

4. ROUTER MODE

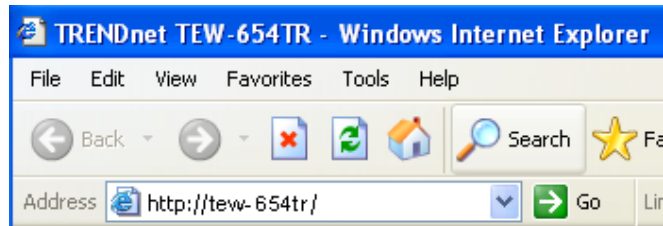
4.2 Web-Based Configuration

After making all the required connections, configure the travel router using the web-based configuration utility.

How to Access the Configuration Utility

In Router mode, the travel router's IP address is automatically set as **192.168.10.1**, and the device name is **tew-654tr**. To access the web-based configuration utility, do the following steps:

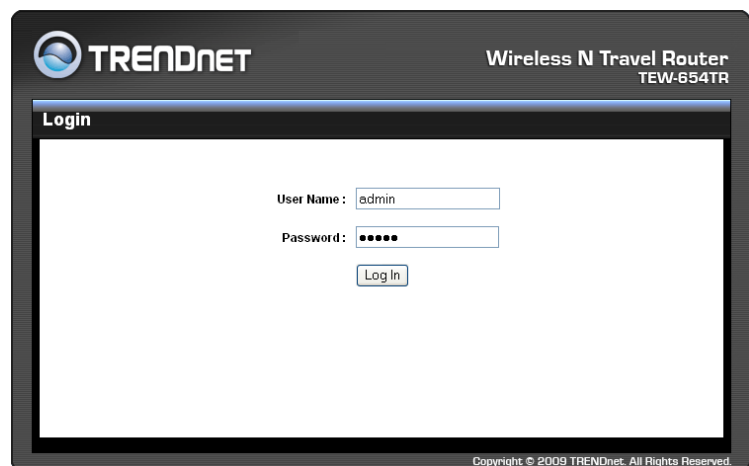
- 1 Open a web-browser, on the address field, enter either of the following defaults:
<http://tew-654tr/> or
<http://192.168.10.1/>.



- 2 Enter the default **User Name** and **Password**:
admin.

Note:

If you cannot access the configuration utility, disable the Internet security software on the computer. The firewall may block access to the configuration page. Check the software firewall documentation for help.



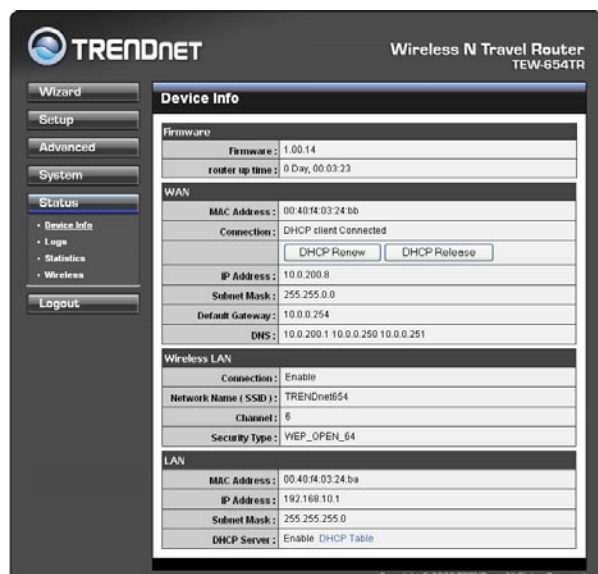
After login, the **Status > Device Info** page is displayed.

To access a page, click the buttons on the right.

To logout, click **Logout**.

Note:

For novice users, it is recommended to use the Setup Wizard to configure the travel router.



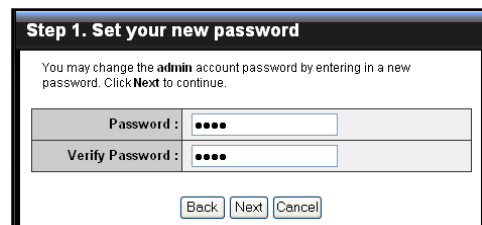
4.2.1 Wizard

Click the **Wizard** button to configure the travel router using the setup wizard.

- 1 Click **Next** to continue.



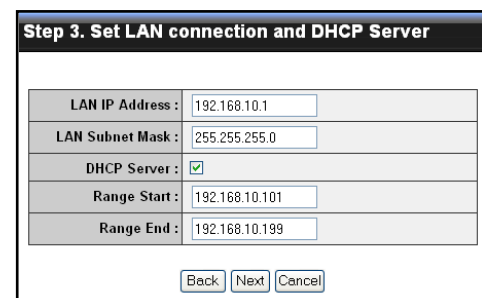
- 2 Create a new **Password**, then click **Next** to continue.



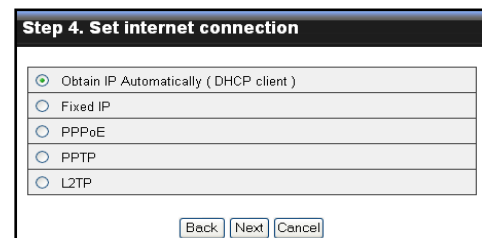
- 3 Choose the time zone from the list. Click **Next** to continue.



- 4 Set the **LAN connection** and **DHCP Server**. Click **Next** to continue.



- 5 Select the type of Internet connection you use, then click **Next** to continue.



Note:

The Passphrase must be 8-63 ASCII characters or 64 hexadecimal characters.

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If you selected **Obtain IP Automatically (DHCP Client)**...

Enter the **Host Name** (optional).

You may need to enter the **MAC Address** of the computer that was last connected to a modem. To do this, click **Clone MAC Address**.

Click **Next** to continue.

Skip to step 6.

If you selected **Fixed IP**...

Enter the information provided by your ISP: **IP Address**, **Subnet Mask**, **Gateway**, **Primary DNS**, and **Secondary DNS** (optional).

Click **Next** to continue.

Skip to step 6.

If you selected **PPPoE**...

Select either **Dynamic IP** or **Static IP**.

If you selected **Dynamic IP**, enter the **User Name** and **Password**.

If you selected **Static IP**, enter the **IP Address**, **User Name**, and **Password** provided by your ISP.

Click **Next** to continue.

Skip to step 6.

If you selected **PPTP**...

Select either **Dynamic IP** or **Static IP**.

If you selected **Dynamic IP**, enter the **Server IP**, **PPTP Account**, and **PPTP Password** (optional).

If you selected **Static IP**, enter the **IP Address**, **Subnet Mask**, **Gateway**, **Server IP**, **PPTP Account**, and **PPTP Password** (optional) provided by your ISP.

Click **Next** to continue.

Skip to step 6.

Step 4. Set Dynamic IP Address

If your ISP require you to enter a specific host name or specific MAC address, please enter it in. The **Clone MAC Address** button is used to copy the MAC address of your Ethernet adapter to the Router. Click **Next** to continue.

Host Name :	<input type="text"/>
Use Unicasting :	<input checked="" type="checkbox"/>
MAC Address :	<input type="text" value="00"/> - <input type="text" value="00"/> - <input type="text" value="00"/> - <input type="text" value="00"/> - <input type="text" value="00"/> - <input type="text" value="00"/>
	<input type="text" value="00"/> (Optional)
	<input type="button" value="Clone MAC Address"/>

Step 4. Set Fixed IP Address

Enter in the static IP information provided to you by your ISP. Click **Next** to continue.

IP Address :	<input type="text" value="0.0.0.0"/>
Subnet Mask :	<input type="text" value="255.255.255.0"/>
Gateway :	<input type="text" value="0.0.0.0"/>
Primary DNS :	<input type="text" value="0.0.0.0"/>
Secondary DNS :	<input type="text" value="0.0.0.0"/>

Step 4. Set PPPoE

The service name is optional but may be required by your ISP. Click **Next** to continue.

	<input checked="" type="radio"/> Dynamic IP <input type="radio"/> Static IP
IP Address :	<input type="text" value="0.0.0.0"/>
User Name :	<input type="text"/>
Password :	<input type="password"/>
Verify Password :	<input type="password"/>
Service Name :	<input type="text"/> (Optional)

Step 4. Set PPTP Client

Please set you PPTP Client data. Click **Next** to continue.

	<input checked="" type="radio"/> Dynamic IP <input type="radio"/> Static IP
IP Address :	<input type="text" value="0.0.0.0"/>
Subnet Mask :	<input type="text" value="255.255.255.0"/>
Gateway :	<input type="text" value="0.0.0.0"/>
Server IP :	<input type="text"/>
PPTP Account :	<input type="text"/>
PPTP Password :	<input type="password"/>
Verify Password :	<input type="password"/>

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If you selected **L2TP...**

Select either **Dynamic IP** or **Static IP**.

If you selected **Dynamic IP**, enter the **Server IP**, **L2TP Account**, and **L2TP Password** (optional).

If you selected **Static IP**, enter the **IP Address**, **Subnet Mask**, **Gateway**, **Server IP**, **L2TP Account**, and **L2TP Password** (optional) provided by your ISP.

Click **Next** to continue.

Skip to step 6.

- 5 Check the **Wireless Enable** box to enable wireless function. Create a new Wireless Network Name and select the Channel (6 by default).

Click **Next** to continue.

- 6 Click **Save** to save the settings and reboot the device.

Step 4. Set L2TP Client

Please set your L2TP Client data. Click **Next** to continue.

	<input checked="" type="radio"/> Dynamic IP <input type="radio"/> Static IP
IP Address :	<input type="text" value="0.0.0.0"/>
Subnet Mask :	<input type="text" value="255.255.255.0"/>
Gateway :	<input type="text" value="0.0.0.0"/>
Server IP :	<input type="text"/>
L2TP Account :	<input type="text"/>
L2TP Password :	<input type="text"/>
Verify Password :	<input type="text"/>

Step 5. Set wireless LAN connection

Your wireless network needs a name so it can be easily recognized by wireless clients. Click **Next** to continue.

Wireless Enable :	<input checked="" type="checkbox"/>
Wireless Network Name (SSID) :	<input type="text" value="TRENDnet654"/>
Channel :	<input type="text" value="6"/>

Step 6. Setup Completed

Click "Save" button to save the settings and restart Wireless Router.

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4.2.2 Setup

The Setup menu allows you to configure basic router settings. Click the **Setup** button then the submenu to view page.

Wireless Network Settings

Wireless Network Name

The name of your wireless network, also called Service Set Identifier (SSID).

Enter up to 32 characters.

Enable Auto Channel Scan

Auto channel scan selects the channel with the least amount of interference. Check to enable auto channel scan.

Wireless Channel

Manually select the channel from the list. By default, the channel is set to 6. If **Enable Auto Channel Scan** is checked, this box is grayed out.

802.11 Mode

Limit the type of wireless clients to allow connection with. Select any of the following modes if your clients are:

- **2.4Ghz 802.11b/g mixed mode:** a mix of 802.11b and 11g wireless devices.
- **2.4Ghz 802.11b/g/n mixed mode:** a mix of 802.11b, 11g, 11n wireless devices.
- **2.4Ghz 802.11n only mode:** all 802.11n wireless devices.

Channel Width

Select the appropriate channel width:

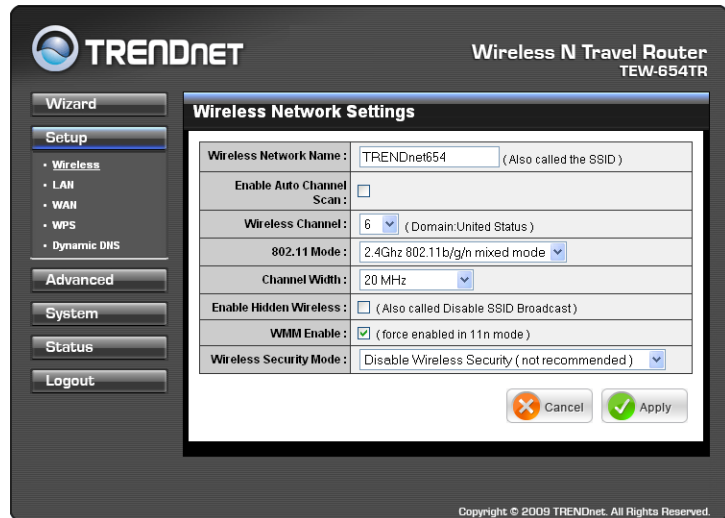
- **20 MHz (Default):** Select if your wireless clients are not 802.11n.
- **Auto 20/40 MHz:** Select if your wireless clients are a mix of 802.11b, 11g, 11n wireless clients. If you are not sure which wireless clients you are using, select **Auto**.

Enable Hidden Wireless

Check to hide the SSID of your wireless network to be broadcasted when wireless clients scan for wireless networks. To display the router's SSID, keep the box unchecked (default).

WMM Enable

Wi-Fi Multimedia (WMM) improves the quality of video and voice applications transmitted over a wireless network. This function is commonly used with multimedia applications such as a game console. Check the box to enable WMM.



Wireless Security Mode

Select the security level for your wireless network. Select the wireless security mode from the list:

- **Disable Wireless Security:** (Default) Select if you do not want to use any wireless security.
- **Enable WEP Wireless Security (basic)**
- **Enable WPA Wireless Security (enhanced)**
- **Enable WPA-2 Wireless Security (enhanced)**
- **Enable WPA-Auto Wireless Security (enhanced):** Select if you are unsure which WPA wireless security to use.

The required settings vary depending on the selected mode.

WEP

WEP (Wired Equivalent Privacy) is the basic encryption method. With WEP encryption, all wireless clients must enter the same key to connect to the access point.

Authentication

Select the type of authentication:

- **Open system:** Allows public access to the travel router via wireless communications.
- **Shared Key:** Requires users to enter the same WEP key to exchange data with other wireless devices.
- **Auto:** Select **Auto** if you are unsure which authentication suits best for your wireless clients.

Authentication :	Open System ▾
Key Length :	64Bit ▾
Key Format :	HEX ▾
Default WEP Key :	WEP Key 1 ▾
WEP Key 1 :	2994153900
WEP Key 2 :	
WEP Key 3 :	
WEP Key 4 :	

Key Length

Select the key length or the level of encryption:

- **64Bit:** Select to enter 10 hexadecimal characters with any combination of 0-9 or A-F
- **128Bit:** Select to enter 26 hexadecimal characters with any combination of 0-9 or A-F

Key Format

Select the key format:

- **ASCII:** Select to enter ASCII characters.
- **HEX:** Select to enter hexadecimal characters.

Default WEP Key

The travel router supports up to 4 sets of WEP keys. Select which WEP Key is used as the default key from the list.

WEP KEY 1-4

Manually enter a set of WEP key for each box. Select the default WEP key from the **Default WEP Key** list.

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WPA / WPA-2 / WPA-Auto

WPA (Wi-Fi Protected Access) uses high grade encryption and authentication which is designed to improve WEP encryption. WPA / WPA-2 / WPA-Auto uses a passphrase to authenticate wireless connections.

Cipher Type

Select the encryption method:

- **TKIP:** Temporal Key Integrity Protocol.
- **AES:** Advanced Encryption Standard.
- **Auto:** Select **Auto** if you are unsure which method is suitable for your wireless clients.

Cipher Type:	Auto
PSK / EAP:	PSK
Passphrase:	<input type="text"/>
Confirmed Passphrase:	<input type="text"/>

PSK/EAP

Select the authentication method:

- **PSK:** Select to use a passphrase for authentication.

Passphrase

Create a passphrase. The passphrase must be 64 hexadecimal or 8-63 ASCII characters.

Confirm Passphrase

Re-enter passphrase.

- **EAP:** Select to use Extensible Authentication Protocol (EAP). This should only be used when a Radius server is connected to the travel router. You can have up to 2 Radius server settings.

IP

Enter the IP address of the Radius server.

Port

Enter the port number of the Radius server. The default value is 1812.

Shared Secret

Enter the secret key shared between the travel router and the Radius server.

Cipher Type:	Auto	
PSK / EAP:	EAP	
802.1X		
RADIUS Server 1:	IP	0.0.0.0
	Port	1812
	Shared Secret	<input type="text"/>
RADIUS Server 2:	IP	0.0.0.0
	Port	1812
	Shared Secret	<input type="text"/>

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

Local Area Network (LAN) Settings

Device Name

Create the device name. The default name is TEW-654TR.

IP Address

Enter the IP address provided by your ISP.

Subnet Mask

Enter the subnet mask provided by your ISP.

Enable DHCP Server

Check the box to allow the travel router to automatically assign an IP address to each connected devices. This function is enabled by default.

DHCP IP Address Range

Enter the starting and ending range of IP addresses that can be assigned to clients on your network.

DHCP Lease Time

Select the length of time to “lease” the dynamic IP address from the list. The default time is **1 Week**.

Domain Name

Enter the domain name (optional).

Dynamic DHCP Client List window

Displays the list of DHCP clients.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

The screenshot shows the 'LAN' configuration page of a Trendnet Wireless N Travel Router (TEW-654TR). The page is divided into several sections:

- LAN Connection:** Fields for Device Name (TEW-654TR), IP Address (192.168.10.1), and Subnet Mask (255.255.255.0).
- DHCP Server:** A section for configuring the built-in DHCP server. It includes a checkbox for 'Enable DHCP Server' (checked), a 'DHCP IP Address Range' field (192.168.10.101 to 192.168.10.199), a 'DHCP Lease Time' dropdown menu (set to 1 Week), and a 'Domain Name' field.
- DYNAMIC DHCP CLIENT LIST:** A table showing the list of DHCP clients. The table has columns for Host Name, IP Address, MAC Address, and Expired Time.

Host Name	IP Address	MAC Address	Expired Time
dell188-en	192.168.10.101	00:1b:77:67:d2:95	Tue Jan 8 00:00:22 2008
karan196	192.168.10.102	00:11:95:c8:11:d3	Tue Jan 8 00:00:22 2008

At the bottom right of the form, there are 'Cancel' and 'Apply' buttons. The copyright notice at the bottom reads: Copyright © 2009 TRENDnet. All Rights Reserved.

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Wide Area Network (WAN) Settings

Connection Type

Select the type of Internet connection that you use from the list. The required fields may vary depending on the selected connection type.

Dynamic IP (DHCP)

Host Name

Enter the host name. This field is optional but may be required by some ISPs.

Use Unicasting

If you have problems obtaining an IP address from your ISP, check this box to enable unicasting. Enabled by default.

Primary / Secondary DNS

Enter the DNS server addresses provided by your ISP.

MTU

Adjust the MTU (Maximum Transmission Unit) for optimal performance with your ISP. The default value is 1500.

MAC Address

Enter the MAC address of the computer that was last connected to a modem. To enter the MAC address of your current computer, click **Clone MAC Address**.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

Connection Type	
Connection Type:	Dynamic IP (DHCP)
Host Name:	
Use Unicasting:	<input checked="" type="checkbox"/>
Primary DNS:	0.0.0.0
Secondary DNS:	0.0.0.0
MTU:	1500 (bytes) MTU default = 1500
MAC Address:	00 - 11 - 95 - c8 - 11 - d3
	<input type="button" value="Clone MAC Address"/>
	<input type="button" value="Cancel"/> <input type="button" value="Apply"/>

Static IP

IP Address

Enter the IP address provided by your ISP.

Subnet Mask

Enter the subnet mask provided by your ISP.

Default Gateway

Enter the gateway provided by your ISP.

Primary / Secondary DNS

Enter the DNS server address provided by your ISP.

Connection Type	
Connection Type:	Static IP
IP Address:	0.0.0.0
Subnet Mask:	255.255.255.0
Default Gateway:	0.0.0.0
Primary DNS:	0.0.0.0
Secondary DNS:	0.0.0.0
MTU:	1500 (bytes) MTU default = 1500
MAC Address:	00 - 11 - 95 - c8 - 11 - d3
	<input type="button" value="Clone MAC Address"/>

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MTU

Adjust the MTU (Maximum Transmission Unit) for optimal performance with your ISP. The default value is 1400.

MAC Address

Enter the MAC address of the computer that was last connected to a modem. To enter the MAC address of your current computer, click **Clone MAC Address**.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

PPPoE

Select PPPoE (Point to Point Protocol over Ethernet) if your ISP uses a PPPoE connection. Your ISP will provide you with a user name and password.

Address Mode

Select **Dynamic IP** (default) or **Static IP** if your ISP provided you with the IP address, subnet mask, and DNS server addresses.

IP Address

Enter the IP address provided by your ISP. This field is only available when **Access Mode** is set to **Static IP**.

Service Name

Enter the ISP's service name (optional).

User Name

Enter the user name provided by your ISP.

Password

Enter the password.

Primary / Secondary DNS

Enter the DNS server addresses provided by your ISP.

Auto-reconnect

Select reconnect option: **Always-on**, **Connect-on Demand**, and **Manual**.

Idle Time Out

Enter the time wherein the travel router will cut off the Internet connection after the specified period of inactivity (in minutes). This field is disabled when **Auto-reconnect** is **Always-on**.

MTU

Adjust the MTU (Maximum Transmission Unit) for optimal performance with your ISP. The default value is 1492.

Connection Type	
Connection Type:	PPPoE
Address Mode:	<input checked="" type="radio"/> Dynamic IP <input type="radio"/> Static IP
IP Address:	0.0.0.0
Service Name:	
User Name:	
Password:	
Verify Password:	
Primary DNS:	0.0.0.0
Secondary DNS:	0.0.0.0
Auto-reconnect:	<input checked="" type="radio"/> Always-on <input type="radio"/> Connect-on Demand <input type="radio"/> Manual
Idle Time Out:	5 Minutes
MTU:	1492 (bytes) MTU default = 1492
MAC Address:	00 - 11 - 95 - c8 - 11 - d3 <input type="button" value="Clone MAC Address"/>

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MAC Address

Enter the MAC address of the computer that was last connected to a modem. To enter the MAC address of your current computer, click **Clone MAC Address**.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

PPTP

Select PPTP (Point to Point Tunneling Protocol) if your ISP uses a PPTP connection. Your ISP will provide you with a user name and password.

Address Mode

Select **Dynamic IP** (default) or **Static IP** if your ISP provided you with the IP address, subnet mask, and DNS server addresses.

IP Address

Enter the IP address provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

Subnet Mask

Enter the subnet mask provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

Gateway

Enter the gateway provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

Server IP

Enter the server IP address provided by your ISP.

PPTP Account

Enter the PPTP account name provided by your ISP.

PPTP Password

Enter the PPTP password provided by your ISP.

Primary / Secondary DNS

Enter the DNS server addresses provided by your ISP.

Auto-reconnect

Select reconnect option: **Always-on**, **Connect-on Demand**, and **Manual**.

Idle Time Out

Enter the time wherein the travel router will cut off the Internet connection after the specified period of inactivity (in minutes). This field is disabled when **Auto-reconnect**

Connection Type	
Connection Type:	PPTP
Address Mode:	<input checked="" type="radio"/> Dynamic IP <input type="radio"/> Static IP
IP Address:	0.0.0.0
Subnet Mask:	255.255.255.0
Gateway:	0.0.0.0
Server IP:	
PPTP Account:	
PPTP Password:	
PPTP Verify Password:	
Primary DNS:	0.0.0.0
Secondary DNS:	0.0.0.0
Auto-reconnect:	<input checked="" type="radio"/> Always-on <input type="radio"/> Connect-on Demand <input type="radio"/> Manual
Idle Time Out:	5 Minutes
MTU:	1400 (bytes) MTU default = 1400
MAC Address:	00 - 11 - 95 - c8 - 11 - d3 <input type="button" value="Clone MAC Address"/>

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is **Always-on**.

MTU

Adjust the MTU (Maximum Transmission Unit) for optimal performance with your ISP. The default value is 1500.

MAC Address

Enter the MAC address of the computer that was last connected to a modem. To enter the MAC address of your current computer, click **Clone MAC Address**.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

L2TP

Select L2TP (Layer 2 Tunneling Protocol) if your ISP uses an L2TP connection. Your ISP will provide you with a user name and password.

Address Mode

Select **Dynamic IP** (default) or **Static IP** if your ISP provided you with the IP address, subnet mask, and DNS server addresses.

IP Address

Enter the IP address provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

Subnet Mask

Enter the subnet mask provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

Gateway

Enter the gateway provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

Server IP

Enter the server IP address provided by your ISP.

L2TP Account

Enter the L2TP account name provided by your ISP.

L2TP Password

Enter the L2TP password provided by your ISP. Then re-enter it into the next field.

Primary / Secondary DNS

Enter the DNS server addresses provided by your ISP.

Connection Type	
Connection Type:	L2TP
Address Mode:	<input checked="" type="radio"/> Dynamic IP <input type="radio"/> Static IP
IP Address:	0.0.0.0
Subnet Mask:	255.255.255.0
Gateway:	0.0.0.0
Server IP:	0
L2TP Account:	D
L2TP Password:	
L2TP Verify Password:	
Primary DNS:	0.0.0.0
Secondary DNS:	0.0.0.0
Auto-reconnect:	<input checked="" type="radio"/> Always-on <input type="radio"/> Connect-on Demand <input type="radio"/> Manual
Idle Time Out:	5 Minutes
MTU:	1400 (bytes) MTU default = 1400
MAC Address:	00 - 11 - 95 - c8 - 11 - d3
	<input type="button" value="Clone MAC Address"/>

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Auto-reconnect

Select reconnect option: **Always-on**, **Connect-on Demand**, and **Manual**.

Idle Time Out

Enter the time wherein the travel router will cut off the Internet connection after the specified period of inactivity (in minutes). This field is disabled when **Auto-reconnect** is **Always-on**.

MTU

Adjust the MTU (Maximum Transmission Unit) for optimal performance with your ISP. The default value is 1400.

MAC Address

Enter the MAC address of the computer that was last connected to a modem. To enter the MAC address of your current computer, click **Clone MAC Address**.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

Wi-Fi Protected Setup (WPS) Settings

Wi-Fi Protected Setup (WPS) is an optional certification program from the Wi-Fi Alliance that is designed to ease the task of setting up and configuring security on a wireless network.

Enable

Check the box to enable WPS function.

Status

Displays WPS status:
UnConfigured or **Configured**.

There are 2 methods used in WPS configuration:

- **Push Button:** If the client device has a WPS button.
- **PIN Number:** If the client device has a WPS PIN number.

Self-PIN Number

Displays the default PIN number of the travel router.

Client PIN Number

Enter the client's PIN number. This PIN number will be used to communicate with the travel router to connect to the network.

Start PIN

Click this button to start WPS configuration process if the client device has a WPS

The screenshot shows the 'Wi-Fi Protected Settings' page in the router's web interface. The 'Enable' checkbox is checked. The status is 'UnConfigured'. Under 'PIN Settings', the 'Self-PIN Number' is 02060101 and the 'Client PIN Number' is also 02060101. There is a 'Start PIN' button next to the Client PIN field. Under 'Push Button Configuration', there is a 'Start PBC' button. A table at the bottom shows: Authentication: OPEN, Encryption: WEP, Key: 2994153900. There are 'Cancel' and 'Apply' buttons at the bottom right.

PIN number.

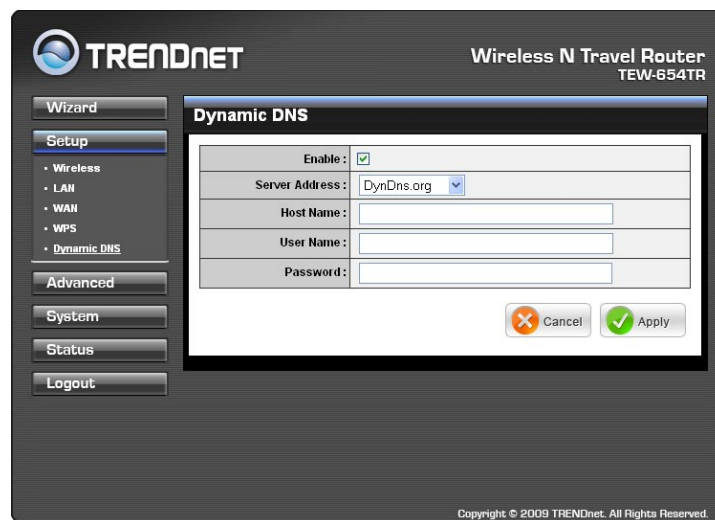
Push Button Configuration

Click the **Start PBC** button to start WPS configuration process if the client device has a WPS button.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

Dynamic DNS Settings

Use the Dynamic DNS submenu to synchronize the dynamic DNS server with your current public IP address when you are online.



The screenshot shows the Dynamic DNS configuration page on a Trendnet Wireless N Travel Router (TEW-654TR). The page has a dark grey background with a sidebar on the left containing navigation buttons: Wizard, Setup (selected), Wireless, LAN, WAN, WPS, Dynamic DNS, Advanced, System, Status, and Logout. The main content area is titled 'Dynamic DNS' and contains the following fields:

Enable:	<input checked="" type="checkbox"/>
Server Address:	DynDns.org
Host Name:	<input type="text"/>
User Name:	<input type="text"/>
Password:	<input type="text"/>

At the bottom right of the form are two buttons: 'Cancel' (with a red X icon) and 'Apply' (with a green checkmark icon). The footer of the page reads 'Copyright © 2009 TRENDnet. All Rights Reserved.'

Enable

Check the box to enable dynamic DNS function. If this box is unchecked, the fields below are all disabled.

Server Address

Select the server address from the list of available servers.

Host Name

Enter the host name.

User Name

Enter the user name.

Password

Enter the password.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

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4.2.3 Advanced

The Advanced menu configurations greatly affect the operating performance of the travel router. This menu is intended for advanced users. It is recommended to retain the default settings. Do not change any of the configurations if you are unsure about it.

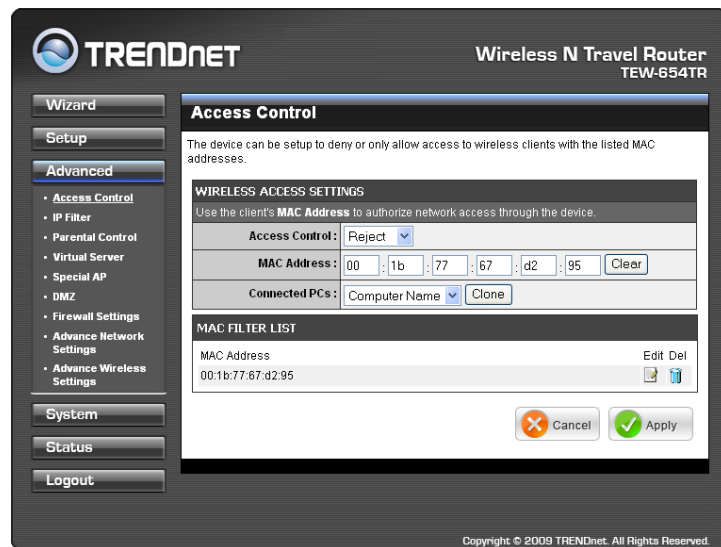
Access Control

The Access Control menu allows you deny or only allow access to certain wireless clients by filtering their MAC addresses.

Access Control

Select the type of access from the list:

- **Disable:** Disable access control.
- **Reject:** Deny the MAC addresses shown on the list to access the wireless network.
- **Accept:** Only allow the MAC addresses shown on the list to access the wireless network.



MAC Address

Displays the cloned MAC address. To clear the MAC address, click **Clear**.


Connected PCs

Select the name of the connected client that you want to clone. Click **Clone** to clone its MAC address.

To grant or block access:

- 1 Select the client from the **Connected PCs** list, then click **Clone**. The cloned MAC address is displayed in the **MAC Address** field.
- 2 Click **Apply** to add MAC address in the **MAC Filter List**. The system will reboot.
- 3 After rebooting, select the **Access Control** option: **Disable**, **Reject** or **Accept**.
- 4 Click **Apply** to save setting. The system will reboot for changes to take effect.
- 5 To add more MAC addresses, repeat steps 1-4.

To edit the access control of a MAC address, click its corresponding  icon.

To delete the MAC address from the list, click its corresponding  icon.

IP Filter

The IP Filter menu allows you to restrict a range of IP addresses to access the Internet.

TRENDnet Wireless N Travel Router TEW-654TR

Wizard
Setup
Advanced

- Access Control
- IP Filter
- Parental Control
- Virtual Server
- Special AP
- DMZ
- Firewall Settings
- Advance Network Settings
- Advance Wireless Settings

System
Status
Logout

IP Filter Rules

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

Enable:

Name:

Protocol:

Port: -

IP Range: -

IP Filter List					
	Name	Protocol	Port Range	IP Range	Edit Del
<input type="checkbox"/>	Filter FTP	Any	20 ~ 21	0.0.0.0 ~ 0.0.0.0	
<input type="checkbox"/>	Filter HTTP	Any	80 ~ 80	0.0.0.0 ~ 0.0.0.0	
<input type="checkbox"/>	Filter HTTPS	Any	443 ~ 443	0.0.0.0 ~ 0.0.0.0	
<input type="checkbox"/>	Filter DNS	Any	53 ~ 53	0.0.0.0 ~ 0.0.0.0	
<input type="checkbox"/>	Filter SMTP	Any	25 ~ 25	0.0.0.0 ~ 0.0.0.0	
<input type="checkbox"/>	Filter POP3	Any	110 ~ 110	0.0.0.0 ~ 0.0.0.0	
<input type="checkbox"/>	Filter Telnet	Any	23 ~ 23	0.0.0.0 ~ 0.0.0.0	

Cancel Apply

Enable

Check the box to enable filter. Uncheck to disable filter.

Name

Create a filter name.

Protocol

Select the type of protocol to use: **TCP**, **UDP**, or * (any).

Port

Enter the port range of the protocol.

IP Range

Enter the starting and ending IP addresses which are not allowed to access the Internet.

IP Filter List

Displays the list of filter profiles. By default, a number of profiles have been created and are all disabled. A checkmark before the filter name indicates that the profile is enabled.

To edit a profile, click the corresponding icon.

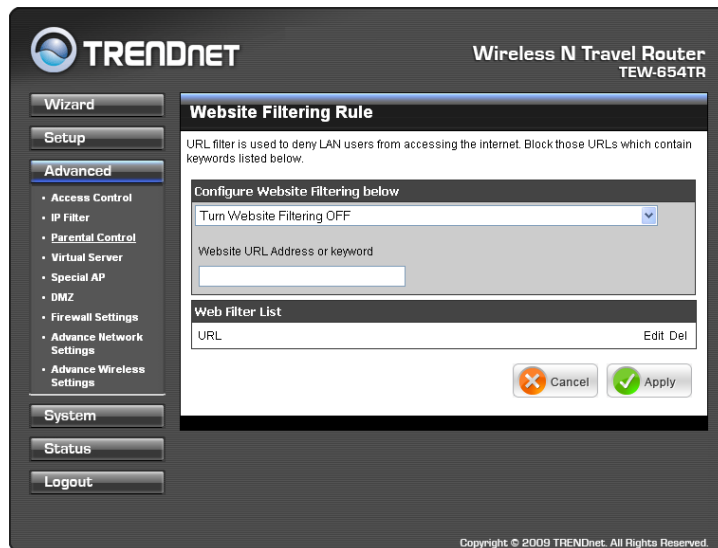
To delete a profile, click the correspond icon.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

4. ROUTER MODE

Parental Control

The Parental Control menu allows you to restrict or only allow computers from accessing specific websites.




To configure website filtering, do the following:

- 1 Select the type of filter from the list:
 - **Turn Website Filtering OFF:** All website can be accessed by the computers on the network.
 - **Turn Website Filtering ON and ALLOW computers access to ONLY these sites:** Computers can only access the website or website with the keywords specified on the **Website URL Address or keyword** box.
 - **Turn Website Filtering ON and DENY computers access to ONLY these sites:** Computer cannot access the website or website with the keywords specified on the **Website URL Address or keyword** box.
- 2 Enter the URL Address or keywords to set filter on the **Website URL Address or keyword** box.

Website Filter List

Displays the list of filter profiles.

To edit a filter profile, click the corresponding  icon.

To delete a filter profile, click the correspond  icon.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

Virtual Server

The Virtual Server menu allows you to configure the travel router as a virtual server. Remote users accessing the Web or FTP services through the WAN can be automatically redirected to local servers in the LAN.

Enable

Check the box to enable virtual server. Uncheck to disable.

Name

Create a virtual server name.

Protocol

Select the type of protocol to use: **TCP**, **UDP**, or **Both**.

Private Port

Enter the port number of the being used as a virtual server.

Public Port


Enter the port number of the of the WAN that will be used to provide access to the virtual server.


LAN Server

Enter the LAN IP address that will be assigned to the virtual server.

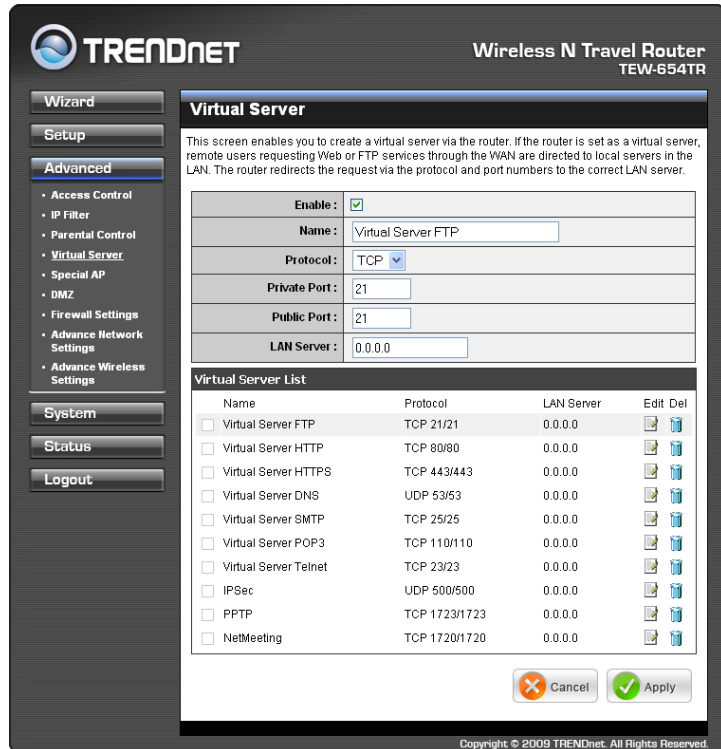
Virtual Server List

Displays the list of virtual server profiles. By default, a number of profiles have been created and are all disabled. A checkmark before the virtual server name indicates that the profile is enabled.

To edit a profile, click the corresponding  icon.

To delete a profile, click the correspond  icon.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.



TRENDNET Wireless N Travel Router TEW-654TR

Wizard
Setup
Advanced

- Access Control
- IP Filter
- Parental Control
- Virtual Server**
- Special AP
- DMZ
- Firewall Settings
- Advance Network Settings
- Advance Wireless Settings

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Virtual Server

This screen enables you to create a virtual server via the router. If the 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 router redirects the request via the protocol and port numbers to the correct LAN server.

Enable:

Name:

Protocol:

Private Port:

Public Port:

LAN Server:

Virtual Server List

Name	Protocol	LAN Server	Edit	Del
<input checked="" type="checkbox"/> Virtual Server FTP	TCP 21/21	0.0.0.0		
<input type="checkbox"/> Virtual Server HTTP	TCP 80/80	0.0.0.0		
<input type="checkbox"/> Virtual Server HTTPS	TCP 443/443	0.0.0.0		
<input type="checkbox"/> Virtual Server DNS	UDP 53/53	0.0.0.0		
<input type="checkbox"/> Virtual Server SMTP	TCP 25/25	0.0.0.0		
<input type="checkbox"/> Virtual Server POP3	TCP 110/110	0.0.0.0		
<input type="checkbox"/> Virtual Server Telnet	TCP 23/23	0.0.0.0		
<input type="checkbox"/> IPSec	UDP 500/500	0.0.0.0		
<input type="checkbox"/> PPTP	TCP 1723/1723	0.0.0.0		
<input type="checkbox"/> NetMeeting	TCP 1720/1720	0.0.0.0		

Cancel Apply

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4. ROUTER MODE

Special AP

Some applications such as Internet games, video conferences, and others, require multiple connections that are usually blocked by NAT (Network Address Translation). The Special AP menu allows you to configure special applications that will connect via the travel router's WAN connection.

Enable

Check the box to enable special AP function. Uncheck to disable.

Name

Create a special AP name.

Trigger

Defines whether the user has access to the application.

- **Protocol:** Select the protocol to access the application: **TCP**, **UDP**, or ***** (any).
- **Port Range:** Enter the port range that can access the application.


Incoming


Defines the incoming communication that users are permitted to connect with.

- **Protocol:** Select the protocol for incoming communication: **TCP**, **UDP**, or ***** (any).
- **Port Range:** Enter the port range for incoming communication.

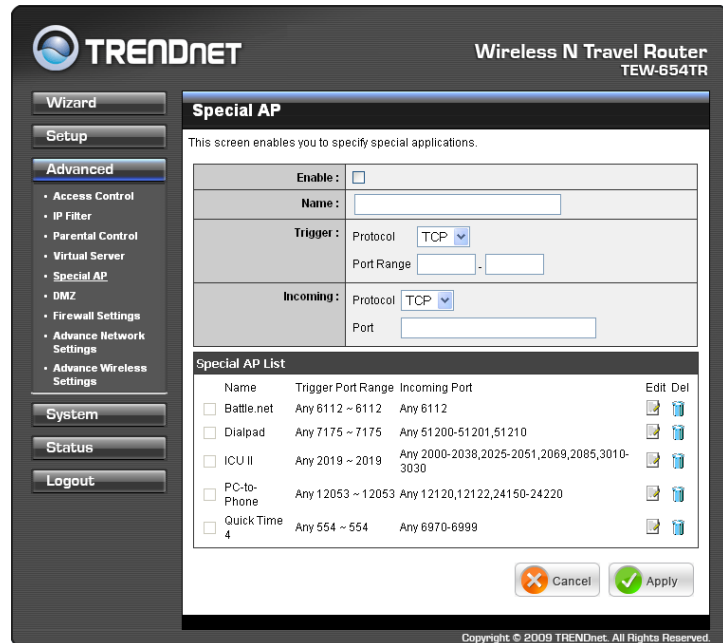
Special AP List

Displays the list of special AP profiles. By default, a number of profiles have been created and are all disabled. A checkmark before the special AP name indicates that the profile is enabled.

To edit a profile, click the corresponding  icon.

To delete a profile, click the correspond  icon.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.



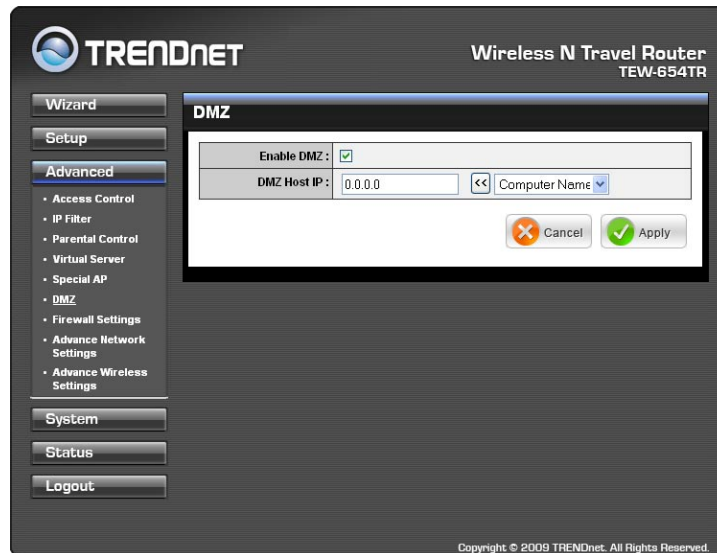
The screenshot shows the 'Special AP' configuration page for a TrendNet Wireless N Travel Router (TEW-654TR). The page is divided into several sections:

- Enable:** A checkbox that is currently unchecked.
- Name:** A text input field.
- Trigger:** A section with a 'Protocol' dropdown menu set to 'TCP' and a 'Port Range' input field.
- Incoming:** A section with a 'Protocol' dropdown menu set to 'TCP' and a 'Port' input field.
- Special AP List:** A table listing several profiles. The 'Battle.net' profile is checked and has a green checkmark in the 'Enable' column. Other profiles include Dialpad, ICU II, PC-to-Phone, and QuickTime 4.
- Buttons:** 'Cancel' and 'Apply' buttons are located at the bottom right of the configuration area.

Name	Trigger Port Range	Incoming Port	Enable	Edit	Del
<input checked="" type="checkbox"/> Battle.net	Any 6112 ~ 6112	Any 6112	<input checked="" type="checkbox"/>		
<input type="checkbox"/> Dialpad	Any 7175 ~ 7175	Any 51200-51201,51210	<input type="checkbox"/>		
<input type="checkbox"/> ICU II	Any 2019 ~ 2019	Any 2000-2038,2025-2051,2069,2085,3010-3030	<input type="checkbox"/>		
<input type="checkbox"/> PC-to-Phone	Any 12053 ~ 12053	Any 12120,12122,24150-24220	<input type="checkbox"/>		
<input type="checkbox"/> QuickTime 4	Any 554 ~ 554	Any 6970-6999	<input type="checkbox"/>		

DMZ

The DMZ (Demilitarized Zone) menu allows you to create a DMZ for computers that cannot access Internet applications properly and have security settings. All access will be redirected to the DMZ host.



Enable

Check the box to enable DMZ function. Uncheck to disable.

DMZ Host IP

The host IP address to act as a DMZ host with unlimited Internet access. You can either type an IP address or generate it from a list of computers.

To generate the IP address:

- 1 Select the computer name from the list.
- 2 Click the << button. The computer's IP address is shown on the **DMZ Host IP** box.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

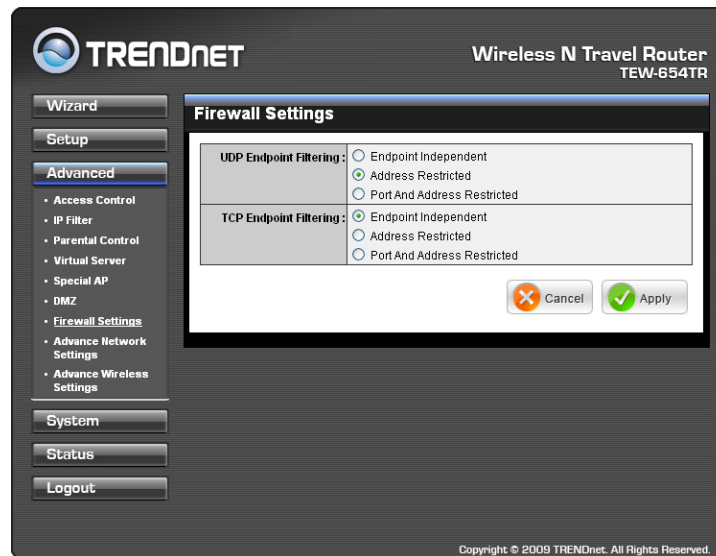
Note:

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

4. ROUTER MODE

Firewall Settings

A firewall protects your network from outsiders or unauthorized users or other networks.



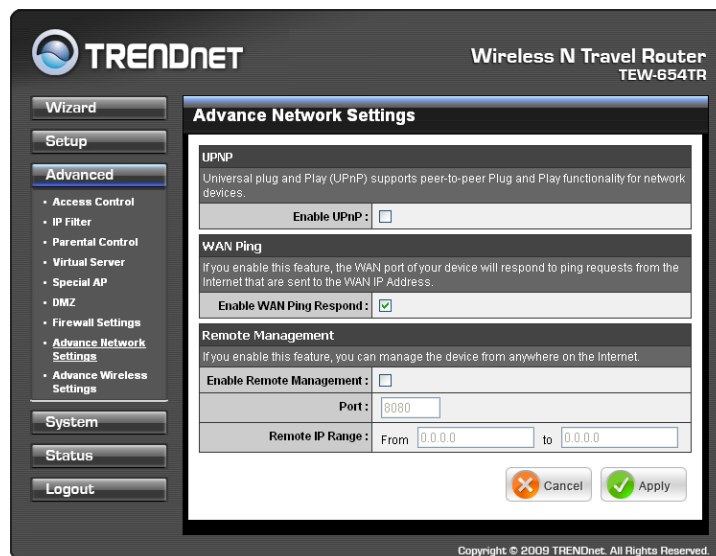
UDP / TCP Endpoint Filtering

Select any of the following options:

- **Endpoint Independent:** Once a LAN application has created a connection through a specific port, all incoming traffic will be forwarded to the same port. There is a risk in security.
- **Address Restricted:** Incoming traffic will be forwarded to the same IP address of the outgoing connection. This provides better security than endpoint independent.
- **Port and Address Restricted:** Incoming traffic is sourced from the IP address you originally connected to, and that it is replying from the same port that you connected to. This provides the best security.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

Advanced Network Settings



UPnP

Check the **Enable UPnP** box to use UPnP (Universal Plug and Play) feature. UPnP supports peer-to-peer functionality for network devices.

WAN Ping

Check the **Enable WAN Ping Respond** box to allow the travel router to respond to ping requests from the Internet.

Remote Management

This feature allows you to configure the travel router from the Internet by a web browser.

Enable Remote Management

Check the box to enable remote management. Uncheck to disable.

Port

The port number used for web configuration.

Remote IP Range

Enter the starting and ending IP addresses to allow remote management.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

4. ROUTER MODE

Advanced Wireless Network Settings

Advance Wireless Settings	
Beacon Period:	100 (msec, range: 20~1024, default:100)
RTS Threshold:	2346 (range: 1~2347, default:2346)
Fragmentation Threshold:	2346 (range: 256~2346, default:2346, even number only)
DTIM Interval:	1 (range: 1~255, default:1)
Preamble Type:	<input checked="" type="radio"/> Long Preamble <input type="radio"/> Short Preamble
Enable IGMP Snooping:	<input type="checkbox"/>

Beacon Period

Enter the interval period of time for the access point to send out beacons to synchronize the wireless network. The default value is 100 milliseconds.

RTS Threshold

The default and the recommended value is 2346. Should you encounter inconsistent data flow, only minor adjustments should be made.

Fragmentation Threshold

Fragmentation threshold refers to the amount of packets that will be fragmented before transmission. The default and recommended value is 2346 bytes.

DTIM Interval

This value indicates the interval of Delivery Traffic Indication Message (DTIM). A DTIM is a countdown field informing clients of the next window for listening to broadcast and multicast messages. The default value is 1.

Preamble Type

Preamble is use to limit the packets of data for transmission. When the connection is bad, it is recommended to use the **Short Preamble**.

Enable IGMP Snooping

Check the box to enable Internet Group Management Protocol (IGMP) snooping. This function restrains multicast traffic in a switched network.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

4.2.4 System

Admin

The Admin submenu allows you to change the administrator (Admin) user name and password, as well as setup another User account.

Administrator

The administrator has overall rights to view and edit the web configurations. The default user name and password are “admin”.

User

The user can only view the web configurations but cannot edit them.

New User Name

Enter the new user name.

New / Confirm Password

Enter the password.

Click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

Settings

The Settings submenu provides backup and restore setting functions.

Save Settings to Local Hard Drive

Use this function to save the current configuration settings to your local hard drive. Click **Save**, then select the folder where you want to save the file.

Load Settings From Local Hard Drive

Use this function to retrieve saved configuration settings from the local hard drive.

- 1 Click **Browse** to locate the file.
- 2 Click **Upload Settings** to transfer and apply the settings to the travel router.

Restore to Factory Default Settings

Click **Restore Device** to restore all configurations to the factory default settings. All changes in configuration will be deleted.

Restart Device

Click **Restart** to reboot the travel router.

4. ROUTER MODE

Firmware

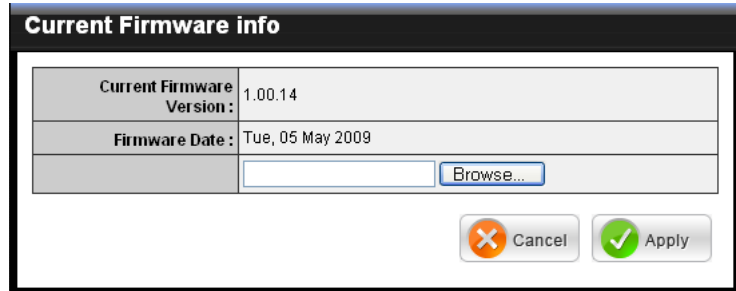
The Firmware submenu allows you to upgrade the firmware to the latest version.

Current Firmware Version

Displays the current firmware version.

Firmware Date

Displays the date when the firmware was last updated.



Current Firmware info	
Current Firmware Version:	1.00.14
Firmware Date:	Tue, 05 May 2009
	<input type="text"/> Browse...
<input type="button" value="Cancel"/> <input type="button" value="Apply"/>	

- 1 Download the latest firmware from the manufacturer's website, and save it to a disk.
- 2 Click Browse to locate the file.
- 3 Click **Apply** to start firmware update. The system will reboot to complete update.

Time

The Time submenu allows you to manually adjust the system time settings or synchronize it with a server.

Current Time

Displays the current date and time settings.

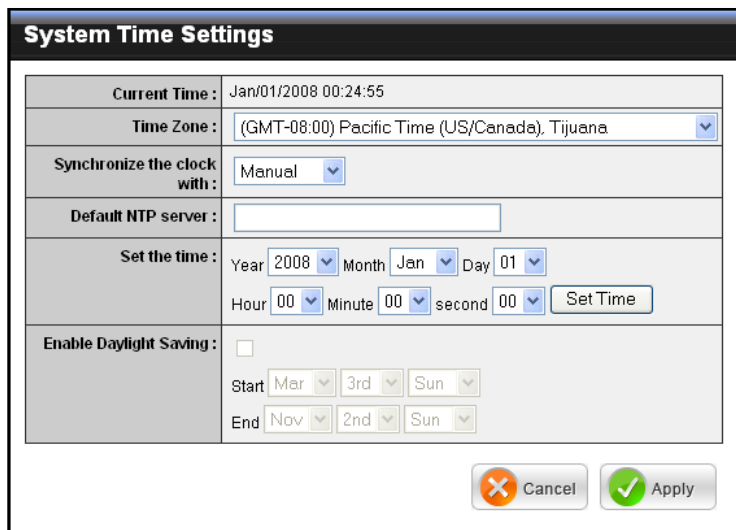
Time Zone

Select the time zone in your area.

Synchronize the clock with

Select:

- **Manual:** To manually adjust the date and time.
- **Automatic:** To synchronize date and time with the server.



System Time Settings	
Current Time:	Jan/01/2008 00:24:55
Time Zone:	(GMT-08:00) Pacific Time (US/Canada), Tijuana
Synchronize the clock with:	Manual
Default NTP server:	<input type="text"/>
Set the time:	Year 2008 Month Jan Day 01 Hour 00 Minute 00 second 00 <input type="button" value="Set Time"/>
Enable Daylight Saving:	<input type="checkbox"/> Start Mar 3rd Sun End Nov 2nd Sun
<input type="button" value="Cancel"/> <input type="button" value="Apply"/>	

Default NTP Server

Enter the NTP server address to synchronize the date and time with.

Set the Time

Use this option to manually set the date and time. This option is only available when **Synchronize the clock with** is set to **Automatic**.

Enable Daylight Saving

Check the box to enable daylight saving time. Use the Start and End field boxes to specify the starting and ending dates.

Click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

Ping Test

Enter the host name or the IP address on the box, then click **Ping** to check the status of the connection and determine whether the specified host name or IP address is present on the Internet.

The screenshot shows a web interface titled 'Ping Test'. It contains a single text input field with the placeholder text 'Host Name or IP address:' and a button labeled 'Ping' to its right.

4.2.5 Status

The Status menu displays device, logs, traffic, and connection information.

Device Info

This page displays the Firmware Version, WAN, Wireless LAN and LAN information.

The screenshot displays the 'Device Info' page of a TrendNet Wireless N Travel Router (TEW-654TR). The interface includes a sidebar with navigation options: Wizard, Setup, Advanced, System, Status (selected), Device Info, Logs, Statistics, Wireless, and Logout. The main content area is titled 'Device Info' and contains the following information:

Firmware	
Firmware:	1.00.14
router up time:	0 Day, 00:03:23

WAN	
MAC Address:	00:40:14:03:24:bb
Connection:	DHCP client Connected
<input type="button" value="DHCP Renew"/> <input type="button" value="DHCP Release"/>	
IP Address:	10.0.200.8
Subnet Mask:	255.255.0.0
Default Gateway:	10.0.0.254
DNS:	10.0.200.1 10.0.0.250 10.0.0.251

Wireless LAN	
Connection:	Enable
Network Name (SSID):	TRENDnet654
Channel:	6
Security Type:	WEP_OPEN_64

LAN	
MAC Address:	00:40:14:03:24:ba
IP Address:	192.168.10.1
Subnet Mask:	255.255.255.0
DHCP Server:	Enable DHCP Table

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DHCP Renew

Click to reassign IP addresses to client stations connected to the WAN via the travel router.

DHCP Release

Click to release all IP addresses assigned to client stations connected to the WAN via the travel router.

DHCP Table

Click to view DHCP list. ****

4. ROUTER MODE

Logs

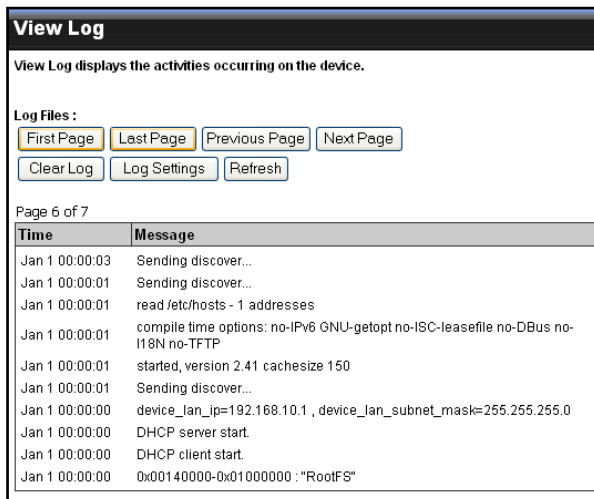
This page displays the recorded events that occur within the wireless network.

Click the following buttons to view the **First Page**, **Last Page**, **Previous Page**, and **Next Page**.

To delete log data, click **Clear Log**.

To change log settings, click **Log Settings**.

To refresh list, click **Refresh**.



View Log

View Log displays the activities occurring on the device.

Log Files :

[First Page](#) [Last Page](#) [Previous Page](#) [Next Page](#)

[Clear Log](#) [Log Settings](#) [Refresh](#)

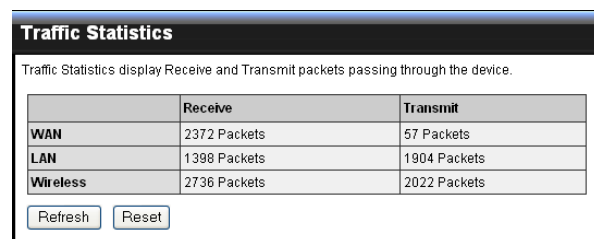
Page 6 of 7

Time	Message
Jan 1 00:00:03	Sending discover...
Jan 1 00:00:01	Sending discover...
Jan 1 00:00:01	read /etc/hosts - 1 addresses
Jan 1 00:00:01	compile time options: no-IPv6 GNU-getopt no-ISC-leasefile no-DBus no-l18N no-TFTP
Jan 1 00:00:01	started, version 2.41 cachesize 150
Jan 1 00:00:01	Sending discover...
Jan 1 00:00:00	device_lan_ip=192.168.10.1 , device_lan_subnet_mask=255.255.255.0
Jan 1 00:00:00	DHCP server start.
Jan 1 00:00:00	DHCP client start.
Jan 1 00:00:00	0x00140000-0x01000000 : "RootFS"

Statistics

This page displays the traffic statistics of received and transmitted packets that passed through the travel router.

Click **Refresh** to refresh table.



Traffic Statistics

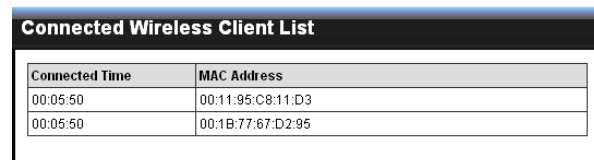
Traffic Statistics display Receive and Transmit packets passing through the device.

	Receive	Transmit
WAN	2372 Packets	57 Packets
LAN	1398 Packets	1904 Packets
Wireless	2736 Packets	2022 Packets

[Refresh](#) [Reset](#)

Wireless

This page displays the information of connected wireless clients such as the time of connection and their MAC addresses.



Connected Wireless Client List

Connected Time	MAC Address
00:05:50	00:11:95:C8:11:D3
00:05:50	00:1B:77:67:D2:95

Appendix A: Regulatory & Safety Information

Wireless LAN, Health and Authorization

Radio frequency electromagnetic energy is emitted from Wireless LAN devices. The energy levels of these emissions however are far much less than the electromagnetic energy emissions from wireless devices like for example mobile phones. Wireless LAN devices are safe for use frequency safety standards and recommendations. The use of Wireless LAN devices may be restricted in some situations or environments for example:

- Onboard airplanes, or
- In an explosive environment, or
- In case the interference risk to other devices or services is perceived or identified as harmful

In case the policy regarding the use of Wireless LAN devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please ask for authorization to use these devices prior to operating the equipment.

Disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The Manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, of the substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

APPENDIX

FCC (Federal Communications Commission) Statement

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

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause interference, and
- 2 This device must accept any interference, including interference that may cause undesired operation of this device.

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.

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.



Europe - EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

EN60950-1: 2006

Safety of Information Technology Equipment

EN 50385: 2002

Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110MHz - 40 GHz) - General public

EN 300 328 V1.7.1 (2006-10)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1 V1.8.1 (2008-04)

Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17 V1.3.2 (2008-04)

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.



APPENDIX

cs Česky [Czech]	TRENDnet tímto prohlašuje, že tento TEW-654TR je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
da Dansk [Danish]	Undertegnede TRENDnet erklærer herved, at følgende udstyr TEW-654TR overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
de Deutsch [German]	Hiermit erkläre TRENDnet, dass sich das Gerät TEW-654TR in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
et Eesti [Estonian]	Käesolevaga kinnitab TRENDnet seadme TEW-654TR vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
en English	Hereby, TRENDnet, declares that this TEW-654TR is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
es Español [Spanish]	Por medio de la presente TRENDnet declara que el TEW-654TR cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
el Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ ΤΡΕΝΔnet ΔΗΛΩΝΕΙ ΟΤΙ ΤΕW-654TR ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
fr Français [French]	Par la présente TRENDnet déclare que l'appareil TEW-654TR est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
it Italiano [Italian]	Con la presente TRENDnet dichiara che questo TEW-654TR è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo TRENDnet deklarē, ka TEW-654TR atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo TRENDnet deklaruoja, kad šis TEW-654TR atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
nl Nederlands [Dutch]	Hierbij verklaart TRENDnet dat het toestel TEW-654TR in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
mt Malti [Maltese]	Hawnhekk, TRENDnet, jiddikjara li dan TEW-654TR jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
hu Magyar [Hungarian]	Alulírott, TRENDnet nyilatkozom, hogy a TEW-654TR megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
pl Polski [Polish]	Niniejszym TRENDnet oświadcza, że TEW-654TR jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
pt Português [Portuguese]	TRENDnet declara que este TEW-654TR está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
sl Slovensko [Slovenian]	TRENDnet izjavlja, da je ta TEW-654TR v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	TRENDnet týmto vyhlasuje, že TEW-654TR spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
fi Suomi [Finnish]	TRENDnet vakuuttaa täten että TEW-654TR tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
sv Svenska [Swedish]	Härmed intygar TRENDnet att denna TEW-654TR står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

NCC 警語：

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

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Appendix B:

Specifications

Hardware	
Interface	1x 10/100Mbps Auto-MDIX port
Standards	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (draft 2.0) IEEE 802.3/IEEE 802.3u Fast Ethernet IEEE 802.3x Flow Control
Supported Protocol	TCP/IP, NAT, PPPoE/PPTP/L2TP, HTTP, DHCP Server/Client
LED Indicator	Power LAN: Link, ACT WLAN: ACT
Power Consumption	2.5 watts (max)
Power Adapter	5V, 1.2A or power via the included USB cable from PC
Dimensions (LxWxH)	60 x 80 x 18.5mm (2.4 x 3.2 x 0.7in)
Weight	50g (1.6oz)
Temperature	Operating: 0° ~ 40° C (32° ~ 104° F) Storage: -10° ~ 70° C (14° ~ 158° F)
Humidity	10% ~ 90% max (non-condensing)
Certification	FCC, CE
Wireless	
Module Technique	DBPSK/DQPSK/CCK/OFDM (BPSK/QPSK/16-QAM/64-QAM)
Antenna	2 on-board antennas
Frequency	2.412 ~ 2.484 GHz
Data Rate (auto fallback)	802.11b: 11Mbps, 5.5Mbps, 2Mbps, and 1Mbps 802.11g: 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, and 6Mbps 802.11n: up to 300Mbps
Output Power	802.11b: 14dBm (typical) 802.11g: 14dBm (typical) 802.11n: 12dBm (typical)
Receiving Sensitivity	802.11b: -85dBm (typical) at 11Mbps 802.11g: -68dBm (typical) at 54Mbps 802.11n: -59dBm at 135Mbps
Security	64/128-bit WEP (Hex & ASCII), WPA/WPA2-RADIUS (802.1x), WPA-PSK/WPA2-PSK MAC address, IP and URL filtering
Channels	1 ~ 11 (FCC), 1~13 (ETSI)

Appendix C: Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

TEW-654TR – 3 Years Warranty

AC/DC Power Adapter, Cooling Fan, and Power Supply carry 1 year warranty.

If a product does not operate as warranted during the applicable warranty period, TRENDnet shall reserve the right, at its expense, to repair or replace the defective product or part and deliver an equivalent product or part to the customer. The repair/replacement unit's warranty continues from the original date of purchase. All products that are replaced become the property of TRENDnet. Replacement products may be new or reconditioned. TRENDnet does not issue refunds or credit. Please contact the point-of-purchase for their return policies.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet within the applicable warranty period and providing a copy of the dated proof of the purchase. Upon proper submission of required documentation a Return Material Authorization (RMA) number will be issued. An RMA number is required in order to initiate warranty service support for all TRENDnet products. Products that are sent to TRENDnet for RMA service must have the RMA number marked on the outside of return packages and sent to TRENDnet prepaid, insured and packaged appropriately for safe shipment. Customers shipping from outside of the USA and Canada are responsible for return shipping fees. Customers shipping from outside of the USA are responsible for custom charges, including but not limited to, duty, tax, and other fees.

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Product Warranty Registration

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