

**Tenda<sup>®</sup>**

Model: W306R

# User Guide

[www.tenda.cn](http://www.tenda.cn)



Wireless-N  
Broadband Router

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## **Chapter 1: Introduction**

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Thank you for choosing the W306R Wireless-N Broadband Router. It employs the advanced MIMO (Multi Input, Multi Output) technology and integrates router, wireless access point, four-port switch and firewall in one, which will allow you to share Internet access over the four switched ports or via the wireless broadcast. Compatible with IEEE 802.11n (Draft 2.0) standard, it can connect with existing 802.11b/g PCI, USB and Notebook adapters. Up to 300Mbps transmission rate allows you to enjoy real-time activities such as video streaming, online gaming and so on.

Besides, the Wireless-N Broadband Router supports all of the latest wireless security features, such as 64/128-bit WEP encryption, WPS (PBC and PIN) encryption method, packet filtering and port forwarding, to prevent unauthorized access and protect your network against malicious attack.

Moreover, the user-friendly Setup Wizard on the CD-ROM can assist you to set up the Wireless-N Broadband Router easily. It also can be managed or configured through Local/Remote easy-to-use Web-based utility. So it is the best choice for SOHOs and small-sized enterprises.

### **Package Contents**

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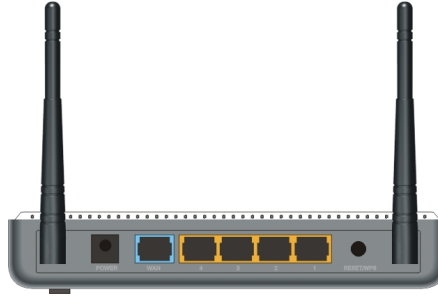
- ◆ One W306R Wireless-N Broadband Router
- ◆ One Ethernet Network Cable
- ◆ One Quick Installation Guide
- ◆ One Power Adapter
- ◆ One CD-ROM

If any of listed items are missing or damaged, please contact the Tenda reseller from whom you purchased for replacement immediately.

## Chapter 2: Getting to Know the Wireless-N Broadband Router

### The Rear Panel

Here is the description of the back panel. The RJ-45 ports for cable connection and Reset button are located on the back panel as shown below.



### Connections:

Rear Panel Interface	Description
1-4 (LAN Ports)	Connect to Ethernet devices (such as computers, switches, hubs).
RESET/WPS	<b>Note:</b> After pressing the RESET button for 7 seconds, the configurations you have set will be deleted and the device will restore to the factory default settings. If you press this button for 1 second, the WPS (PBC) function is enabled.
WAN	Connect to DSL Modem, Cable Modem or community broadband
POWER	Receptor for the supplied power adapter.

**The Top Panel**

There are the Router's LED indicators on the top panel as shown below.



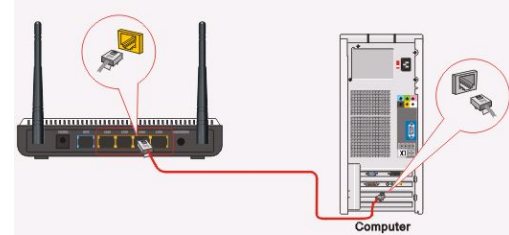
**LEDS:**

LED Indicator	Status	Description
POWER	Always ON	The POWER indicator is Always ON when it is powered on and works properly.
SYS	Blinking	The SYS is blinking regularly when the system works normally.
WAN	Always ON	Indicates the correct connection of the WAN ports.
	Blinking	Indicates the Router is transmitting/receiving data packets.
WLAN	Blinking	Indicates the wireless signal is OK.
LAN(1/2/3/4)	Always ON	Indicates the correct connection of the LAN ports.
	Blinking	Indicates the Router is transmitting/receiving data packets.
WPS	Blinking	Indicates the Router is negotiating with WPS clients in WPS Mode (PBC).

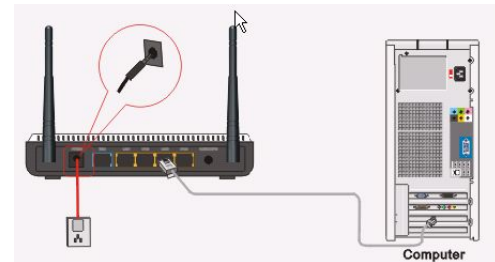


## Hardware Installation

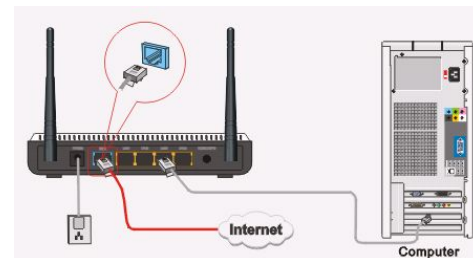
1. Please connect the LAN port of the router to the network adapter of your computer with one cable.



2. Please use the delivery-attached power adapter to power the router.



3. Please connect your broadband line provided by your ISP to the WAN port of your router.



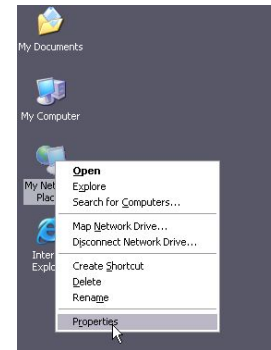
**IMPORTANT: Please use the included power adapter. Use of a different power adapter could cause damage and void the warranty for this product.**

## Chapter 3: Getting to Connect the Wireless-N Broadband Router

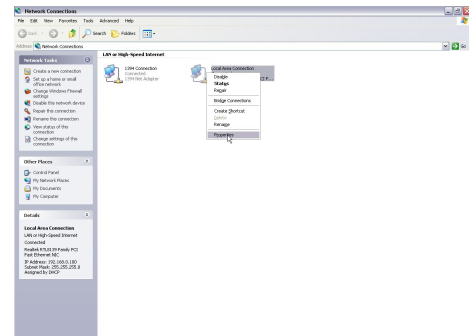
For easy and fast configuration, the following steps for network configuration are required.

### How to Set the Network Configurations for My Computer

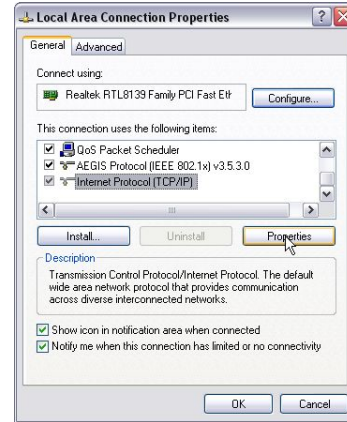
Right click **“My Network Places”** and select **“Properties”**.



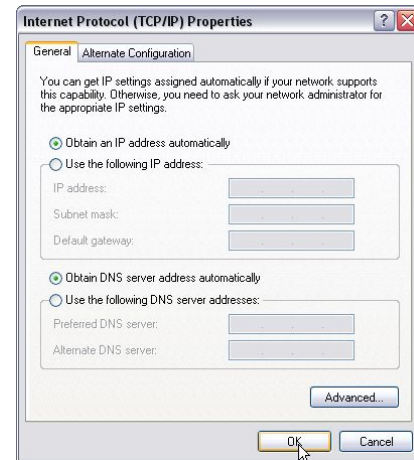
Right click **“Local Area Network Connection”** and select **“Properties”**.



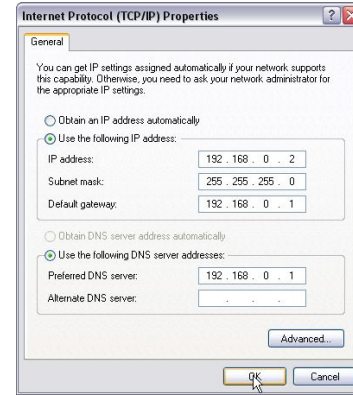
Select **“Internet Protocol (TCP/IP)”** and click **“Properties”**.



Select **“Obtain an IP address automatically”** and **“Obtain DNS server address automatically”**. Click **“OK”** to save the configurations.

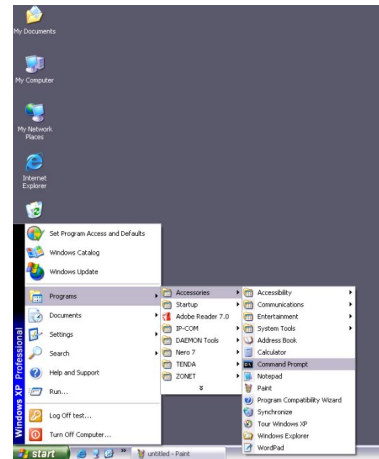


Or select **“Use the following IP address”** and enter the IP address, Subnet mask, Default gateway as shown right. Of course, you need to input the DNS server address provided by your ISP. Otherwise, you can use the Router’s default gateway as the DNS proxy server. Click **“OK”** to save the configurations.



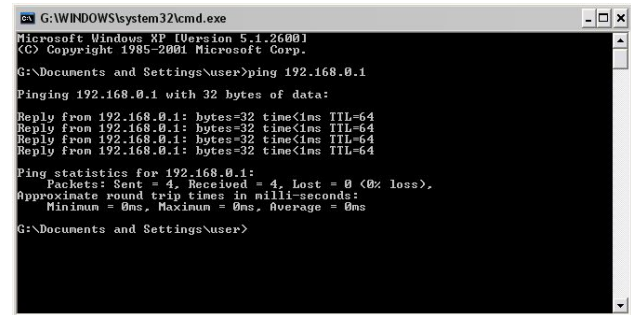
### How to Check the Network Connection

Select **“Start”**— **“Programs”**— **“Accessories”**  
— **“Command Prompt”**.



Input the “**ping 192.168.0.1**” and press “**Enter**”. If the screen displays as the right figure, it means your PC is connected to your router successfully.

If not, please make sure the hardware installation and network adapter are OK. After all preparations are made, please proceed to Chapter 4 for more and advanced configuration.



```
G:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

G:\Documents and Settings\user>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

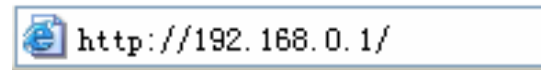
G:\Documents and Settings\user>
```

## Chapter 4 Basic Configurations

This section is to show you how to configure your new Wireless-N Broadband Router through the Web-based Configuration Utility.

### How to Access the Web-based Configuration Utility

To access the Router's Web-based Utility, launch a web browser such as Internet Explorer or Firefox and enter the Router's default IP address, `http://192.168.0.1`. Press **“Enter”**.

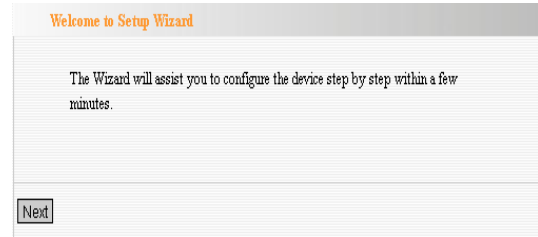


Please input the **“admin”** in both User Name and Password. Click **“OK”**.

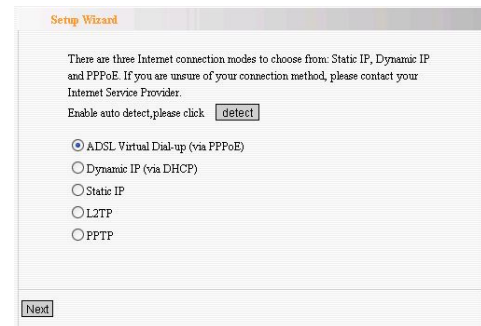


## Setup Wizard

Here is the “**Welcome to Setup Wizard**” for configuring your Router quickly. Click “**Next**”.



In this screen, select one mode of your Internet connection you use. If you are not clear, press the “**Detect**” button or contact your Internet Service Provider, and click “**Next**”.



➔ **Connection Mode 1: ADSL Virtual Dial-up (Via PPPoE)**

Enter the Account and Password provided by your ISP, and click “**Next**”.



### → Connection Mode 2: Dynamic IP (Via DHCP)

If your connection mode is Dynamic IP, it means your IP address keeps changing every time you connect. You do not need to enter the information like Mode 2 or Mode 3.

### → Connection Mode 3: Static IP

In this screen, fill the network address information from your ISP in the IP Address, Subnet Mask, Gateway and Primary DNS server fields and click “**Next**”.

Setup Wizard-Static IP

This Internet connection mode requires network address information from your Internet service provider.

IP Address:

Subnet Mask:

Gateway:

Primary DNS Server:

Secondary DNS Server:  (optional)

### → Connection Mode 4: L2TP

Select L2TP(Layer 2 Tunneling Protocol) if your ISP use a L2TP connection, your ISP will provide you with a username and password, please fill in the parameters.

**L2TP provides two access modes.**

If the L2TP offered by your ISP is **Dynamic IP**: Please select Dynamic IP .

Setup Wizard-L2TP

L2TP Server IP Address:

User Name:

Password:

IP Address:

Address Mode:

Subnet Mask:

Default Gateway:



If the L2TP offered by your ISP is **Static IP**:  
Please fill in the parameters provided by your ISP.

After configuration, please click “Next”.

### →Connection Mode 5: PPTP

If the connection is “PPP Tunneling Protocol”, please input the following parameters provided by your ISP: Server IP Address, User Name, and password.

**PPTP provides two access modes.**

If the PPTP offered by your ISP is **Dynamic IP**:  
Please select Dynamic IP .

If the PPTP offered by your ISP is **Static IP**:  
Please fill in the parameters provided by your ISP.

After configuration, please click “Next”.

Setup Wizard PPTP

PPTP Server IP Address:

User Name:

Password:

Address Mode:  ▼

IP Address:

Subnet Mask:

Default Gateway:

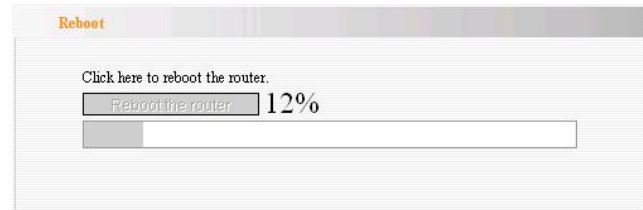
Click “**Apply**”, select “**Reboot**” in **System Tools** of the left menu and press the “**Reboot the router**” button.

Setup Wizard

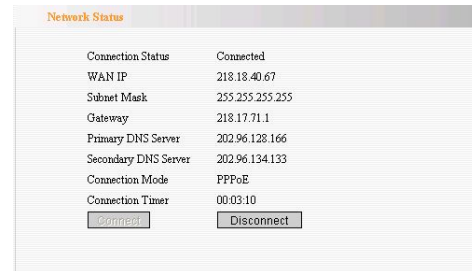
The basic configuration is completed.

Please apply and reboot the device ,or press "Reboot the router" button in System Tools of the left menu.

It is rebooting now, please wait for a few minutes and **DO NOT** power off it.



Click the “**System Status**” in the left menu of the Web-based Utility to find out the current network and system information. If the “Connection Status” is “Connected”, Congratulations you on completing the Router’s basic settings. You are on the Internet now. If you want to configure more, please proceed to the following explanations for Advanced Settings.



## Chapter 5: Advanced Settings

This section is to conduct the advanced configurations for the Router, including LAN Settings, WAN settings, MAC Address Clone and DNS Settings.

### LAN Settings

**MAC Address:** The Router's physical MAC address as seen on your local network, which is unchangeable.

**IP Address:** The Router's LAN IP address (not your PC's IP address). Once you modify the IP address, you need to remember it for the Web-based Utility login next time. 192.168.0.1 is the default value.

**Subnet Mask:** It's shown the Router's subnet mask for measurement of the network size. 255.255.255.0 is the default value.

**LAN Settings**

This is to configure the basic parameters for LAN ports.

MAC Address	00:0C:41:86:0A:B2
IP Address	<input type="text" value="192.168.0.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>

## WAN Settings—PPPoE

**Connection Mode:** Show your current connection mode.

**Account:** Enter them provided by your ISP.

**Password:** Enter them provided by your ISP.

**MTU:** Maximum Transmission Unit. It is the size of largest datagram that can be sent over a network. The default value is 1492. **Do NOT** modify it unless necessary.

**Service Name:** It is defined as a set of characteristics that are applied to a PPPoE connection. Enter it if provided. **Do NOT** modify it unless necessary.

**AC Name:** Enter it if provided. **Do NOT** modify it unless necessary.

Connect automatically to the Internet after rebooting the system or connection failure.

**Connect Manually:** Connect to the Internet by the user manually.

**Connect on Demand:** Re-establish your connection to the Internet after the specific time (Max IdleTime). Zero means your Internet connection at all time. Otherwise, enter the minutes to be elapsed before you want to disconnect the Internet access.

**Connect on Fixed Time:** Connect to the

**WAN Settings**

WAN connection mode: PPPoE

Account

Password

MTU  (Default by 1492. Do NOT Modify Unless Necessary)

Service Name  (Do NOT Modify Unless Necessary)

AC Name  (Do NOT Modify Unless Necessary)

Internet Connection Option

Connect Automatically.

Connect Manually.

Connect on Demand

Max Idle Time:  (60—3600 seconds)

Connect on Fixed Time

IMPORTANT: Please set the time in "System Tools" before you select this Internet connection.

Time: From  h  m T  h  m

Internet during the time you fix.

## WAN Settings—Static IP

If your connection mode, static IP is chosen, please enter the following addressing information.

**IP Address:** Here enter the WAN IP address provided by your ISP.

**Subnet Mask:** Enter the WAN Subnet Mask here.

**Gateway:** Enter the WAN Gateway here.

**Primary DNS Server:** Enter the Primary DNS server provided by your ISP.

**Secondary DNS Server:** Enter the secondary DNS

The screenshot shows the WAN Settings interface. At the top, it says "WAN Settings" in orange. Below that, it indicates "WAN connection mode: Static IP". The form contains several input fields: "IP Address" with the value "192.168.1.2", "Netmask" with "255.255.255.0", "Gateway" with "192.168.1.1", "Primary DNS Server" with "192.168.0.1", and "Secondary DNS Server" which is empty and has "(option)" next to it. At the bottom of the form are two buttons: "Apply" and "Cancel".

## WAN Settings—L2TP

**L2TP Server IP:** Enter the Server IP provided by your ISP.

**User Name:** Enter L2TP username.

**Password:** Enter L2TP password.

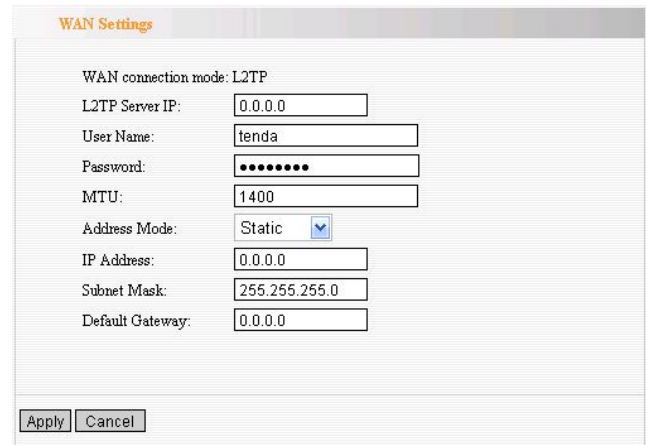
**MTU:** Maximum Transmission Unit, you may need to change it for optimal performance with your specific ISP. 1400 is the default MTU.

**Address Mode:** Select “Static” if your ISP supplies you with the IP address, subnet mask, and gateway. In most cases, select Dynamic.

**IP Address:** Enter the L2TP IP address supplied by your ISP.

**Subnet Mask:** Enter the Subnet Mask supplied by your ISP.

**Default Gateway:** Enter the Default Gateway supplied by your ISP.



The screenshot shows the WAN Settings interface for L2TP configuration. The title is "WAN Settings" in orange. Below the title, the WAN connection mode is set to "L2TP". The configuration fields are as follows:

L2TP Server IP:	<input type="text" value="0.0.0.0"/>
User Name:	<input type="text" value="tenda"/>
Password:	<input type="password" value="••••••••"/>
MTU:	<input type="text" value="1400"/>
Address Mode:	<input type="button" value="Static"/> ▾
IP Address:	<input type="text" value="0.0.0.0"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Default Gateway:	<input type="text" value="0.0.0.0"/>

At the bottom of the form, there are two buttons: "Apply" and "Cancel".

## WAN Settings—PPTP

**PPTP Server IP:** Enter the Server IP provided by your ISP.

**User Name:** Enter PPTP username provided by your ISP.

**Password:** Enter PPTP password provided by your ISP.

**Address Mode:** Select “Static” if your ISP supplies you with the IP address, subnet mask, and gateway. In most cases, select Dynamic.

**IP Address:** Enter the PPTP IP address supplied by your ISP.

**Subnet Mask:** Enter the Subnet Mask supplied by your ISP.

**Default Gateway:** Enter the Default Gateway supplied by your ISP.

Setup Wizard - PPTP

PPTP Server IP Address:

User Name:

Password:

Address Mode:  ▼

IP Address:

Subnet Mask:

Default Gateway:

## MAC Address Clone

Some ISPs require end-user's MAC address to access their network. This feature copies the MAC address of your network device to the Router.

**MAC Address:** The MAC address to be registered with your Internet service provider.

**Clone MAC address:** Register your PC's MAC address.

**Restore default MAC address:** Restore the default hardware MAC address.

The screenshot shows a web interface for configuring MAC address cloning. At the top, the title "MAC Address Clone" is displayed in orange. Below the title, the text "WAN MAC Address Clone." is shown. A label "MAC Address:" is followed by a text input field containing the value "02:10:17:F2:AB:12". Below the input field are two buttons: "Restore Default MAC" and "Clone MAC Address". At the bottom of the form, there are two buttons: "Apply" and "Cancel".



## DNS Settings

DNS is short for Domain Name System(or Service), an Internet service that translate domain names into IP addresses which are provided by your Internet Service Provider. Please consult your Internet Service Provider for details if you do not have them.

**DNS:**

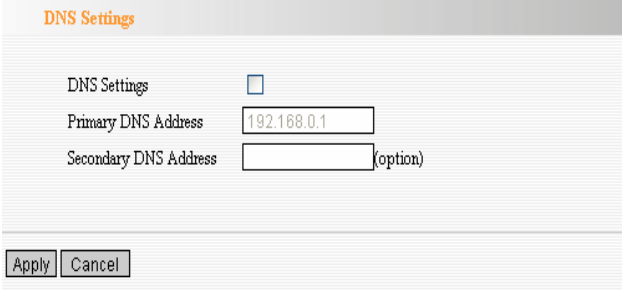
Click the checkbox to enable the DNS server.

**Primary DNS Address:**

Enter the necessary address provided by your ISP.

**Secondary DNS Address:**

Enter the second address if your ISP provides, which is optional.



The screenshot shows the 'DNS Settings' page. At the top, the title 'DNS Settings' is displayed in orange. Below the title, there are three rows of settings:

- 'DNS Settings' with an unchecked checkbox.
- 'Primary DNS Address' with a text input field containing '192.168.0.1'.
- 'Secondary DNS Address' with an empty text input field followed by '(option)'.

At the bottom of the form, there are two buttons: 'Apply' and 'Cancel'.

## Chapter 6: Wireless Settings

This section mainly deals with the wireless settings, including Basic Settings, Security Setting, Access Control and Advanced Settings.

### Basic Settings

**Network Mode:** Supports 802.11b/g mixed, 802.11b, 802.11g and 802.11b/g/n mixed modes.

**Main SSID:** Main Service Set Identifier. It's the "name" of your wireless network.

**Minor SSID:** Minor Service Set Identifier. It is optional.

**Broadcast (SSID):** Select "enable" to enable the device's SSID to be visible by wireless clients.

**BSSID:** It is a 48bit identity used to identify a particular BSS (Basic Service Set) within an area. In Infrastructure BSS networks, the BSSID is the MAC (Medium Access Control) address of the AP

**Channel:** From the drop-menu, it is for selecting the working channels of the wireless network. Please select from 1 to 13, or select AutoSelect to select different channels.

**Channel Bandwidth:** Select wireless work frequency 20M or 20/40M.

**HT TxStream:** RF Transmit Stream.

**HT RxStream:** RF Receive Stream.

**Basic Settings**

Network Mode	11b/g/n mixed mode
Main SSID	Tenda
Minor SSID	guest
Broadcast(SSID)	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
BSSID	00:0C:41:86:0A:B2
Channel	2437MHz (Channel 6)
Operating Mode	<input checked="" type="radio"/> Mixed Mode <input type="radio"/> Green Field
Channel BandWidth	<input type="radio"/> 20 <input checked="" type="radio"/> 20/40
Guard Interval	<input type="radio"/> long <input checked="" type="radio"/> Auto
MCS	Auto
Reverse Direction Grant(RDG)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Extension Channel	2457MHz (Channel 10)
Aggregation MSDU (A-MSDU)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
HT TxStream	2
HT RxStream	2

Save Cancel

## Wireless Security Settings

This page is to configure the wireless security of your Router. Six wireless security modes, WEP, WPA-Personal, WPA2-Personal, WPA-Enterprise, WPA2-Enterprise and RADIUS, are supported. If you do not want to use wireless security, select Disable from the drop-down menu.

### 1. Mixed WEP

WEP(Wired Equivalent Privacy), a basic encryption method, usually encrypts wireless data using a series of digital keys (64 bits or 128 bits in length). By using the same keys on each of your wireless network devices, you can prevent unauthorized wireless devices from monitoring your transmissions or using your wireless resources.

**SSID Choice:** Select SSID to be configured security. The device supports to configure different security classes between the main SSID and the subordinate SSID.

**Security Mode:** There are several different security modes; you can choose one from mixed WEP, WPA-Personal, WPA-Enterprise, etc.

**Default Key:** Select a valid encryption key.

**WEP Key1, 2, 3, 4:** Enter the WEP key here. Please note that the key should be in accordance with the key format and be valid. The key should be **ASCII Characters** or **Hexadecimal Digits**

The screenshot shows the 'Security Settings' page. The SSID Choice is 'Tenda'. The Security Mode is 'Mixed WEP'. The Default Key is 'Key 1'. There are four WEP Key fields, each containing '12345', and each has an ASCII dropdown menu. At the bottom, there are 'Save' and 'Cancel' buttons.

## 2. WPA-Personal

**WPA (Wi-Fi Protected Access)**, a Wi-Fi standard, is a more recent wireless encryption scheme, designed to improve the security features of WEP. It applies more powerful encryption types (such as TKIP [Temporal Key Integrity Protocol] or AES [Advanced Encryption Standard]) and can change the keys dynamically on every authorized wireless device.

**WPA Algorithms:** Select one encryption type, AES or TKIP. (AES is stronger than TKIP.)

**Pass Phrase:** Enter the key which must have 8-63 ASCII characters.

**Key Renewal Interval:** Enter the key renewal period. It is to tell the Router how often to change the keys.

The screenshot shows the 'Security Settings' page for a Tenda router. The SSID is set to 'Tenda'. The Security Mode is set to 'WPA - Personal'. Under WPA Algorithms, the 'TKIP' radio button is selected. The Pass Phrase is 'PlsChangeMe' and the Key Renewal Interval is set to 3600 seconds. There are 'Save' and 'Cancel' buttons at the bottom.

SSID Choice	Tenda
Security Mode -- "Tenda"	
Security Mode	WPA - Personal
WPA Algorithms	<input checked="" type="radio"/> TKIP <input type="radio"/> AES <input type="radio"/> TKIP&AES
Pass Phrase	PlsChangeMe
Key Renewal Interval	3600 second

Save Cancel

### 3. WPA2-Personal

**WPA2 (Wi-Fi Protected Access version 2)**, It's more secure than Wired Equivalent Privacy (WEP) and easy to set up.

**WPA Algorithms:** Select key Algorithms such as TKIP, AES and TKIP&AES.

**Pass Phrase:** Enter the key which must have 8-63 ASCII characters.

**Key Renewal Interval:** Enter the key renewal period. It is to tell the Router how often to change the keys.

The screenshot shows the 'Security Settings' page for a Tenda router. The SSID is set to 'Tenda'. The Security Mode is 'WPA2 - Personal'. The WPA Algorithms are set to 'TKIP & AES'. The Pass Phrase is 'PlsChangeMe'. The Key Renewal Interval is set to 3600 seconds. There are 'Save' and 'Cancel' buttons at the bottom.

### 4. WPA-Enterprise

This Authentication protocol based on RADIUS server. This security mode is used when a RADIUS server is connected to the Router.

**Radius IP Address:** Please input IP address of the radius server here.

**Radius Port:** Please input the port number of the radius server here.

**Shared key:** The encryption key that the router is authenticated through RADIUS server

**Session Timeout:** The recertification time interval between the router and the server. The default value is 3600s.

The screenshot shows the 'Security Settings' page for a Tenda router. The SSID is set to 'Tenda'. The Security Mode is 'WPA - Enterprise'. The WPA Algorithms are set to 'TKIP & AES'. The Key Renewal Interval is set to 3600 seconds. The Radius IP Address is '192.168.0.100'. The Radius Port is '1812'. The Shared Key is 'PlsChangeMe'. The Session Timeout is '3600'. There are 'Save' and 'Cancel' buttons at the bottom.

## 5. WPA2-Enterprise

This security mode is also used when a RADIUS server is connected to the Router.

**WPA Algorithms:** Select key Algorithms such as TKIP and AES.

**Radius IP Address:** Please input IP address of the radius server here.

**Radius Port:** Please input the port number of the radius server here.

**Shared key:** The encryption key that the router is authenticated through RADIUS server

**Session Timeout:** The recertification time interval between the router and the server. The default value is 3600s.

The screenshot displays the 'Security Settings' interface for a Tenda router. The 'SSID Choice' is set to 'Tenda'. The 'Security Mode' is 'WPA2 - Enterprise'. Under 'WPA Algorithms', 'TKIP&AES' is selected. The 'Key Renewal Interval' is 3600 seconds, and the 'PMK Cache Period' is 10 minutes. 'Pre-Authentication' is enabled. The 'Radius IP Address' is 192.168.0.100, the 'Radius Port' is 1812, the 'Shared Key' is 'PlsChangeMe', and the 'Session Timeout' is 3600. 'Save' and 'Cancel' buttons are at the bottom.

SSID Choice	Tenda
Security Mode -- "Tenda"	
Security Mode	WPA2 - Enterprise
WPA Algorithms	<input type="radio"/> TKIP <input type="radio"/> AES <input checked="" type="radio"/> TKIP&AES
Key Renewal Interval	3600 second
PMK Cache Period	10 minute
Pre-Authentication	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Radius IP Address	192.168.0.100
Radius Port	1812
Shared Key	PlsChangeMe
Session Timeout	3600

Save Cancel

## 6. 802.1X

This security mode is used when a RADIUS server is connected to the Router. 802.1x, a kind of Port-based authentication protocol, is an authentication type and strategy for users. The port can be either a physic port or logic port (such as VLAN). For wireless LAN users, a port is just a channel. The final purpose of 802.1x authentication is to check if the port can be used. If the port is authenticated successfully, you can open this port which allows all the messages to pass. If the port isn't authenticated successfully, you can keep this port "disable" which just allows 802.1x authentication protocol message to pass.

**WEP:** Select "enable/disable" WEP encryption which indicates the authentication process between wireless adapter and wireless router.

**Radius IP Address:** Please input IP address of the radius server here.

**Radius Port:** Please input the port number of the radius server here.

**Shared key:** The encryption key that the router is authenticated through RADIUS server.

The screenshot displays the 'Security Settings' page of a Tenda router. The SSID is set to 'Tenda'. The Security Mode is '802.1X'. WEP is currently disabled. The Radius IP Address is '192.168.0.100', the Radius Port is '1812', the Shared Key is 'PlsChangeMe', and the Session Timeout is '3600'. There are 'Save' and 'Cancel' buttons at the bottom of the form.

**Session Timeout:** The recertification time interval between the router and the server. The default value is 3600s.

**⚠ NOTE: To improve security level, do not use those words which can be found in a dictionary or too easy to remember! Wireless clients will remember the WEP key, so you only have to input the WEP key on wireless client once, and it's worth to use complicated WEP key to improve security level.**



## WPS Settings

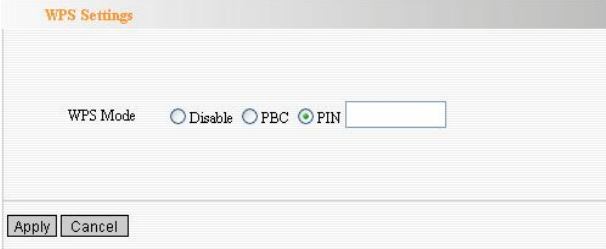
**WPS (Wi-Fi Protected Setting)** can be easy and quick to establish the connection between the wireless network clients and the Router through encrypted contents. The users only enter the PIN code to configure without selecting encryption method and entering secret keys by manual.

**WPS Mode:** Supports two ways to configure WPS settings:

PBC(Push-Button Configuration) and PIN code.

**PBC:** Select the PBC or press the WPS button on the panel of the Router (Press the button for one second and WPS indicator will be blinking for 2 minutes, which means the WPS is enabled. During the blinking time, you can enable another Router to implement the WPS/PBC negotiation between them. At present, the WPS only support one client access. Two minutes later, the WPS indicator will be off.).

**PIN:** If this option is enabled, you need to enter a wireless client's PIN code in the field and keep the same code in the client.



WPS Settings

WPS Mode  Disable  PBC  PIN

Apply Cancel

## WDS Settings

In this mode, you can expand the scope of network by combining up to four other access points together, and every access point can still accept wireless clients.

**Lazy Mode:** You need configure the router's BSSID into another device, not need input another router's BSSID in it, and then connect together automatically.

**Bridge Mode:** You can wirelessly connect two or more wired networks via this mode. In this mode, you need to add the Wireless MAC address of the connecting device into the Router's AP MAC address table or select one from the scanning table. At the same time, the connecting device should be in Lazy, Repeater or Bridge mode.

**Repeater Mode:** You can select the mode to extend the distance between the two WLAN devices. Functioning as a WDS repeater, the W306R connects to both a client card as an AP and to another AP. In typical repeater applications, APs connecting to other APs equipped with WDS functionality must also support WDS. In this mode, you need to add the MAC address of the connecting device into the

WDS Settings

WDS Mode: Bridge Mode

Encrypt Type: Disable

AP MAC: Bridge Mode

AP MAC: Repeater Mode

AP MAC:

AP MAC:

AP MAC:

Open Scan

Save Cancel

Router's AP MAC address table and the connecting client should be in Lazy, Repeater or client mode.

**Encrypt Type:** You can select WEP mode, TKIP mode, AES mode for security here.

**Pass phrase:** Enter the key, the key format according to encryption you selected.

**AP MAC:** Input the MAC address of another wireless router.

⚠ **NOTE:** Two wireless routers must use the same mode, band, channel number, and security setting!

This section is to configure the advanced wireless setting of the Router, including the Radio Preamble, 802.11g/n Rate, Fragmentation Threshold, RTS Threshold, Beacon Period and DTIM Interval.

**BG protection Mode:** Auto by default. You can select On or Off.

**Basic Data Rates:** For different requirement, you can select one of the suitable Basic Data Rates. Here, default value is (1-2-5.5-11Mbps...).

**Beacon Interval:** Set the beacon interval of wireless radio. Do not modify default value if you don't know what it is, default value is 100.

**Fragment Threshold:** Do not modify default value if you don't know what it is, default value is 2346.

**RTS Threshold:** Set the RTS threshold of wireless radio. Do not modify default value if you don't know what it is, default value is 2347.

**TX Power:** You can set the output power of wireless radio. Unless you're using this wireless router in a really big space, you may not have to

**Advanced Settings**

BG Protection Mode	Auto
Basic Data Rates	Default(1-2-5.5-11 Mbps)
Beacon Interval	100 ms (range 20 - 999, default 100)
Fragment Threshold	2346 (range 256 - 2346, default 2346)
RTS Threshold	2347 (range 1 - 2347, default 2347)
TX Power	100 (range 1 - 100, default 100)

---

WMM Capable  Enable  Disable

APSD Capable  Enable  Disable

Save Cancel

set output power to 100%. This will enhance security (malicious / unknown users in distance will not be able to reach your wireless router).

**WMM Capable:** It will enhance the data transfer performance of multimedia contents when they're being transferred over wireless network. If you don't know what it is / not sure if you need it, it's safe to set this option to 'Enable', however, default value is enabling.

**APSD Capable:** It is used for auto power-saved service. The default is disabled.

## Wireless Access Control

To secure your wireless LAN, the wireless access control is actually based on the MAC address management.

**MAC Address Filter:** If you want to access the router from any external IP Address, please select the “Disable”.

**MAC Address:** To specify an external IP address, please add the MAC address manually and click “Add”.

**MAC Address List:** The added MAC addresses are listed here. Click “Delete” to delete the filter management for this MAC address.

Wireless Access Control

MAC Address Filter:  ▾

MAC Address Management

MAC Address						Action
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>

## Wireless Connection Status

This page is to show the current wireless access status. Click “Refresh” to update the wireless connection information.

**MAC Address:**

Shows the connecting PC’s MAC address.

**Bandwidth:** displays the channel bandwidth of the host to be connected.

The screenshot shows a web interface titled "Wireless Connection Status". Below the title, there is a label "The Current Wireless Access List:" followed by a "Refresh" button. Below this, there is a table with three columns: "NO.", "MAC Address", and "Bandwidth".

NO.	MAC Address	Bandwidth
-----	-------------	-----------

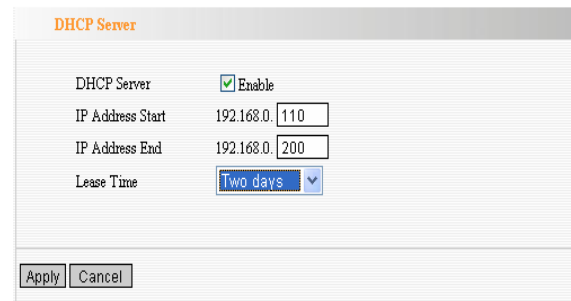
## Chapter 7: DHCP Server

**DHCP (Dynamic Host Control Protocol)** is to assign an IP address to the computers on the LAN/private network. When you enable the DHCP Server, the DHCP Server will allocate automatically an unused IP address from the IP address pool to the requesting computer in premise of activating “Obtain an IP Address Automatically”. So specifying the starting and ending address of the IP Address pool is needed.

**DHCP Server:** Activate the checkbox to enable DHCP server.

**IP Address Start/End:** Enter the range of IP address for DHCP server distribution.

**Lease Time:** The length of the IP address lease.



The screenshot shows the DHCP Server configuration page. It features a title bar 'DHCP Server' in orange. Below it, there are four configuration items: 'DHCP Server' with a checked 'Enable' checkbox, 'IP Address Start' with a text box containing '192.168.0.' and a spin box for '110', 'IP Address End' with a text box containing '192.168.0.' and a spin box for '200', and 'Lease Time' with a dropdown menu set to 'Two days'. At the bottom, there are 'Apply' and 'Cancel' buttons.

DHCP Server	
DHCP Server	<input checked="" type="checkbox"/> Enable
IP Address Start	192.168.0. <input type="text" value="110"/>
IP Address End	192.168.0. <input type="text" value="200"/>
Lease Time	<input type="text" value="Two days"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	



## DHCP Server List

The Static IP assignment is to add a specifically static IP address to the assigned MAC address. You can view the related information in the DHCP server list.

**IP Address:** Enter one IP address for the computer on the LAN network.

**MAC Address:** Enter the MAC address of the computer you want to assign the above IP address. Click “Add” to add the entry in the list.

**Hostname:** The name of the computer which is added a new IP address.

**Lease Time:** The time length of the corresponding IP address lease.

**DHCP Client List**

**Static IP**

IP Address 192.168.0.

MAC Address  :  :  :  :  :

NO.	IP Address	MAC Address	Delete
<input type="button" value="Refresh"/>			
Host Name	IP Address	MAC Address	Lease
fanyi	192.168.0.110	00:E0:4C:01:9C:92	1days 22:09:25

## Chapter 8: Virtual Server

### Single Port Forwarding

The W306R can be configured as a virtual server on behalf of local services behind the LAN port. The given remote requests will be re-directed to the local servers via the virtual server. This section deals with the single port forwarding mainly. The Single Port Forwarding allows you to set up kinds of public services such as web servers, ftp, e-mail and other specialized Internet applications on your network.

**⚠ NOTE: the virtual server uses known host-name or public IP address.**

**External Port:** This is the external port number for server or Internet application, for example, port 21 for ftp service.

**Internal Port:** This is the port number of LAN computer set by the Router. The Internet traffic from the external port will forward to the internal port.

For example, you can set the internal port NO.66 to act as the external port NO.21 for ftp service.

**IP Address:** Enter the IP address of the PC

**Single Port Forwarding**

The W302R can be configured as a virtual server on behalf of local services behind the LAN port. The given remote requests will be re-directed to the local servers via the virtual server. This section deals with the single port forwarding mainly. The Single Port Forwarding allows you to set up kinds of public services such as web servers, ftp, e-mail and other specialized Internet applications on your network.

Note: the virtual server uses known host-name or public IP address.

NO.	External-Internal Port	To IP Address	Protocol	Enable	Delete
1.	66 21	192.168.0.10	Both	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.		192.168.0.	TCP	<input type="checkbox"/>	<input type="checkbox"/>
3.		192.168.0.	TCP	<input type="checkbox"/>	<input type="checkbox"/>
4.		192.168.0.	TCP	<input type="checkbox"/>	<input type="checkbox"/>
5.		192.168.0.	TCP	<input type="checkbox"/>	<input type="checkbox"/>
6.		192.168.0.	TCP	<input type="checkbox"/>	<input type="checkbox"/>
7.		192.168.0.	TCP	<input type="checkbox"/>	<input type="checkbox"/>
8.		192.168.0.	TCP	<input type="checkbox"/>	<input type="checkbox"/>
9.		192.168.0.	TCP	<input type="checkbox"/>	<input type="checkbox"/>
10.		192.168.0.	TCP	<input type="checkbox"/>	<input type="checkbox"/>

Well-Known Service Port: DNS(53) Add ID 1

Apply Cancel

where you want to set the applications.

**Protocol:** Select the protocol (TCP/UDP/Both) for the application.

**Well-Known Service Port:** Select the well-known services as DNS, FTP from the drop-down menu to add to the configured one above.

**Delete/Enable:** Click to check it for corresponding operation.

**△ NOTE:** *If you set the virtual server of the service port as 80, you must set the Web management port on Remote Web Management page to be any value except 80 such as 8080. Otherwise, there will be a conflict to disable the virtual server.*

## Port Range Forwarding

This section deals with the port range forwarding mainly. The Port Range Forwarding allows you to set up a range of public services such as web servers, ftp, e-mail and other specialized Internet applications to an assigned IP address on your LAN.

**Start/End Port:** Enter the start/end port number which ranges the External ports used to set the server or Internet applications.

**IP Address:** Enter the IP address of the PC where you want to set the applications.

**Protocol:** Select the protocol (TCP/UDP /Both) for the application.

**Well-Known Service Port:** Select the well-known services as DNS, FTP from the drop-down menu to add to the configured one above.

**Delete/Enable:** Click to check it for corresponding operation.

**Port Range Forwarding**

The W302R can be configured as a virtual server on behalf of local services behind the LAN port. The given remote requests will be re-directed to the local servers via the virtual server. This section deals with the port range forwarding mainly. The Port Range Forwarding allows you to set up kinds of public services such as web servers, ftp, e-mail and other specialized Internet applications on your network.

NO.	Start Port-End Port	To IP Address	Protocol	Enable	Delete
1.	<input type="text"/> - <input type="text"/>	192.168.0. <input type="text"/>	TCP <input type="button" value="v"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	<input type="text"/> - <input type="text"/>	192.168.0. <input type="text"/>	TCP <input type="button" value="v"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	<input type="text"/> - <input type="text"/>	192.168.0. <input type="text"/>	TCP <input type="button" value="v"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	<input type="text"/> - <input type="text"/>	192.168.0. <input type="text"/>	TCP <input type="button" value="v"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	<input type="text"/> - <input type="text"/>	192.168.0. <input type="text"/>	TCP <input type="button" value="v"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	<input type="text"/> - <input type="text"/>	192.168.0. <input type="text"/>	TCP <input type="button" value="v"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	<input type="text"/> - <input type="text"/>	192.168.0. <input type="text"/>	TCP <input type="button" value="v"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	<input type="text"/> - <input type="text"/>	192.168.0. <input type="text"/>	TCP <input type="button" value="v"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	<input type="text"/> - <input type="text"/>	192.168.0. <input type="text"/>	TCP <input type="button" value="v"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	<input type="text"/> - <input type="text"/>	192.168.0. <input type="text"/>	TCP <input type="button" value="v"/>	<input type="checkbox"/>	<input type="checkbox"/>

Well-Known Service Port:   ID

## DMZ Settings

The DMZ function is to allow one computer in LAN to be exposed to the Internet for a special-purpose service as Internet gaming or videoconferencing.

**DMZ Host IP Address:** The IP address of the computer you want to expose.

**Enable:** Click the checkbox to enable the DMZ host.

***IMPORTANT: When enabled the DMZ host, the firewall settings of the DMZ host will not function.***

The screenshot shows the 'DMZ Settings' page. At the top, there is a title 'DMZ Settings' in orange. Below it, a warning message reads: 'IMPORTANT: When enabled the DMZ host, the firewall settings of the computer will not function.' Underneath the warning, there is a label 'DMZ host IP' followed by an empty text input field. To the right of the input field is a checkbox labeled 'Enable', which is currently unchecked. At the bottom of the page, there are two buttons: 'Apply' and 'Cancel'.

## UPnP Settings

It supports latest Universal Plug and Play. This function goes into effect on Windows XP or Windows ME or this function would go into effect if you have installed software that supports UPnP. With the UPnP function, host in LAN can request the router to process some special port switching so as to enable host outside to visit the resources in the internal host.

**Enable UPnP:** Click the checkbox to enable the UPnP.

The screenshot shows the 'UPnP Settings' page. At the top, there is a title 'UPnP Settings' in orange. Below it, there is a label 'Enable UPnP' followed by a checked checkbox. At the bottom of the page, there are two buttons: 'Apply' and 'Cancel'.

## Chapter 9: Security Settings

### Client Filter Settings

To benefit your further management to the computers in the LAN, you can control some ports access to Internet by data packet filter function.

**Client Filter:** Check to enable client filter.

**Access Policy:** Select one number from the drop-down menu.

**Enable:** Check to enable the access policy.

**Clear the Policy:** Click “Clear” button to clear all settings for the policy.

**Filter Mode:** Click one radio button to enable or disable to access the Internet.

**Policy Name:** Enter a name for the access policy selected.

**IP Start/End:** Enter the starting/ending IP address.

**Port No.:** Enter the port range based over the protocol for access policy.

**Protocol:** Select one protocol (TCP/UDP/Both) from the drop-down menu.

**Times:** Select the time range of client filter.

**Days:** Select the day(s) to run the access policy.

The screenshot shows the 'Client Filter' configuration page. At the top, 'Client Filtering Settings' is checked. Below this, 'Access Policy' is set to '10'. The 'Enable' checkbox is checked, and there is a 'Clear' button next to it. The 'Filtering' mode is set to 'Disable', and the 'Mode' is set to 'Enable' (with a note 'access the Internet'). There are input fields for 'Policy Name', 'Start IP' (192.168.0), 'End IP' (192.168.0), 'Port' (with a range selector), and 'Type' (set to 'TCP'). At the bottom, there are 'Times' dropdowns (0, 0, 0, 0) and a 'Date' section with checkboxes for 'Everyday', 'Sun', 'Mon', 'Tue', 'Wen', 'Thr', 'Fri', and 'Sat'. 'Apply' and 'Cancel' buttons are at the very bottom.

## DNS Filter Settings

In order to control the computer to have access to websites. You can use URL filtering to allow the computer to have access to certain websites at fixed time and forbids it having access to certain websites at fixed time.

**DNS Filter:** Check to enable DNS filter.

**Access Policy:** Select one number from the drop-down menu.

**Enable:** Check to enable the access policy.

**Clear the Policy:** Click “Clear” button to clear all settings for the policy.

**Filter Mode:** Click one radio button to enable or disable to access the Internet.

**Policy Name:** Enter a name for the access policy selected.

**IP Start/End:** Enter the starting/ending IP address.

**DNS:** Specify the text strings or keywords in the DNS. If any part of the DNS contains these strings or words, the web page will not be accessible and display.

**Times:** Select the time range of client filter.

**Days:** Select the day(s) to run the access policy.

The screenshot shows the 'DNS Filter' configuration page. At the top, the title 'DNS Filter' is displayed in orange. Below it, the 'DNS Filter' checkbox is checked. The 'Access Policy' is set to '10'. The 'Enable' checkbox is checked, and a 'Clear the Policy' button is visible. The 'Filtering Mode' is set to 'Disable', with a note 'access the Internet'. The 'Policy Name' field is empty. The 'Start IP' and 'End IP' fields are both set to '192.168.0'. The 'DNS' field is empty. The 'Times' section shows '0' for hours and '0' for minutes. The 'Date' section has 'Everyday' selected, with other days (Sun, Mon, Tue, Wen, Thr, Fri, Sat) unselected. At the bottom, there are 'Apply' and 'Cancel' buttons.

## MAC Address Settings

In order to manage the computers in LAN better, you could control the computer's access to Internet by MAC Address Filter.

**MAC Address Filter:** Check to enable MAC address filter.

**Access Policy:** Select one number from the drop-down menu.

**Enable:** Check to enable the access policy.

**Clear the Policy:** Click "Clear" button to clear all settings for the policy.

**Filter Mode:** Click one radio button to enable or disable to access the Internet.

**Policy Name:** Enter a name for the access policy selected.

**MAC Address:** Enter the MAC address you want to run the access policy.

**Times:** Select the time range of client filter.

**Days:** Select the day(s) to run the access policy.

The screenshot shows the 'MAC Filter' configuration page. At the top, it says 'MAC Filtering Settings:  Enable'. Below that is 'Access Policy: 10' with a dropdown arrow. There is an 'Enable: ' checkbox and a 'Delete the Policy: ' button. The 'Filtering Mode' section has two radio buttons: 'Disable access the Internet' (unselected) and 'Enable' (selected). Below this are fields for 'Policy Name:' and 'MAC Address:' (with six input boxes). The 'Times' section has five dropdown menus for hours and minutes, currently set to 0. The 'Date' section has radio buttons for 'Everyday', 'Sun' (checked), 'Mon', 'Tue', 'Wen', 'Thu', 'Fri' (checked), and 'Sat'. At the bottom are 'Apply' and 'Cancel' buttons.

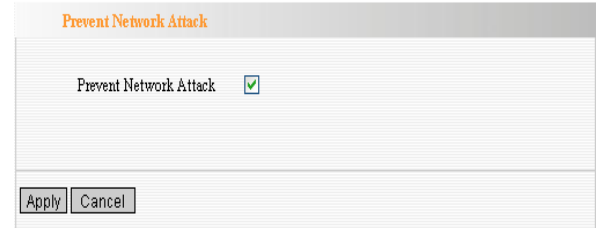


## Prevent Network Attack

This section is to protect the internal network from exotic attack such as SYN Flooding attack, Smurf attack, LAND attack, etc. Once detecting the unknown attack, the Router will restrict its bandwidth automatically.

The attacker's IP address can be found from the "System Log".

**Prevent Network Attack:** Check to enable it for attack prevention.



Prevent Network Attack

Apply Cancel

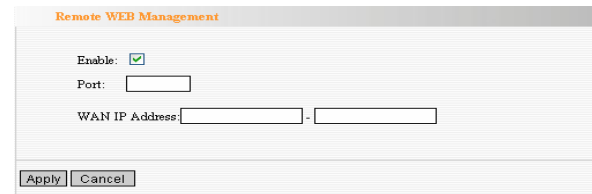
## Remote Web Management

This section is to allow the network administrator to manage the Router remotely. If you want to access the Router from outside the local network, please select the "Enable".

**Enable:** Check to enable remote web management.

**Port:** The management port open to outside access. The default value is 80.

**WAN IP Address:** Specify the range of the WAN IP address for remote management.



Remote WEB Management

Enable:

Port:

WAN IP Address:  .

Apply Cancel

## Local Web Management

**Local web management**, the alternative to remote web management, is to allow the network administrator to manage the Router in LAN. Any PC in the LAN can access the Web management utility by default. So you can enter the specific MAC address of the LAN computer to function.

**Enable:**

Check to enable the local web management

**MAC1/2/3...:**

Enter the MAC addresses of LAN computers.

Local Web Management

Enable

The MAC Address Format(ab:cd:ef:12:34:11)

MAC1:  MAC2:

MAC3:  MAC4:

MAC5:  MAC6:

Apply Cancel

## WAN Ping

The ping test is to check the status of your internet connection. When disabling the test, the system will ignore the ping test from WAN.

**Disable the Ping for WAN:** Check to enable it.

WAN Ping

Disable the Ping for WAN

Apply Cancel

## Chapter 10: Routing Settings

### Routing Table

The main duty for router is to look for a best path for every data frame, and transfer this data frame to destination. So, it's essential for the router to choose the best path, i.e. routing arithmetic. In order to finish this function, many transferring paths, i.e. routing table, are saved in the router, for choosing when needed.

Routing Table

Destination IP	Subnet Mask	Gateway	Metric	Interface
192.168.100.0	255.255.255.0	0.0.0.0	0	eth2.2
192.168.0.0	255.255.255.0	0.0.0.0	0	bn0
0.0.0.0	0.0.0.0	192.168.100.100	0	eth2.2

Refresh

### Static Route

Static Route is set by administrator in advance is called static route. Usually, it is set according to network configuration when installing the operation system. It would not be changed according to network structure's change.

**Destination LAN IP:** The address of the remote host with which you want to construct a static route.

**Subnet Mask:** The network portion of the Destination LAN IP.

**Gateway:** The gateway of the next hop.

Static Routing

Destination LAN IP	Subnet Mask	Gateway	Action
<input type="text"/>	<input type="text"/>	<input type="text"/>	<<Add

## Chapter 11: System Tools

### Time

This section is to select the time zone for your location. If you turn off the Router, the settings for time disappear. However, the Router will automatically obtain the GMT time again once it has access to the Internet.

**Time Zone:** Select your time zone from the drop-down menu.

**Customized time:** Enter the time you customize.

### DDNS

The **DDNS (Dynamic Domain Name System)** is supported in this router. It is to assign a fixed host and domain name to a dynamic Internet IP address, which is used to monitor hosting website, FTP server and so on behind the Router. If you want to activate this function, please select “Enable” and a DDNS service provider to sign up.

**DDNS:** Click the radio button to enable or disable the DDNS service.

**Service Provider:** Select one from the

drop-down menu and press “Sign up” for registration.

**User Name:** Enter the user name the same as the registration name.

**Password:** Enter the password you set.

**Domain Name:** Enter the domain name which is optional.

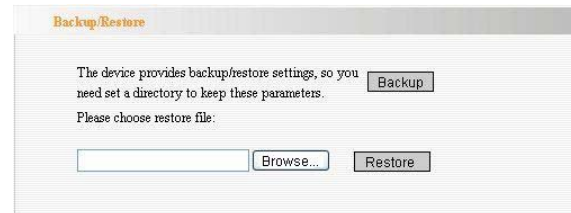
## Backup/Restore

The device provides backup/restore settings, so you need set a directory to keep these parameters.

**Backup:** Click this button to back up the Router’s configurations.

**Browse:** Click this button to browse the directory where you Back up or save files.

**Restore:** Click this button to restore the Router’s configurations.



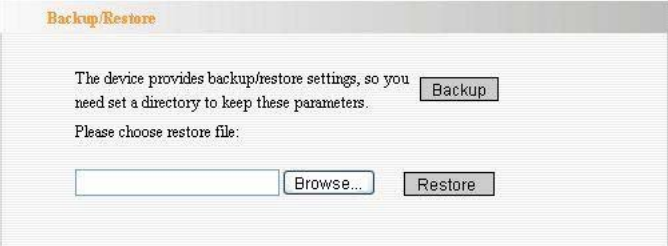
## Firmware Upgrade

The Router provides the firmware upgrade by clicking the “Upgrade” after browsing for the firmware upgrade packet which you can download from [www.tenda.cn](http://www.tenda.cn). After the upgrade is completed, the Router will reboot automatically.

**Browse:** Click this button to browse the directory where you download the firmware upgrade files.

**Upgrade:** Click this button to start upgrade.

**IMPORTANT: Do not power off the system during the firmware upgrade to avoid damaging the device. The Router will reboot after the upgrade.**



The screenshot shows a web interface titled "Backup/Restore". The text reads: "The device provides backup/restore settings, so you need set a directory to keep these parameters." followed by a "Backup" button. Below that, it says "Please choose restore file:" followed by an empty text input field, a "Browse..." button, and a "Restore" button.

## Restore to Factory Default Settings

This button is to reset all configurations to the default values. It means the Router will lose all the settings you have set. So please Note down the related settings if necessary.

**Restore to Factory Default Settings:** Click this button to restore to default settings.

Factory Default Settings:

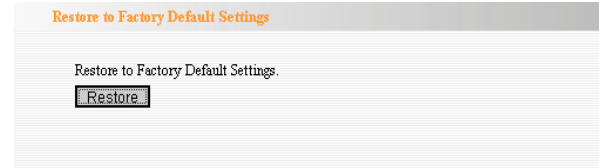
User Name: **admin**

Password: **admin**

IP Address: **192.168.0.1**

Subnet Mask: **255.255.255.0**

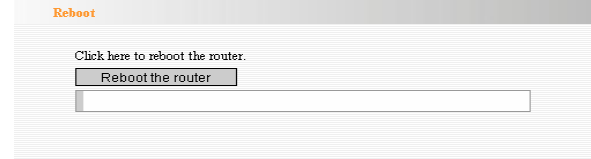
⚠ **NOTE: After restoring to default settings, please restart the device, then the default settings can go into effect.**



## Reboot

Rebooting the Router makes the settings configured go into effect or to set the Router again if setting failure happens.

**Reboot the router:** Click this button to reboot the device.



## Change Password

This section is to set a new user name and password to better secure your router and network. Please Note that the new password should be less than 14 characters.

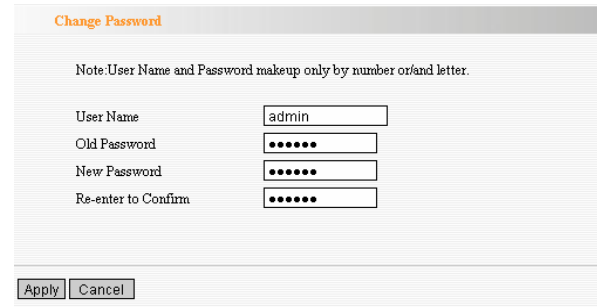
**User Name:** Enter a new user name for the device.

**Old Password:** Enter the old password.

**New Password:** Enter a new password.

**Re-enter to Confirm:** Re-enter to confirm the new password.

**⚠ NOTE:** *It is highly recommended to change the password to secure your network and the Router.*






## System Log

The section is to view the system log. Click the “Refresh” to update the log. Click “Clear” to clear all shown information. If the log is over 150 records, it will clear them automatically.

**Refresh:** Click this button to update the log.

**Clear:** Click this button to clear the current shown log.



The screenshot displays the 'System Log' interface. At the top, it says 'System Log' and 'Page 1 content'. Below this is a table with 10 rows of log entries. Each row contains a sequence number, a timestamp, an event type, and a description. At the bottom right of the table area, there are navigation links: '1' (highlighted), '[2]', and '[3]'. At the bottom of the interface, there are two buttons: 'Refresh' and 'Clear'.

1	2000-01-01 00:00:09	DHCP	Send discover
2	2000-01-01 00:00:12	DHCP	Send discover
3	2000-01-01 00:00:15	DHCP	Send discover
4	2000-01-01 00:00:21	System	system start.
5	2000-01-01 00:01:18	DHCP	Send discover
6	2000-01-01 00:01:21	DHCP	Send discover
7	2000-01-01 00:01:24	DHCP	Send discover
8	2000-01-01 00:00:09	DHCP	Send discover
9	2000-01-01 00:00:12	DHCP	Send discover
10	2000-01-01 00:00:15	DHCP	Send discover

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## **Appendix A: Product Features**

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- ◆ Integrates router, wireless access point, four-port switch and firewall in one
- ◆ Complies with IEEE802.11n, IEEE802.11b and IEEE802.11g standards
- ◆ MIMO technology utilizes reflection signal to increase eight times transmission distance of original 802.11g standard and reduces the "dead spots" in the wireless coverage area
- ◆ Provides 300Mbps receiving rate and 300Mbps sending rate
- ◆ Supports WMM to make your voice and video more smooth
- ◆ Supports 64/128-bit WEP, WPA, WPA2 encryption methods and 802.1x security authentication standards
- ◆ WPS (PBC and PIN) encryption method to free you from remembering long passwords
- ◆ Supports remote/local Web management
- ◆ Supports wireless Roaming technology and ensures high-efficient wireless connections
- ◆ Supports wireless SSID stealth mode and MAC address access control
- ◆ Supports Auto MDI/MDIX
- ◆ Provides system log to record the status of the router
- ◆ Supports MAC address filtering, NAT, NAPT
- ◆ Supports UPnP and DDNS
- ◆ Supports the access control over 30 MAC addresses
- ◆ Supports DHCP server/client
- ◆ Supports SNTP
- ◆ Supports virtual server and DMZ host
- ◆ Supports auto wireless channel selection
- ◆ Supports WDS function (wireless distribution system)