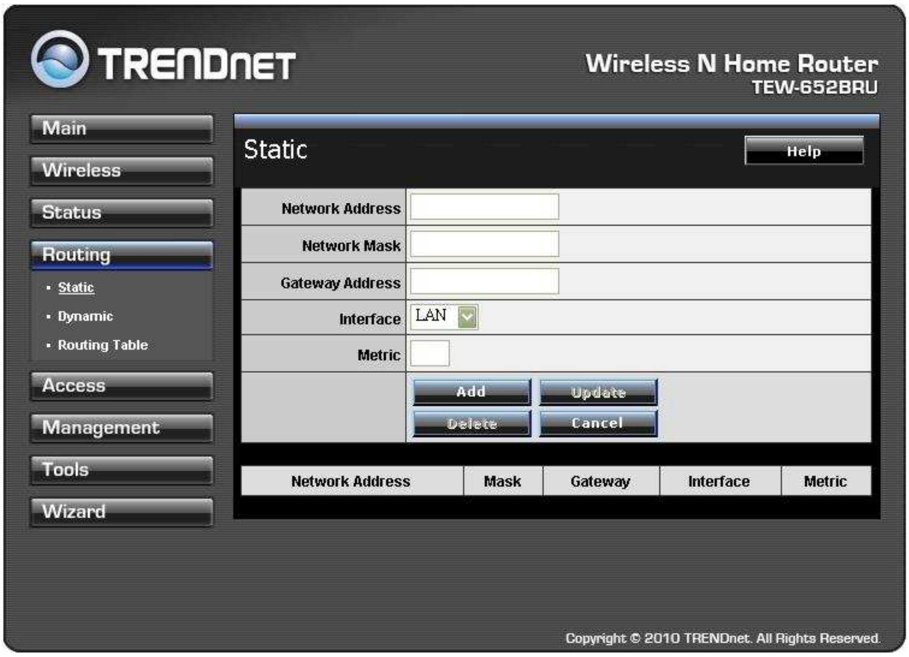
Routing

This selection enables users to set how the WLAN Router forwards data: Static and Dynamic. Routing Table enables users to view the information created by the WLAN Router that displays the network interconnection topology.

Static

It enables users to set parameters by which the WLAN Router forwards data to its destination if the network has a static IP address.



Network Address	
Network Mask	
Gateway Address	
Interface	LAN
Metric	

Network Address	Mask	Gateway	Interface	Metric

Network Address: Type the static IP address the network uses to access the Internet. Contact the ISP or network administrator for this information.

Network Mask: Type the network (subnet) mask of the network. If this field is left blank, the network mask defaults to 255.255.255.0. Contact the ISP or network administrator for this information.

Gateway Address: Type the gateway address of the network. Contact the ISP or network administrator for this information.

Interface: Select an interface, WAN or LAN, to connect to the Internet.

Metric: Select which metric that the user wants to apply to this configuration.

Add: Click to add the configuration to the static IP address table at the bottom of the page.

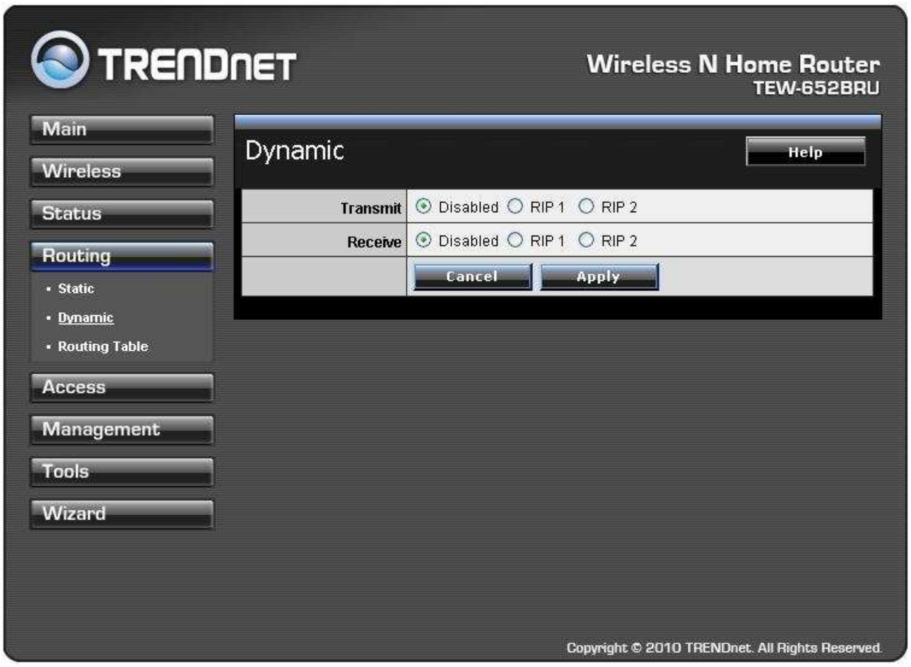
Update: Select one of the entries in the static IP address table at the bottom of the page, and after changing parameters, click “Update” to confirm the changes.

Delete: Select one of the entries in the static IP address table at the bottom of the page and click “Delete” to remove the entry.

Cancel: Click the ***Cancel*** button to erase all fields and enter new information.

Dynamic

This screen enables users to set the dynamic routing parameters.



Dynamic

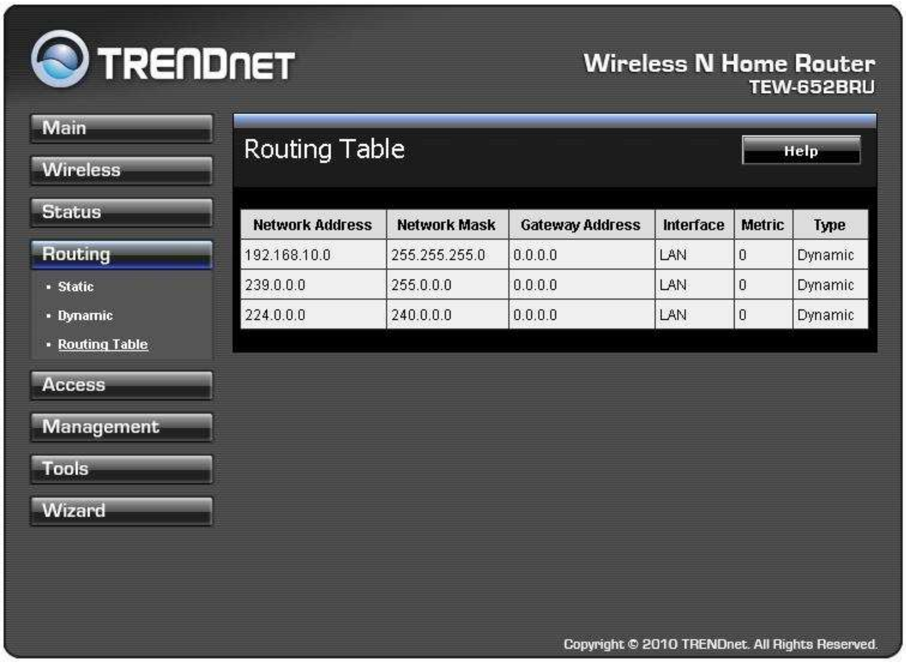
Transmit	● Disabled ○ RIP 1 ○ RIP 2
Receive	● Disabled ○ RIP 1 ○ RIP 2

Transmit: Click the radio buttons to set the desired transmit parameters, Disabled, RIP 1, or RIP 2.

Receive: Click the radio buttons to set the desired receive parameters, Disabled, RIP 1, or RIP 2.

Routing Table

This screen enables users to view the routing table of the WLAN Router. The routing table is a database created by the WLAN Router that displays the network interconnection topology.



Network Address	Network Mask	Gateway Address	Interface	Metric	Type
192.168.10.0	255.255.255.0	0.0.0.0	LAN	0	Dynamic
239.0.0.0	255.0.0.0	0.0.0.0	LAN	0	Dynamic
224.0.0.0	240.0.0.0	0.0.0.0	LAN	0	Dynamic

Network Address: Displays the network IP address of the connected node.
Network Mask: Displays the network (subnet) mask of the connected node.
Gateway Address: Displays the gateway address of the connected node.
Interface: Displays whether the node is connected via a WAN or LAN.
Metric: Displays the metric of the connected node.
Type: Displays whether the node has a static or dynamic IP address

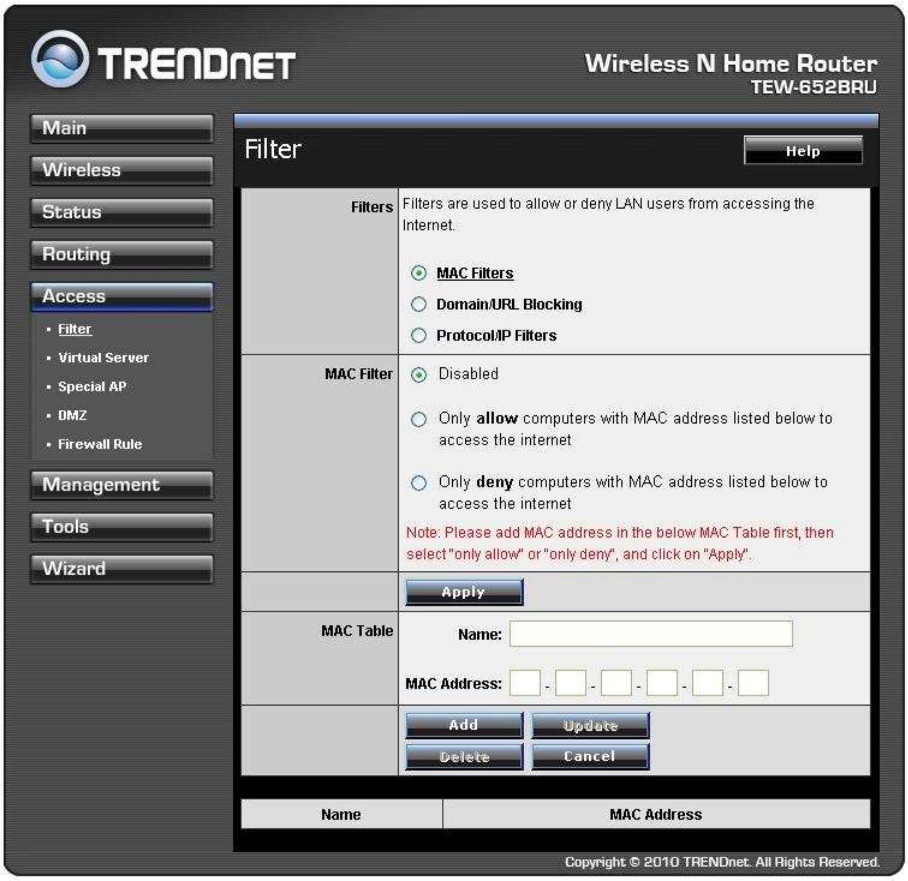
Access

This page enables you to define access restrictions, set up protocol and IP filters, create virtual servers, define access for special applications such as games, and set firewall rules.

Filters

Using filters to deny or allow the users to access to the internet. Three types of filters can be select: MAC, Domain/URL blocking, and Protocol/IP filter.

MAC Filters



Filter

Filters: Filters are used to allow or deny LAN users from accessing the Internet.

● MAC Filters
○ Domain/URL Blocking
○ Protocol/IP Filters

MAC Filter:

● Disabled
○ Only **allow** computers with MAC address listed below to access the internet
○ Only **deny** computers with MAC address listed below to access the internet

Note: Please add MAC address in the below MAC Table first, then select "only allow" or "only deny", and click on "Apply".

MAC Table: Name: ___ MAC Address: __ - __ - __ - __ - __ - __

Name	MAC Address

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MAC Filter: Enables you to allow or deny accessing the internet.

Disable: Disable the MAC filter function.

Allow: Only allow computers with MAC address listed in the MAC Table.

Deny: Computers in the MAC Table are denied Internet access.

MAC Table: Use this section to create a user profile which internet access is denied or allowed. The user profiles are listed in the table at the bottom of the page. (Note: Click anywhere in the item. Once the line is selected, the fields automatically load the item's parameters, which you can edit.)

Name: Type the name of the user to be permitted/denied access.

MAC Address: Type the MAC address of the user's network interface.

Add: Click to add the user to the list at the bottom of the page.

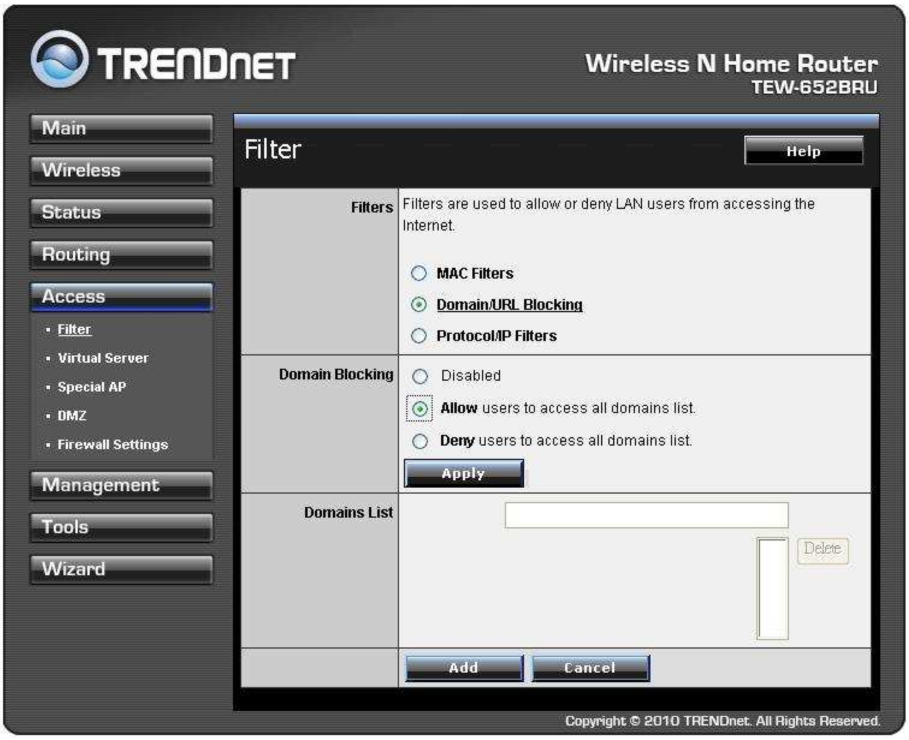
Update: Click to update information for the user, if you have changed any of the fields.

Delete: Select a user from the table at the bottom of the list and click Delete to remove the user profile.

Cancel: Click ***Cancel*** to erase all fields and enter new information.

Domain/URL Blocking

You could specify the domains that allow users to access or deny by clicking one of the two items. Also, add the specified domains in the text box.



Filter

Filters: Filters are used to allow or deny LAN users from accessing the Internet.

○ MAC Filters
● Domain/URL Blocking
○ Protocol/IP Filters

Domain Blocking:

○ Disabled
● **Allow** users to access all domains list.
○ **Deny** users to access all domains list.

Domains List

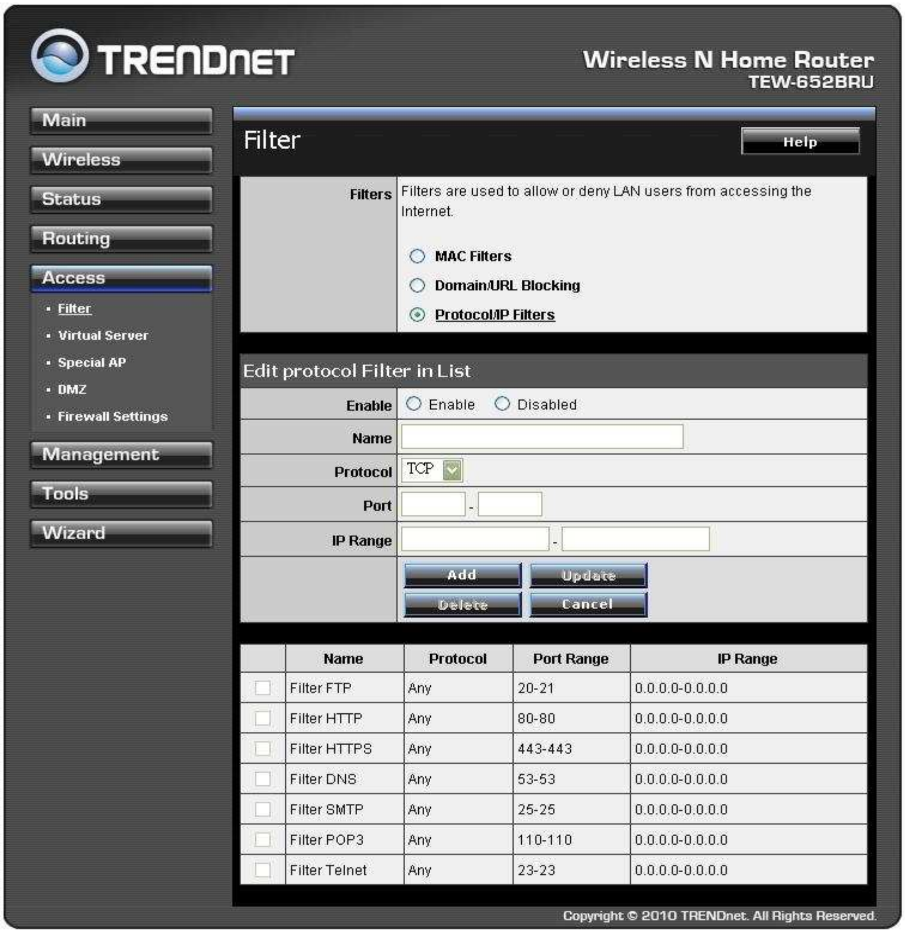
- **Disable:** Disable the Domain/URL Blocking function.
- **Allow:** Allow users to access all domains except “Domains List”.
- **Deny:** Deny users to access all domains except “Domains List”.

Domains List: List Domain/URL you will Denied or Allowed.

- **Delete:** Select a Domain/URL from the table at the bottom of the list and click Delete to remove the Domain/URL.
- **Add:** Click to ***Add*** button to add domain to the Domains list.
- **Cancel:** Click the ***Cancel*** button to erase all fields and enter new information.

Protocol/IP Filters

This screen enables you to define a minimum and maximum IP address range filter; all IP addresses falling within the range are not allowed accessing internet. The IP filter profiles are listed in the table at the bottom of the page. (Note: Click anywhere in the item. Once the line is selected, the fields automatically load the item's parameters, which you can edit.)



Filter

Filters: Filters are used to allow or deny LAN users from accessing the Internet.

○ MAC Filters
○ Domain/URL Blocking
● Protocol/IP Filters

Edit protocol Filter in List

Enable	○ Enable ○ Disabled
Name	
Protocol	TCP
Port	-
IP Range	-

	Name	Protocol	Port Range	IP Range
□	Filter FTP	Any	20-21	0.0.0.0-0.0.0.0
□	Filter HTTP	Any	80-80	0.0.0.0-0.0.0.0
□	Filter HTTPS	Any	443-443	0.0.0.0-0.0.0.0
□	Filter DNS	Any	53-53	0.0.0.0-0.0.0.0
□	Filter SMTP	Any	25-25	0.0.0.0-0.0.0.0
□	Filter POP3	Any	110-110	0.0.0.0-0.0.0.0
□	Filter Telnet	Any	23-23	0.0.0.0-0.0.0.0

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Enable: Click to enable or disable the IP address filter.

Name: Type the name of the user to be denied access.

Protocol: Select a protocol (TCP or UDP) to use for the virtual server.

Port: Type the port range of the protocol.

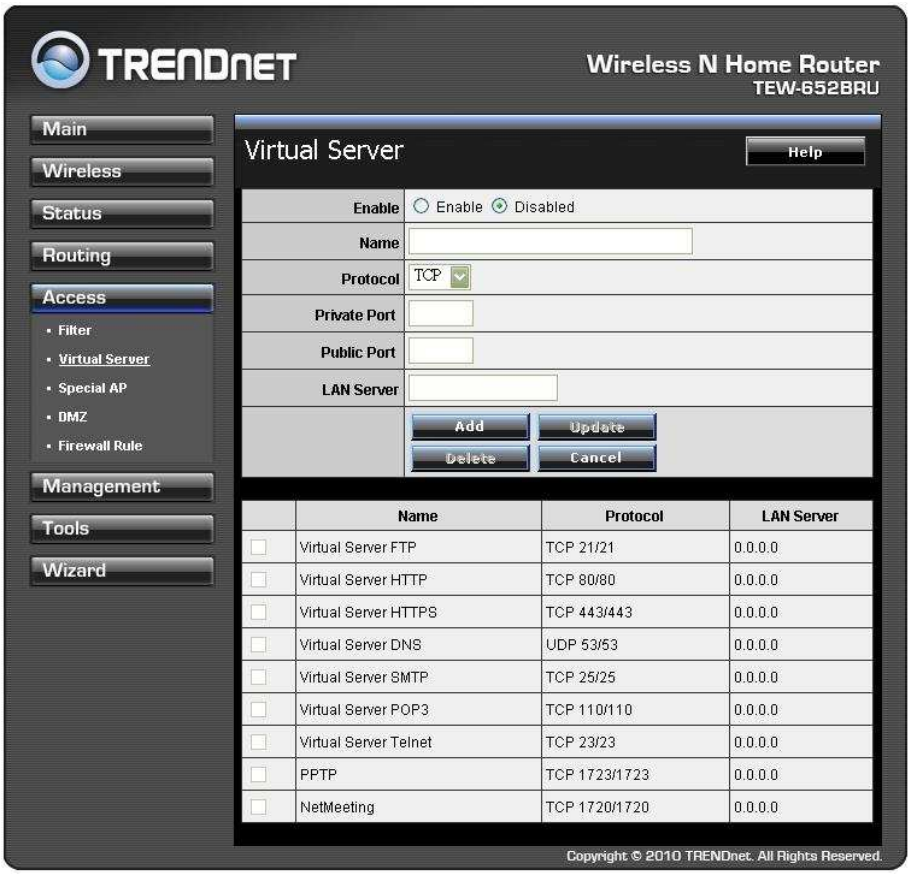
IP Range: Type the IP range. IP addresses falling between this value and the Range End are not allowed to access the Internet.

- **Add:** Click to add the IP range to the table at the bottom of the screen.
- **Update:** Click to update information for the range if you have selected a list item and have made changes.
- **Delete:** Select a list item and click Delete to remove the item from the list.
- **Cancel:** Click the ***Cancel*** button to erase all fields and enter new information.

Virtual Server

This screen enables user to create a virtual server via the WLAN Router. If the WLAN Router is set as a virtual server, remote users requesting Web or FTP services through the WAN are directed to local servers in the LAN. The WLAN Router redirects the request via the protocol and port numbers to the correct LAN server. The Virtual Sever profiles are listed in the table at the bottom of the page.

Note: When selecting items in the table at the bottom, click anywhere in the item. The line is selected, and the fields automatically load the item's parameters, which user can edit.



Virtual Server

Enable	○ Enable ● Disabled
Name	
Protocol	TCP
Private Port	
Public Port	
LAN Server	

	Name	Protocol	LAN Server
□	Virtual Server FTP	TCP 21/21	0.0.0.0
□	Virtual Server HTTP	TCP 80/80	0.0.0.0
□	Virtual Server HTTPS	TCP 443/443	0.0.0.0
□	Virtual Server DNS	UDP 53/53	0.0.0.0
□	Virtual Server SMTP	TCP 25/25	0.0.0.0
□	Virtual Server POP3	TCP 110/110	0.0.0.0
□	Virtual Server Telnet	TCP 23/23	0.0.0.0
□	PPTP	TCP 1723/1723	0.0.0.0
□	NetMeeting	TCP 1720/1720	0.0.0.0

Enable: Click to enable or disable the virtual server.

Name: Type a descriptive name for the virtual server.

Protocol: Select a protocol (TCP or UDP) to use for the virtual server.

Private Port: Type the port number of the computer on the LAN that is being used to act as a virtual server.

Public Port: Type the port number on the WAN that will be used to provide access to the virtual server.

LAN Server: Type the LAN IP address that will be assigned to the virtual server.

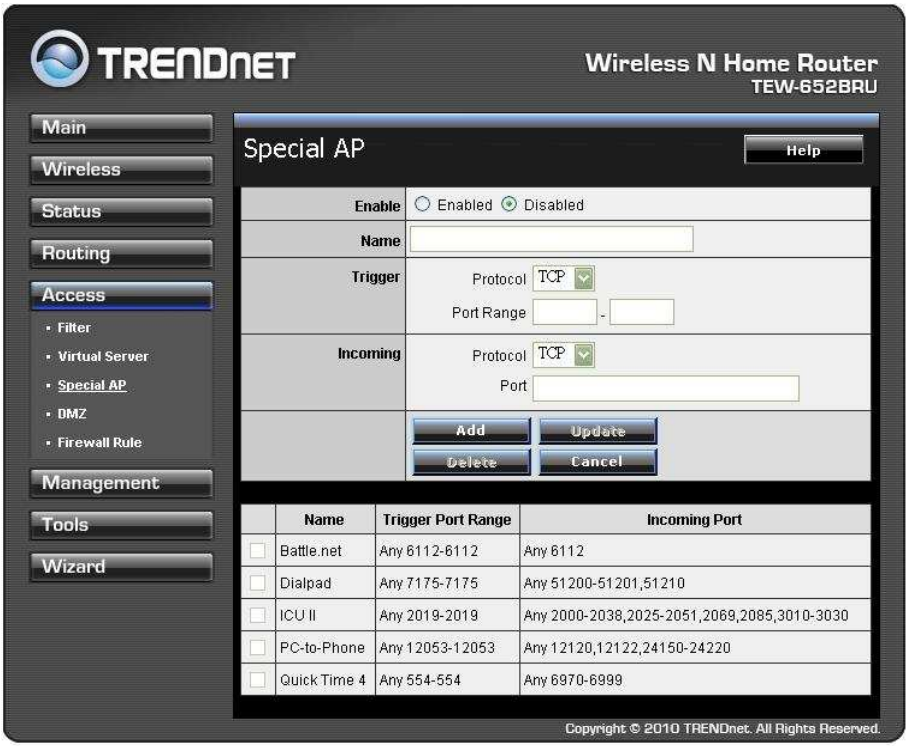
- **Add:** Click to add the virtual server to the table at the bottom of the screen.
- **Update:** Click to update information for the virtual server if the user has selected a listed item and has made changes.

- **Delete:** Select a listed item and click ***Delete*** to remove the item from the list.
- **Cancel**: Click ***Cancel*** button to erase all fields and enter new information.

Special AP

This screen enables users to specify special applications, such as games which require multiple connections that are blocked by NAT. The special applications profiles are listed in the table at the bottom of the page.

Note: When selecting items in the table at the bottom, click anywhere in the item. The line is selected, and the fields automatically load the item's parameters, which user can edit.



Special AP

Enable	○ Enabled ● Disabled
Name	
Trigger	Protocol TCP Port Range -
Incoming	Protocol TCP Port

	Name	Trigger Port Range	Incoming Port
□	Battle.net	Any 6112-6112	Any 6112
□	Dialpad	Any 7175-7175	Any 51200-51201,51210
□	ICU II	Any 2019-2019	Any 2000-2038,2025-2051,2069,2085,3010-3030
□	PC-to-Phone	Any 12053-12053	Any 12120,12122,24150-24220
□	Quick Time 4	Any 554-554	Any 6970-6999

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Enable: Click to enable or disable the application profile. When enabled, users will be able to connect to the application via the WLAN Router's WAN connection. Click "Disabled" on a profile to prevent users from accessing the application on the WAN connection.

Name: Type a descriptive name for the application.

Trigger: Defines the outgoing communication that determines whether the user has legitimate access to the application.

- **Protocol:** Select the protocol (TCP, UDP, or * for TCP+UDP) that can be used to access the application.
- **Port Range:** Type the port range that can be used to access the application in the text boxes.

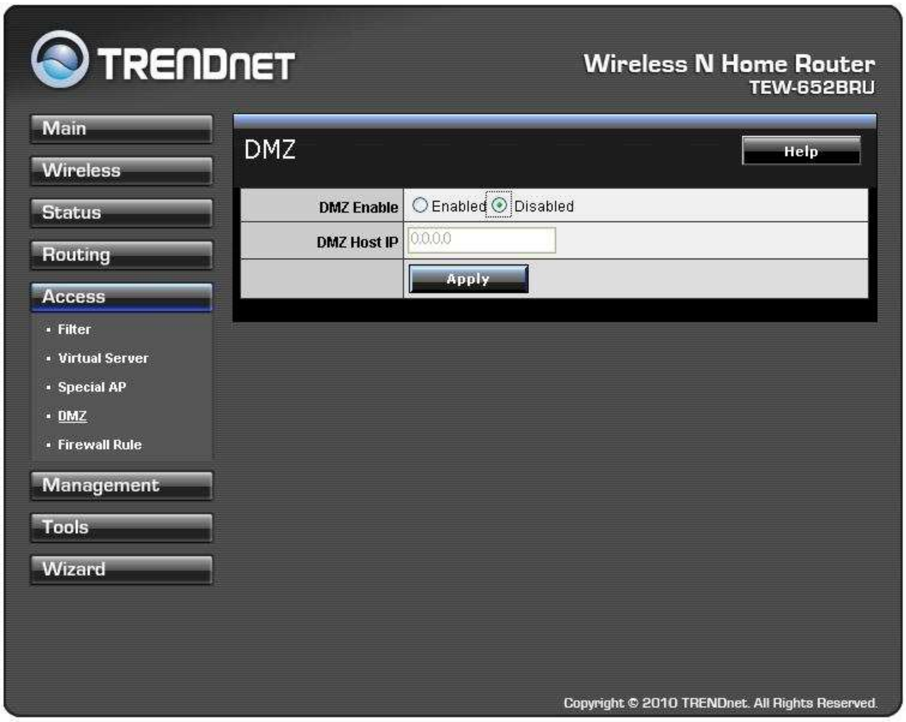
Incoming: Defines which incoming communications users are permitted to connect with.

- **Protocol:** Select the protocol (TCP, UDP, or * for TCP+UDP) that can be used by the incoming communication.
- **Port:** Type the port number that can be used for the incoming communication.
- **Add:** Click to add the special application profile to the table at the bottom of the screen.
- **Update:** Click to update information for the special application if user have selected a list item and have made changes.
- **Delete:** Select a list item and click ***Delete*** to remove the item from the list.
- **Cancel:** Click ***Cancel*** button to erase all fields and enter new information.

DMZ

This screen enables users to create a DMZ for those computers that cannot access Internet applications properly through the WLAN Router and associated security settings.

Note: Any clients added to the DMZ exposes the clients to security risks such as viruses and unauthorized access.



DMZ

DMZ Enable	○ Enabled ● Disabled
DMZ Host IP	0.0.0.0
	Apply

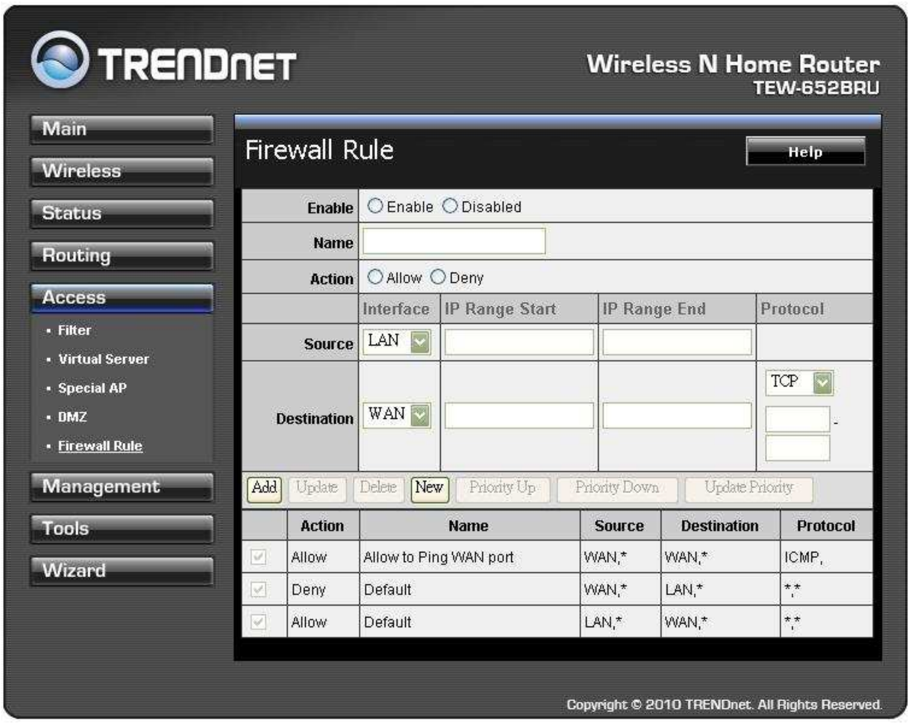
Enable: Click to enable or disable the DMZ.

DMZ Host IP: Type a host IP address for the DMZ. The computer with this IP address acts as a DMZ host with unlimited Internet access.

Apply: Click to save the settings.

Firewall Settings

This screen enables users to set up the firewall. The WLAN Router provides basic firewall functions, by filtering all the packets that enter the WLAN Router using a set of rules. The rules are listed in sequential order--the lower the rule number, the higher the priority the rule has.



Firewall Rule

Enable ○ Enable ○ Disabled

Name

Action ○ Allow ○ Deny

	Interface	IP Range Start	IP Range End	Protocol
Source	LAN			
Destination	WAN			TCP

	Action	Name	Source	Destination	Protocol
☑	Allow	Allow to Ping WAN port	WAN,*	WAN,*	ICMP,
☑	Deny	Default	WAN,*	LAN,*	*,*
☑	Allow	Default	LAN,*	WAN,*	*,*

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Enable: Click to enable or disable the firewall rule profile.

Name: Type a descriptive name for the firewall rule profile.

Action: Select whether to allow or deny packets that conform to the rule.

Source: Defines the source of the incoming packet that the rule is applied to.

- **Interface:** Select which interface (WAN or LAN) the rule is applied to.
- **IP Range Start:** Type the start IP address that the rule is applied to.
- **IP Range End:** Type the end IP address that the rule is applied to.

Destination: Defines the destination of the incoming packet that the rule is applied to.

- **Interface:** Select which interface (WAN or LAN) the rule is applied to.
- **IP Range Start:** Type the start IP address that the rule is applied to.
- **IP Range End:** Type the end IP address that the rule is applied to.
- **Protocol:** Select the protocol (TCP, UDP, or ICMP) of the destination.
- **Port Range:** Select the port range.

Add: Click to add the rule profile to the table at the bottom of the screen.

Update: Click to update information for the rule if the user has selected a listed item and has made changes.

Delete: Select a listed item and click ***Delete*** button to remove the entry from the list.

New: Click **"New"** to erase all fields and enter new information.

Priority Up: Select a rule from the list and click **"Priority Up"** to increase the priority of the rule.

Priority Down: Select a rule from the list and click **"Priority Down"** to decrease the priority of the rule.

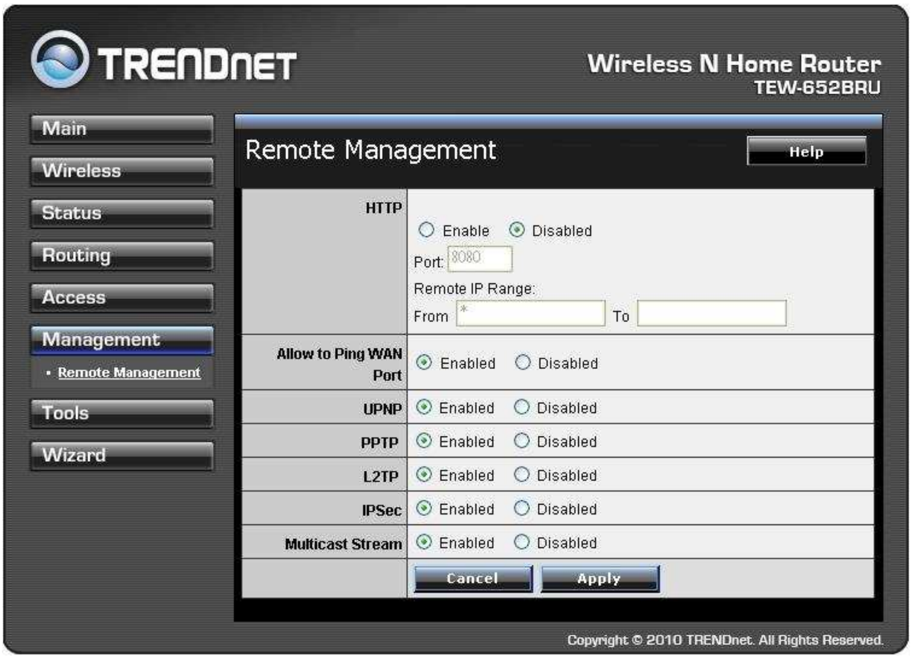
Update Priority: After increasing or decreasing the priority of a rule, click **"***Update Priority***"** to save the changes.

Management

Management enables users to set up the Remote Management feature.

Remote Management

This screen enables users to set up remote management. Using remote management, the WLAN Router can be configured through the WAN via a Web browser. A user name and password are required to perform remote management.



Remote Management

HTTP	○ Enable ● Disabled Port: 8080 Remote IP Range: From * To
Allow to Ping WAN Port	● Enabled ○ Disabled
UPNP	● Enabled ○ Disabled
PPTP	● Enabled ○ Disabled
L2TP	● Enabled ○ Disabled
IPSec	● Enabled ○ Disabled
Multicast Stream	● Enabled ○ Disabled

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HTTP: Enables users to set up HTTP access of the Port number, and Remote IP Range for remote management.

Allow to Ping WAN Port: Type a range of Router IP addresses that can be pinged from remote locations

UPnP Enable: UPnP is short for Universal Plug and Play that is a networking architecture that provides compatibility among networking equipment, software, and peripherals. The WLAN Router is an UPnP-enabled Router and will only work with other UPnP devices/software. If user does not want to use the UPnP functionality, select “Disabled” to disable it.

PPTP: Enables users to set up PPTP access for remote management.

L2TP: Enables users to set up L2TP access for remote management.

IPSec: Enables users to set up IPSec access for remote management.

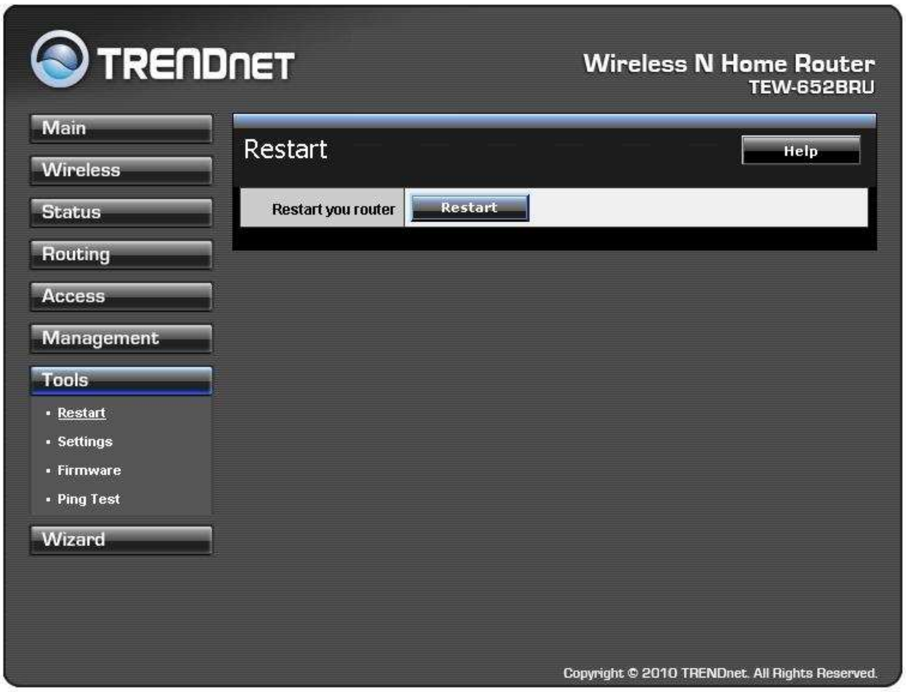
Multicast Stream: Enables or Disables users to set up multicast stream. If you have a multimedia LAN application that is not receiving content as expected, try enabling this option. Default is enabled.

Tools

This page enables users to restart the system, save and load different settings as profiles, restore factory default settings, run a setup wizard to configure WLAN Router settings, upgrade the firmware, and ping remote IP addresses.

Restart

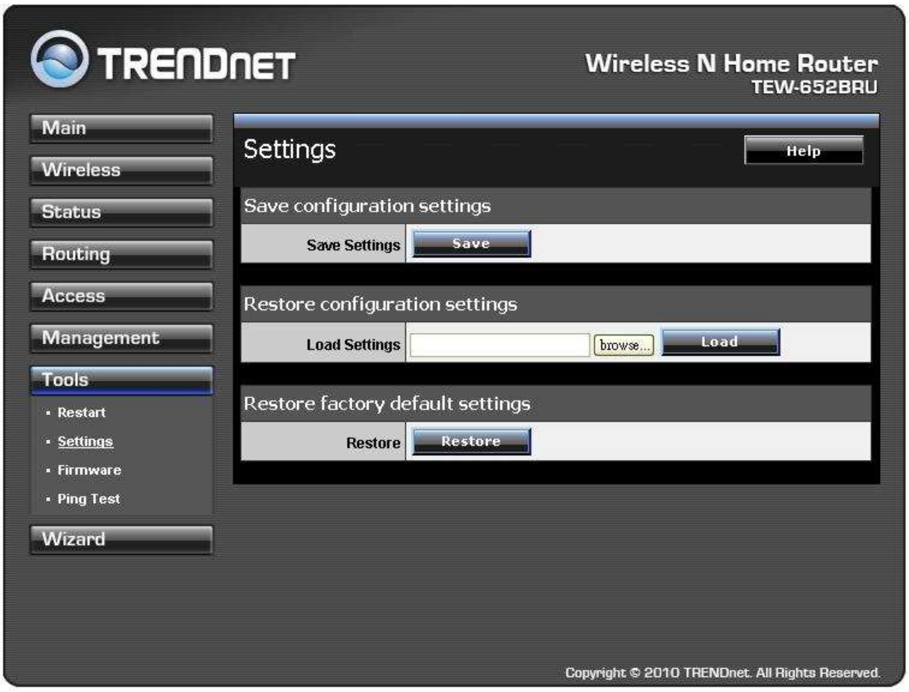
Click “Restart” to restart the system in the event the system is not performing correctly.



Restart you router

Settings

This screen enables users to save settings as a profile and load profiles for different circumstances. User can also load the factory default settings, and run a setup wizard to configure the WLAN Router and Router interface.



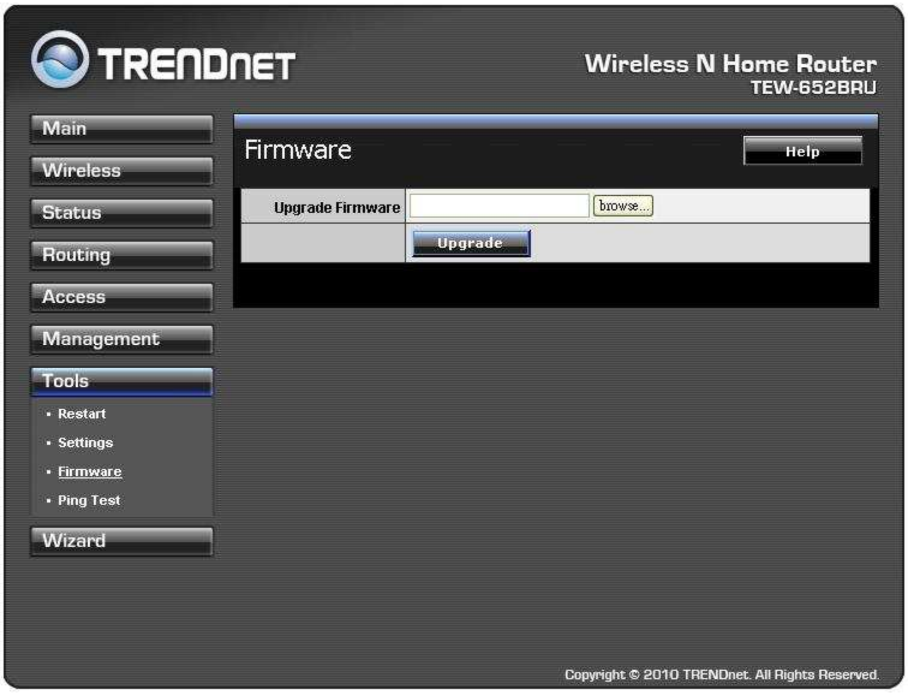
Save Settings: Click “Save” to save the current configuration as a profile that can load when necessary.

Load Settings: Click “Browse” and go to the location of a stored profile. Click “Load” to load the profile's settings.

Restore Factory Default Settings: Click “Restore” to restore the default settings. All configuration changes will lose.

Firmware

This screen enables users to keep the WLAN Router firmware up to date.



Please follow the below instructions:

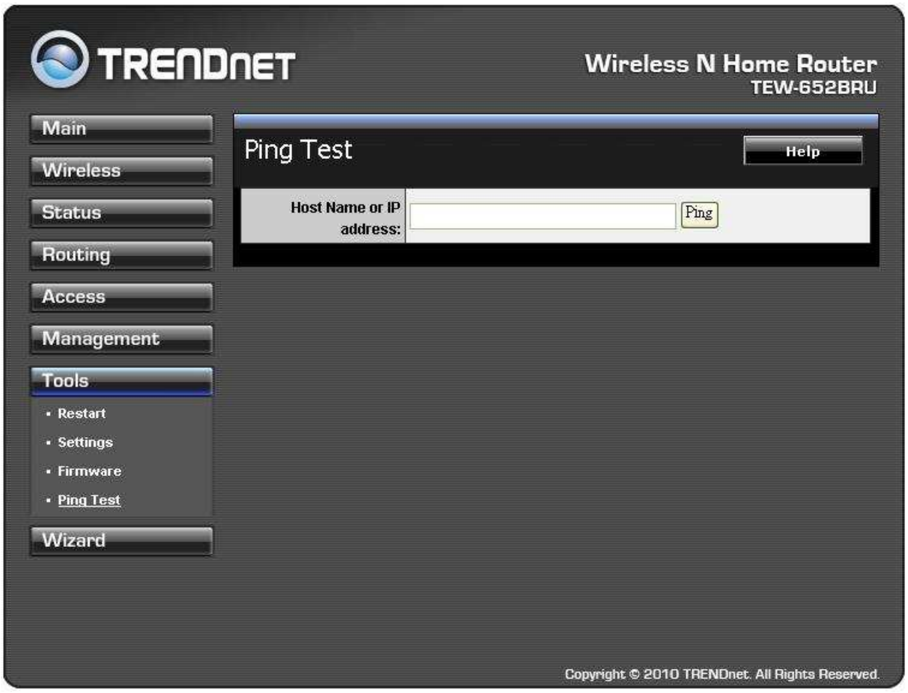
Download the latest firmware from the manufacturer's Web site, and save it to disk.

Click **"Browse"** and go to the location of the downloaded firmware file.

Select the file and click **"Upgrade"** to update the firmware to the latest release.

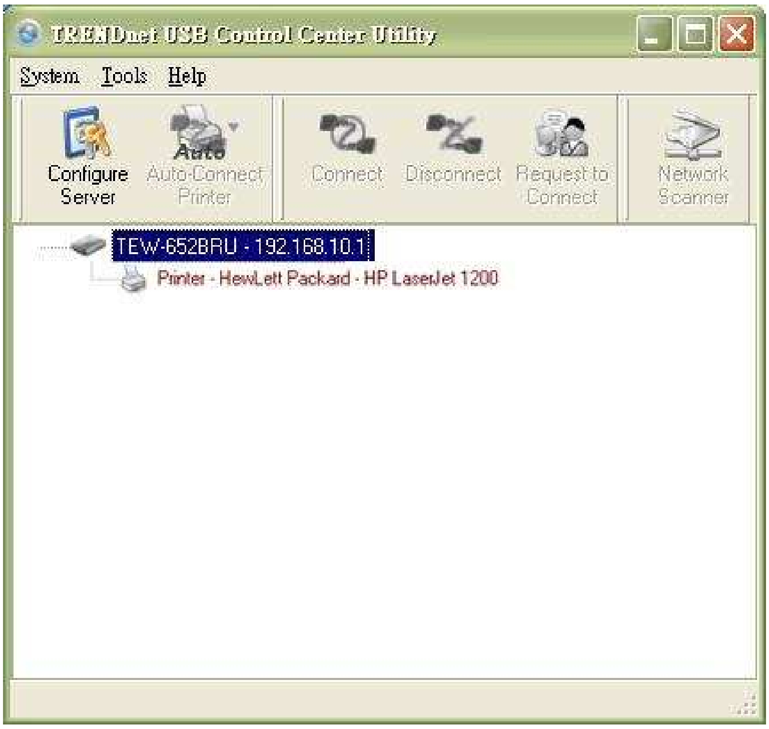
Ping Test

The ping test enables users to determine whether an IP address or host is present on the Internet. Type the host name or IP address in the text box and click Ping.



Utility

The USB Control Center Utility is used to connect your computer to USB devices connected to the WLAN Router. The utility allows you to use USB devices as if they were connected directly to your PC through the Wireless N Home Router with USB port

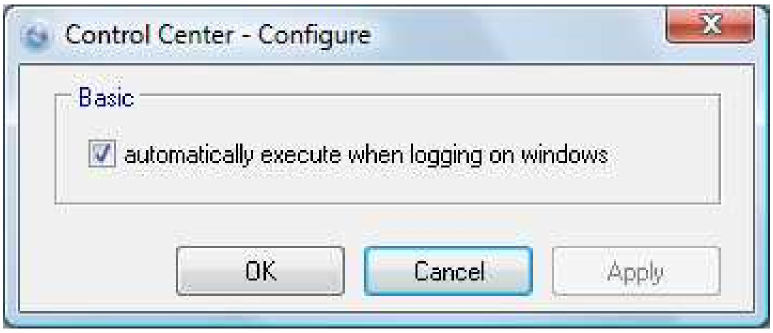

TRENDnet USB Control Center Utility
System
Tools
Help
Configure Server
Auto-Connect Printer
Connect
Disconnect
Request to Connect
Network Scanner
TEW-652BRU - 192.168.10.1
Printer - HewLett Packard - HP LaserJet 1200

<u>System</u>

Select this feature to completely close and exit from USB Control Center utility.

<u>Configure</u>

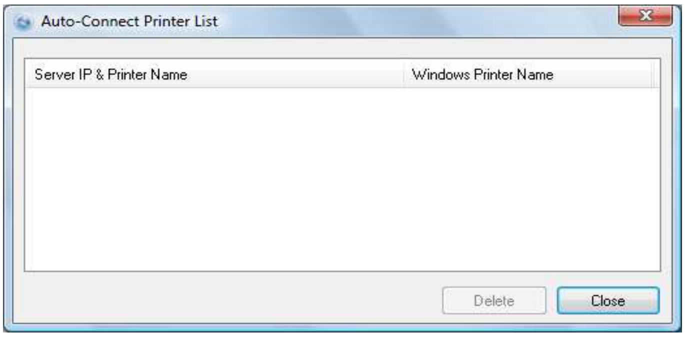
This option allows you to enable/disable the ability to automatically run the USB Control Center Utility when your computer turns on.



☑ automatically execute when logging on windows

Auto-Connect Printer List

Provides a list of installed printers on your computer. Select the printer you would like to add into the Auto-Connect Printer Lists.



Configure Server

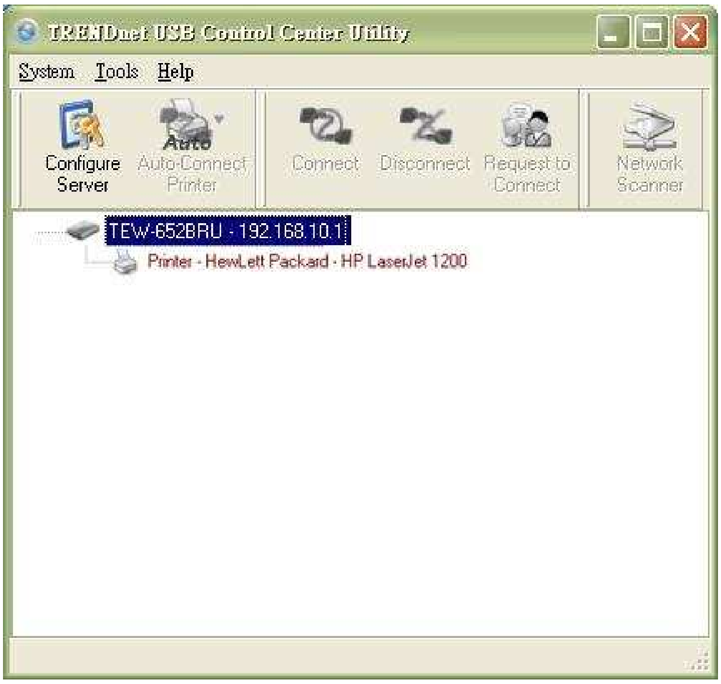
Click this button to configure the USB server and to log into the user interface of the Wireless N Home Router with USB port.

Print Sharing

This section describes how to use a USB printer through the WLAN Router. Note: For proper installation it is recommended that the printer's drivers are installed before connecting it to the USB port.

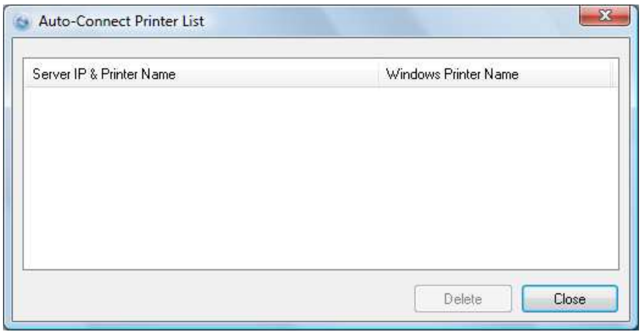
Auto Connect Printer

Click this button to configure selected printer for Auto-Connect, or to delete selected printer from Auto-Connect list. This enables auto connection to the printer when printing. It is recommended to set this feature on computers that prints a lot. Once the printer is connected, the USB Control Center utility will automatically detect the printer.



Set Auto-Connect Printer

Provides a list of installed printers on your computer. Select the printer you would like to add into the Auto-Connect Printer Lists.

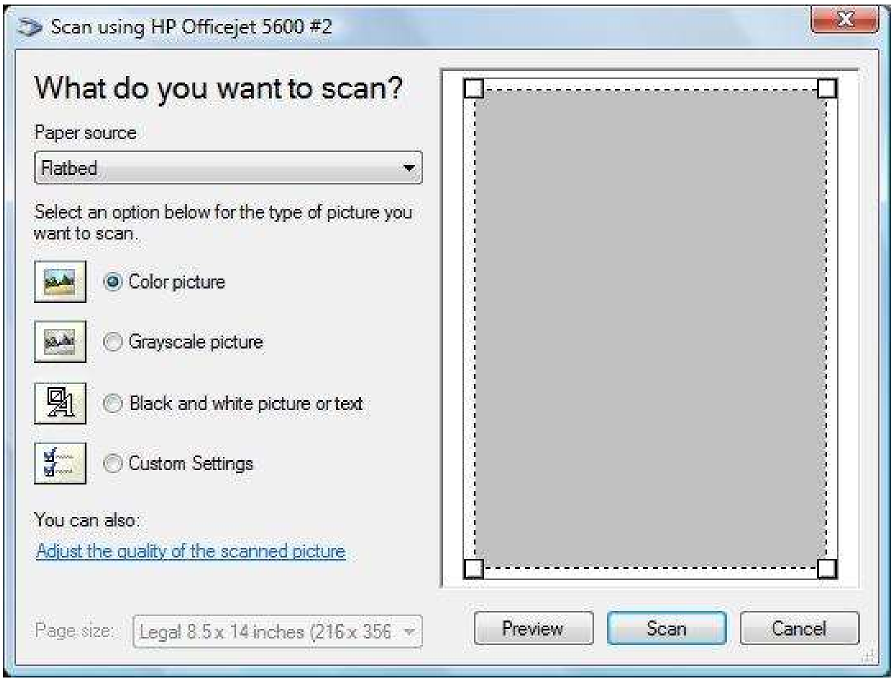


Auto-Connect Printer List

Server IP & Printer Name	Windows Printer Name

Network Scanner

This section describes the usage of a scanner through the Wireless N Gigabit Router with USB port. Once you click on the Network Scanner button on the USB utility the below image will appear.



Scan using HP Officejet 5600 #2

What do you want to scan?

Paper source: Flatbed

Select an option below for the type of picture you want to scan.

- ● Color picture
- ○ Grayscale picture
- ○ Black and white picture or text
- ○ Custom Settings

You can also:

Adjust the quality of the scanned picture

Page size: Legal 8.5 x 14 inches (216 x 356

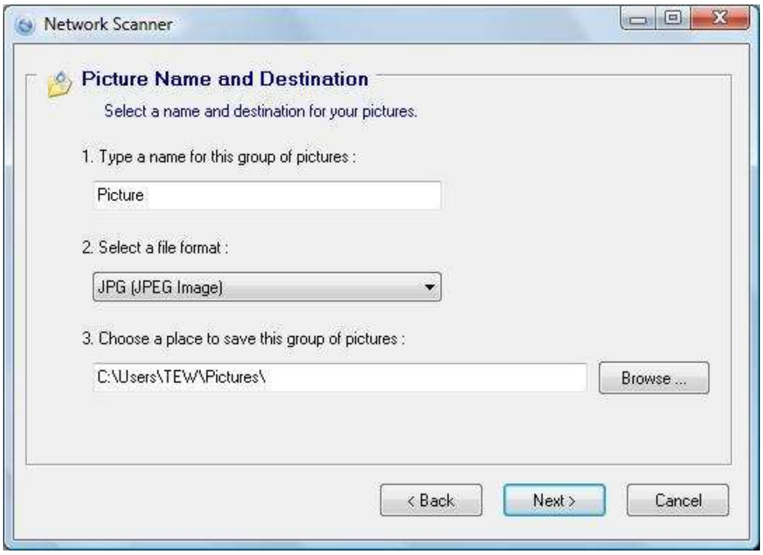
Paper Source: Select the type of scanner being used (Flatbed or Document Feeder)

Type of image: For proper scanning select the appropriate type of file being scanned.

Preview: Click to preview scanned image

Scan: Click to begin scanning

Cancel: Click to cancel scanning



Picture Name and Destination

Select a name and destination for your pictures.

1. Type a name for this group of pictures : Picture
2. Select a file format : JPG (JPEG Image)
3. Choose a place to save this group of pictures : C:\Users\TEW\Pictures\

Name: Type the name of the folder you would like to have the scanned images stored in.

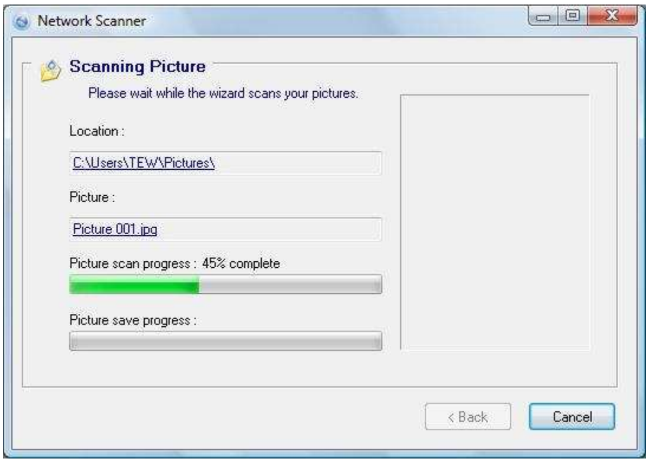
File Format: Select the file format

Save Location: Click Browse and select the location where you would like to have the scanned files saved in.

Back: Click to return to be previous screen.

Next: Click to begin scanning

Cancel: Click to cancel scanning job and to return to back to the USB Utility.



Scanning Picture

Please wait while the wizard scans your pictures.

Location : C:\Users\TEW\Pictures\

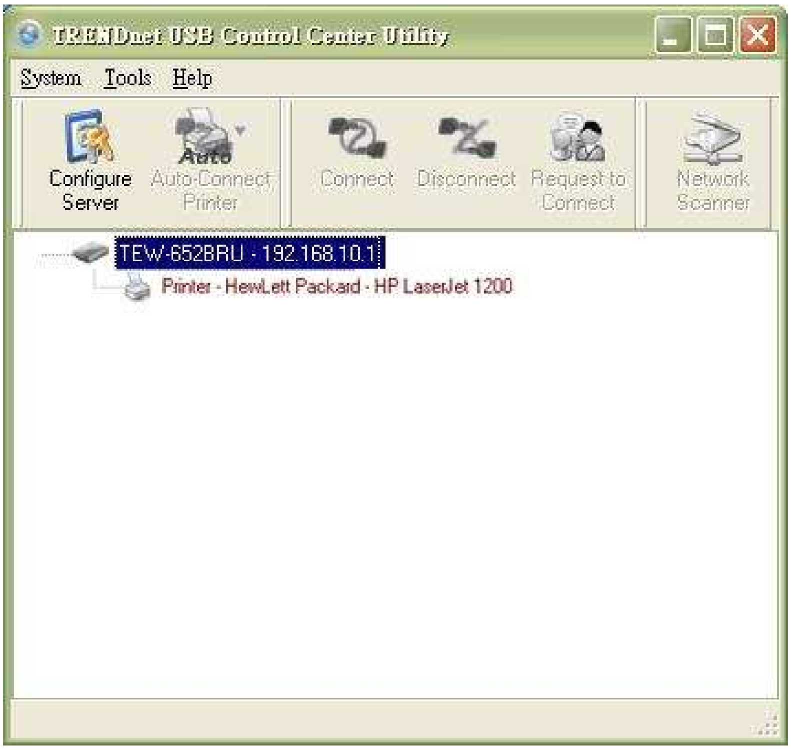
Picture : Picture 001.jpg

Picture scan progress : 45% complete

Picture save progress :

Connecting USB Storage Device

This section describes the how to use the utility when connecting to USB storage device through the WLAN Router.


TRENDnet USB Control Center Utility
System
Tools
Help
Configure Server
Auto-Connect Printer
Connect
Disconnect
Request to Connect
Network Scanner
TEW-652BRU - 192.168.10.1
Printer - HewLett Packard - HP LaserJet 1200

Connect

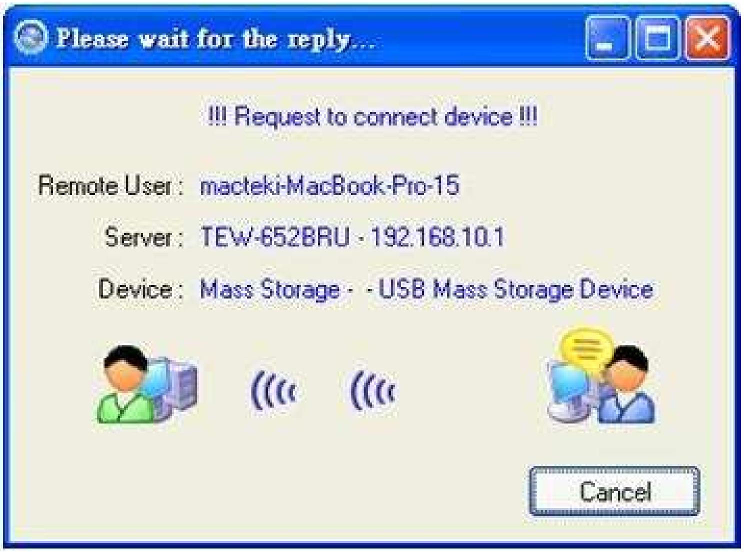
Click this button to establish connection to the selected USB device that is not configured to Auto-Connect, like USB storage devices.

Disconnect

Click this button to properly disconnect your computer form the connected USB device.

Request to Connect

Click this button if the USB device you would like to connect to is already connected by another computer in your network. The below message will be sent to the other computer indicating that another computer would like to connect to the USB device and will provide the ability to approve or reject connection.



Please wait for the reply...

!!! Request to connect device !!!

Remote User : macteki-MacBook-Pro-15

Server : TEW-652BRU - 192.168.10.1

Device : Mass Storage - - USB Mass Storage Device

Note: Only a single user can establish connection to a USB device. Once the “Request to Connect” is approved, the connection to the USB device will automatically transfer to the requested user.

TECHNICAL SPECIFICATIONS

Hardware	
Standards	Wired: IEEE 802.3 (10Base-T), IEEE 802.3u (100Base-TX) Wireless: IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (draft 2.0), IEEE 802.11e QoS USB 2.0
WAN	1 x 10/100Mbps Auto-MDIX port (Internet)
LAN	4 x 10/100Mbps Auto-MDIX ports
USB	1 x USB 2.0, 1.1 compliant USB type A port
WPS Button	Wi-Fi Protected Setup (WPS) with other WPS compliant devices
Connection Type	Dynamic IP, Static (Fixed) IP, PPPoE, PPTP, L2TP To be supported (Big Pond, Russia PPoE, PPTP, and L2TP)
UPnP	UPnP IGD 1.0 compliant
DMZ	DMZ host & Virtual Servers
DNS	Static or WAN assigned DNS servers; 3 verified services for DDNS
Internet Access Control	MAC Address Filter, Domain/URL Filter, Protocol/IP Filter
Logging	5 types of event logging; email report
LED Indicator	Power, LAN1~LAN4, WAN, WLAN, Status
Power Adapter	5V DC, 2A external power adapter
Power Consumption	4.5watts (max)
Dimension (L x W x H)	150 x 130 x 30mm (5.9 x 5.1 x 1.2in)
Weight	245g (8.6oz)
Temperature	Operation: 0°~ 40°C (32°F~ 104°F); Storage: -10°~ 70°C (14°F~158 °F)
Humidity	Max. 90% (non-condensing)
Certifications	CE, FCC
Wireless	
Frequency	2.412~2.484GHz band
Antenna	2 x 2dBi fixed dipole antennas
Media Access Protocol	CSMA/CA with ACK
Data Rate	802.11b: 11Mbps, 5.5Mbps, 2Mbps, and 1Mbps 802.11g: 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps and 6Mbps 802.11n: up to 300Mbps
Security	WEP(HEX/ASCII): 64/128-bit WPA(AES/TKIP): WPA/WPA2-RADIUS, WPA-PSK/WPA2-PSK
Output Power	802.11b: 15dBm (typical) 802.11g: 15dBm (typical) 802.11n: 13dBm (typical)
Receiving Sensitivity	802.11b: -85dBm (typical) @ 11Mpbs 802.11g: -68dBm (typical) @ 54Mbps 802.11n: -62dBm (typical) @ 300Mbps
Channels	1~ 11 (FCC), 1~13 (ETSI)

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