



# TRENDNET®



## User's Guide

**TEW-436BRM**  
1.01

## Regulatory notes and statements

### Wireless LAN, Health and Authorization for use

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.

### Regulatory Information/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 explicitly 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.

### FCC statement

#### *Federal Communication Commission Interference Statement*

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

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

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

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

### 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.

## PART 68 statement

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This equipment complies with Part 68 of FCC Rules and the requirements adopted by the ACTA.. On the bass unit of this equipment is a label that contains, among other information, a product identifier in the format **US: T1IDL01BTEW436BRM**. If requested, this number must be provided to the telephone company. The REN for this product is part of the product identifier that has the format **US: T1IDL01BTEW436BRM**. The digits represented by 01 are the REN without a decimal point.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

If your equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. If advance notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC. Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this telephone equipment, please contact the following address and phone number for information on obtaining service or repairs:

The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

## CE statement

### *Europe – EU Declaration of Conformity*

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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 , 5 GHz high performance RLAN equipment and 5,8GHz Broadband Data Transmitting Systems.

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.

 Český [Czech]	<i>TRENDnet</i> tímto prohlašuje, že tento <i>TEW-436BRM</i> je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
 Dansk [Danish]	Undertegnede <i>TRENDnet</i> erklærer herved, at følgende udstyr <i>TEW-436BRM</i> overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
 Deutsch [German]	Hiermit erklärt <i>TRENDnet</i> , dass sich das Gerät <i>TEW-436BRM</i> in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
 Eesti [Estonian]	Käesolevaga kinnitab <i>TRENDnet</i> seadme <i>TEW-436BRM</i> vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
 English	Hereby, <i>TRENDnet</i> , declares that this <i>TEW-436BRM</i> is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
 Español [Spanish]	Por medio de la presente <i>TRENDnet</i> declara que el <i>TEW-436BRM</i> cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
 Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ <i>TRENDnet</i> ΔΗΛΩΝΕΙ ΟΤΙ <i>TEW-436BRM</i> ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΠΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EK.
 Français [French]	Par la présente <i>TRENDnet</i> déclare que l'appareil <i>TEW-436BRM</i> est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
 Italiano [Italian]	Con la presente <i>TRENDnet</i> dichiara che questo <i>TEW-436BRM</i> è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo <i>TRENDnet</i> deklarē, ka <i>TEW-436BRM</i> atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo <i>TRENDnet</i> deklaruoją, kad šis <i>TEW-436BRM</i> atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
 Nederlands [Dutch]	Hierbij verklaart <i>TRENDnet</i> dat het toestel <i>TEW-436BRM</i> in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
 Malti [Maltese]	Hawnhekk, <i>TRENDnet</i> , jiddikjara li dan <i>TEW-436BRM</i> jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 1999/5/EC.
 Magyar [Hungarian]	Alulírott, <i>TRENDnet</i> nyilatkozom, hogy a <i>TEW-436BRM</i> megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
 Polski [Polish]	Niniejszym <i>TRENDnet</i> oświadcza, że <i>TEW-436BRM</i> jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
 Português [Portuguese]	<i>TRENDnet</i> declara que este <i>TEW-436BRM</i> está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
 Slovensko [Slovenian]	<i>TRENDnet</i> izjavlja, da je ta <i>TEW-436BRM</i> v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	<i>TRENDnet</i> týmto vyhlasuje, že <i>TEW-436BRM</i> spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
 Suomi [Finnish]	<i>TRENDnet</i> vakuuttaa täten että <i>TEW-436BRM</i> tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
 Svenska [Swedish]	Härmed intygar <i>TRENDnet</i> att denna <i>TEW-436BRM</i> står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.



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## ***ABOUT THIS GUIDE***

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Congratulations on your purchase of this 54Mbps Wireless G 2/2+ ADSL Modem Router. This integrated access device combines ADSL modem, Internet gateway functions with wireless LAN and Fast Ethernet switch. It provides a complete solution for Internet surfing and office resource sharing, and it is easy to configure and operate for every user.

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### **Purpose**

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This manual discusses how to install the IEEE 54Mbps Wireless G 2/2+ ADSL Modem Router.

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### **Terms/Usage**

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In this guide, the term “the WLAN ADSL Router” refers to your 54Mbps Wireless G 2/2+ ADSL Modem Router.

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### **Overview of this User’s Guide**

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**Introduction.** Describes the 54Mbps Wireless G 2/2+ ADSL Modem Router and its features.

**Unpacking and Setup.** Helps you get started with the basic installation of the 54Mbps Wireless G 2/2+ ADSL Modem Router.

**Identifying External Components.** Describes the front panel, rear panel and LED indicators of the 54Mbps Wireless G 2/2+ ADSL Modem Router.

**Connecting the WLAN ADSL Router.** Tells how you can connect the 54Mbps Wireless G 2/2+ ADSL Modem Router.

**Technical Specifications.** Lists the technical (general, physical and environmental, performance and Routers settings) specifications of the 54Mbps Wireless G 2/2+ ADSL Modem Router.



## ***INTRODUCTION***

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The 54Mbps Wireless G ADSL 2/2+ Modem Router (model TEW-436BRM) is an all-in-one modem and wireless g router.

No need to buy a separate modem and router. This sleek device provides an ADSL 2/2+ modem, wireless g router and 4-port switch, all in a single product.

Quickly install this device to surf the Internet, download files, play games and talk Online. Advanced wireless encryption, a double firewall and a wireless on/off switch protect your valuable data. Wi-Fi Protected Setup (WPS) allows users to securely synchronize WPS supported wireless peripheral devices at the touch of a button.

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### **Applications:**

#### **Broadband Internet access:**

Several computers can share one high-speed broadband connection through wireless or wired (WLAN, LAN and WAN-Internet).

#### **Resource sharing:**

Share resources such as printers, scanners and other peripherals.

#### **File sharing:**

Exchange data, messages, and distribute files thus making good use of hard disk space.

#### **Online gaming:**

Through the local area network, online gaming and e-commerce services can be easily setup.

#### **Firewall:**

A built-in firewall function — for security and anti-hacking systems.

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### **Supported Features:**

- ◆ Compliant with ADSL G.dmt (G.992.1), G.lite (G.992.2) standards and
- ◆ Compliant with ADSL2 G.dmt.bis (G.992.3) & ADSL2+ G.992.5 standards
- ◆ Up to 24Mbps downstream, 1.2Mbps upstream with ADSL2+ service
- ◆ IEEE 802.11b/g Infrastructure operating modes
- ◆ Supports TR069 remote management, Web based configuration and Command Line Interface (CLI) via Telnet
- ◆ Supports NAT, DHCP
- ◆ Supports VLAN and QoS
- ◆ Supports up to 8 PVCs
- ◆ Supports 64/128-bit WEP, WPA/WPA2 and WPA-PSK/WPA2-PSK
- ◆ Supports Wi-Fi Protected Setup (WPS) for easy connection



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## Wireless Performance Considerations

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There are a number of factors that can impact the range of wireless devices.

1. Adjust your wireless devices so that the signal is traveling in a straight path, rather than at an angle. The more material the signal has to pass through the more signal you will lose.
2. Keep the number of obstructions to a minimum. Each obstruction can reduce the range of a wireless device. Position the wireless devices in a manner that will minimize the amount of obstructions between them.
3. Building materials can have a large impact on your wireless signal. In an indoor environment, try to position the wireless devices so that the signal passes through less dense material such as dry wall. Dense materials like metal, solid wood, glass or even furniture may block or degrade the signal.
4. Antenna orientation can also have a large impact on your wireless signal. Use the wireless adapter's site survey tool to determine the best antenna orientation for your wireless devices.
5. Interference from devices that produce RF (radio frequency) noise can also impact your signal. Position your wireless devices away from anything that generates RF noise, such as microwaves, radios and baby monitors.
6. Any device operating on the 2.4GHz frequency will cause interference. Devices such as 2.4GHz cordless phones or other wireless remotes operating on the 2.4GHz frequency can potentially drop the wireless signal. Although the phone may not be in use, the base can still transmit wireless signal. Move the phone's base station as far away as possible from your wireless devices.

If you are still experiencing low or no signal consider repositioning the wireless devices or installing additional access points. The use of higher gain antennas may also provide the necessary coverage depending on the environment.

## ***UNPACKING AND SETUP***

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This chapter provides unpacking and setup information for the 54Mbps Wireless G 2/2+ ADSL Modem Router.

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### **Unpacking**

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Open the box of the WLAN ADSL Router and carefully unpack it. The box should contain the following items:

- ◆ TEW-436BRM 54Mbps Wireless G 2/2+ ADSL Modem Router
- ◆ CD-Rom (User's Guide)
- ◆ External power adapter
- ◆ 1 1.5m (5ft) Cat.5 Ethernet Cable
- ◆ 1 RJ-11 (ADSL) cable

If any item is found missing or damaged, please contact your local reseller for replacement.

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### **Setup**

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The setup of the WLAN ADSL Router can be performed properly using the following methods:

- ◆ The power outlet should be within 1.82 meters (6 feet) of the Broadband Router.
- ◆ Visually inspect the DC power jack and make sure that it is fully secured to the power adapter.
- ◆ Make sure that there is proper heat dissipation and adequate ventilation around the WLAN ADSL Router. Do not place heavy objects on the WLAN ADSL Router.
- ◆ Fix the direction of the antenna. Try to place the WLAN ADSL Router in a position that can best cover your wireless network. Normally, the higher you place the antenna, the better the performance will be. The antenna's position enhances the receiving sensitivity.

# HARDWARE INSTALLATION

## Front Panel

The figure below shows the front panel of the IEEE 802.11b/g Wireless ADSL Router.



Front Panel

## LED Indicators

LED	Color	State	Description
Power	Green	Solid on	Power on, normal operation.
	Red	Solid on	Power on, self-test failed, indicating device malfunction.
	Off		Power off.
DSL	Green	Blinking	Pending ADSL line synchronization.
		Solid on	ADSL line synchronized.
Internet	Green	Blinking	Internet activity.
		Solid on	Internet connectivity, no activity.
	Red	Solid on	Internet connection setup failed.
	Off		No Internet connection.
LAN 1~4	Green	Blinking	Ethernet activity.
		Solid on	Ethernet connection, no activity.
	Off		No Ethernet connection.
WLAN	Green	Blinking	Wireless activity.
		Solid on	Wireless connection, no activity.

	Off		Wireless disabled.
<b>WPS</b>	Green	Blinking	WPS in progress.
		Solid on	WPS success.
	Red	Solid on	WPS fail.
	Off		WPS disabled.

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## Rear Panel

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The figure below shows the rear panel of the IEEE 802.11b/g Wireless ADSL Router.



Rear Panel

### Antenna

One 2dBi gain antenna for wireless connection.

### LAN (1-4)

Four RJ-45 10/100Mbps Auto-MDIX ports for connecting to either 10Mbps or 100Mbps Ethernet connections.

### DSL (ADSL Port)

Connect to an active telephone line (RJ-11).

### DC IN

Receptor for the supplied power adapter.

### ON/OFF (On/Off Switch)

Press this button to turn the unit on or off.

### WPS Button

Press to enable Wi-Fi Protected Setup.

### RESET

Holding the Reset button for 5 seconds restores the WLAN ADSL Router to its original factory default settings.

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## Hardware connections

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### Connecting the WLAN ADSL Router

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#### 1. Connect ADSL Cable

Connect the supplied RJ-11 ADSL cable from to the DSL port on the Wireless ADSL Router (the RJ11 connector) to the ADSL terminator provided by your phone company.

#### 2. Connect LAN Cables

Use standard LAN cables to connect PCs to the LAN ports on the Wireless ADSL Router.

#### 3. Connect Power

Connect the supplied power adapter to the Wireless ADSL Router. Use only the power adapter provided. Using a different one may cause hardware damage.

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### Check the installation

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The LEDs on the WLAN ADSL Router are clearly visible and the status of the network link can be seen instantly:

1. With the power source on, once the device is connected to the phone line and PCs, the Power, LAN, WLAN and DSL, INETRNET LEDs of the WLAN ADSL Router will light up indicating a normal status.
2. When the ADSL line is connected the DSL LED will light up.
3. When the Internet is connected the INTERNET LED will light up. (Need to configuration)

## PC NETWORK TCP/IP SETTING

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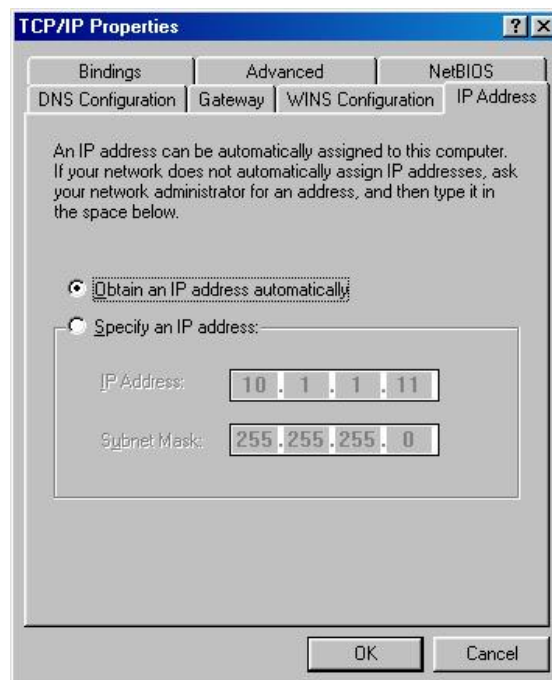
The network TCP/IP settings differ based on the computer's operating system (Win95/98/ME/NT/2000/XP/Vista) and are as follows.

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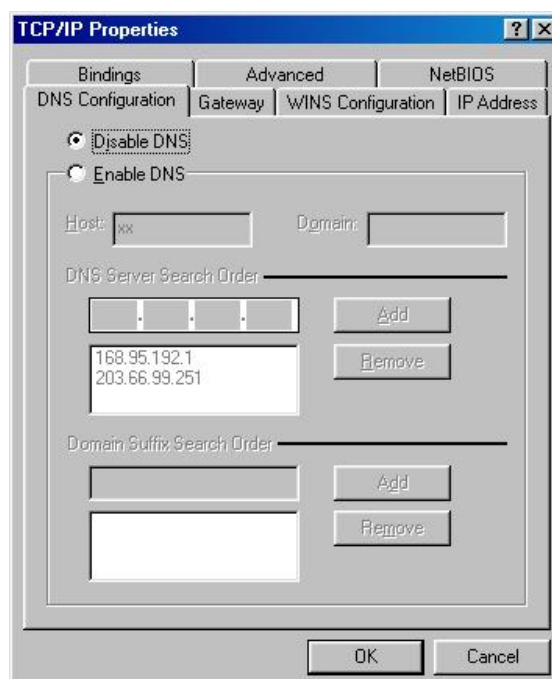
### Windows 95/98/ME

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1. Click on the “**Network neighborhood**” icon found on the desktop.
2. Click the right mouse button and a context menu will be show.
3. Select “**Properties**” to enter the TCP/IP setting screen.
4. Select “**Obtain an IP address automatically**” on the “**IP address**” field.

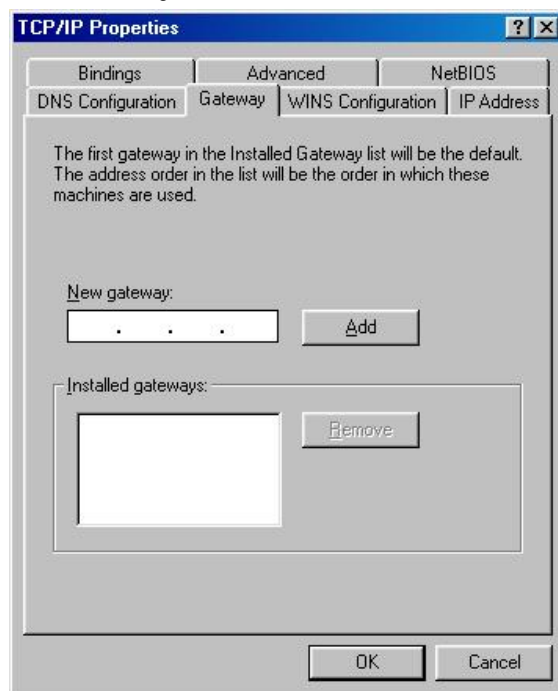


5. Select “**Disable DNS**” in the “**DNS**” field.





6. Select **“None”** for the **“Gateway address”** field.



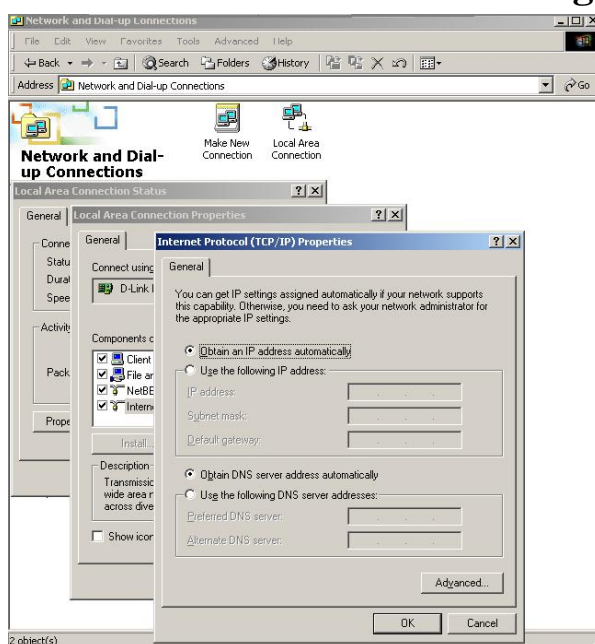
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## Windows 2000

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Double click on the **“My Computer”** icon on the desktop. When **“My Computer”** window opens, open the **“Control Panel”** and then open the **“Network dialup connection”** applet. Double click on the **“Local area network connection”** icon. Select **“Properties”** to enter the TCP/IP setting window.

1. In the **“Local area network status”** window, click on **“Properties.”**
2. In the **“Local area network connection”** window, first select TCP/IP setting and then select **“Properties.”**
3. Set both **“IP address”** and **“DNS”** to **Automatic configuration.**



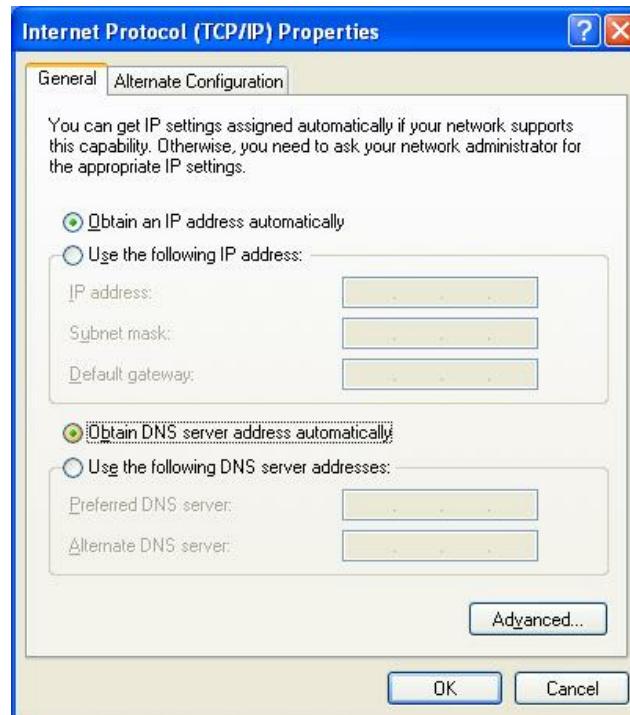
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## Windows XP / Vista

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Point the cursor and click the right button on the “My Network Place” icon. Select “properties” to enter the TCP/IP setting window.

1. Set “**IP address**” to “**Obtain an IP address automatically.**”
2. Set “**DNS**” to “**Obtain DNS server address automatically.**”



## ***CONFIGURATION***

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First make sure that the network connections are functioning normally.

This WLAN Router can be configured using Internet Explorer 5.0 or newer web browser versions.

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### **Login to the WLAN ADSL Router through Wireless LAN**

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Before configuring the WLAN ADSL Router through WLAN, make sure that the SSID, Channel and the WEP is set properly.

The default setting of the WLAN ADSL Router that you will use:

- ✓ SSID: TRENDnet436
- ✓ Channel: Auto
- ✓ 802.11 Mode: 802.11b+g mixed mode
- ✓ Security: disable
- ✓ IP Address: 192.168.10.1
- ✓ VPI/VCI for ATM: 5/35
- ✓ ADSL Line mode: Auto-detect

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### **Login to the WLAN ADSL Router**

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Before you configure this device, note that when the WLAN ADSL Router, make sure the host PC must be set on the **IP subnet** that can be accessed by the xDSL/Cable modem. For example, when the default network address of the xDSL/Cable modem Ethernet interface is 192.168.10.x, then the host PC should be set at 192.168.10.xxx (where xxx is a number between 2 and 254), and the default subnet mask is 255.255.255.0.

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### **Using the Web Browser**

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1. Open Internet Explorer 6.0 or above Internet browser.
2. Enter IP address <http://192.168.10.1> (the factory-default IP address setting) to the URL web address location.




3. When the following dialog box appears, enter the user name and password to login to the main configuration window, the default username and password is “*admin*”.



A Windows-style dialog box titled "Connect to 192.168.10.1". It features a blue header bar with a question mark and a close button. The main area has a light beige background. There is a "User name:" label followed by a text box containing "admin". Below it is a "Password:" label followed by a text box with five black dots. A checkbox labeled "Remember my password" is below the password box. At the bottom are "OK" and "Cancel" buttons.

After entering the user name and password, the main page comes up, the screen will display the WLAN ADSL Router status.



The screenshot shows the main configuration page of a TRENDnet Wireless ADSL Modem Router (TEW-436BRM). The page has a blue header with the TRENDnet logo and the device name. A left sidebar contains a tree view of configuration options: Setup Wizard, Status, Setup, Firewall, Advance, Maintenance, Diagnostic, Monitoring, Mode, and Reboot. The main content area is titled "ADSL Router Status" and includes a sub-header "This page shows the current status and some basic settings of the device." Below this are several sections: System, DSL, LAN Configuration, and WAN Configuration. The System section shows fields for Alias Name, Uptime, Firmware Version, DSP Version, Name Servers, and Default Gateway. The DSL section shows Operational Status, Upstream Speed, and Downstream Speed. The LAN Configuration section shows IP Address, Subnet Mask, DHCP Server, and MAC Address. The WAN Configuration section is a table with columns for Interface, VPI/VCI, Encap, Protocol, IP Address, Gateway, and Status. A "Refresh" button is located below the WAN Configuration table.

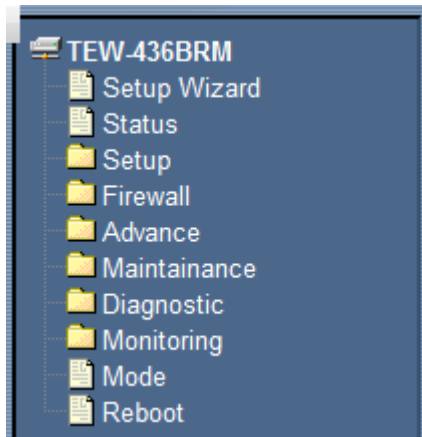
Interface	VPI/VCI	Encap	Protocol	IP Address	Gateway	Status
vc0	5/35	LLC	br1483			down
vc1	0/32	LLC	br1483			down

---

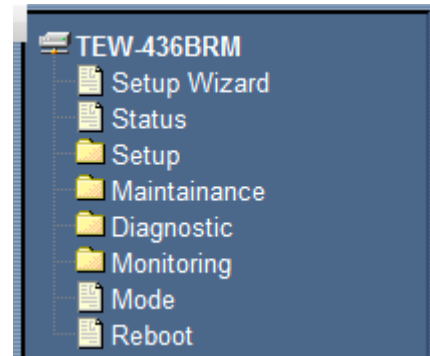
## Configuration Menu

---

When the main page appears, find the Configuration menu in the left side of the screen. Click on the setup item that you want to configure. There are ten options: Setup Wizard, Status, Setup, Firewall (form router mode only), Advance (form router mode only), Maintenance, Diagnostic, Monitoring, Mode and Reboot as shown in the Configuration Menu screen.



**Configure menu on Router mode**



**Configure menu on Modem mode**

## ***SETUP WIZARD***

---

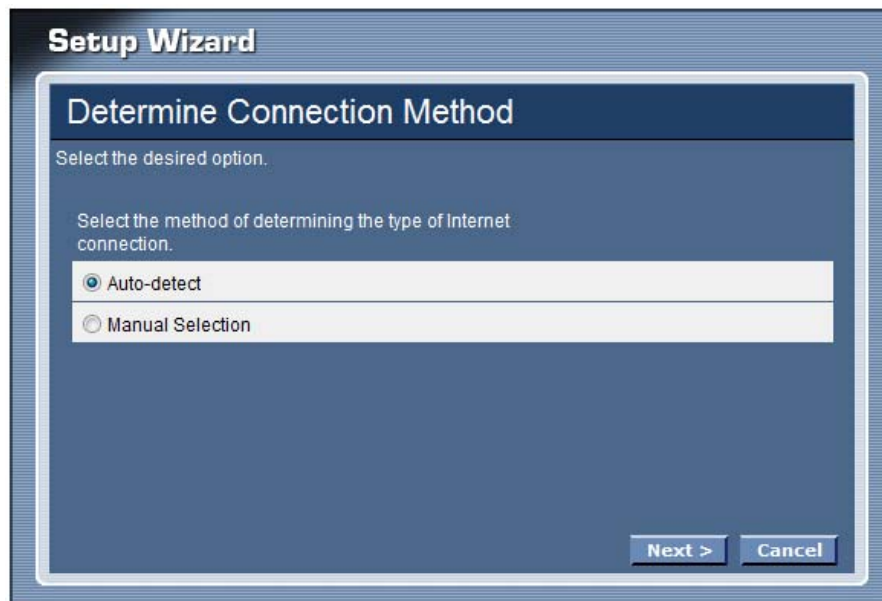
Setup wizard is provided as part of the web configuration utility. User can simply follow the step-by-step process to get the WLAN ADSL Router configuration ready by clicking on the “Wizard” button on the function menu. The following screen will appear.

---

### **Step 1: Determine Connection Method**

---

Choose “Auto-detect” for auto detect the Internet connection method or “Manual Selection” for manually configure the ADSL setting.



#### Auto-detect

Selected the “Auto-detect” then click “Next” button, the wizard will automatically detect the first usable PVC and automatically detect PPPoE, PPPoA, and Bridge Protocol (with DHCP Server available)

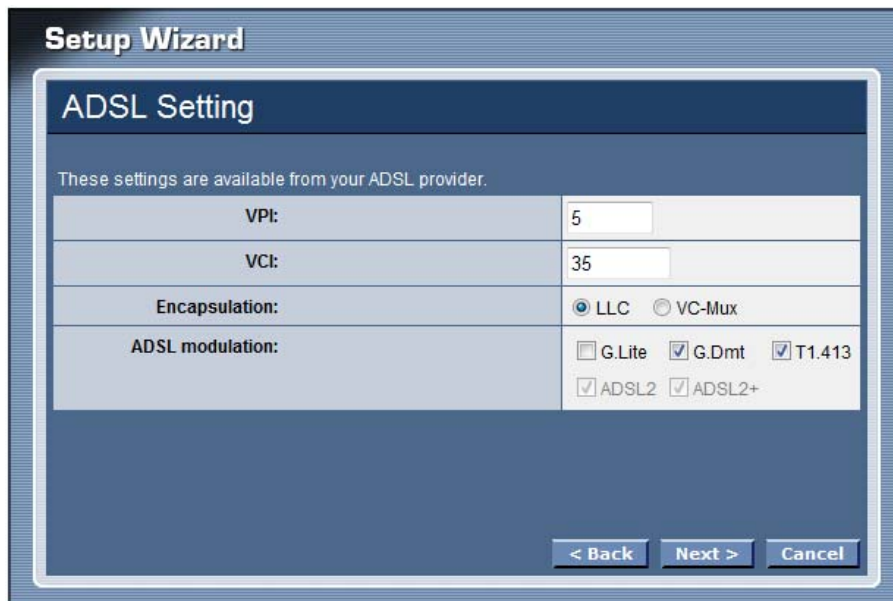
#### Manual Selection

Selected the “Manual Selection” then click “Next” button, the wizard will setting the Internet connection manually.

---

## Step 2: ADSL Setting

---



The screenshot shows a 'Setup Wizard' window with a title bar. Inside, there's a section titled 'ADSL Setting'. Below the title, a message states: 'These settings are available from your ADSL provider.' The settings are organized into a table-like structure with labels on the left and input fields or options on the right. The labels are 'VPI:', 'VCI:', 'Encapsulation:', and 'ADSL modulation:'. The corresponding values are '5', '35', 'LLC' (selected with a radio button), and a group of checkboxes: 'G.Lite' (unchecked), 'G.Dmt' (checked), 'T1.413' (checked), 'ADSL2' (checked), and 'ADSL2+' (checked). At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

VPI:	5
VCI:	35
Encapsulation:	<input checked="" type="radio"/> LLC <input type="radio"/> VC-Mux
ADSL modulation:	<input type="checkbox"/> G.Lite <input checked="" type="checkbox"/> G.Dmt <input checked="" type="checkbox"/> T1.413 <input checked="" type="checkbox"/> ADSL2 <input checked="" type="checkbox"/> ADSL2+

**VPI:** Enter the VPI value provided by ISP

**VCI:** Enter the VCI value provided by ISP

**Encapsulation:** Select the encapsulation type for LLC or VC-Mux

**ADSL modulation:** Select the ADSL modulation type defined by your ISP

---

## Step 3: Select Channel Mode

---

Select the type of network protocol for 1483 Bridged, 1483 MER, PPPoE, PPPoA or 1483 Routed.



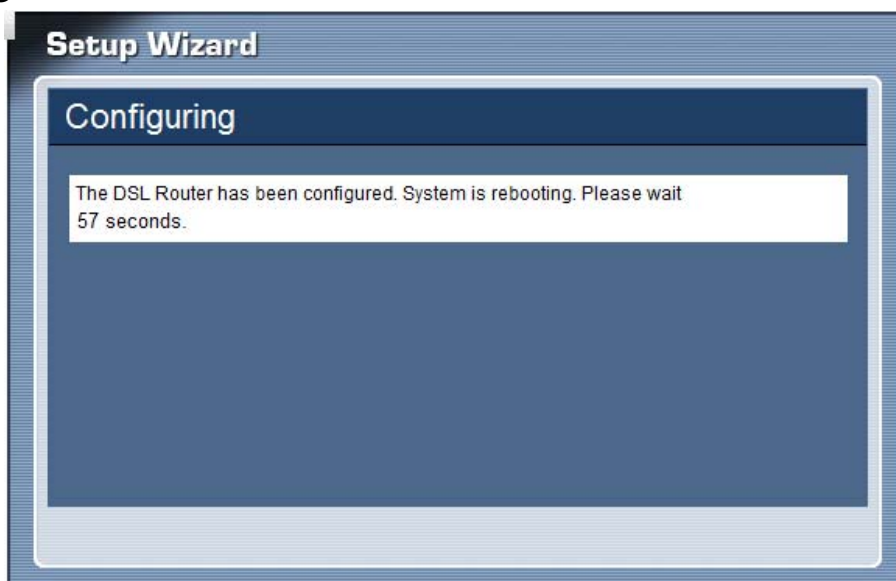
The screenshot shows a 'Setup Wizard' window with a title bar. Inside, there's a section titled 'Select Channel Mode'. Below the title, there's a label 'Channel Mode:' followed by a list of options, each with a radio button. The options are: '1483 Bridged (Modem mode)' (selected), '1483 MER (Router + Modem)', 'PPPoE', 'PPPoA', '1483 Routed', and '1577 Routed'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Channel Mode:	<input checked="" type="radio"/> 1483 Bridged (Modem mode)
	<input type="radio"/> 1483 MER (Router + Modem)
	<input type="radio"/> PPPoE
	<input type="radio"/> PPPoA
	<input type="radio"/> 1483 Routed
	<input type="radio"/> 1577 Routed

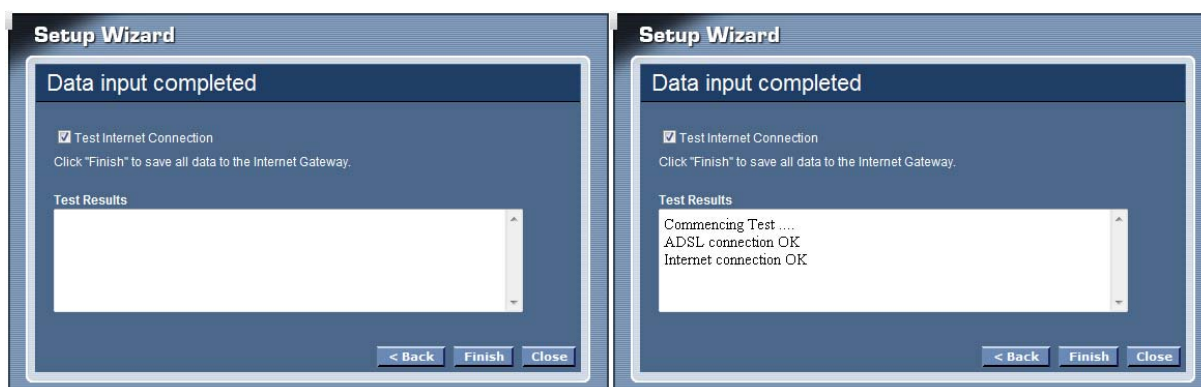


## **1483 Bridged**

Selected the 1483 Bridged mode then click next button, the WLAN ADSL Router will save configuration and reboot the WLAN ADSL Router.



When rebooted the WLAN ADSL Router, enabled the “Test Internet Connection” then click finish button for test Internet connection; click close button close the setup wizard.



## 1483 MER


Selected the 1483 MER mode then click next button, continuing the WAN IP setting.



The image shows a 'Setup Wizard' window titled 'Select Channel Mode'. It contains a list of channel modes with radio buttons. The '1483 MER (Router + Modem)' option is selected. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Channel Mode:
<input type="radio"/> 1483 Bridged (Modem mode)
<input checked="" type="radio"/> 1483 MER (Router + Modem)
<input type="radio"/> PPPoE
<input type="radio"/> PPPoA
<input type="radio"/> 1483 Routed
<input type="radio"/> 1577 Routed


Select whether user wants to specify an IP address manually, or want DHCP to obtain an IP address automatically.



The image shows a 'Setup Wizard' window titled '1483 MER (Router + modem)'. It displays 'WAN IP Settings' with a table for configuration. The 'Type' is set to 'Fixed IP'. The 'Local IP Address' is 10.1.1.1, 'Gateway IP Address' is 66.10.10.254, and 'Subnet Mask' is 255.255.255.0. The 'Default Route' is set to 'Enable'. The 'Wan MAC' is 0018e75c3c46. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

WAN IP Settings	
Type:	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP
Local IP Address:	10.1.1.1
Gateway IP Address:	66.10.10.254
Subnet Mask:	255.255.255.0
Default Route:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Wan MAC:	0018e75c3c46

If selected to 1483 MER mode with DHCP, the follows step will going on:  
Click next button to save configuration and reboot the WLAN ADSL Router



**Setup Wizard**

**1483 MER (Router + modem)**

WAN IP Settings

Type: ☐ Fixed IP ☒ DHCP

Local IP Address:

Gateway IP Address:

Subnet Mask:

Default Route: ☐ Disable ☒ Enable

Wan MAC: 0018e75c3c46

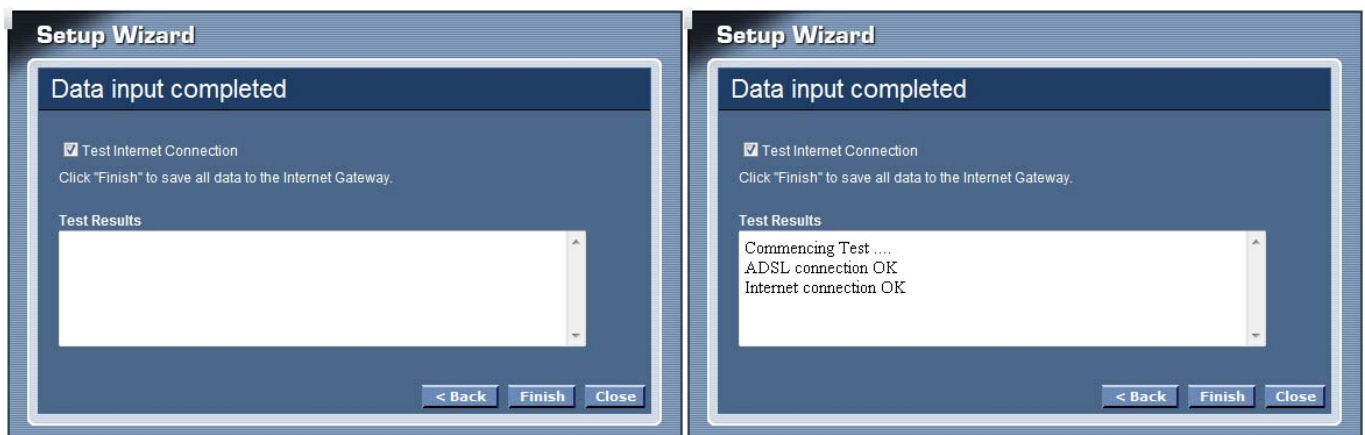
< Back Next > Cancel

**Setup Wizard**

**Configuring**

The DSL Router has been configured. System is rebooting. Please wait 57 seconds.

When rebooted the WLAN ADSL Router, enabled the “Test Internet Connection” then click finish button for test Internet connection; click close button close the setup wizard.



**Setup Wizard**

**Data input completed**

☒ Test Internet Connection

Click "Finish" to save all data to the Internet Gateway.

Test Results

< Back Finish Close

**Setup Wizard**

**Data input completed**

☒ Test Internet Connection

Click "Finish" to save all data to the Internet Gateway.

Test Results

Commencing Test ....  
ADSL connection OK  
Internet connection OK

< Back Finish Close

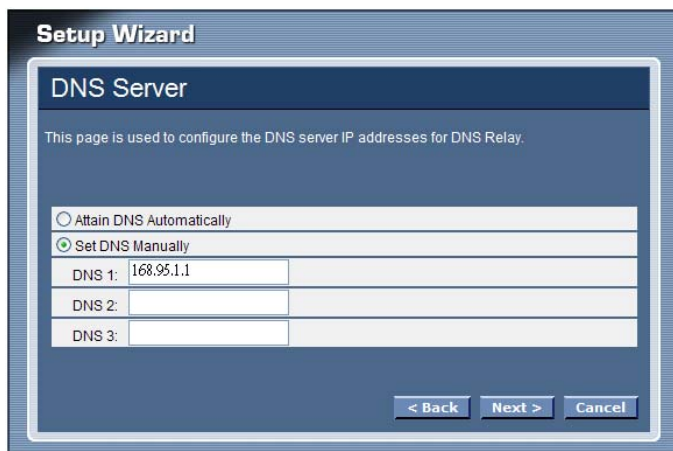
If selected to 1483 MER mode with Fixed IP, the follows step will going on:  
Enter the Local IP Address, Gateway IP Address, Subnet Mask and Wan MAC (if need to specify the other Wan MAC address) in the text boxes, click next button to continue the DNS server setting.



The screenshot shows the 'Setup Wizard' window for '1483 MER (Router + modem)'. It displays the 'WAN IP Settings' section. The 'Type' is set to 'Fixed IP' (selected with a radio button). Below this, there are text input fields for 'Local IP Address' (66.10.10.10), 'Gateway IP Address' (66.10.10.254), and 'Subnet Mask' (255.255.255.0). The 'Default Route' is set to 'Enable' (selected with a radio button). The 'Wan MAC' field contains '0018e75c3c46'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

WAN IP Settings	
Type:	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP
Local IP Address:	66.10.10.10
Gateway IP Address:	66.10.10.254
Subnet Mask:	255.255.255.0
Default Route:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Wan MAC:	0018e75c3c46

Setting the DNS server assigned by DHCP or manually, click next button to save configuration and reboot the WLAN ADSL Router



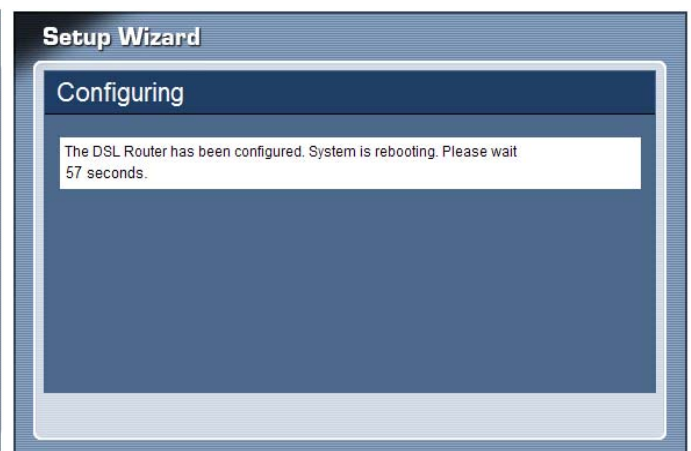
The screenshot shows the 'Setup Wizard' window for 'DNS Server'. It includes a sub-header 'DNS Server' and a description: 'This page is used to configure the DNS server IP addresses for DNS Relay.' There are two radio buttons: 'Attain DNS Automatically' and 'Set DNS Manually' (selected). Below these are three text input fields for 'DNS 1' (168.95.1.1), 'DNS 2', and 'DNS 3'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

**DNS Server**

This page is used to configure the DNS server IP addresses for DNS Relay.

☐ Attain DNS Automatically  
☒ Set DNS Manually

DNS 1: 168.95.1.1  
DNS 2:  
DNS 3:

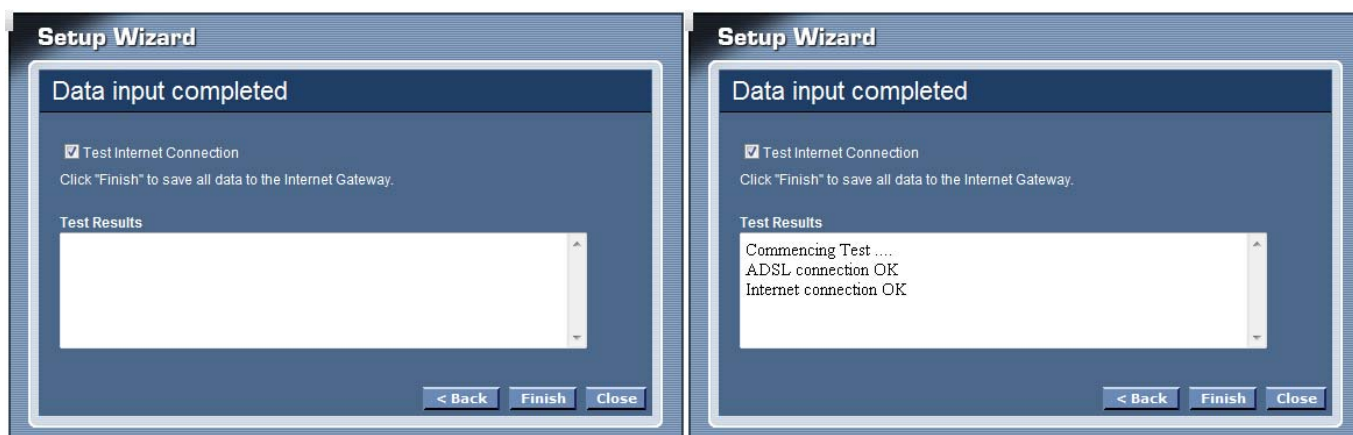


The screenshot shows the 'Setup Wizard' window for 'Configuring'. It displays a message box that says: 'The DSL Router has been configured. System is rebooting. Please wait 57 seconds.'

**Configuring**

The DSL Router has been configured. System is rebooting. Please wait 57 seconds.

When rebooted the WLAN ADSL Router, enabled the “Test Internet Connection” then click finish button for test Internet connection; click close button close the setup wizard.



## PPPoE/PPPoA

Selected the PPPoE or PPPoA mode then click next button, continue the account setting.



**User Name:** Enter the username provided by ISP.

**Password:** Enter the password provided by ISP

**Type:** Select the connection type for *Continuous* Connecting, *Connect on Demand* or *Manual* connecting.

**Idle Time:** Enter the idle time for Connect on Daemon, when no Internet access during the idle time, the ADSL connection will auto disconnect.

**Default Route:** Setting the default router function disable or enable.

**Type:** Select the IP address assign by DHCP or manually setting.

**IP Address:** Enter the IP address provided by your ISP when the Type is selected by Static IP.

**Setup Wizard**

**PPPoE**

PPPoE Settings

User Name:	<input type="text"/>
Password:	<input type="password"/>
Type:	Continuous <input type="button" value="v"/>
Idle Time (min):	<input type="text"/>
Default Route:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Type:	<input checked="" type="radio"/> Dynamic IP <input type="radio"/> Static IP
IP Address:	<input type="text"/>

**Setup Wizard**

**PPPoA**

PPPoA Settings

User Name:	<input type="text"/>
Password:	<input type="password"/>
Type:	Continuous <input type="button" value="v"/>
Idle Time (min):	<input type="text"/>
Default Route:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Type:	<input checked="" type="radio"/> Dynamic IP <input type="radio"/> Static IP
IP Address:	<input type="text"/>

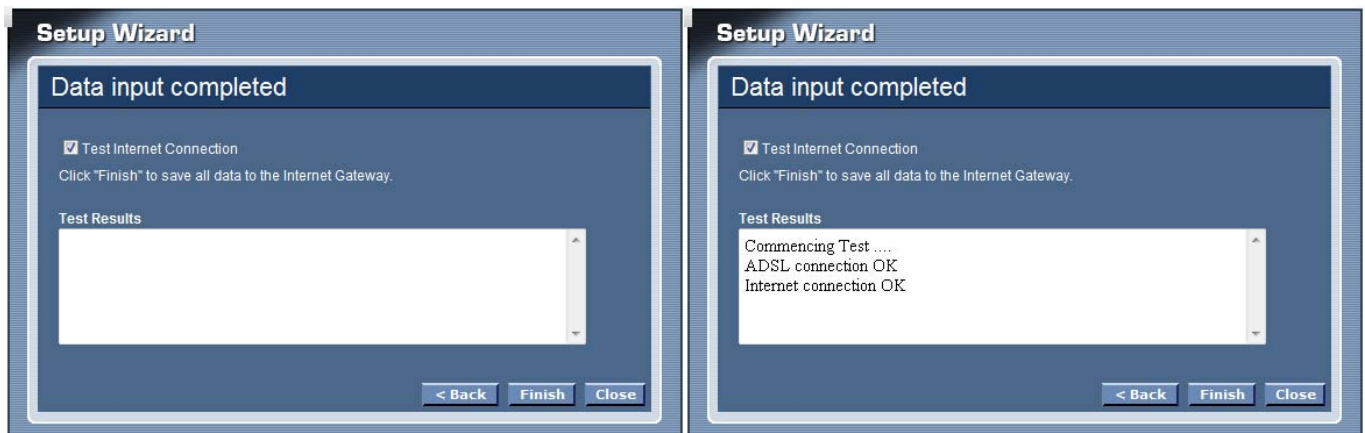
Click next button to save configuration and reboot the WLAN ADSL Router

**Setup Wizard**

**Configuring**

The DSL Router has been configured. System is rebooting. Please wait 57 seconds.

When rebooted the WLAN ADSL Router, enabled the “Test Internet Connection” then click finish button for test Internet connection; click close button close the setup wizard.



### **1483 Routed**

Selected the 1483 Routed mode then click next button, continuing the WAN IP setting.



**NAPT:** Checked to enable the NAPT on the WLAN ADSL Router.

**Local IP Address :** Enter local IP address provided by ISP

**Gateway IP Address :** Enter gateway IP address provided by ISP

**Unnumbered:** Checked to enable the IP unnumbered on the WLAN ADSL Router.

**Default Route:** Setting the default router function disable or enable.



### Setup Wizard

#### 1483 Routed

WAN IP Settings

Enable NAPT:	<input checked="" type="checkbox"/>
Local IP Address:	10.1.1.1
Gateway IP Address:	66.10.10.254
Unnumbered	<input type="checkbox"/>
Default Route:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

< Back   Next >   Cancel

Setting the DNS server assigned by DHCP or manually, click next button to save configuration and reboot the WLAN ADSL Router.

### Setup Wizard

#### DNS Server

This page is used to configure the DNS server IP addresses for DNS Relay.

☐ Attain DNS Automatically

☒ Set DNS Manually

DNS 1:	168.95.1.1
DNS 2:	
DNS 3:	

< Back   Next >   Cancel

### Setup Wizard

#### Configuring

The DSL Router has been configured. System is rebooting. Please wait 57 seconds.

## **1577 Routed**

Selected the 1577 Routed mode then click next button, continuing the WAN IP setting.



The screenshot shows the 'Setup Wizard' window with the title 'Select Channel Mode'. It contains a list of channel modes with radio buttons. The '1577 Routed' option is selected. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Channel Mode:
<input type="radio"/> 1483 Bridged (Modem mode)
<input type="radio"/> 1483 MER (Router + Modem)
<input type="radio"/> PPPoE
<input type="radio"/> PPPoA
<input type="radio"/> 1483 Routed
<input checked="" type="radio"/> 1577 Routed

Select whether user wants to specify an IP address manually, or want DHCP to obtain an IP address automatically.



The screenshot shows the 'Setup Wizard' window with the title '1577 Routed'. It contains a section for 'WAN IP Settings' with a table of configuration options. The 'Type' is set to 'Fixed IP'. The 'Local IP Address' is 10.1.1.1, the 'Gateway IP Address' is 66.10.10.254, and the 'Subnet Mask' is 255.255.255.0. The 'Default Route' is set to 'Enable'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

WAN IP Settings	
Type:	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP
Local IP Address:	10.1.1.1
Gateway IP Address:	66.10.10.254
Subnet Mask:	255.255.255.0
Default Route:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

If selected to 1577 Routed mode with DHCP, the follows step will going on:  
Click next button to save configuration and reboot the WLAN ADSL Router

The left screenshot shows the 'Setup Wizard' window with the title '1577 Routed'. Under 'WAN IP Settings', the 'Type' is set to 'DHCP'. The 'Local IP Address' is '10.1.1.1', 'Gateway IP Address' is '66.10.10.254', and 'Subnet Mask' is '255.255.255.0'. The 'Default Route' is set to 'Enable'. At the bottom are buttons for '< Back', 'Next >', and 'Cancel'.

The right screenshot shows the 'Setup Wizard' window with the title 'Configuring'. A message box states: 'The DSL Router has been configured. System is rebooting. Please wait 57 seconds.'

When rebooted the WLAN ADSL Router, enabled the “Test Internet Connection” then click finish button for test Internet connection; click close button close the setup wizard.

The left screenshot shows the 'Setup Wizard' window with the title 'Data input completed'. A checkbox labeled 'Test Internet Connection' is checked. Below it, a message says: 'Click "Finish" to save all data to the Internet Gateway.' The 'Test Results' section is empty. At the bottom are buttons for '< Back', 'Finish', and 'Close'.

The right screenshot shows the 'Setup Wizard' window with the title 'Data input completed'. The 'Test Results' section contains the following text: 'Commencing Test ....', 'ADSL connection OK', and 'Internet connection OK'. At the bottom are buttons for '< Back', 'Finish', and 'Close'.

If selected to 1577 Routed mode with Fixed IP, the follows step will going on:  
Enter the Local IP Address, Gateway IP Address, Subnet Mask and Wan MAC (if need to specify the other Wan MAC address) in the text boxes, click next button to continue the DNS server setting.

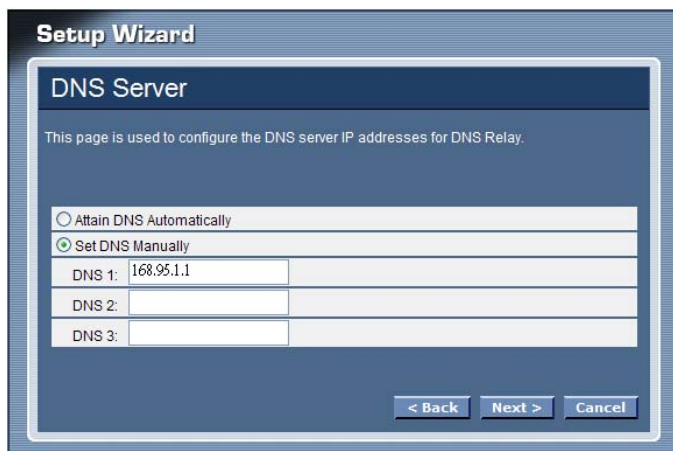


The screenshot shows the 'Setup Wizard' window with the title '1577 Routed'. Below the title is a section labeled 'WAN IP Settings'. It contains a table with the following fields:

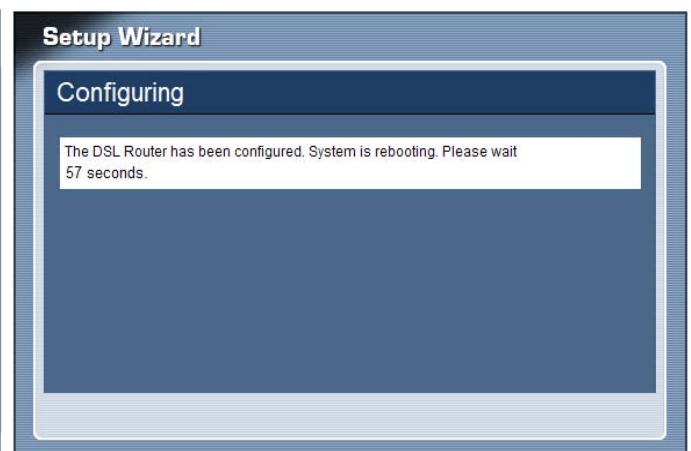
Type:	
Local IP Address:	10.1.1.1
Gateway IP Address:	66.10.10.254
Subnet Mask:	255.255.255.0
Default Route:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

At the bottom right of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

Setting the DNS server assigned by DHCP or manually, click next button to save configuration and reboot the WLAN ADSL Router

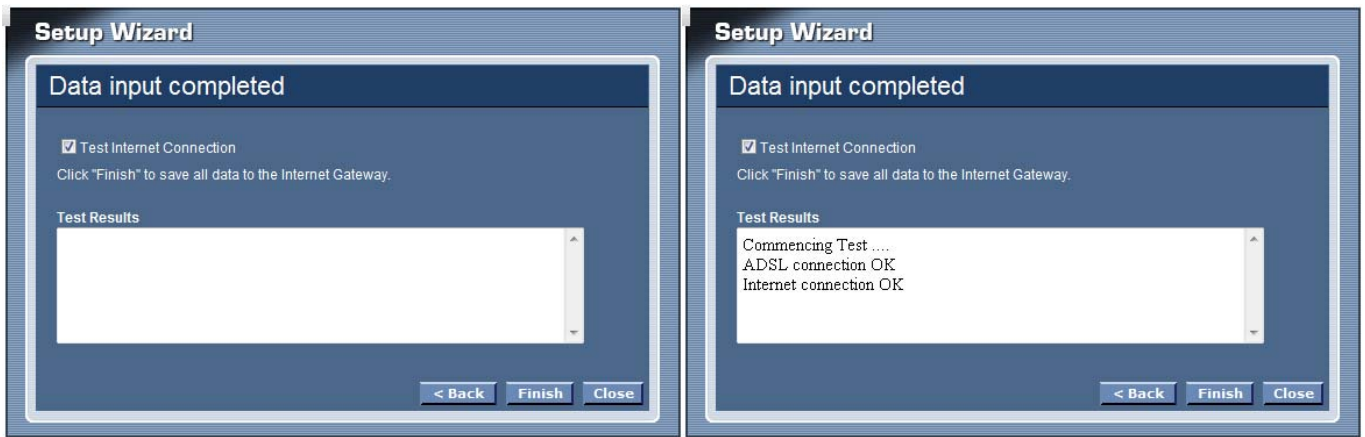


The screenshot shows the 'Setup Wizard' window with the title 'DNS Server'. Below the title is a section labeled 'DNS Server'. It contains a message: 'This page is used to configure the DNS server IP addresses for DNS Relay.' Below the message are two radio buttons: 'Attain DNS Automatically' and 'Set DNS Manually'. The 'Set DNS Manually' button is selected. Below the radio buttons are three text boxes labeled 'DNS 1:', 'DNS 2:', and 'DNS 3:'. The 'DNS 1:' box contains the value '168.95.1.1'. At the bottom right of the window are three buttons: '< Back', 'Next >', and 'Cancel'.



The screenshot shows the 'Setup Wizard' window with the title 'Configuring'. Below the title is a message box that says: 'The DSL Router has been configured. System is rebooting. Please wait 57 seconds.'

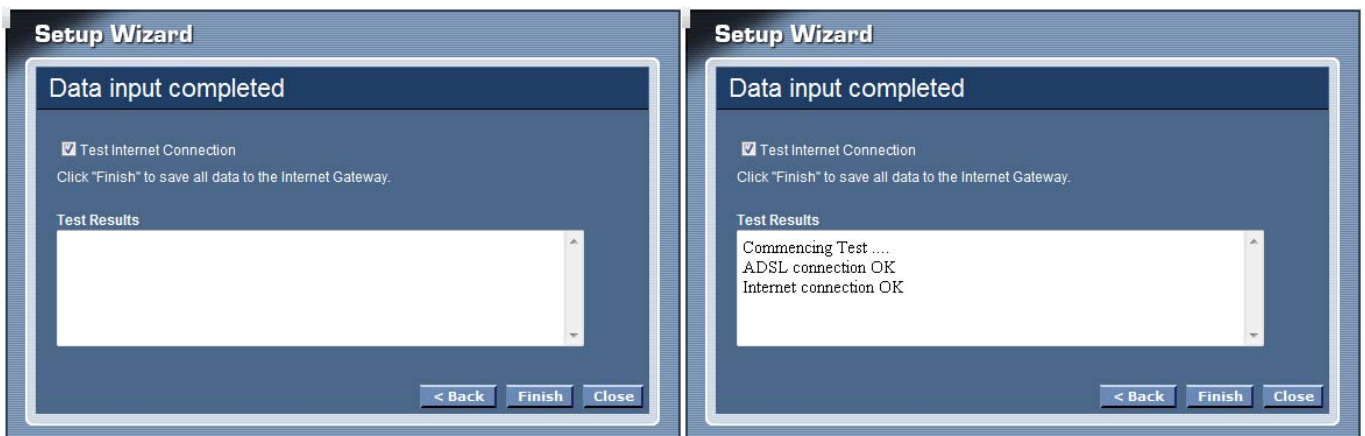
When rebooted the WLAN ADSL Router, enabled the “Test Internet Connection” then click finish button for test Internet connection; click close button close the setup wizard.



---

## Step 4: Completed the Setup Wizard

When rebooted the WLAN ADSL Router, enabled the “Test Internet Connection” then click finish button for test Internet connection; click close button close the setup wizard.



## MANUAL SETTINGS

---

Find that there are ten items, including Setup Wizard, Status, Setup, Firewall (form router mode only), Advance (form router mode only), Maintenance, Diagnostic, Monitoring, Mode and Reboot in Setup menu.

---

### Status

---

This page displays the WLAN ADSL Router current status and settings. Click the “Refresh” button to update the status.

**TRENDnet** Wireless ADSL Modem Router TEW-436BRM

**ADSL Router Status**

This page shows the current status and some basic settings of the device.

System	
Alias Name	TEW-436BRM
Uptime	1:14
Firmware Version	1.00.10
DSP Version	2.9.0.4
Name Servers	
Default Gateway	

DSL	
Operational Status	ACTIVATING.
Upstream Speed	0 kbps
Downstream Speed	0 kbps

LAN Configuration	
IP Address	192.168.10.1
Subnet Mask	255.255.255.0
DHCP Server	Enabled
MAC Address	0018e75c3c4a

WAN Configuration						
Interface	VPI/VCI	Encap	Protocol	IP Address	Gateway	Status
vc0	5/35	LLC				down

[Refresh](#)

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### Setup

---

The section enables users to configure the Internet (ADSL), LAN, Wireless, DHCP and Time Zone setting.

---

#### Internet Setup

---

The WLAN ADSL Router comes with 8 ATM Permanent Virtual Channels (PVCs) at the most. There are mainly three operations for each of the PVC channels: add, delete and modify. And there are several channel modes to be selected for each PVC channel. For each of the channel modes, the setting is quite different accordingly.



**TRENDnet** Wireless ADSL Modem Router  
TEW-436BRM

**Internet Setup**  
This page is used to configure the parameters for the channel operation modes of your ADSL Modem/Router.

VPI: 0  
VCI:   
Encapsulation: ☒ LLC ☐ VC-Mux  
Channel Mode: 1483 Bridged(Modem mode)   
Enable NAPT: ☐  
Admin Status: ☒ Enable ☐ Disable  
PPP Settings: User Name: Password:   
Type: Continuous Idle Time (min):   
WAN IP Settings: Type: ☒ Fixed IP ☐ DHCP  
Local IP Address: Gateway IP Address:   
Subnet Mask: Unnumbered ☐  
Default Route: ☐ Disable ☒ Enable WAN MAC:   
DNS Setting: ☒ Attain DNS Automatically  
☐ Set DNS Manually  
DNS 1:   
DNS 2:   
DNS 3:   
Add Modify

**Current ATM VC Table**

Select	Intf	Mode	VPI	VCI	Encap	NAPT	IP Addr	Gateway IP	Subnet Mask	User Name	DRoute	Status	Actions
<input type="radio"/>	vc0	br1483	0	35	LLC							Enable	

Delete Selected

**Auto-PVC Search**  
Enable Auto-PVC Search ☐  
VPI: 0 VCI:   
Add Delete  
Apply

**Current Auto-PVC Table:**

PVC	VPI	VCI

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**VPI:** Virtual Path Identifier. Enter the VPI value provided by ISP.

**VCI:** Virtual Channel Identifier. Enter the VCI value provided by ISP.

**Encapsulation:** Select the encapsulation type LLC or VC-Mux produced by your ISP.

**Channel Mode:** Select the channel mode for 1483 Bridged, 1483 MER, PPPoE, PPPoA, 1483 Routed or 1577 Routed provide by ISP.

**Enable NAPT:** Checked to enable the NAPT function on the WLAN ADSL Router.

**Admin Status:** Enable or disable the ATM VC setting when adding to the ATM VC Table.

**PPP Settings:** When the channel mode selected by PPPoE or PPPoA.

**User Name:** Enter the user name provide by ISP.

**Password:** Enter the user name provide by ISP.

**Type:** Select the connection type for “Continuous”, “Connect on Daemon” or “Manual” connect.

**Idle Time:** Enter the idle time for Connect on Daemon, when no Internet access during the idle time, the ADSL connection will auto disconnect.

### **WAN IP Settings:**

**Type:** Select whether user wants to specify an IP address manually, or want DHCP to obtain an IP address automatically. When Fixed IP is selected, type the Local IP Address, Gateway IP Address and Subnet Mask in the text boxes. User's ISP will provide with this information.

**Unnumbered:** Checked to enable the IP unnumbered on the WLAN ADSL Router.

**Default Route:** Setting the default router function disable or enable.

**WAN MAC:** Enter the specified WAN MAC address provided by your ISP

### **DNS Setting:**

**Attain DNS Automatically:** Select this item if you want to use the DNS servers obtained by the WAN interface via the auto-configuration mechanism.

**Set DNS Manually:** Select this item to configure up to three DNS IP addresses.

**DNS 1~3:** Ethernet the IP address of the DNS server.

**Add Button:** Click add button to add the new VC setting to the ATM VC Table.

**Modify Button:** Selected on of VC setting from the Current ATM VC Table then click the Modify button to save the modified VC setting.

**Current ATM VC Table:** Shows all of the ATM VC settings in the table.

**Auto-PVC Search:** Enable the Auto-PVC Search or add new PVC setting manually.

**Current Auto-PVC Table:** Shows all of the Auto-PVC settings in the table.

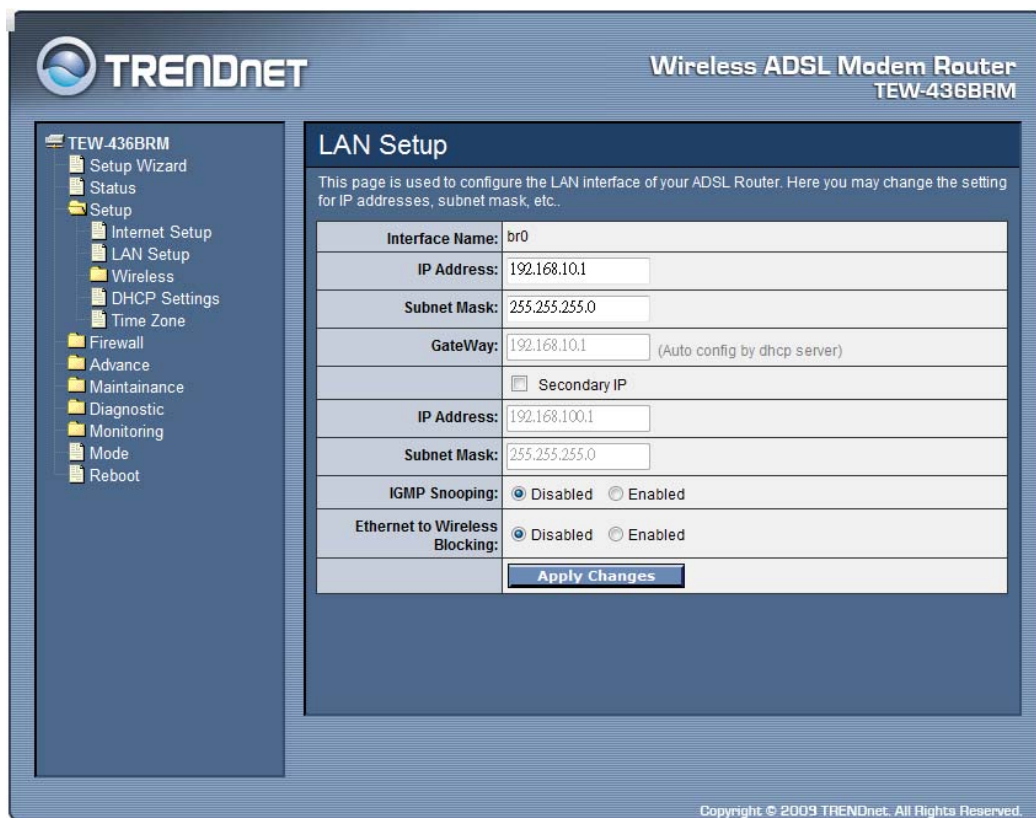
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### **LAN Setup**

---

This screen enables users to set up the WLAN ADSL Router WAN connection, specify the IP address for the WAN, add DNS numbers, and enter the MAC address.





**IP Address:** This is the IP address of the router. The default IP address is 192.168.10.1.

**Subnet Mask:** Type the subnet mask for the router in the text box. The default subnet mask is 255.255.255.0.

**Secondary IP:** Checked to enable the secondary IP address setting on the LAN.

**IP Address:** The secondary IP address setting of the LAN.

**Subnet Mask:** The secondary Subnet Mask setting of the LAN.

**IGMP Snooping:** Enable/disable the IGMP snooping function for the multiple bridged LAN ports.

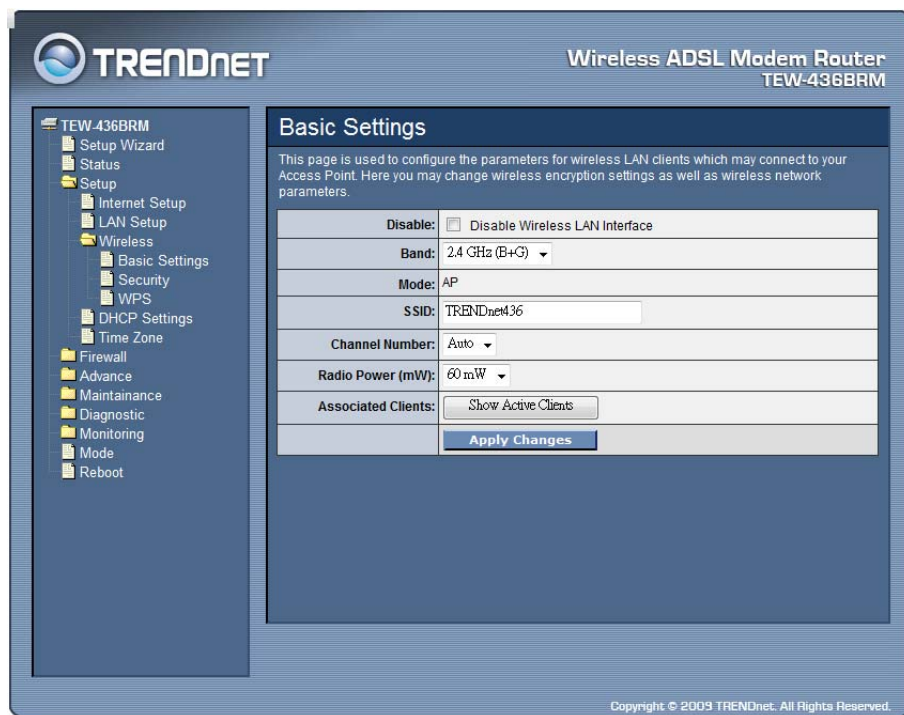
**Ethernet to Wireless Blocking:** When enabled the Ethernet to Wireless Blocking, all of Ethernet users can't communicate with WLAN users.

---

## Wireless

---

This section enables users to configuration the wireless communications parameters for the WLAN ADSL Router.



## **Basic Settings**

This page allow user to enable and disable the wireless LAN function, create a SSID, and select the channel for wireless communications.

**Disable:** Checked to disable the wireless function of the WLAN ADSL Router.

**Band:** Select one of the following:

- **2.4Ghz (B+G)** - Selected if you are allowing both 802.11b and 802.11g wireless clients connect to the WLAN ADSL Router at the same time.
- **2.4Ghz (B)** - Selected if you are allowing the 802.11b wireless clients connect to the WLAN ADSL Router only.
- **2.4Ghz (G)** - Selected if you are allowing the 802.11g wireless clients connect to the WLAN ADSL Router only.

**SSID:** Type an SSID in the text box. The SSID of any wireless device must match the SSID typed here in order for the wireless device to access the LAN and WAN via the WLAN ADSL Router.

**Channel:** Select a transmission channel for wireless communications. The channel of any wireless device must match the channel selected here in order for the wireless device to access the LAN and WAN via the WLAN ADSL Router.

**Radio Power (mW):** The maximum output power for wireless LAN: 15mW, 30mW or 60mW.

**Associated Clients:** Click the “Show Active Client” button displays the information of connected wireless clients.

## **Security**



**SSID TYPE:** The WLAN ADSL Router supports up to four multiple SSID feature (Multiple Virtual AP), select which AP (Root AP, VAP0~VAP3) will configure the security setting.

**Encryption:** There are 4 types of security to be selected. To secure your WLAN, it's strongly recommended to enable this feature.

**WEP:** Make sure that all wireless devices on your network are using the same encryption level and key. Click Set WEP Key button to set the encryption key.

**WPA (TKIP):** WPA uses Temporal Key Integrity Protocol (TKIP) for data encryption. TKIP utilized a stronger encryption method and incorporates Message Integrity Code (MIC) to provide protection against hackers.

**WPA2 (AES):** WPA2, also known as 802.11i, uses Advanced Encryption Standard (AES) for data encryption. AES utilized a symmetric 128-bit block data encryption.

**WAP2 Mixed:** The AP supports WPA (TKIP) and WPA2 (AES) for data encryption. The actual selection of the encryption methods will depend on the clients.

**802.1x Authentication:** Checked to enable the 802.1x authentication. This option is selectable only when the "Encryption" is selected to either None or WEP. If the "Encryption" is WEP, you need to further select the WEP key length to be either WEP 64bits or WEP 128bits.

**WEP:** Click the "Set WEP Key" button to setting WEP key when the "Encryption" is selected to "WEP".

**SSID TYPE:** The WLAN ADSL Router supports up to four multiple SSID feature (Multiple Virtual AP), select which AP (Root AP, VAP0~VAP3) will setting the WEP key.

**Key Length:** Select the level of encryption from the drop-down list 64 and 128-bit encryption.

**Key Format:** Select the key format from the drop-down list HEX or ASCII.

**Default TX Key:** Select which encryption key 1~4 will be use to default TX key.

**Encryption Key 1 ~ 4:** Enables users to create up to 4 different WEP keys, manually enter a set of values for each key.

**WPA Authentication Mode:** There are 2 types of authentication mode for WPA.

**Enterprise (RADIUS):** WPA RADIUS uses an external RADIUS server to perform user authentication. To use WPA RADIUS, enter the IP address of the RADIUS server, the RADIUS port (default is 1812) and the shared secret from the RADIUS server. Please refer to “Authentication RADIUS Server” setting below for RADIUS setting.

**Personal (Pre-Shared Key):** Pre-Shared Key authentication is based on a shared secret that is known only by the parties involved. To use WPA Pre-Shared Key, select key format and enter a password in the “Pre-Shared Key Format” and “Pre-Shared Key” setting respectively. Please refer to “Pre-Shared Key Format” and “Pre-Shared Key” setting below.

### Pre-Shared Key Format:

**Passphrase:** Select this to enter the Pre-Shared Key secret as user-friendly textual secret.

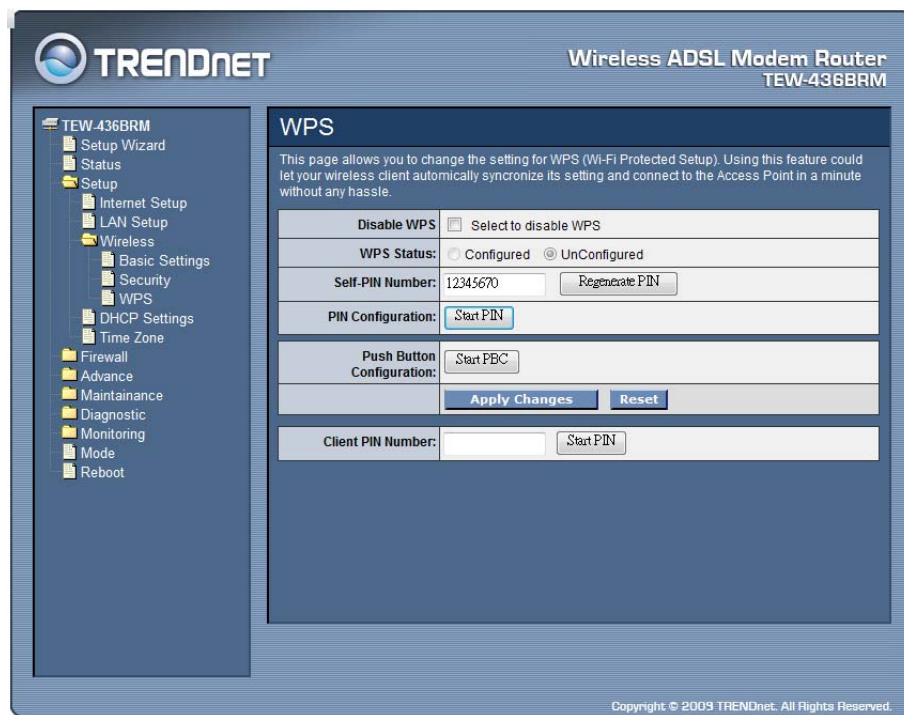
**Hex (64 characters):** Select this to enter the Pre-Shared Key secret as hexadecimal secret.

**Pre-Shared Key:** Specify the shared secret used by this Pre-Shared Key. If the “Pre-Shared Key Format” is specified as Passphrase, then it indicates a passphrase of 8 to 63 bytes long; or if the “Pre-Shared Key Format” is specified as Passphrase, then it indicates a 64-hexadecimal number.

**Authentication RADIUS Server:** If the WPA-RADIUS is selected at “WPA Authentication Mode”, the port (default is 1812), IP address and password of external RADIUS server are specified here.

## **WPS**

Although home Wi-Fi networks have become more and more popular, users still have trouble with the initial set up of network. This obstacle forces users to use the open security and increases the risk of eavesdropping. Therefore, The Wi-Fi Protected Setup (WPS) is designed to ease set up of security-enabled Wi-Fi networks and subsequently network management. The largest difference between WPS-enabled devices and legacy devices is that users do not need the knowledge about SSID, channel and security settings, but they could still surf in a security-enabled Wi-Fi network. This device supports Push Button method and PIN method for WPS. The following sub-paragraphs will describe the function of each item. The webpage is as below. Although home Wi-Fi networks have become more and more popular, users still have trouble with the initial set up of network. This obstacle forces users to use the open security and increases the risk of eavesdropping. Therefore, The Wi-Fi Protected Setup (WPS) is designed to ease set up of security-enabled Wi-Fi networks and subsequently network management. The largest difference between WPS-enabled devices and legacy devices is that users do not need the knowledge about SSID, channel and security settings, but they could still surf in a security-enabled Wi-Fi network. This device supports Push Button method and PIN method for WPS. The following sub-paragraphs will describe the function of each item. The webpage is as below.



**Disable WPS:** Checked to disable the Wi-Fi protected Setup.

**WPS Status:** When the WLAN ADSL Router settings are factory default (out of box), it is set to open security and un-configured state. “WPS Status” will display it as “UnConfigured”. If it already shows “Configured”, some registrars such as Vista WCN will not configure AP. Users will need to go to the “Backup/Restore” page and click “Reset” to reload factory default settings.

**Self-PIN Number:** The “Self-PIN Number” is AP’s PIN. Whenever users want to change AP’s PIN, they could click “Regenerate PIN” and then click “Apply Changes”. Moreover, if users want to make their own PIN, they could enter four-digit PIN without checksum and then click “Apply Changes”. However, this would not be recommended since the registrar side needs to be supported with four-digit PIN.

**PIN Configuration:** Click the “Start PIN” button to start the PIN method of WPS.

**Push Button Configuration:** Click the “Start PBC” button to start the push button method of WPS.

**Client PIN Number:** It is only used when users want their station to join AP’s network. The length of PIN is limited to four or eight numeric digits. If users enter eight-digit PIN with checksum error, there will be a warning message popping up. If users insist on this PIN, AP will take it.



---

## DHCP Settings

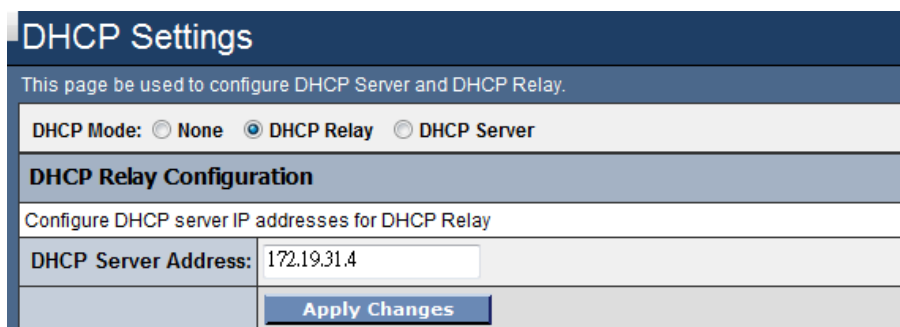
---

You can configure your WLAN ADSL Router to use the Dynamic Host Configuration Protocol (DHCP). This section provides DHCP instructions for implementing it on your network by selecting the role of DHCP protocol that this device wants to play.

**DHCP Mode:** There are two different DHCP roles that this device can act as: DHCP Server and DHCP Relay. When acting as DHCP server, you can setup the server parameters at the below DHCP Server setting; while acting as DHCP Relay, you can setup the relay at the below DHCP Relay setting. Otherwise, selected the None to disable the DHCP service.

### DHCP Relay

Some ISPs perform the DHCP server function for their customers' home/small office network. In this case, you can configure this device to act as a DHCP relay agent. When a host on your network requests Internet access, the device contacts your ISP to obtain the IP configuration, and then forward that information to the host. You should set the DHCP mode after you configure the DHCP relay.



**DHCP Server Address:** Specify the IP address of your ISP's DHCP server. Requests for IP information from your LAN will be passed to the default gateway, which should route the request appropriately.

### DHCP Server

By default, the device is configured as a DHCP server, with a predefined IP address pool of 192.168.10.2 through 192.168.10.100 (subnet mask 255.255.255.0).

DHCP Settings

This page be used to configure DHCP Server and DHCP Relay.

DHCP Mode:
☐ None
☐ DHCP Relay
☒ DHCP Server

DHCP Server

Enable DHCP Server if you are using this device as a DHCP server. This page lists the IP address pools available to hosts on your LAN. The device distributes numbers in the pool to hosts on your network as they request Internet access.

LAN IP Address:	192.168.10.1		
Subnet Mask:	255.255.255.0		
IP Pool Range:	192.168.10.2	-	192.168.10.100
	<input type="button" value="Show Client"/>		
Subnet Mask:	255.255.255.0		
Max Lease Time:	86400	seconds (-1 indicates an infinite lease)	
Domain Name:	domain.name		
Gateway Address:	192.168.10.1		
	<input type="button" value="Apply Changes"/>		<input type="button" value="MAC-Base Assignment"/>

**IP Pool Range:** Specify the lowest and highest addresses in the pool.

**Subnet Mask:** Specify the subnet mask value.

**Max Lease Time:** The Lease Time is the amount of time that a network user is allowed to maintain a network connection to the device using the current dynamic IP address. At the end of the Lease Time, the lease is either renewed or a new IP is issued by the DHCP server. The amount of time is in units of seconds. The default value is 86400 seconds (1 day). The value –1 stands for the infinite lease.

**Domain Name:** A user-friendly name that refers to the group of hosts (subnet) that will be assigned addresses from this pool.

**Gateway Address:** Specify the gateway IP address.

**Show Client:** When click the “Show Client” button, all dynamic DHCP client computers are listed in the new window and providing the IP address, MAC address and Time Expired of the client.

DHCP Client

This table shows the assigned IP address, MAC address and time expired for each DHCP leased client.

IP Address	MAC Address	Time Expired(s)
192.168.10.2	00:14:d1:64:3c:bd	76610



**MAC-Base Assignment:** Click the “MAC-Base Assignment” button to configure the static IP base on MAC Address. You can assign/delete the static IP. The Host MAC Address, please input a string with hex number. Such as "00-d0-59-c6-12-43". The Assigned IP Address, please input a string with digit. Such as "192.168.10.100". Click “Assign IP” button to add the static DHCP setting to the MAC-Base Assignment Table.

Static IP Assignment Table

This page is used to configure the static IP base on MAC Address. You can assign/delete the static IP. The Host MAC Address, please input a string with hex number. Such as "00-d0-59-c6-12-43". The Assigned IP Address, please input a string with digit. Such as "192.168.1.100".

Host MAC Address(xx-xx-xx-xx-xx-xx):

Assigned IP Address (xxx.xxx.xxx.xxx):

Assign IP

Delete Assigned IP

Close

MAC-Base Assignment Table

Select	Host MAC Address	Assigned IP Address
--------	------------------	---------------------

## Time Zone

Simple Network Timing Protocol (SNTP) is a protocol used to synchronize the system time to the public SNTP servers. The WLAN ADSL Router supports SNTP client functionality in compliance with IETF RFC2030. SNTP client functioning in daemon mode which issues sending client requests to the configured SNTP server addresses periodically can configure the system clock in the WLAN ADSL Router.

TRENDnet

Wireless ADSL Modem Router  
TEW-436BRM

TEW-436BRM

- Setup Wizard
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  - LAN Setup
  - Wireless
  - DHCP Settings
  - Time Zone
- Firewall
- Advance
- Maintainance
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Time Zone

You can maintain the system time by synchronizing with a public time server over the Internet.

Current Time

Yr 2000 Mon 1 Day 1 Hr 0 Mn 0 Sec 48

Time Zone Select

(GMT-05:00)Eastern Time (US & Canada)

SNTP server

☐ Enable SNTP client update

☒ 203.117.180.36 - Asia Pacific
☐ 220.130.158.52 (Manual IP Setting)

Daylight Saving

☐ Enable Daylight Saving

Daylight Saving Dates

Start	Mar	2nd	Sun	2 am
End	Nov	1st	Sun	2 am

Apply Change

Refresh

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**Current Time:** The current time of the specified time zone. You can set the current time by yourself or configured by SNTP.

**Time Zone Select:** The time zone in which the WLAN ADSL Router resides.

**Enable SNTP client update:** Enable the SNTP client to update the system clock.

**SNTP server:** The IP address or the host name of the SNTP server. You can select from the list or set it manually.

**Daylight Saving:** Checked to enable daylight saving time. When enabled, select the start and end date for daylight saving time.

---

## Firewall – Used only on Router mode settings

---

The Firewall setting for the WLAN ADSL Router is configured on Router mode only. Please refer the **Mode** setting in page 79.

Firewall contains several features that are used to deny or allow traffic from passing through the device.

---

### IP/Port Filtering

---

The IP/Port filtering feature allows you to deny/allow specific services or applications in the forwarding path.

**TRENDNET** Wireless ADSL Modem Router  
TEW-436BRM

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- Setup Wizard
- Status
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  - Domain Blocking
  - Port Triggering
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### IP/Port Filtering

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

Outgoing Default Action: ☐ Deny ☒ Allow

Incoming Default Action: ☒ Deny ☐ Allow

**Apply Changes**

#### Add/Modify Rule

Direction: Outgoing

Protocol: TCP

Rule Action: ☒ Deny ☐ Allow

Source: IP Address: Subnet Mask: Port: -

Destination: IP Address: Subnet Mask: Port: -

**Add** **Modify**

#### Current Filter Table

Select	Direction	Protocol	Src Address	Src Port	Dst Address	Dst Port	Rule Action
--------	-----------	----------	-------------	----------	-------------	----------	-------------

**Delete Selected** **Delete All**

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**Outgoing Default Action:** Specify the default action on the LAN to WAN forwarding path.

**Incoming Default Action:** Specify the default action on the WAN to LAN forwarding path.

## Add/Modify Rule

Add or modify the IP/Port filtering rule.

**Direction:** Select the traffic forwarding direction “Outgoing” or “Incoming”.

**Protocol:** Select the protocol type for TCP, UDP or ICMP.

**Rule Action:** Deny or allow traffic when matching this rule.

**Source:** The source IP address, Subnet Mask and Port range assigned to the traffic on which filtering is applied.

**Destination:** The destination IP address, Subnet Mask and Port range assigned to the traffic on which filtering is applied.

**Add:** Click the “Add” button to save the rule entry to the configuration.

**Modify:** Click the “Modify” button to modify the selected rule form the Current Filter Table.

**Delete Selected:** Click the “Delete Selected” button to delete the selected rule from Current Filter Table.

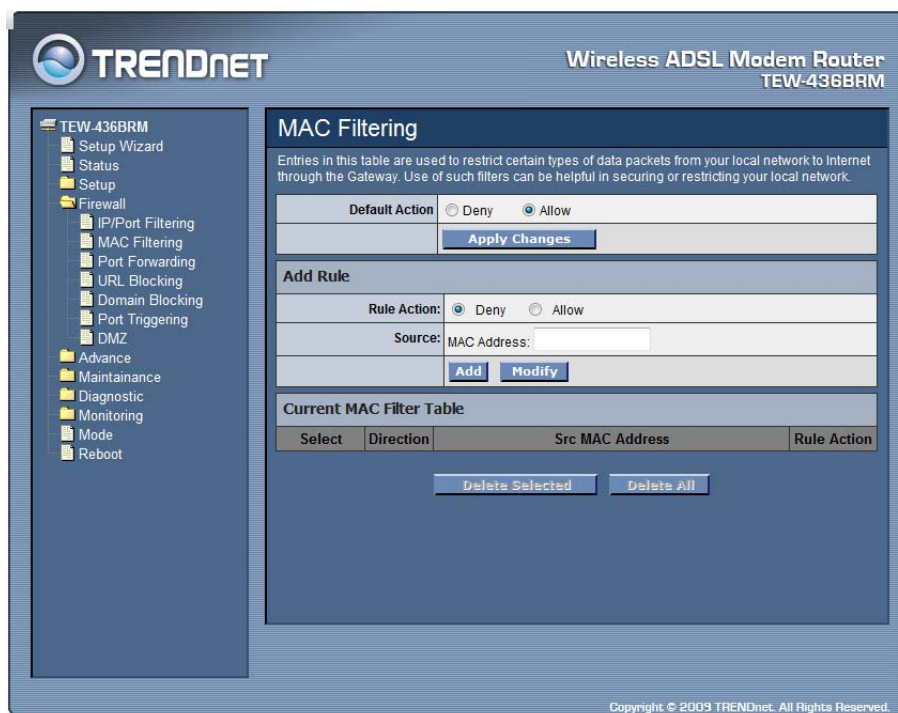
**Delete All:** Click the “Delete All” button to delete the all of rule in the Current Filter Table.

---

## MAC Filtering

---

The MAC filtering feature allows you to define rules to allow or deny frames through the device based on source MAC address, and traffic direction.



**Default Action:** Specify the default action on the LAN to WAN forwarding path.

## Add/Modify Rule

Add or modify the MAC filtering rule.

**Rule Action:** Deny or allow traffic when matching this rule.

**Source:** The source MAC address. It must be xxxxxxxxxxxx format. Blanks can be used in the MAC address space and are considered as don't care.

**Add:** Click the “Add” button to save the rule entry to the configuration.

**Modify:** Click the “Modify” button to modify the selected rule from the Current MAC Filter Table.

**Delete Selected:** Click the “Delete Selected” button to delete the selected rule from Current MAC Filter Table.

**Delete All:** Click the “Delete All” button to delete the all of rule in the Current MAC Filter Table.

---

## Port Forwarding

Firewall keeps unwanted traffic from the Internet away from your LAN computers. Add a Port Forwarding entry will create a tunnel through your firewall so that the computers on the Internet can communicate to one of the computers on your LAN on a single port.

**TRENDnet** Wireless ADSL Modem Router TEW-436BRM

**Port Forwarding**

Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall.

Port Forwarding: ☒ Disable ☐ Enable

**Add Rule**

Protocol: Both

Comment:

Enable: ☒

Interface:

Local: IP Address: Port: -

Remote: IP Address: Port: -

**Current Port Forwarding Table**

Select	Local IP Address	Protocol	Local Port	Comment	Enable	Remote Host	Public Port	Interface
--------	------------------	----------	------------	---------	--------	-------------	-------------	-----------

**Delete Selected** **Delete All**

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**Port Forwarding:** Select to enable or disable the port forwarding feature.

### Add/Modify Rule

Add or modify the Port Forwarding rule.

**Protocol:** Select the protocol type for TCP, UDP or Both (TCP and UTP).

**Enable:** Check to enable this rule.

**Interface:** Select the WAN interface on which the port-forwarding rule is to be applied.

**Local:** The local IP address and Port range assigned to the traffic on which filtering is applied.

**Destination:** The remote IP address and Port range assigned to the traffic on which filtering is applied.

**Add:** Click the “Add” button to save the rule entry to the configuration.

**Modify:** Click the “Modify” button to modify the selected rule form the Current Port Forwarding Table.

**Delete Selected:** Click the “Delete Selected” button to delete the selected rule from Current Port Forwarding Table.

**Delete All:** Click the “Delete All” button to delete the all of rule in the Current Port Forwarding Table.

---

## URL Blocking

---

The URL Blocking is the web filtering solution. The firewall includes the ability to block access to specific web URLs based on string matches. This can allow large numbers of URLs to be blocked by specifying only a FQDN (such as tw.yahoo.com). The URL Blocking enforce a Web usage policy to control content downloaded from, and uploaded to, the Web.

**TRENDnet** Wireless ADSL Modem Router TEW-436BRM

TEW-436BRM

- Setup Wizard
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### URL Blocking

This page is used to blocked Fully Qualified Domain Name (FQDN), such as mspace.com, and filtered keyword. Here you can add/delete FQDN and filtered keyword.

URL Blocking: ☒ Disable ☐ Enable

**Apply Changes**

#### Add FQDN Rule

Rule Action: ☒ Deny ☐ Allow

FQDN:  **Add**

#### URL Blocking Table

Select	FQDN	Rule Action
--------	------	-------------

**Delete Selected** **Delete All**

#### Add Keyword Rule

Rule Action: ☒ Deny ☐ Allow

Keyword:  **Add**

#### Keyword Filtering Table:

Select	Filtered Keyword	Rule Action
--------	------------------	-------------

**Delete Selected** **Delete All**

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**URL Blocking:** Select to enable or disable the URL blocking feature.

### Add FQDN Rule

**Rule Action:** Deny or allow traffic when matching this rule.

**FQDN:** A fully qualified domain name (or FQDN) is an unambiguous domain name that specifies the node's position in the DNS tree hierarchy absolutely, such as tw.yahoo.com. The FQDN will be blocked to access.

**Add:** Click the “Add” button to save the rule entry to the configuration.

**Delete Selected:** Click the “Delete Selected” button to delete the selected rule from URL Blocking Table.

**Delete All:** Click the “Delete All” button to delete the all of rule in the URL Blocking Table.



## Add Keyword Rule

**Rule Action:** Deny or allow traffic when matching this rule.

**Keyword:** The filtered keyword such as yahoo. If the URL includes this keyword, the URL will be blocked to access.

**Add:** Click the “Add” button to save the rule entry to the configuration.

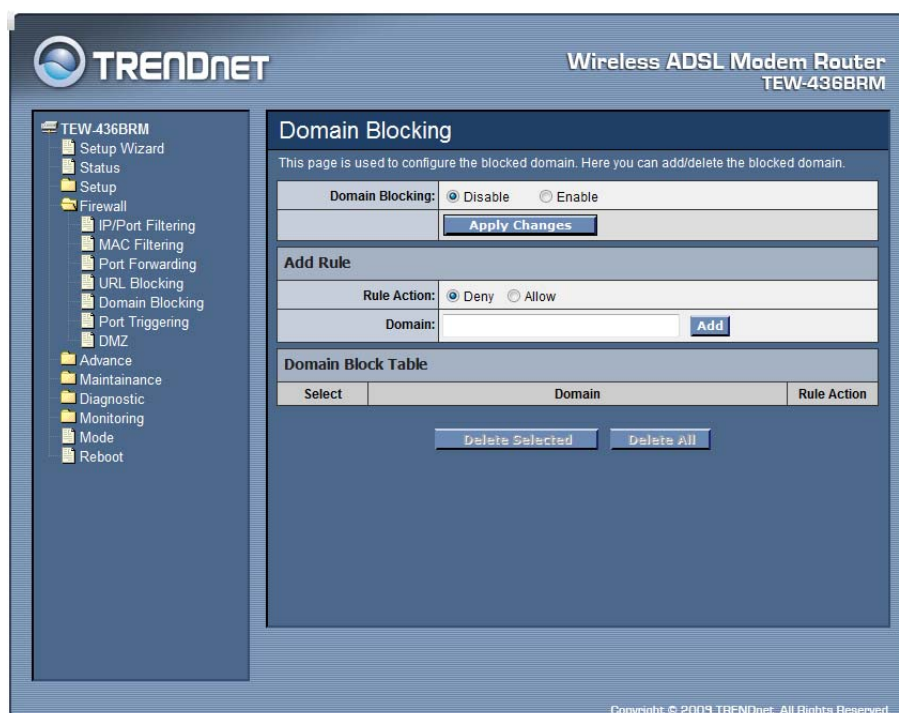
**Delete Selected:** Click the “Delete Selected” button to delete the selected rule from Keyword Filtering Table.

**Delete All:** Click the “Delete All” button to delete the all of rule in the Keyword Filtering Table.

---

## Domain Blocking

The firewall includes the ability to block access to specific domain based on string matches. For example, if the URL of Taiwan Yahoo web site is “tw.yahoo.com” and you enter “yahoo.com”, the firewall will block all the DNS queries with “yahoo.com” string. So the Host will be blocked to access all the URLs belong to “yahoo.com” domain. That means you can protect your computer, your house, your office and anything else that uses DNS from being able to service domains that you don’t want to load.



**Domain Blocking:** Select to enable or disable the Domain blocking feature.

## Add Rule

**Rule Action:** Deny or allow traffic when matching this rule.

**Domain:** Enter the blocked domain.

**Add:** Click the “Add” button to save the rule entry to the configuration.

**Delete Selected:** Click the “Delete Selected” button to delete the selected rule from Domain Block Table.

**Delete All:** Click the “Delete All” button to delete the all of rule in the Domain Blocking Table.

---

## Port Triggering

The Port Triggering enables users to specify special applications, such as games which require multiple connections that are blocked by NAT.

The screenshot shows the web interface of a TrendNet Wireless ADSL Modem Router (TEW-436BRM). The left sidebar contains a navigation menu with options like Setup Wizard, Status, Setup, Firewall, IP/Port Filtering, MAC Filtering, Port Forwarding, URL Blocking, Domain Blocking, Port Triggering, DMZ, Advance, Maintenance, Diagnostic, Monitoring, Mode, and Reboot. The main content area is titled 'Port Triggering' and includes a description: 'This page is used to configure the port trigger function.' Below this, there are radio buttons for 'Port Triggering' (Disable/Enable) and an 'Apply Changes' button. The 'Add by Application' section has a dropdown menu for 'Application Name' and an 'Add' button. The 'Add Manually' section has fields for 'Name', 'Match Protocol' (TCP&UDP), 'Match port range', 'Related Protocol' (TCP&UDP), and 'Related port range', with 'Add' and 'Modify' buttons. At the bottom, there is a 'Trigger Table' with columns: Select, Name, Status, Match Protocol, Match Port, Related Protocol, and Related Port. Below the table are buttons for 'Disable Selected', 'Enable Selected', 'Delete Selected', and 'Delete All'. The footer of the interface states 'Copyright © 2003 TRENDnet. All Rights Reserved.'

**Port Triggering:** Select to enable or disable the Port Triggering feature.

## Add by Application

**Add by Application:** Select pre-define the application rule from list then click “Add” button to add the selected application rule.

## Add by Manually

**Enable:** Check to enable this rule.

**Name:** Enter a descriptive name for the application rule.

**Match Protocol:** Select the outgoing protocol type for TCP, UDP or TCP&UTP.



**Match port range:** Enter the outgoing port range that can be used to access the application in the text boxes.

**Related Protocol:** Select the incoming protocol type for TCP, UDP or TCP&UTP.

**Related port range:** Enter the incoming port range that can be used to access the application in the text boxes.

**Add:** Click the “Add” button to save the rule entry to the configuration.

**Modify:** Click the “Modify” button to modify the selected rule form the Trigger Table.

**Delete Selected:** Click the “Delete Selected” button to delete the selected rule from Trigger Table.

**Delete All:** Click the “Delete All” button to delete the all of rule in the Trigger Table.

**Disable Selected:** Click the “Disable Selected” button to disable the selected rule from Trigger Table.

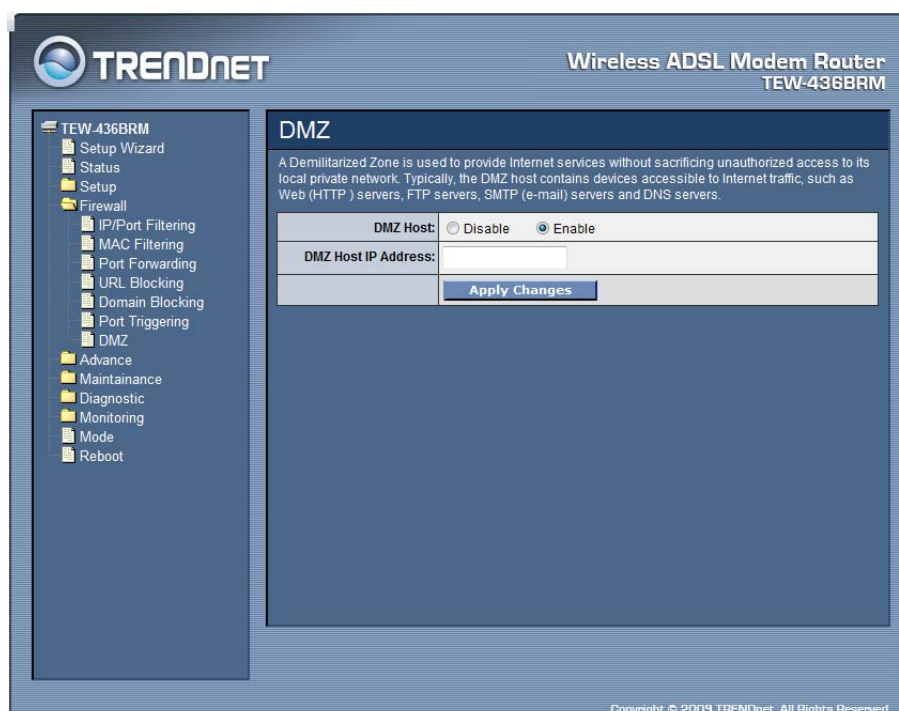
**Enable Selected:** Click the “Enable Selected” button to Enable the selected rule from Trigger Table.

---

## DMZ

---

A DMZ (Demilitarized Zone) allows a single computer on your LAN to expose ALL of its ports to the Internet. Enter the IP address of that computer as a DMZ (Demilitarized Zone) host with unrestricted Internet access. When doing this, the DMZ host is no longer behind the firewall.



**DMZ Host:** Select to enable or disable the DMZ feature.

**DMZ Host IP Address:** Enter a IP address of the local host. This feature sets a local host to be exposed to the Internet

---

## Advance – Used only on Router mode settings

---

The Advance setting is for the WLAN ADSL Router is configured on Router mode only. Please refer the **Mode** setting in page 79.

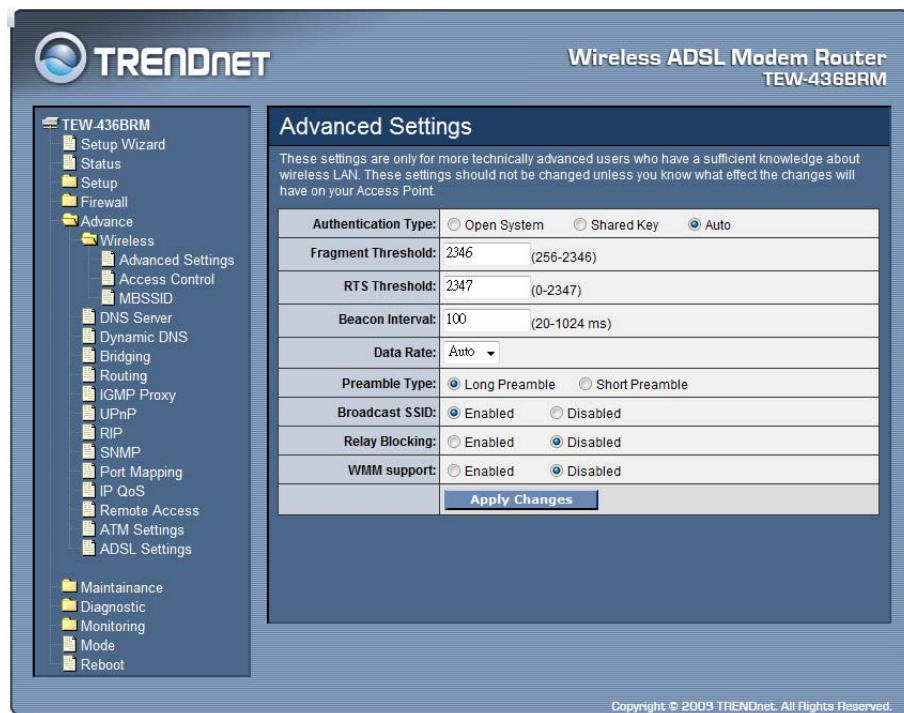
---

## Wireless

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### Advanced Settings

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your WLAN ADSL Router.



**Authentication Type: Open System:** Open System authentication is not required to be successful while a client may decline to authenticate with any particular other client. **Shared Key:** Shared Key is only available if the WEP option is implemented. Shared Key authentication supports authentication of clients as either a member of those who know a shared secret key or a member of those who do not. IEEE 802.11 Shared Key authentication accomplishes this without the need to transmit the secret key in clear. Requiring the use of the WEP privacy mechanism. **Auto:** Auto is the default authentication algorithm. It will change its authentication type automatically to fulfill client's requirement.

**Fragment Threshold:** This value should remain at its default setting of 2000. It specifies the maximum size for a packet before data is fragmented into multiple packets. If you experience a high packet error rate, you may slightly increase the “Fragment Threshold” value within the value range of 256 to 2346. Setting this value too low may result in poor network performance. Only minor modifications of this value are recommended. The default is 2346.

**RTS Threshold:** This value should remain at its default setting of 2000. Should you encounter inconsistent data flow, only minor modifications are recommended. If a network packet is smaller than the preset “RTS threshold” size, the RTS/CTS mechanism will not be enabled. The ADSL modem (or AP) sends Request to Send (RTS) frames to a particular receiving station and negotiates the sending of a data frame. After receiving an RTS, the wireless station responds with a Clear to Send (CTS) frame to acknowledge the right to begin transmission. The default is 2347.

**Beacon Interval:** The Beacon Interval value indicates the frequency interval of the beacon. Enter a value between 20 and 1024. A beacon is a packet broadcast by the ADSL modem (or AP) to synchronize the wireless network. The default is 100.

**Data Rate:** The rate of data transmission should be set depending on the speed of your wireless network. You should select from a range of transmission speeds, or you can select Auto to have the WLAN ADSL Router automatically use the fastest possible data rate and enable the Auto-Fallback feature. Auto-Fallback will negotiate the best possible connection speed between the AP and a wireless client. The default setting is Auto.

**Preamble Type:** The Preamble Type defines the length of the CRC (Cyclic Redundancy Check) block for communication between the AP and mobile wireless stations. Make sure to select the appropriate preamble type. Note that high network traffic areas should use the short preamble type. CRC is a common technique for detecting data transmission errors.

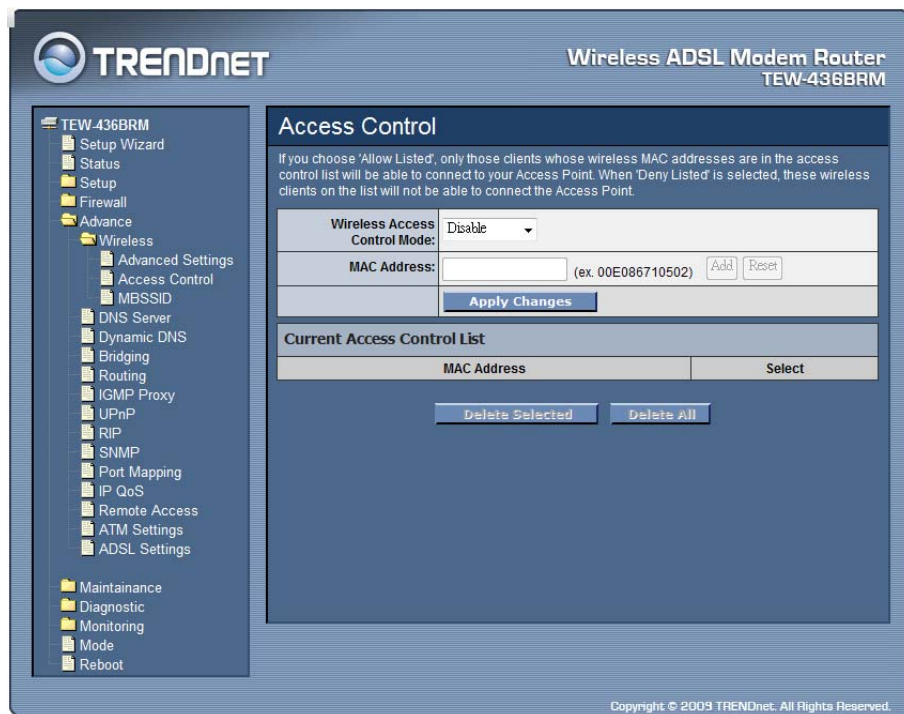
**Broadcast SSID:** Select to enable or disable the Broadcast SSID feature. If this option is enabled, the device will automatically transmit their network name (SSID) into open air at regular interval. This feature is intended to allow clients to dynamically discover and roam between WLANs; if this option is disabled, the device will hide its SSID. When this is done, the station cannot directly discover its WLAN and MUST be configured with the SSID. Note that in a home Wi-Fi network, roaming is largely unnecessary and the SSID broadcast feature serves no useful purpose. You should disable this feature to improve the security of your WLAN.

**Relay Blocking:** Select to enable or disable the Relay Blocking feature. When Relay Blocking is enabled, wireless clients will not be able to directly access other wireless clients.

**WMM support:** Select to enable or disable the WMM (Wi-Fi Multimedia) QoS feature.

## Access Control

This feature allows administrator to have access control by enter MAC address of client stations. When Enable this function, MAC address can be added into access control list and only those clients whose wireless MAC address are in the access control list will be able to connect to your WLAN ADSL Router.



### **Wireless Access Control Mode:**

**Disable:** Disable the wireless ACL feature;

**Allow Listed:** When this option is selected, no wireless clients except those whose MAC addresses are in the current access control list will be able to connect (to this device);

**Deny Listed:** When this option is selected, all wireless clients except those whose MAC addresses are in the current access control list will be able to connect (to this device).

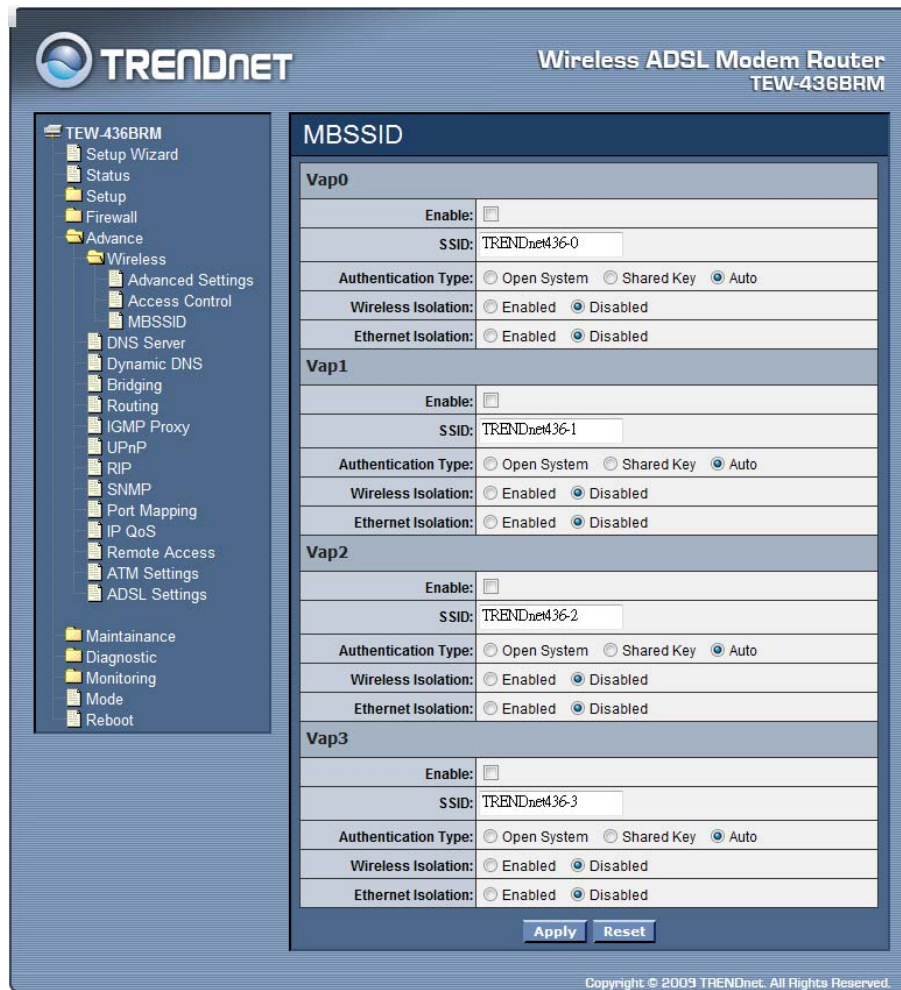
**MAC Address:** Enter client MAC address and click “Add” button to add client MAC address into current access control list.

**Delete Selected:** Click the “Delete Selected” button to delete the selected rule from Current Access Control List.

**Delete All:** Click the “Delete All” button to delete the all of rule in the Current Access Control List.

## **MBSSID**

The WLAN ADSL Router supports up to four virtual AP (Vap0~Vap3) setting allows wireless users connect up to the WLAN ADSL Router through up to four different WLAN SSID and security settings.



**Enable:** Enable or disable the Vap (Virtual AP) setting.

**SSID:** Type an SSID in the text box. The SSID of any wireless device must match the SSID typed here in order for the wireless device to access the LAN and WAN via the WLAN ADSL Router.

**Authentication Type: Open System:** Open System authentication is not required to be successful while a client may decline to authenticate with any particular other client. **Shared Key:** Shared Key is only available if the WEP option is implemented. Shared Key authentication supports authentication of clients as either a member of those who know a shared secret key or a member of those who



do not. IEEE 802.11 Shared Key authentication accomplishes this without the need to transmit the secret key in clear. Requiring the use of the WEP privacy mechanism. **Auto:** Auto is the default authentication algorithm. It will change its authentication type automatically to fulfill client's requirement.

**Wireless Isolation:** Select to enable or disable the Wireless Isolation feature. When Wireless Isolation is enabled, wireless clients will not be able to access to the other wireless clients.

**Ethernet Isolation:** Select to enable or disable the Ethernet Isolation feature. When Ethernet Isolation is enabled, wireless clients will not be able to access to the Ethernet clients.

---

## Dynamic DNS

---

Each time your device connects to the Internet, your ISP assigns a different IP address to your device. In order for you or other users to access your device from the WAN-side, you need to manually track the IP that is currently used. The Dynamic DNS feature allows you to register your device with a DNS server and access your device each time using the same host name. The Dynamic DNS page allows you to enable/disable the Dynamic DNS feature.

**TRENDnet** Wireless ADSL Modem Router TEW-436BRM

**TEW-436BRM**

- Setup Wizard
- Status
- Setup
- Firewall
- Advance
  - Wireless
  - Dynamic DNS**
  - Bridging
  - Routing
  - IGMP Proxy
  - UPnP
  - RIP
  - SNMP
  - Port Mapping
  - IP QoS
  - Remote Access
  - ATM Settings
  - ADSL Settings
  - Others
- Maintenance
  - Diagnostic
  - Monitoring
  - Mode
  - Reboot

**DDNS**

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

**Enable:** ☒

**DDNS provider:** DynDNS.org

**Hostname:**

**DynDns Settings:** Username:  Password:

**TZO Settings:** Email:  Key:

**Dynamic DDNS Table:**

Select	state	Hostname	Username	Service

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**Enable:** Checked to enable this registration account for the DNS server.

**DDNS Provider:** There are two DDNS providers to be selected in order to register your device with: DynDNS and TZO. A charge may occur depends on the service you select.

**Hostname:** Domain name to be registered with the DDNS server.

**DynDns Settings:** Enter the username and password for your registered DynDNS account.

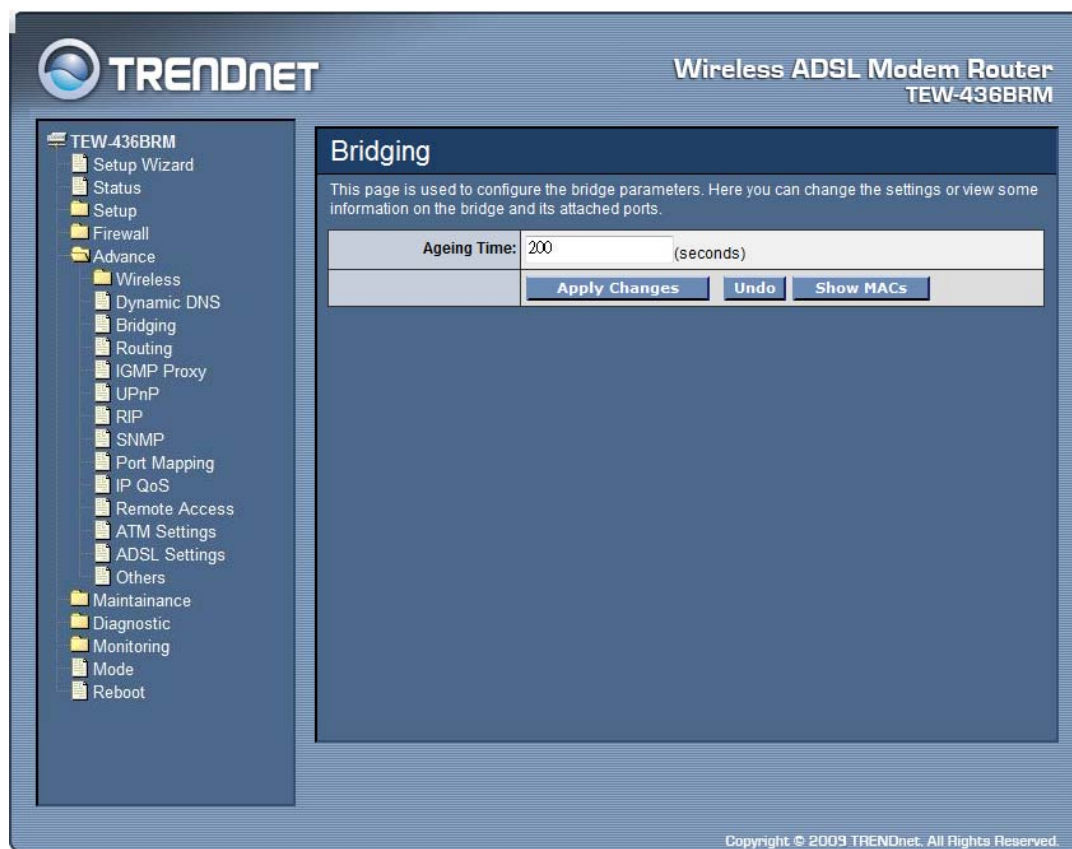
**TZO Settings:** Enter the email address and key for your registered TZO account.

---

## Bridging

---

This page is used to configure the bridge parameters. Here you can change the settings or view some information on the bridge and its attached ports.



**Ageing Time:** Set the Ethernet address ageing time, in seconds. After [Ageing Time] seconds of not having seen a frame coming from a certain address, the bridge will time out (delete) that address from Forwarding DataBase (fdb).

**Show MACs:** Click the “Show MACs” button to list MAC address in forwarding DataBase(fdb).

Bridge FDB Table			
This table shows a list of learned MAC addresses for this bridge.			
Port No	MAC Address	Is Local?	Ageing Timer
1	00-13-a9-f2-8f-7a	no	0.00
1	00-18-e7-5c-3c-4a	yes	---
<div>RefreshClose</div>			



---

## Routing

---

The Routing page enables you to define specific route for your Internet and network data. Most users do not need to define routes. On a typical small home or office LAN, the existing routes that set up the default gateways for your LAN hosts and for the WLAN ADSL Router provide the most appropriate path for all your Internet traffic.

- On your LAN hosts, a default gateway directs all Internet traffic to the LAN port(s) on the WLAN ADSL Router. Your LAN hosts know their default gateway either because you assigned it to them when you modified your TCP/IP properties, or because you configured them to receive the information dynamically from a server whenever they access the Internet.
- On the WLAN ADSL Router itself, a default gateway is defined to direct all outbound Internet traffic to a route at your ISP. The default gateway is assigned either automatically by your ISP whenever the device negotiates an Internet access, or manually by user to setup through the configuration.

You may need to define routes if your home setup includes two or more networks or subnets, if you connect to two or more ISP services, or if you connect to a remote corporate LAN.

**Enable:** Checked to enable the selected route or route to be added.

**Destination:** The network IP address of the subnet. The destination can be specified as the IP address of a subnet or a specific host in the subnet. It can also be

specified as all zeros to indicate that this route should be used for all destinations for which no other route is defined (this is the route that creates the default gateway).

**Subnet Mask:** The network mask of the destination subnet. The default gateway uses a mask of 0.0.0.0.

**Next Hop:** The IP address of the next hop through which traffic will flow towards the destination subnet.

**Metric:** Defines the number of hops between network nodes that data packets travel. The default value is 0, which means that the subnet is directly one hop away on the local LAN network.

**Interface:** The WAN interface to which a static routing subnet is to be applied.

**Add Router:** Click the “Add Router” button to add a user-defined destination route.

**Update:** Click the “Update” button to modify the selected rule form the Static Route Table.

**Show Routes:** Click the “Show Routes” to display the routing table of the WLAN ADSL Router.

Routing Table				
This table shows a list of destination routes commonly accessed by your network.				
Destination	Subnet Mask	NextHop	Metric	Interface
192.168.100.0	255.255.255.0	192.168.10.1	10	br0
127.0.0.0	255.255.255.0	*	0	lo
192.168.10.0	255.255.255.0	*	0	br0
<div>RefreshClose</div>				

---

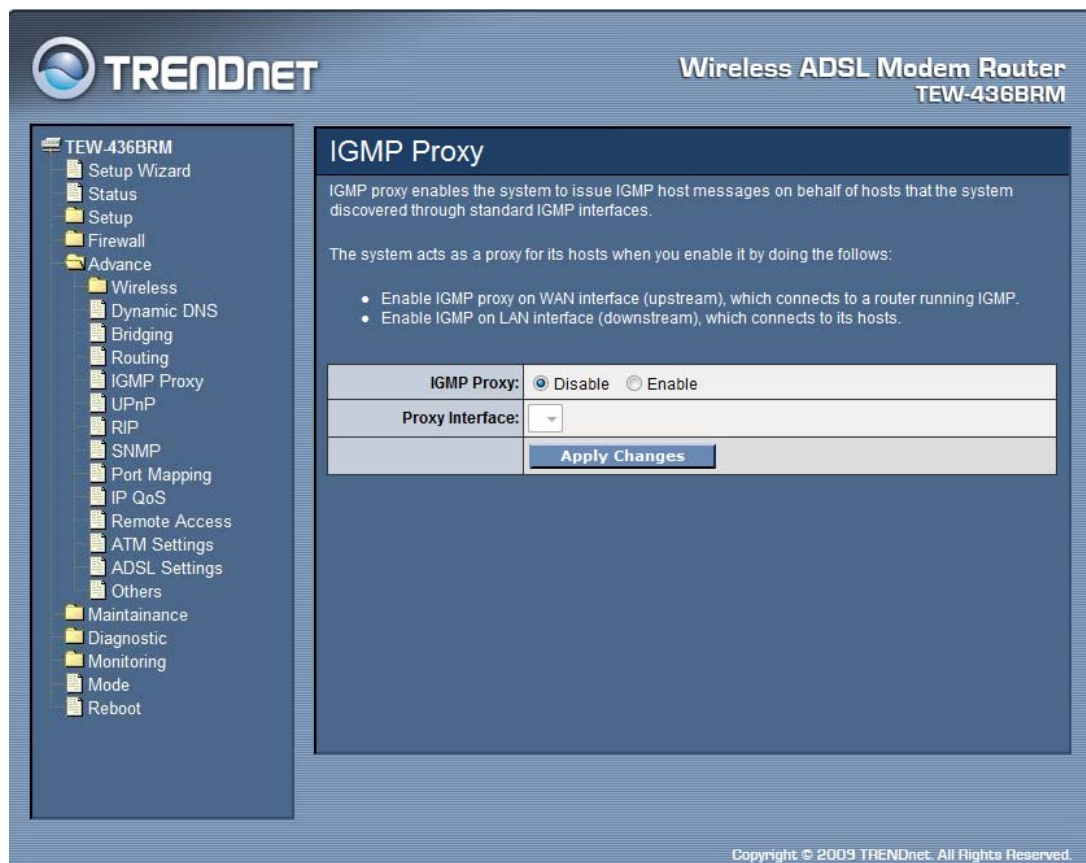
## IGMP Proxy

---

IGMP proxy enables the system to issue IGMP host messages on behalf of hosts that the system discovered through standard IGMP interfaces.

The system acts as a proxy for its hosts when you enable it by doing the follows:

- Enable IGMP proxy on WAN interface (upstream), which connects to a router running IGMP.
- Enable IGMP on LAN interface (downstream), which connects to its hosts.



**IGMP Proxy:** Select to enable or disable the IGMP proxy feature on the WLAN ADSL Router.

**Proxy Interface:** The upstream WAN interface is selected here.

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## UPnP

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The WLAN ADSL Router supports a control point for Universal Plug and Play (UPnP) version 1.0, and supports two key features: NAT Traversal and Device Identification. This feature requires one active WAN interface. In addition, the host should support this feature. In the presence of multiple WAN interfaces, select an interface on which the incoming traffic is present. With NAT Traversal, when an UPnP command is received to open ports in NAT, the application translates the request into system commands to open the ports in NAT and the firewall. The interface to open the ports on is given to UPnP when it starts up and is part of the

configuration of the application. For Device Identification, the application will send a description of the WLAN ADSL Router as a control point back to the host making the request.

The screenshot shows the configuration page for UPnP on a TRENDnet Wireless ADSL Modem Router (TEW-436BRM). The left sidebar contains a navigation menu with options like Setup Wizard, Status, Setup, Firewall, Advance, Wireless, Dynamic DNS, Bridging, Routing, IGMP Proxy, UPnP, RIP, SNMP, Port Mapping, IP QoS, Remote Access, ATM Settings, ADSL Settings, Others, Maintenance, Diagnostic, Monitoring, Mode, and Reboot. The main content area is titled 'UPnP' and includes a description: 'This page is used to configure UPnP. The system acts as a daemon when you enable it and select WAN interface (upstream) that will use UPnP.' Below this, there are two radio buttons for 'UPnP': 'Disable' (selected) and 'Enable'. A 'WAN Interface' dropdown menu is set to 'ppp0'. An 'Apply Changes' button is at the bottom right of the form.

**UPnP:** Select to enable or disable the UPnP feature on the WLAN ADSL Router.

**WAN Interface:** Select WAN interface that will use UPnP from the drop-down lists.

---

## RIP

---

Enable the RIP if you are using this device as a RIP-enabled router to communicate with others using the Routing Information Protocol. This page is used to select the interfaces on your device is that use RIP, and the version of the protocol used.

The screenshot shows the configuration page for RIP on a TRENDnet Wireless ADSL Modem Router (TEW-436BRM). The left sidebar is identical to the previous screenshot. The main content area is titled 'RIP' and includes a description: 'Enable the RIP if you are using this device as a RIP-enabled router to communicate with others using the Routing Information Protocol. This page is used to select the interfaces on your device is that use RIP, and the version of the protocol used.' Below this, there are two radio buttons for 'RIP': 'Disable' (selected) and 'Enable'. An 'Apply Changes' button is at the bottom right of the form. Below the form, there is a table titled 'RIP Config Table' with columns: Select, Interface, Receive Mode, and Send Mode. The table is currently empty. Below the table are two buttons: 'Delete Selected' and 'Delete All'. The footer of the page reads 'Copyright © 2009 TRENDnet. All Rights Reserved.'

**RIP:** Select to enable or disable the RIP feature on the WLAN ADSL Router.

**Receive Mode:** Select which RIP version to be used for RIP listening, RIP1, RIP2 or Both (RIP1+RIP2), Selected None to disable the RIP listening.

**Send Mode:** Select which RIP version to be used for RIP sending, RIP1, RIP2 or Both (RIP1+RIP2), Selected None to disable the RIP sending.

**Delete Selected:** Click the “Delete Selected” button to delete the selected RIP config from RIP Config Table.

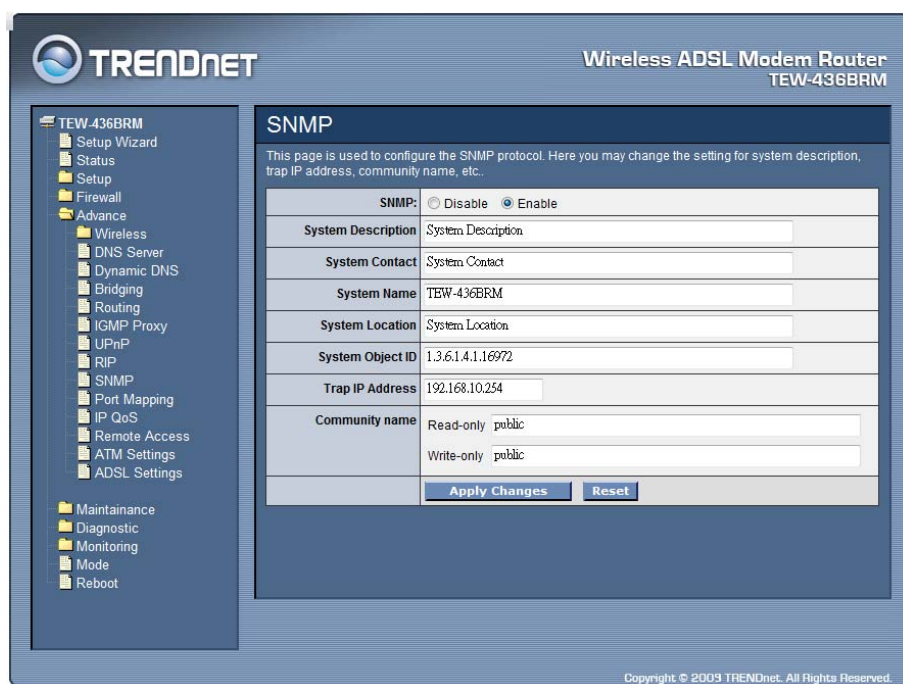
**Delete All:** Click the “Delete All” button to delete the all of rule in the RIP config from RIP Config Table.

---

## SNMP

---

Simple Network Management Protocol (SNMP) is a troubleshooting and management protocol that uses the UDP protocol on port 161 to communicate between clients and servers. The DSL device can be managed locally or remotely by SNMP protocol.



The screenshot shows the configuration interface for a TrendNet Wireless ADSL Modem Router (TEW-436BRM). The left sidebar contains a tree view of configuration options: TEW-436BRM, Setup Wizard, Status, Setup, Firewall, Advance, Wireless, DNS Server, Dynamic DNS, Bridging, Routing, IGMP Proxy, UPnP, RIP, SNMP, Port Mapping, IP QoS, Remote Access, ATM Settings, ADSL Settings, Maintenance, Diagnostic, Monitoring, Mode, and Reboot. The main content area is titled 'SNMP' and includes a description: 'This page is used to configure the SNMP protocol. Here you may change the setting for system description, trap IP address, community name, etc..'. Below this is a form with the following fields: 'SNMP' (radio buttons for Disable and Enable, with Enable selected), 'System Description' (text field), 'System Contact' (text field), 'System Name' (text field, containing 'TEW-436BRM'), 'System Location' (text field), 'System Object ID' (text field, containing '1.3.6.1.4.1.16972'), 'Trap IP Address' (text field, containing '192.168.10.254'), and 'Community name' (two text fields for Read-only and Write-only, both containing 'public'). At the bottom of the form are 'Apply Changes' and 'Reset' buttons. The footer of the page reads 'Copyright © 2009 TRENDnet. All Rights Reserved.'

**SNMP:** Enable or Disable the SNMP feature on the WLAN ADSL Router.

**System Description:** System description of the WLAN ADSL Router.

**System Contact:** Contact person and/or contact information for the WLAN ADSL Router.

**System Name:** An administratively assigned name for the WLAN ADSL Router.

**System Location:** The physical location of the WLAN ADSL Router.

**System Object ID:** Vendor Object Identifier. The vendor's authoritative identification of the network management subsystem contained in the entity.



**Trap IP Address:** Destination IP address of the SNMP trap.

**Community name:**

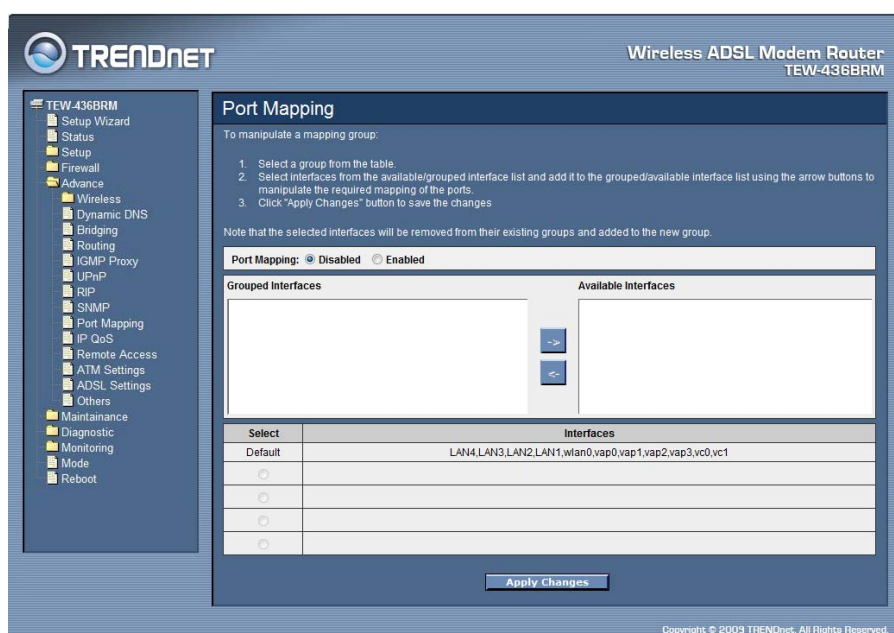
**Read-only:** Name of the read-only community. This read-only community allows read operation to all objects in the MIB.

**Write-only:** Name of the write-only community. This write-only community allows write operation to the objects defines as read-writable in the MIB.

---

## Port Mapping

The WLAN ADSL Router provides multiple interface groups. Up to five interface groups are supported including one default group. The LAN and WAN interfaces could be included. Traffic coming from one interface of a group can only be flowed to the interfaces in the same interface group. Thus, the WLAN ADSL Router can isolate traffic from group to group for some application. By default, all the interfaces (LAN and WAN) belong to the default group, and the other four groups are all empty. It is possible to assign any interface to any group but only one group.



**Port Mapping:** Select to enable or disable the interface group feature. If disabled, all interfaces belong to the default group.

## Interface Group

To manipulate a mapping group:

1. Select a group from the table.
2. Select interfaces from the available/grouped interface list and add it to the grouped/available interface list using the arrow buttons to manipulate the required mapping of the ports.
3. Click “Apply Changes” button to save the changes.

---

## IP QoS

---

The WLAN ADSL Router provides a control mechanism that can provide different priority to different users or data flows. The QoS is enforced by the QoS rules in the QoS table. A QoS rule contains two configuration blocks: Traffic Classification and Action. The Traffic Classification enables you to classify packets on the basis of various fields in the packet and perhaps the physical ingress port. The Action enables you to assign the strictly priority level for and mark some fields in the packet that matches the Traffic Classification rule. You can configure any or all field as needed in these two QoS blocks for a QoS rule.

**TRENDnet** Wireless ADSL Modem Router  
TEW-436BRM

**IP QoS**

Entries in this table are used to assign the precedence for each incoming packet based on physical LAN port, TCP/UDP port number, and source/destination IP address/subnet masks.

IP QoS: ☒ Disabled ☐ Enabled

Default QoS: IP Pred

Apply Changes

**Specify Traffic Classification Rules**

Source: IP Address: Netmask: Port:

Destination: IP Address: Netmask: Port:

Protocol: Physical Port:

**Assign Priority and/or IP Precedence and/or Type of Service and/or DSCP**

Outbound Priority: p3(lowest)

802.1p: Precedence: TOS:

Add

**IP QoS Rules**

Select	Status	Traffic Classification Rules					Mark			
		Src IP	Src Port	Dst IP	Dst Port	Protocol	Lan Port	Priority	IP Preced	IP ToS

Delete Selected Delete All

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**IP QoS:** Select to enable or disable the IP QoS function.

**Default QoS:** Select the QoS method IP Pred or 802.1p from list.

**Source:** The IP address, subnet mask and port number of the traffic source.

**Destination:** The IP address, subnet mask and port number of the traffic destination.

**Protocol:** The selections are TCP, UDP, ICMP and the blank for none. This field is required if the source port or destination port has been entered.

**Physical Port:** The incoming ports. The selections include LAN ports, wireless port, and the blank for not applicable.



**Outbound Priority:** The priority level for the traffic that matches this classification rule. The possible selections are (in the descending priority): p0, p1, p2, p3.

**802.1p:** Select this field to mark the 3-bit user-priority field in the 802.1p header of the packet that match this classification rule. Note that this 802.1p marking is workable on a given PVC channel only if the VLAN tag is enabled in this PVC channel.

**Precedence:** Select this field to mark the IP precedence bits in the packet that match this classification rule.

**TOS:** Select this field to mark the IP TOS bits in the packet that match this classification rule.

**Add:** Click to add the QoS rule to the UP QoS Rules.

**Delete Selected:** Click the “Delete Selected” button to delete the selected QoS rule from the IP QoS Rules.

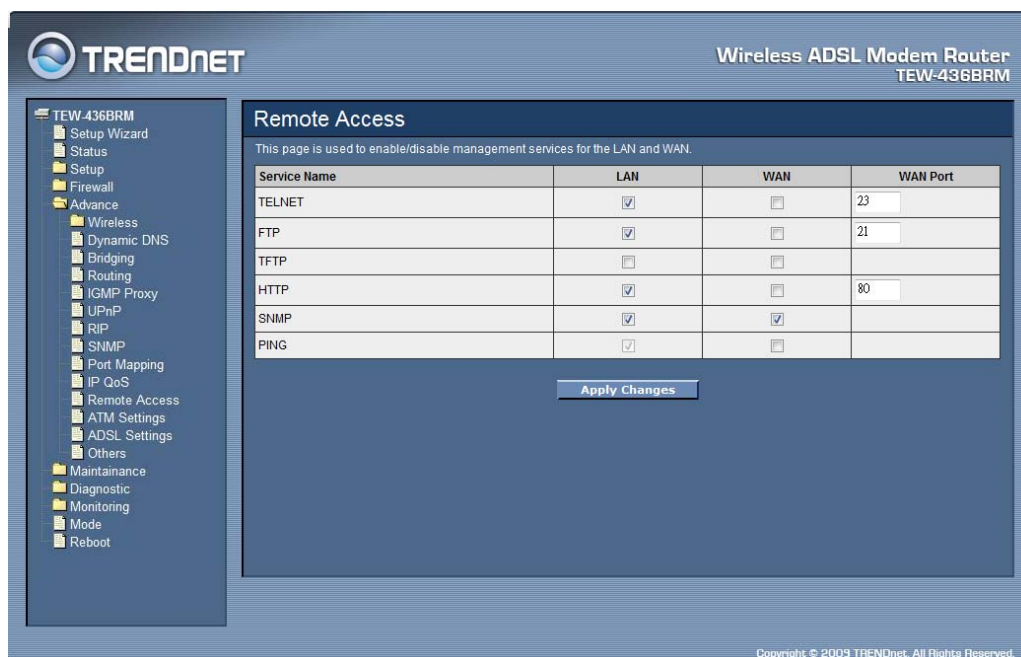
**Delete All:** Click the “Delete All” button to delete the all of rule in the IP QoS Rules.

---

## Remote Access

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The Remote Access function can secure remote host access to your DSL device from LAN and WLAN interfaces for some services provided by the DSL device.



**LAN:** Checked the services on the LAN column to allows the services access from LAN side.

**WAN:** Checked the services on the WAN column to allows the services access from WAN side.

**WAN Port:** This field allows the user to specify the port of the corresponding service. Take the HTTP service for example; when it is changed to 8080, the HTTP server address for the WAN side is `http://dsl_addr:8080`, where the `dsl_addr` is the WAN side IP address of the WLAN ADSL Router.

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## ATM Settings

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This page is used to configure the parameters for the ATM of your ADSL Router. Here you may change the setting for VPI, VCI, QoS etc.

**TRENDNET** Wireless ADSL Modem Router TEW-436BRM

**ATM Settings**

This page is used to configure the parameters for the ATM of your ADSL Router. Here you may change the setting for VPI, VCI, QoS etc.

VPI:

VCI:

QoS:

PCR:

CDVT:

SCR:

MBS:

**Current ATM VC Table**

Select	VPI	VCI	QoS	PCR	CDVT	SCR	MBS
<input type="radio"/>	5	35	UBR	6000	0	---	---
<input type="radio"/>	0	32	UBR	6000	0	---	---

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**VPI:** Virtual Path Identifier. This is read-only field and is selected on the Select column in the Current ATM VC Table.

**VCI:** Virtual Channel Identifier. This is read-only field and is selected on the Select column in the Current ATM VC Table. The VCI, together with VPI, is used to identify the next destination of a cell as it passes through to the ATM switch.

**QoS:** Quality of Server, a characteristic of data transmission that measures how accurately and how quickly a message or data is transferred from a source host to a destination host over a network. The four QoS options are:

- **UBR (Unspecified Bit Rate):** When UBR is selected, the SCR and MBS fields are disabled.
- **CBR (Constant Bit Rate):** When CBR is selected, the SCR and MBS fields are disabled.

- **nrt-VBR (non-real-time Variable Bit Rate):** When nrt-VBR is selected, the SCR and MBS fields are enabled.
- **rt-VBR (real-time Variable Bit Rate):** When rt-VBR is selected, the SCR and MBS fields are enabled.

**PCR:** Peak Cell Rate, measured in cells/sec., is the cell rate which the source may never exceed.

**CDVT:** Cell Delay Variation Tolerance, is a QoS parameter in ATM network for managing traffic that is specified when a connection is set up. In CBR transmissions, CDVT determines the level of jitter that is tolerable for the data samples taken by the PCR.

**SCR:** Sustained Cell Rate, measured in cells/sec., is the average cell rate over the duration of the connection.

**MBS:** Maximum Burst Size, a traffic parameter that specifies the maximum number of cells that can be transmitted at the peak cell rate.

**Apply Changes:** Click to set new PVC QoS mode for the selected PVC. New parameters will take effect after save into flash memory and reboot the system.

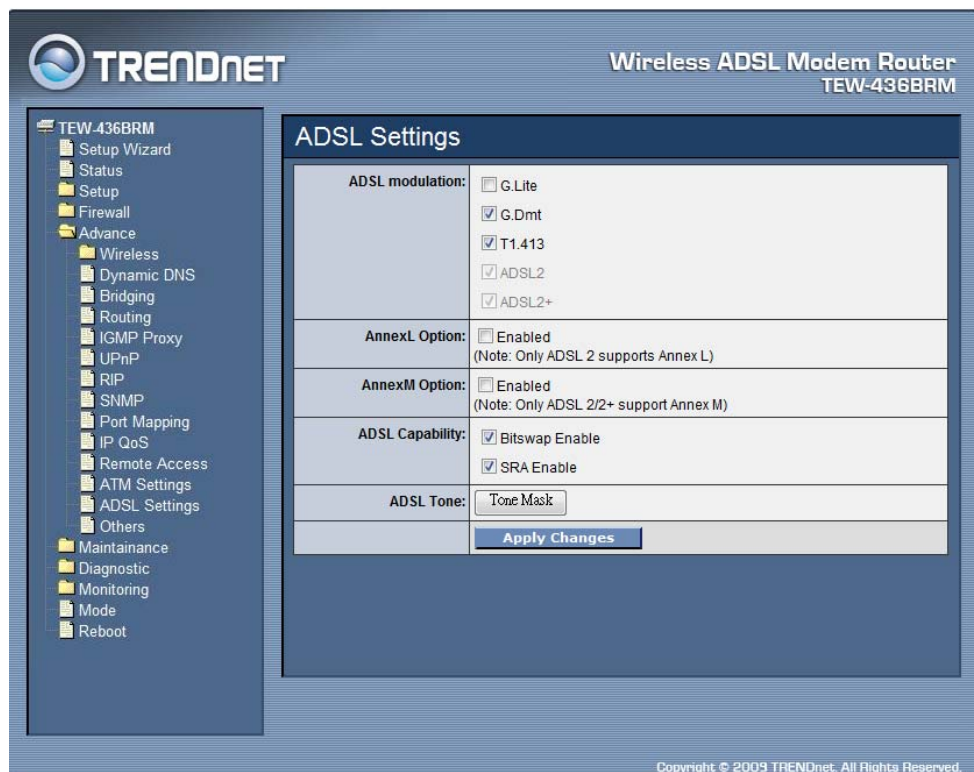
**Undo:** Discard your settings.

---

## ADSL Settings

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The ADSL setting page allows you to select any combination of DSL training modes.



**TRENDnet** Wireless ADSL Modem Router TEW-436BRM

**ADSL Settings**

<b>ADSL modulation:</b>	<input type="checkbox"/> G.Lite <input checked="" type="checkbox"/> G.Dmt <input checked="" type="checkbox"/> T1.413 <input checked="" type="checkbox"/> ADSL2 <input checked="" type="checkbox"/> ADSL2+
<b>AnnexL Option:</b>	<input type="checkbox"/> Enabled <small>(Note: Only ADSL 2 supports Annex L)</small>
<b>AnnexM Option:</b>	<input type="checkbox"/> Enabled <small>(Note: Only ADSL 2/2+ support Annex M)</small>
<b>ADSL Capability:</b>	<input checked="" type="checkbox"/> Bitswap Enable <input checked="" type="checkbox"/> SRA Enable
<b>ADSL Tone:</b>	Tone Mask
<b>Apply Changes</b>	

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**ADSL modulation:** Choose preferred xDSL standard protocols, defined by ISP.

**G.lite:** G.992.2 Annex A

**G.dmt:** G.992.1 Annex A

**T1.413:** T1.413 issue #2

**ADSL2:** G.992.3 Annex A

**ADSL2+:** G.992.5 Annex A

**AnnexL Option:** Checked to Enable the ADSL2/ADSL2+ Annex L capability.

**AnnexM Option:** Checked to Enable the ADSL2/ADSL2+ Annex M capability.

**ADSL Capability:** Checked to enable the bitswap capability or SRA capability.

**ADSL Tone:** Click the “ADSL Tone” button to choose tones to be masked.  
Masked tones will not carry any data.

This page let user to mark the designate tones to be masked.

Tone Number	Select
0	<input type="checkbox"/>
1	<input type="checkbox"/>
2	<input type="checkbox"/>
3	<input type="checkbox"/>
4	<input type="checkbox"/>
5	<input type="checkbox"/>
6	<input type="checkbox"/>
7	<input type="checkbox"/>
8	<input type="checkbox"/>
9	<input type="checkbox"/>
10	<input type="checkbox"/>
11	<input type="checkbox"/>

:

500	<input type="checkbox"/>
507	<input type="checkbox"/>
508	<input type="checkbox"/>
509	<input type="checkbox"/>
510	<input type="checkbox"/>
511	<input type="checkbox"/>

..

**Apply Changes:** Click to save the setting to the configuration and the modem will be retrained.

---

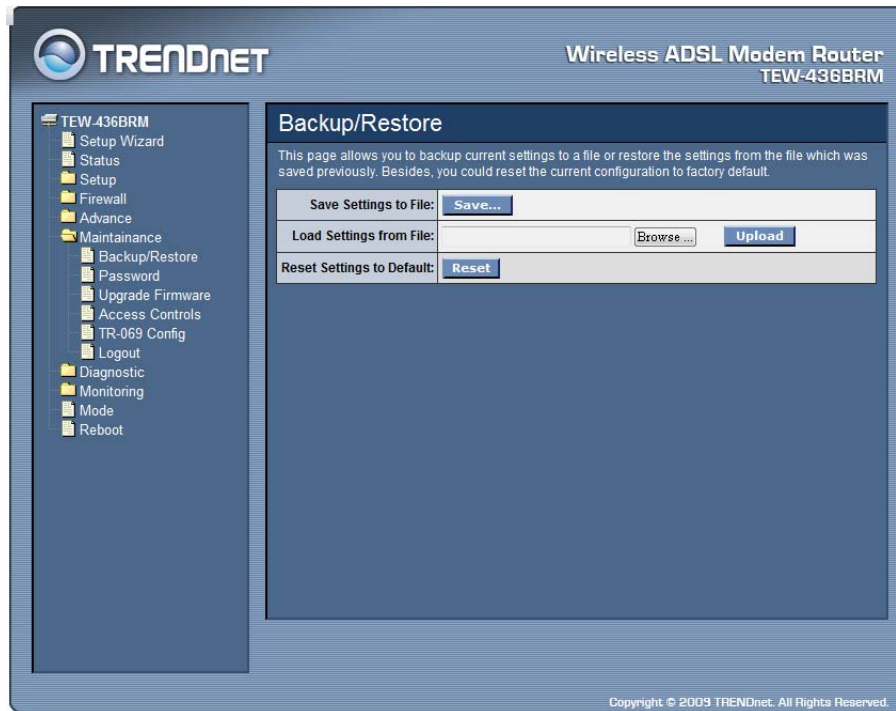
## Maintainance

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### Backup/Restore

---

This page allows you to backup current settings to a file or restore the settings from the file which was saved previously. Besides, you could reset the current configuration to factory default.



**Save Setting to File:** Click the “Save Setting to File” button to save current settings of the WLAN ADSL Router to local computer.

**Load Setting from File:** Click the “Browse” button and selected a saved setting file from file browse window then click “Upload” button to loading the saved setting to the WLAN ADSL Router.

**Reset Settings to Default:** Click the “Reset” button to reset the settings to factory default settings.

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### Password

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The first time you log into the WLAN ADSL Router, you use the default password. There are two-level logins: *admin* and *user*. The admin and user password configuration allows you to change the password for administrator and user.

**TRENDnet** Wireless ADSL Modem Router  
TEW-436BRM

TEW-436BRM

- Setup Wizard
- Status
- Setup
- Firewall
- Advance
- Maintenance
  - Backup/Restore
  - Password
  - Upgrade Firmware
  - Access Controls
  - TR-069 Config
  - Logout
- Diagnostic
- Monitoring
- Mode
- Reboot

### Password

This page is used to set the account to access the web server of ADSL Router. Empty user name and password will disable the protection.

User Name:	admin ▼
Old Password:	<input type="password"/>
New Password:	<input type="password"/>
Confirmed Password:	<input type="password"/>
<input type="button" value="Apply Changes"/> <input type="button" value="Reset"/>	

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**User Name:** Selection of user levels are: admin and user.

**Old Password:** Enter the old password for this selected login.

**New Password:** Enter the new password here.

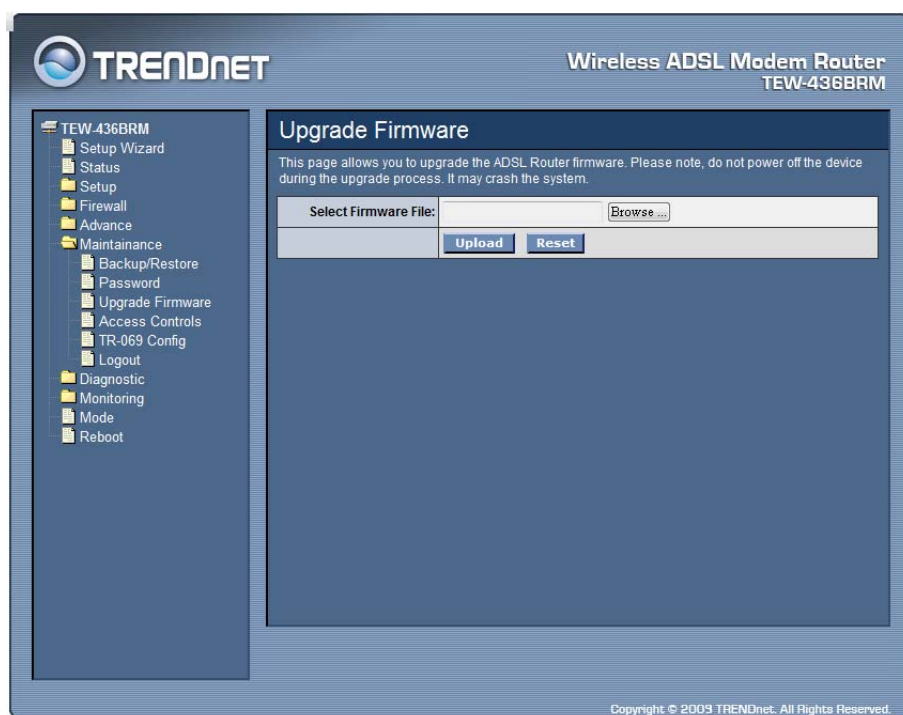
**Confirmed Password:** Enter the new password here again to confirm.

---

## Upgrade Firmware

---

This page allows you to upgrade the WLAN ADSL Router firmware. Please note, do not power off the device during the upgrade process. It may crash the system.



To upgrade the firmware for the DSL device:

- Click the Browse button to select the firmware file.
- Confirm your selection.
- Click the Upload button to start upgrading.

**IMPORTANT! Do not turn off your DSL device or click the Reset button while this procedure is in progress.**



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## Access Controls

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The Access Control List (ACL) is a list of permissions attached to the WLAN ADSL Router. The list specifies who is allowed to access this device. If ACL is enabled, all hosts cannot access this device except for the hosts with IP address in the ACL table.

The screenshot shows the web interface of a TRENDnet Wireless ADSL Modem Router (TEW-436BRM). The left sidebar contains a navigation menu with options: Setup Wizard, Status, Setup, Firewall, Advance, Maintenance, Backup/Restore, Password, Upgrade Firmware, Access Controls (selected), TR-069 Config, Logout, Diagnostic, Monitoring, Mode, and Reboot. The main content area is titled 'Access Controls' and includes a description: 'This page is used to configure the IP Address for Access Control List. If ACL is enabled, just these IP address that in the ACL Table can access CPE. Here you can add/delete IP Address.' Below this, there are configuration fields: 'ACL Capability' with radio buttons for 'Disable' and 'Enable' (selected), an 'Apply Changes' button, an 'Enable' checkbox (checked), an 'Interface' dropdown menu set to 'LAN', and text boxes for 'IP Address' and 'Subnet Mask'. There are 'Add' and 'Modify' buttons below these fields. At the bottom, there is an 'ACL Table' section with a table header: 'Select', 'State', 'Interface', and 'IP Address'. Below the header are two buttons: 'Delete Selected' and 'Delete All'. The footer of the interface states 'Copyright © 2009 TRENDnet. All Rights Reserved.'

**ACL Capability:** Enable or Disable the SNMP feature on the WLAN ADSL Router.

**Enable:** Checked to enable the selected route or route to be added.

**Interface:** Select the interface domain: LAN or WAN.

**IP Address:** Enter the IP address that allow access to this device.

**Subnet Mask:** Type the subnet mask in the text box.

**Add:** Click to add the ACL rule to the ACL table.

**Modify:** Click the “Modify” button to modify the selected rule form the ACL Table.

**Delete Selected:** Click the “Delete Selected” button to delete the selected rule from ACL Table.

**Delete All:** Click the “Delete All” button to delete the all of rule in the ACL Table.

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## TR-069 Config

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TR-069 is a protocol for communication between a CPE and Auto-Configuration Server (ACS). The CPE TR-069 configuration should be well defined to be able to communicate with the remote ACS.

**TRENDnet** Wireless ADSL Modem Router  
TEW-436BRM

**TR-069 Config**

This page is used to configure the TR-069 CPE. Here you may change the setting for the ACS's parameters.

TR069: ☐ Disabled ☒ Enabled

**ACS**

URL:

User Name:

Password:

Periodic Inform Enable: ☐ Disabled ☒ Enabled

Periodic Inform Interval:

**Connection Request**

User Name:

Password:

Path:

Port:

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**TR069:** Enable or Disable the TR-069 feature on the WLAN ADSL Router.

### ACS

**URL:** Enter the ACS URL here.

**User Name:** The username the WLAN ADSL Router should use when connecting to the ACS.

**Password:** The password the WLAN ADSL Router should use when connecting to the ACS.

**Periodic Inform Enable:** When this field is enabled, the WLAN ADSL Router will send an Inform RPC to the ACS server at the system startup, and will continue to send it periodically at an interval defined in Periodic Inform Interval field; When this field is disabled, the WLAN ADSL Router will only send Inform RPC to the ACS server once at the system startup.

**Periodic Inform Interval:** Time interval in second to send Inform RPC.

## Connection Request

**User Name:** The username the remote ACS should use when connecting to this device.

**Password:** The password the remote ACS should use when connecting to this device.

**Path:** The path of the device ConnectionRequestURL. The device ConnectionRequestURL should be configured based on the Device\_IP, Path and Port as follows: http://Device\_IP:Port/Path.

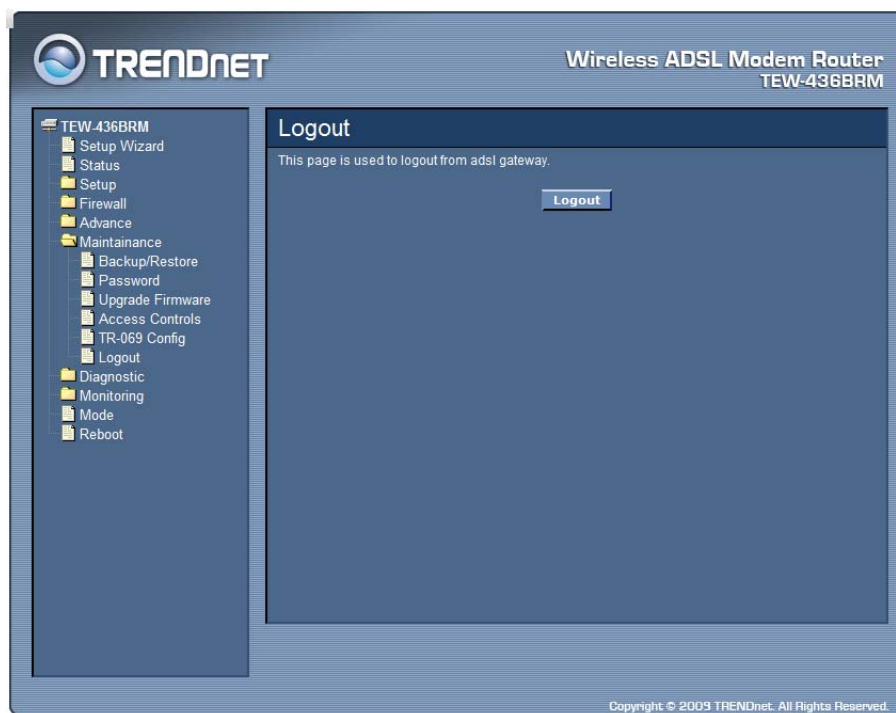
**Port:** The port of the device ConnectionRequestURL.

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## Logout

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This page is used to logout from ADSL gateway.



Click the “Logout” button to logout from the WLAN ADSL Router.

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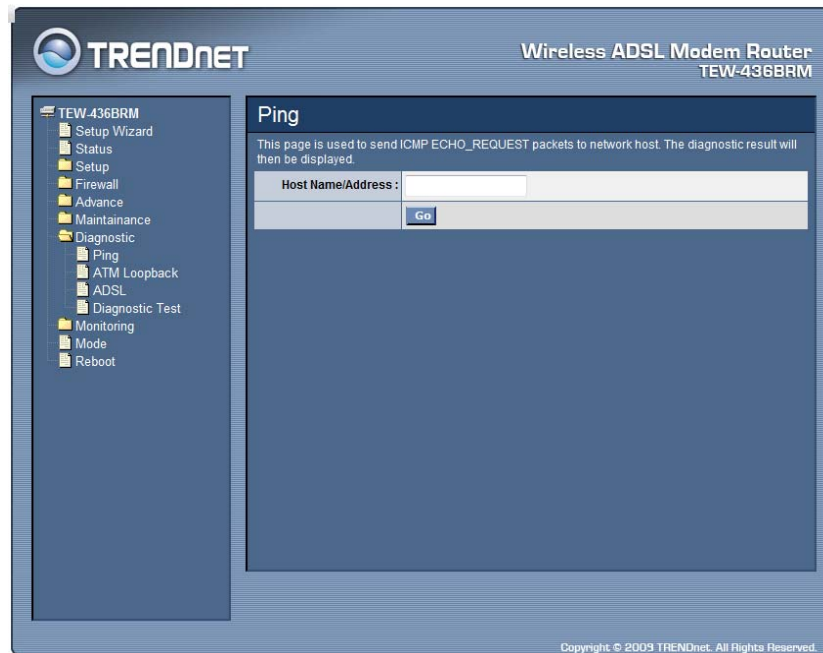
## Diagnostic

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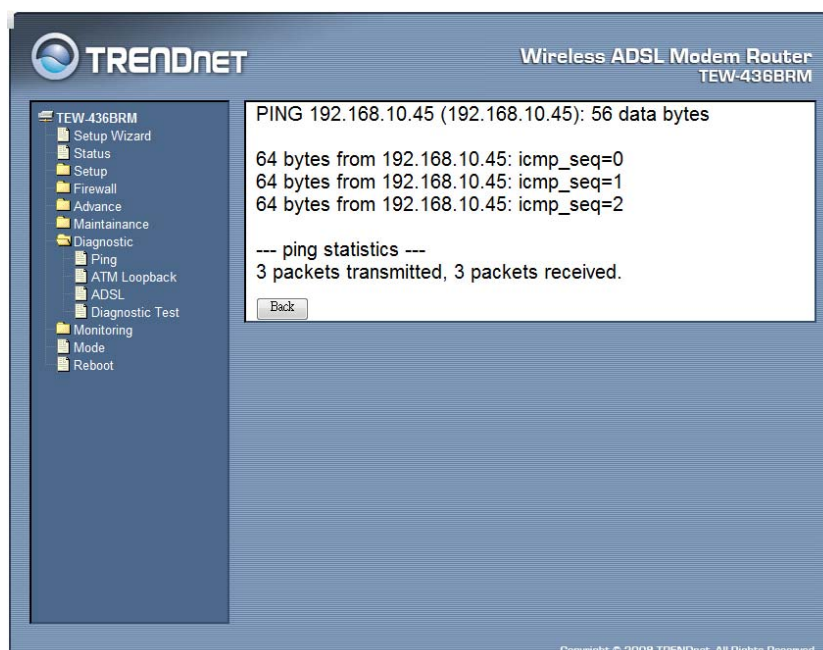
### Ping

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Once you have your WLAN ADSL Router configured, it is a good idea to make sure you can ping the network. A ping command sends a message to the host you specify. If the host receives the message, it sends messages in reply. To use it, you must know the IP address of the host you are trying to communicate with and enter the IP address in the Host Address field. Click “Go” button to start the ping command, the ping result will then be shown in this page.



**Go:** Click “Go” button to start the ping command, the ping result will then be shown in this page.



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## ATM Loopback

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In order to isolate the ATM interface problems, you can use ATM OAM loopback cells to verify connectivity between VP/VC endpoints, as well as segment endpoints within the VP/VC. ATM uses F4 and F5 cell flows as follows:

- **F4:** used in VPs.
- **F5:** used in VCs.

An ATM connection consists of a group of points. This OAM implementation provides management for the following points:

- **Connection endpoint:** the end of a VP/VC connection where the ATM cell are terminated.
- **Segment endpoint:** the end of a connection segment.

This page allows you to use ATM ping, which generates F5 segment and end-to-end loop-back cells to test the reach ability of a segment endpoint or a connection endpoint.

The screenshot shows the TRENDnet web interface for a Wireless ADSL Modem Router (TEW-436BRM). The left sidebar contains a navigation menu with options: Setup Wizard, Status, Setup, Firewall, Advance, Maintenance, Diagnostic (selected), Ping, ATM Loopback (highlighted), ADSL, Diagnostic Test, Monitoring, Mode, and Reboot. The main content area is titled "ATM Loopback" and includes a descriptive text: "Connectivity verification is supported by the use of the OAM loopback capability for both VP and VC connections. This page is used to perform the VCC loopback function to check the connectivity of the VCC." Below this text is a form with the following fields: "Select PVC:" with radio buttons for "5/35" (selected) and "0/32"; "Flow Type:" with radio buttons for "F5 Segment" (selected) and "F5 End-to-End"; and "Loopback Location ID:" with a text input field containing "FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF". A "Go !" button is located at the bottom of the form. The footer of the interface states "Copyright © 2003 TRENDnet. All Rights Reserved."

**Select PVC:** Select the PVC channel you want to do the loop-back diagnostic.

**Flow Type:** The ATM OAM flow type. The selection can be F5 Segment or F5 End-to-End.

**Loopback Location ID:** The loop-back location ID field of the loop-back cell. The default value is all 1s (ones) to indicate the endpoint of the segment or connection.

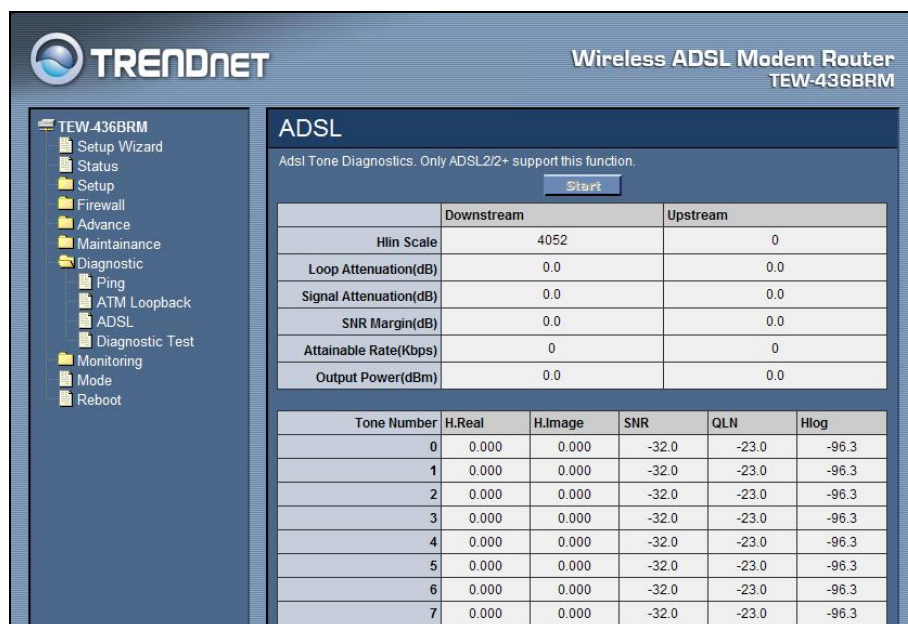


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## ADSL

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This page shows the ADSL diagnostic result. Click “Start” button to start the ADSL diagnostic.

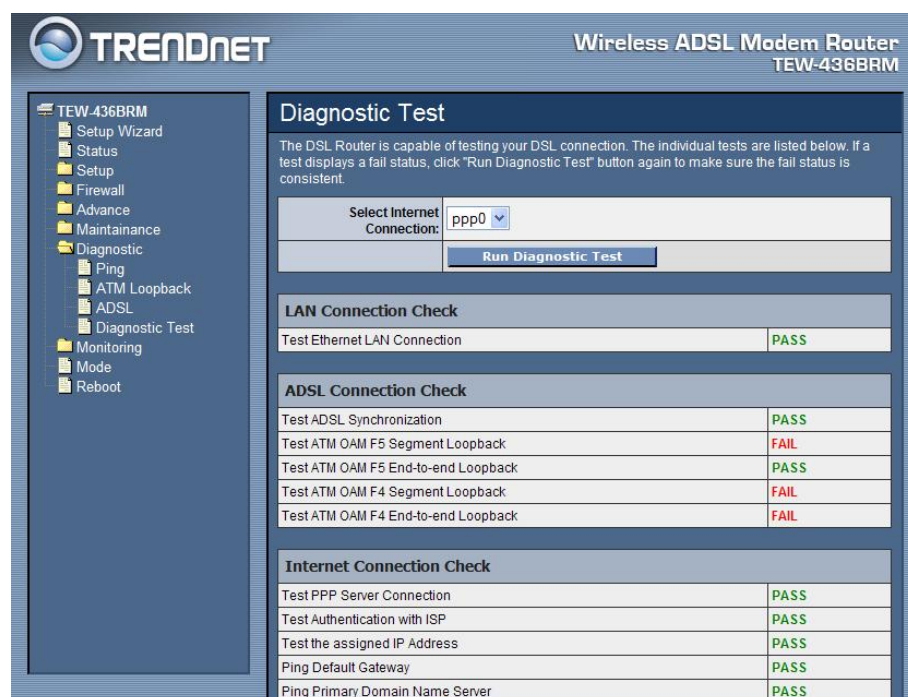


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## Diagnostic Test

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The Diagnostic Test page shows the test results for the connectivity of the physical layer and protocol layer for both LAN and WAN sides.



**Select Internet Connection:** The available WAN side interfaces are listed. You have to select one for the WAN side diagnostic.

**Run Diagnostic Test:** Click the “Run Diagnostic Test” button to start the diagnostic test.

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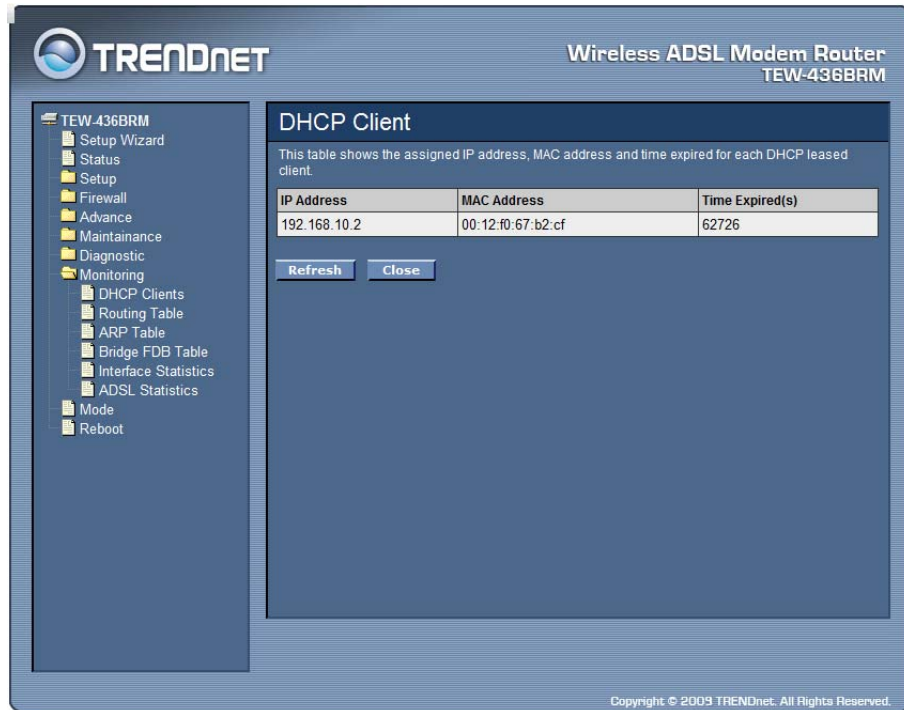
## Monitoring

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### DHCP Clients

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This table shows the assigned IP address, MAC address and time expired for each DHCP leased client.



The screenshot shows the TRENDnet web interface for a Wireless ADSL Modem Router (TEW-436BRM). The left sidebar contains a navigation menu with options like Setup Wizard, Status, Setup, Firewall, Advance, Maintenance, Diagnostic, Monitoring, Mode, and Reboot. The 'Monitoring' section is expanded, showing sub-options including DHCP Clients, Routing Table, ARP Table, Bridge FDB Table, Interface Statistics, and ADSL Statistics. The main content area is titled 'DHCP Client' and includes a description: 'This table shows the assigned IP address, MAC address and time expired for each DHCP leased client.' Below this is a table with three columns: IP Address, MAC Address, and Time Expired(s). The table contains one entry: IP Address 192.168.10.2, MAC Address 00:12:f0:67:b2:cf, and Time Expired(s) 62726. There are 'Refresh' and 'Close' buttons below the table. The footer of the interface states 'Copyright © 2009 TRENDnet. All Rights Reserved.'

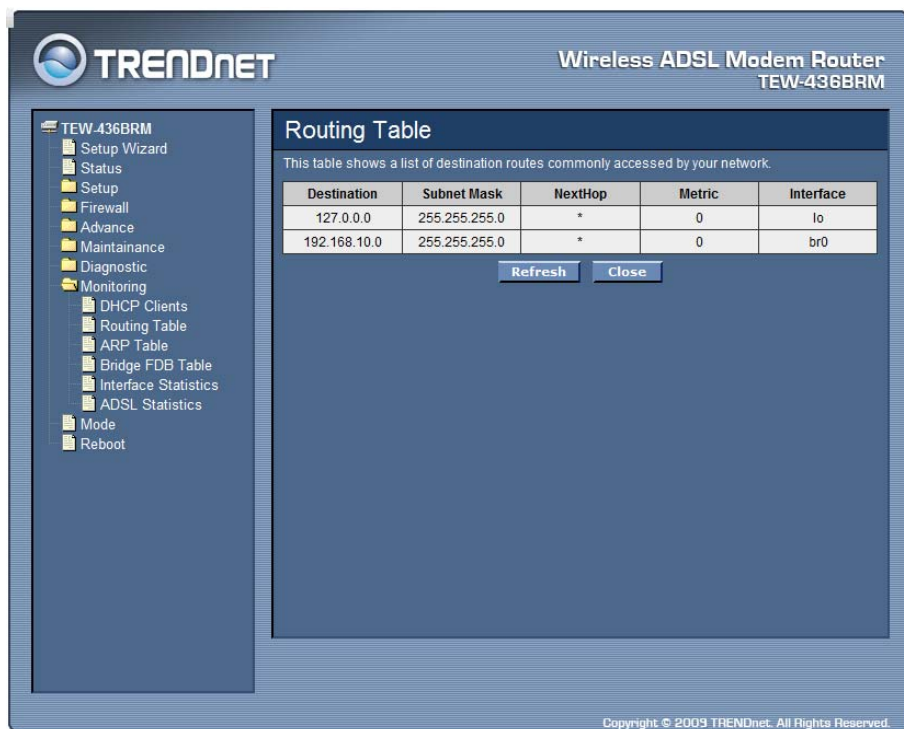
IP Address	MAC Address	Time Expired(s)
192.168.10.2	00:12:f0:67:b2:cf	62726

---

### Routing Table

---

This table shows a list of destination routes commonly accessed by your network.



The screenshot shows the same TRENDnet web interface as above, but with the 'Routing Table' option selected in the navigation menu. The main content area is titled 'Routing Table' and includes a description: 'This table shows a list of destination routes commonly accessed by your network.' Below this is a table with five columns: Destination, Subnet Mask, NextHop, Metric, and Interface. The table contains two entries: Destination 127.0.0.0, Subnet Mask 255.255.255.0, NextHop \*, Metric 0, and Interface lo; and Destination 192.168.10.0, Subnet Mask 255.255.255.0, NextHop \*, Metric 0, and Interface br0. There are 'Refresh' and 'Close' buttons below the table. The footer of the interface states 'Copyright © 2009 TRENDnet. All Rights Reserved.'

Destination	Subnet Mask	NextHop	Metric	Interface
127.0.0.0	255.255.255.0	*	0	lo
192.168.10.0	255.255.255.0	*	0	br0



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## ARP Table

---

This table shows a list of learned MAC addresses.

The screenshot shows the web interface of a TRENDnet Wireless ADSL Modem Router (TEW-436BRM). The left sidebar contains a navigation menu with options: TEW-436BRM, Setup Wizard, Status, Setup, Firewall, Advance, Maintenance, Diagnostic, Monitoring, DHCP Clients, Routing Table, ARP Table, Bridge FDB Table, Interface Statistics, ADSL Statistics, Mode, and Reboot. The main content area is titled "ARP Table" and includes the text "This table shows a list of learned MAC addresses." Below this is a table with two columns: "IP Address" and "MAC Address". The table contains one entry: IP Address 192.168.10.45 and MAC Address 00:13:A9:F2:8F:7A. A "Refresh" button is located below the table. The footer of the interface states "Copyright © 2009 TRENDnet. All Rights Reserved."

IP Address	MAC Address
192.168.10.45	00:13:A9:F2:8F:7A

---

## Bridge FDB Table

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This table shows a list of learned MAC addresses for this bridge.

The screenshot shows the web interface of a TRENDnet Wireless ADSL Modem Router (TEW-436BRM). The left sidebar contains a navigation menu with options: TEW-436BRM, Setup Wizard, Status, Setup, Firewall, Advance, Maintenance, Diagnostic, Monitoring, DHCP Clients, Routing Table, ARP Table, Bridge FDB Table, Interface Statistics, ADSL Statistics, Mode, and Reboot. The main content area is titled "Bridge FDB Table" and includes the text "This table shows a list of learned MAC addresses for this bridge." Below this is a table with four columns: "Port No", "MAC Address", "Is Local?", and "Ageing Timer". The table contains two entries: Port No 1, MAC Address 00-13-a9-f2-8f-7a, Is Local? no, Ageing Timer 0.00; and Port No 1, MAC Address 00-18-e7-5c-3c-4a, Is Local? yes, Ageing Timer ---. Below the table are "Refresh" and "Close" buttons. The footer of the interface states "Copyright © 2009 TRENDnet. All Rights Reserved."

Port No	MAC Address	Is Local?	Ageing Timer
1	00-13-a9-f2-8f-7a	no	0.00
1	00-18-e7-5c-3c-4a	yes	---

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## Interface Statistics

---

This page shows the packet statistics for transmission and reception regarding to network interface.

The screenshot shows the web interface of a TrendNet Wireless ADSL Modem Router (TEW-436BRM). The left sidebar contains a navigation menu with the following items: TEW-436BRM, Setup Wizard, Status, Setup, Firewall, Advance, Maintenance, Diagnostic, Monitoring, DHCP Clients, Routing Table, ARP Table, Bridge FDB Table, Interface Statistics, ADSL Statistics, Mode, and Reboot. The main content area is titled "Interface Statistics" and includes a sub-header: "This page shows the packet statistics for transmission and reception regarding to network interface." Below this is a table with the following data:

Interface	Rx pkt	Rx err	Rx drop	Tx pkt	Tx err	Tx drop
eth0	4853	0	0	4851	0	1
wlan0	6300524	0	0	3311	0	0
5_35	0	0	0	0	0	0
0_32	0	0	0	0	0	0

Below the table is a "Refresh" button. At the bottom right of the interface, there is a copyright notice: "Copyright © 2009 TRENDnet. All Rights Reserved."

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## ADSL Statistics

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This page shows the packet statistics for transmission and reception regarding to the ADSL.

The screenshot shows the web interface of a TrendNet Wireless ADSL Modem Router (TEW-436BRM). The left sidebar contains a navigation menu with the following items: TEW-436BRM, Setup Wizard, Status, Setup, Firewall, Advance, Maintenance, Diagnostic, Monitoring, DHCP Clients, Routing Table, ARP Table, Bridge FDB Table, Interface Statistics, ADSL Statistics, Mode, and Reboot. The main content area is titled "ADSL Statistics" and includes a sub-header: "This page shows the packet statistics for transmission and reception regarding to the ADSL." Below this is a table with the following data:

Mode	G.dmt
Latency	Interleave
Trellis Coding	Enable
Status	SHOWTIME.
Power Level	L0

Below this table is another table with the following data:

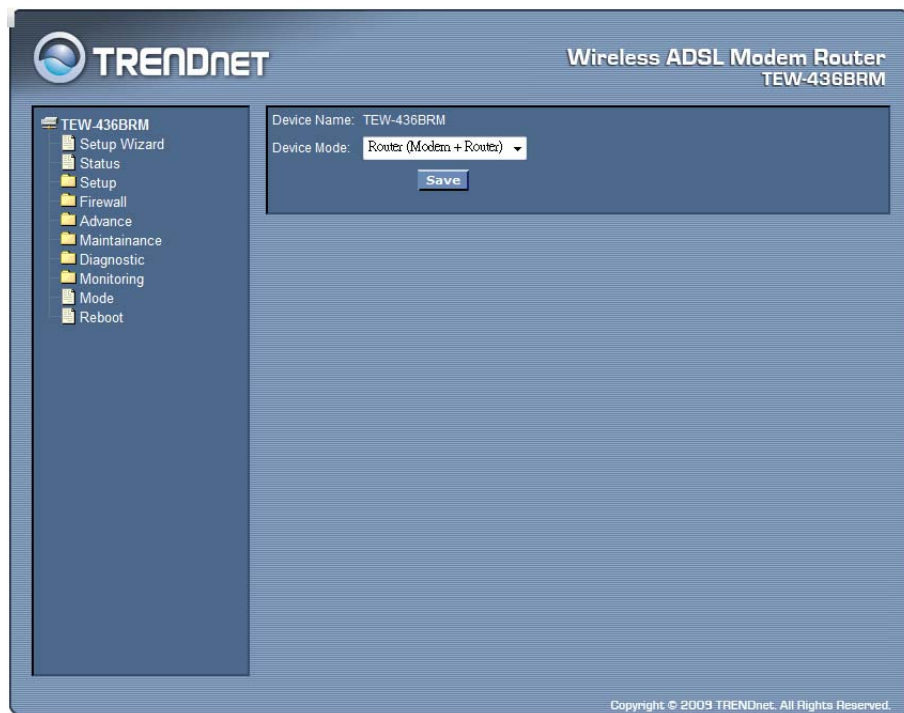
	Downstream	Upstream
SNR Margin (dB)	13.9	19.0
Attenuation (dB)	28.5	18.0
Output Power (dBm)	19.5	12.5
Attainable Rate (Kbps)	9564	1092
Rate (Kbps)	7680	640
K (number of bytes in DMT frame)	241	21
R (number of check bytes in RS code word)	14	16
S (RS code word size in DMT frame)	1.00	8.00
D (interleaver depth)	32	4
Delay (msec)	8.00	8.00
FEC	0	0
CRC	0	0
Total ES	0	0
Total SES	0	0
Total UAS	0	0

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## Mode

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This page explains configuration and operation when in "Router" or "Modem" mode.



Device Mode: There are two modes available on the Mode screen.

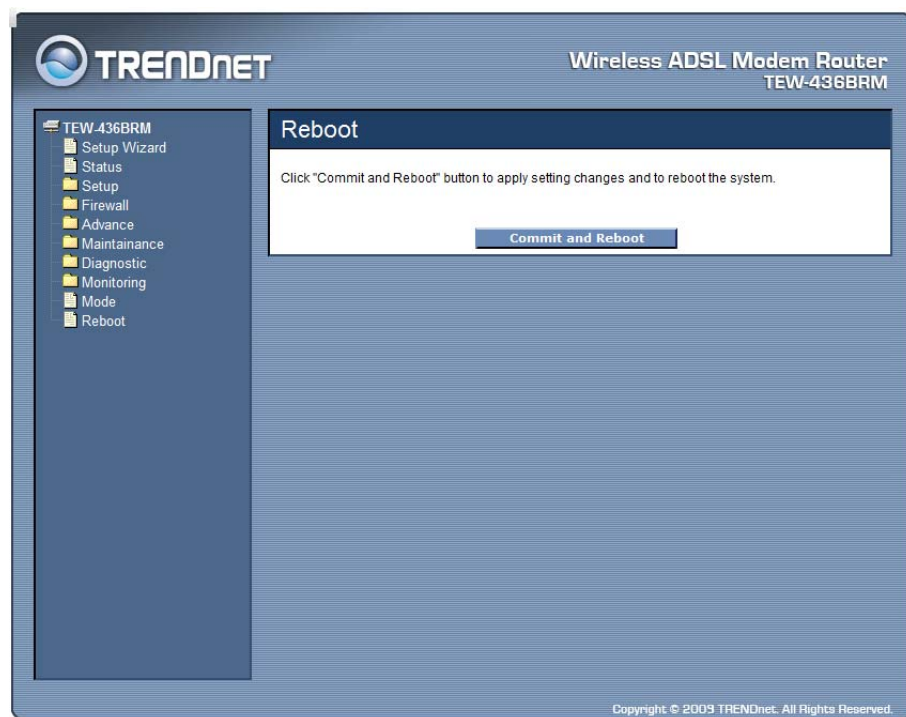
- **Router:** Both the ADSL Modem and the Router features are operational. In this mode, this device can provide shared Internet Access to all your LAN users. Also, by default, it acts a DHCP Server, providing an IP address and related information to all Wireless and LAN users.
- **Modem:** Only the ADSL Modem component is operational. All Router features are disabled. This device is "transparent" - it does not perform any operations or make any changes to the network traffic passing through it. You need to have a DHCP Server on your LAN to provide IP addresses to the Wireless clients using this Access Point.

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## Reboot

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Click "Commit and Reboot" button to apply setting changes and to reboot the WLAN ADSL Router.



## TECHNICAL SPECIFICATIONS

General	
Standards	Compliant with ADSL standards: ANSI T1.413 Issue2, G.992.1 (G.dmt, Annex A), G.992.2 (G.lite) Compliant with ADSL2 standard: G.992.3 (G.dmt.bis) Compliant with ADSL2+ standard: G.992.5 Annex A IEEE 802.11b & 802.11g Wireless LAN IEEE 802.3u 10/100Base TX Fast Ethernet
Protocol	WLAN: CSMA/CA ATM & PPP: VC and LLC Multiplexing, Bridged/Routed Ethernet over ATM (RFC1483/2684), Classical IP over ATM(RFC-1577), OAM F4/F5 loop-back, PPP over ATM (RFC2364), PPP over Ethernet (RFC2516), ATM TrafficShaping QoS(UBR, CBR, rt-VBR, nrt-VBR) LAN/WAN Network: TCP/IP, NAT, HTTP, DHCP Server/Relay/Client, DDNS, DNS Proxy
Radio Technology	DSSS/OFDM
Data Transfer Rate	802.11g mode: up to 54Mbps (auto sense) 802.11b mode: up to 11Mbps (auto sense) Ethernet: 10Mbps (half duplex), 20Mbps (full-duplex) Fast Ethernet: 100Mbps (half duplex), 200Mbps (full- duplex)
Receiver Sensitivity	802.11g: -65dBm typical @ 54Mbps 802.11b: -80dBm typical @ 11Mbps
TX Power	802.11g: 14dBm typical 802.11b: 14.5dBm typical
Network Cables	10BASE-T: 2-pair UTP Cat. 3,4,5 (100 m), EIA/TIA- 568 100-ohm STP (100 m) 100BASE-TX: 2-pair UTP Cat. 5 (100 m), EIA/TIA-568 100-ohm STP (100 m)
Frequency Range	2412 ~ 2484 MHz ISM band
Modulation Schemes	DBPSK/DQPSK/CCK/OFDM
Security	64/128-bits WEP Encryption; WPA, WPA-PSK, WPA2, WPA2-PSK, WPS
Management	Web based Configuration, Command Line Interface (CLI) via Telnet, TR-069 Remote Management, SNMP Support
Channels	1~11 Channels (FCC) 1~13 Channels (ETSI)
Number of Ports	LAN: 4 x 10/100Mbps Auto-MDIX Fast Ethernet port WAN: 1 x RJ11Port

Physical and Environmental	
DC inputs	12VDC 1A
Power Consumption	6.5watts (max)
Temperature	Operating: 0°C ~ 40° C, Storage: -10° ~ 70° C
Humidity	Operating: 10% ~ 90%, Storage: 5% ~ 90%
Dimensions	195 x 120 x 30mm
EMI:	FCC part 15, FCC part 68, CE

## ***LIMITED WARRANTY***

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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-436BRM – 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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