

Wireless-N Broadband Router

W308R

Notice :

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

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Chapter 1 Product Introduction

Thank you for purchasing the Tenda W308R Wireless Broadband Router!

This easy-to-use router provides simple configuration interface which enables you to configure it with ease. It is based on the latest IEEE802.11n standard, and is backward compatible with devices of IEEE802.11b/g standards.

The W308R , including router, wireless AP, four-port switch and firewall in one , provides powerful online monitor function and supports URL filter and MAC filter. With WDS function, it can repeat and amplify wireless signals so as to enlarge network coverage area. It truly supports UPnP and WMM to make your audio and video smoother. With QoS function, it can efficiently distribute the downloading rate for the clients. Additionally, with super compatibility, the router can break the access limits in some areas so that multiple computers can share the Internet access.

1.1 Package Contents

Please verify the following items after you open the package:

- One W308R Wireless Broadband Router
- One Quick Installation Guide
- One Power Adapter
- One Software CD

If any of the listed items are missing or damaged, please contact the Tenda reseller for immediate replacement.

1.2 LED Indicators and Port Description

Panel and LED indicators show:



LED indicator description on the front panel

LED indicator	Status	Description
POWER	Continuously lit	Indicates the router is on and has power.
SYS	Flashing	Indicates the router is operating correctly.
WAN	Continuously lit	Indicates the router' s WAN port is connected to an Ethernet device.
	Flashing	Indicates the port is transmitting and/or receiving data packets.
WLAN	Continuously lit	Indicates the wireless function is enabled.
	Flashing	Indicates it is wirelessly transmitting data
LAN(1/2/3/4)	Continuously lit	Indicates the router' s LAN port is connected to an Ethernet device.
	Flashing	Indicates the port is transmitting and/or receiving data.
WPS	Flashing	Indicates the device is communicating with the client in WPS mode.

Back panel port show



Back panel port description

Port/Button	Description
WAN	Can be connected to Ethernet devices such as MODEM, Switch, Router, etc.,. Usually it is used to connect DSL MODEM or Cable MODEM, or ISP network cable for connecting to the Internet.
LAN (1/2/3/4)	Can be connected to an Ethernet switch, Ethernet router, or NIC card. Mostly they are used to connect to computers, Ethernet switches, etc.
RESET/ WPS	The system reset/ WPS button. Press and hold this button for 7 seconds and all of the settings will be deleted and router settings will be restored to factory default. Hold the button for 1 second and the WPS feature will be enabled. The WPS LED will flash when communicating in this mode.
POWER	The jack is for power adapter connection. Please use the included standard power adapter.

Chapter 2 Product Installation

1. Please use only the included power adapter to power your router. (**NOTE:** Use of an unmatched power adapter could cause damage to this product).



2. Please connect the router's LAN port to your computer with an Ethernet cable as shown below.



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



4. Insert the included software CD into the CD drive of your computer. After the software automatically initiates, double click the “**Setup**” icon and follow the instructions to complete the installation. You can also enter the router's Web-based Utility to complete the configuration.



Chapter 3 How to configure to access the Internet

3.1 How to Set the Network Configurations

Network Configurations under windows XP

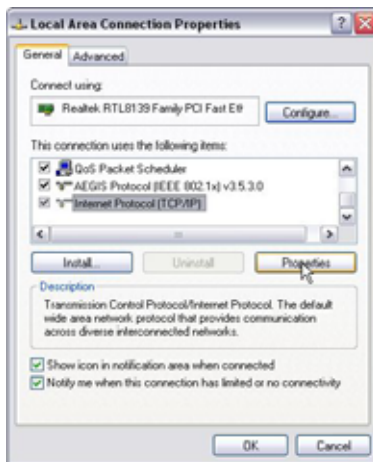
1. Right click **"My Network Places"** on your computer desktop and select **"Properties"**.



2. Right click **"Local Area Connection"** and select **"Properties"**.



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



4. 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 follows:

- **IP Address:** 192.168.0.XXX: (XXX is a number from 2~254)
- **Subnet Mask:** 255.255.255.0
- **Gateway:** 192.168.0.1
- **DNS server:** You should input the DNS server address provided by your ISP. Otherwise, you can enter 192.168.0.1. Click **“OK”** to save the configurations.



Network Configurations under windows 7

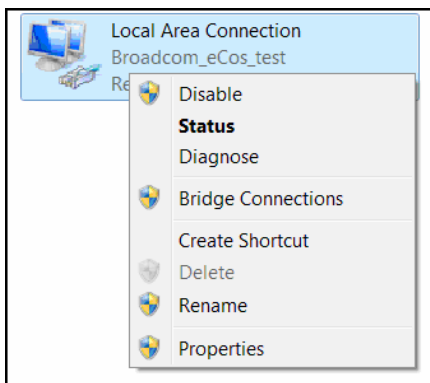
1. Click the network icon on the lower right corner of your computer desktop, and then click " Open Network and Sharing Center".



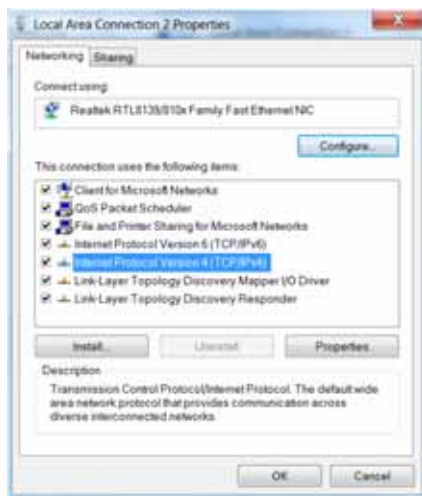
2. Click “Change adapter settings” on the left side of the window.



3. Right click “Local Area Connection” and select “Properties”.



4. Double click" Internet Protocol Version 4(TCP/IPv4)".



5. 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 follows:



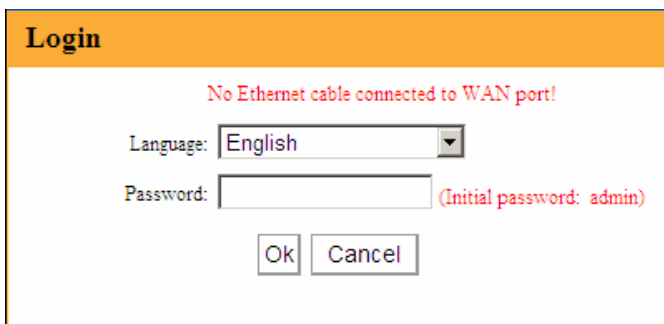
- **IP Address:** 192.168.0.XXX: (XXX is a number from 2~254)
- **Subnet Mask:** 255.255.255.0
- **Gateway:** 192.168.0.1
- **DNS server:** You should input the DNS server address provided by your ISP. Otherwise, you can enter 192.168.0.1. Click “OK” to save the configurations.

3.2 Log in to the Router

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



2. Type "admin" in the "Password" field. Click "OK".



3. If you enter the correct password, you will come to the router's web-based utility as is shown below.



3.3 Fast Internet Access

Two kinds of fast access methods are provided on the router's web-based utility: ADSL dial-up and DHCP.

If you select ADSL dial-up, you only need to enter the access account and access password as well as the wireless password, and then click "Ok" to complete the settings.



If you select DHCP, you only need to enter the wireless password and click "Ok" to complete the settings.



The default access method is ADSL dial-up and the access account and access password are the same as the ADSL dial-up account and password, which you can inquire your broadband ISP. For other access methods, please refer to WAN settings in chapter 4. The wireless password can only consist of 8 characters, the default is 12345678 and you can modify it when necessary.

3.4 Fast Encryption

The router provides two encryption setting screens, one is simple and easy, the other is advanced (For advanced setting, please refer to chapter 5.2).

Simple and easy screen:

Log on to the router's web-based utility and you may set encryption for the router. The default adopts WPA-PSK mode and AES Algorithm. The default password is 12345678, as shown below.



NOTE: The wireless password can only be 8 characters in length and the default is 12345678, you can modify it when necessary.

Chapter 4 Advanced Settings

4.1 System Status

System status screen allows you to view the router's WAN port status and system status.

WAN status:	
Connection status	Disconnected
WAN IP	
Subnet Mask	
Gateway	
DNS server	
Alternate DNS server	
Connection type	PPPoE
Connection time	00:00:00
<input type="button" value="Connect"/>	<input type="button" value="Disconnect"/>

- ✧ **Connection status:** It displays the router's WAN connection status.
Disconnected: It indicates the router's WAN port hasn't been connected with the network cable.
Connecting: It indicates the router's WAN port is obtaining IP address.
Connected: It indicates the Router is well connected with the ISP.
- ✧ **WAN IP :** IP address obtained from ISP.
- ✧ **Subnet mask:** Obtained from ISP.
- ✧ **Gateway:** Obtained from ISP.
- ✧ **DNS server:** Obtained from ISP.
- ✧ **Alternate DNS server:** Obtained from ISP.

- ✧ **Connection type:** It displays your current access method.

System status:	
LAN MAC address	00:22:33:00:25:22
WAN MAC address	00:22:33:00:25:22
System time	1970-01-01 00:28:42
Running time	00:28:42
Connected client	1
Software version	V5.11.002_multi
Hardware version	V0.1

- ✧ **LAN MAC address :** It displays the Router's LAN MAC address.
- ✧ **WAN MAC address :** It displays the Router's WAN MAC Address.
- ✧ **System time :** It displays the system's updated time
- ✧ **Connected client :** It displays the number of the connected computers (normally it displays the number of clients whose IP addresses obtained via DHCP server)
- ✧ **Software version :** It displays the Router's software version ;
- ✧ **Hardware version :** It displays the Router's hardware version.

4.2 WAN Settings

Virtual Dial-up (PPPoE)

The screenshot shows the Tenda router's configuration interface for WAN settings. The 'Mode' is set to 'PPPoE'. The 'Access Account' field contains 'tenda2011@163.com' and the 'Access Password' field is masked with asterisks. The 'MTU' is set to 1492. There are fields for 'Service name' and 'Server name'. Under 'Select the corresponding connection mode according to your situation', the 'Connect automatically' option is selected. Other options include 'Connect on demand', 'Connect manually', and 'Connect on fixed time'. A note states: 'Note: The "Connect on fixed time" function goes into effect only when you have set the custom time in "Time Settings" from "System Tools".' Below this, there are fields for 'Connection time' in hours and minutes. The page concludes with 'Ok' and 'Cancel' buttons.

- **Mode:** Show your current connection mode.
- **Access Account:** Enter the account provided by your ISP.
- **Access Password:** Enter the password provided by your ISP.
- **MTU:** Maximum Transmission Unit. It is the size of the largest data packet that can be sent over the

network. The default value is 1492. Do NOT modify it unless necessary, but if a specific website or web application software cannot open or be enabled, you can try to change the MTU value to 1450, 1400, etc.

- **Service Name:** The connection name for current PPPOE, enter it if necessary , otherwise, leave it blank.
- **AC Name:** The service name, enter it if necessary , otherwise, leave it blank.
- **Connect Automatically:** Connect automatically to the Internet after rebooting the system or connection failure.
- **Connect on Demand:** Re-establish your connection to the Internet after the specific time (Max Idle Time). Zero means you are connected to the Internet all times. Otherwise, enter the minutes to be elapsed before you are disconnected from the Internet.
- **Connect Manually:** Connect to the Internet by users manually.
- **Connect on Fixed Time:** Connect to the Internet during the time you fix automatically.

 **NOTE:**

The “**Connect on Fixed Time**” goes into effect only when you have set the current time in “**Time**”

settings” from “System tools”.

Static IP

If your ISP provides you the static IP, please choose static IP, and you need to enter the IP address, subnet mask, gateway, DNS server and alternate DNS server provided by your ISP or network administrator.



The screenshot shows the Tenda router's web interface. At the top, there is a navigation menu with tabs for Advanced settings, Wireless settings, DHCP server, Virtual server, Security settings, Routing settings, and System tools. Below the menu, there are links for System status, WAN settings (which is highlighted), LAN settings, DNS settings, Bandwidth control, and Traffic statistics. The main content area is a form for configuring the WAN connection. It includes a dropdown menu for 'Mode' set to 'Static IP'. Below this are input fields for 'IP address' (192.168.157.112), 'Subnet Mask' (255.255.255.0), 'Gateway' (192.168.157.254), 'DNS server' (192.168.157.254), and 'Alternate DNS server' (Optional). At the bottom of the form, there is a 'MTU' field set to 1500 with a note: 'DO NOT modify it unless necessary, the default is 1500'. 'Ok' and 'Cancel' buttons are located at the bottom right of the form.

- **Mode:** Show your current connection mode.
- **IP address:** Enter the WAN IP address provided by your ISP. If you are not clear, please inquire your local ISP.
- **Subnet mask:** Enter the WAN Subnet Mask provided by your ISP. Generally it is 255.255.255.0.
- **Gateway:** Enter the Gateway provided by your ISP. If you are not clear, please inquire your local ISP.

- **DNS server:** Enter the necessary DNS server provided by your ISP.
- **Alternate DNS server:** Enter the second DNS address if your ISP provides, which is optional.

Dynamic IP (Via DHCP)

If your connection mode is Dynamic IP, it means every time you access the Internet, you will get a different IP. You don't need to enter any parameters in this mode, just Click "OK" to finish the settings.



PPTP

The screenshot shows the PPTP configuration interface on a Tenda router. The interface includes a navigation menu at the top with tabs for 'Advanced settings', 'Wireless settings', 'DHCP server', 'Virtual server', 'Security settings', 'Routing settings', and 'System tools'. Below this is a secondary menu with links for 'System status', 'WAN settings', 'LAN settings', 'DNS settings', 'Bandwidth control', and 'Traffic statistics'. The main configuration area contains the following fields and options:

- Mode:** A dropdown menu set to 'PPTP'.
- PPTP server address:** An empty text input field.
- Username:** An empty text input field.
- Password:** An empty text input field.
- MTU:** A text input field containing the value '1452'.
- Address mode:** A dropdown menu set to 'Static'.
- IP address:** A text input field containing '0.0.0.0'.
- Subnet mask:** A text input field containing '0.0.0.0'.
- Gateway:** A text input field containing '0.0.0.0'.
- L2TP:** A checkbox that is checked.

At the bottom of the configuration area are two buttons: 'Ok' and 'Cancel'.

- **Mode:** Show your current connection mode.
- **PPTP server address:** The IP address or domain name of the destination server and it is used to specify the destination address which needs for PPTP connection.
- **Username/Password:** Used to validate identity when connecting to the PPTP server.
- **Address mode:** Set the router's IP address mode, you can select either "Dynamic" or "Static". If your ISP doesn't provide the IP address, please select "Dynamic".
- **IP address:** Please enter the IP address provided by your ISP, inquire your local ISP if you are not clear.

- **Subnet mask:** Please enter the subnet mask provided by your ISP ,generally its 255.255.255.0
- **Gateway:** Please enter the gateway provided by your ISP, inquire your local ISP if you are not clear.

All the above parameters are provided by ISP.

L2TP

The screenshot shows the Tenda router's configuration interface for L2TP. The navigation bar includes tabs for Advanced settings, Wireless settings, DHCP server, Virtual server, Security settings, Routing settings, and System tools. Below the navigation bar, there are links for System status, WAN settings, LAN settings, DNS settings, Bandwidth control, and Traffic statistics. The main configuration area includes fields for Mode (set to L2TP), L2TPServer address, Username, Password, MTU (set to 1452), Address mode (set to Static), IP address (0.0.0.0), Subnet Mask (0.0.0.0), and Gateway (0.0.0.0). There are Ok and Cancel buttons at the bottom.

- **Mode:** Show your current connection mode.
- **L2TP server address:** The IP address or domain name of the destination server and it is used to specify the destination address which needs for L2TP connection.
- **Username/Password:** Used to validate identity

when connecting to the L2TP server.

- **Address mode:** Set the router's IP address mode, you can select either "Dynamic" or "Static". If your ISP doesn't provide the IP address, please select "Dynamic".
- **IP address:** Please enter the IP address provided by your ISP, inquire your local ISP if you are not clear.
- **Subnet mask:** Please enter the subnet mask provided by your ISP ,generally its 255.255.255.0
- **Gateway:** Please enter the gateway provided by your ISP, inquire your local ISP if you are not clear.

All the above parameters are provided by ISP.

4.3 LAN Settings

Click “Advanced settings” –LAN settings to enter the following screen.



- **LAN MAC address:** The Router’s LAN MAC address, which is unchangeable.
- **IP address:** The Router’s LAN IP address (not your PC’s IP address).The default value is 192.168.0.1; you can change it when necessary.
- **Subnet mask:** The Router’s LAN subnet mask. The default value is 255.255.255.0

⚠NOTE:

Once you modify the IP address, you need to remember it for next time you log in to the web-based utility.

4.4 DNS Settings

DNS stands for Domain Name System (or Service).



- **DNS setting:** Select to enable the DNS server.
- **Primary DNS address:** Enter the necessary address provided by your ISP.
- **Alternate DNS address:** Enter the second DNS address if your ISP provides, which is optional.

NOTE:

After the settings are completed, reboot the device to activate the modified settings.

4.5 Bandwidth Control

Bandwidth control is used to limit the communication traffic of LAN computers when accessing the Internet. It can simultaneously control maximum of 254 PCs' traffic. In addition, IP address range configuration is supported.

The screenshot shows the Tenda router's web interface for configuring bandwidth control. The navigation bar includes: Advanced settings, Wireless settings, DHCP server, Virtual server, Security settings, Routing settings, and System tools. The current page is 'Bandwidth control', with other options like System status, WAN settings, LAN settings, DNS settings, and Traffic statistics visible. The main configuration area has a title 'Enable Bandwidth Control' with a checked 'Enable' checkbox. Below this are input fields for 'IP address' (containing '192.168.0'), 'Upload/Download' (a dropdown menu set to 'Upload'), and 'Bandwidth range' (with a unit of '(KBytes)'). There is an 'Add to list' button and a table with the following structure:

No.	IP segment	Destination	Bandwidth range	Enable	Edit	Delete
-----	------------	-------------	-----------------	--------	------	--------

At the bottom of the form are 'OK' and 'Cancel' buttons.

- **Enable Bandwidth Control:** To enable or disable the internal IP bandwidth control. The default is disabled.
- **IP Address:** The IP address range of the hosts whose traffic has been controlled. It can be a single IP address or IP address range.
- **Upload/Download:** To specify the traffic heading way for the selected IP addresses: upload or

download.

- **Bandwidth Range:** The maximum and minimum upload/download data traffic of the hosts in specified IP range. The unit is KByte/s. The uplink of upload and download can not exceed the WAN port bandwidth limitation range.
- **Enable:** To enable the current edited rule. Otherwise, the rule will not go into effect.
- **Add to list:** After you edit the rule, click the “**add to list**” button to add the current rule to the rule list.

Here we take 2Mbps bandwidth as an example. Theoretically, the biggest downloading rate for 2Mbps bandwidth is $2\text{Mbps}=256\text{KByte/s}$, and the biggest uploading rate is $512\text{kbps}=64\text{KByte/s}$

Example 1

If you want to set the download rate of the computer at the IP address of 192.168.0.100 as 80-90KByte/s, upload rate as 10-15KByte/s, first add one upload rule as shown in the picture below:

Enable Bandwidth Control Enable

IP address: 192.168.0.100

Upload/Download: Upload

Bandwidth range: 10 - 15 (KByte/s)

Enable:

Add to list

No.	IP segment	Destination	Bandwidth range	Enable	Edit	Delete
-----	------------	-------------	-----------------	--------	------	--------

OK Cancel

1. Enter 192.168.0.100 in the IP address field
2. Select upload in the Upload/Download field.
3. Enter 10-15 in the bandwidth range field
4. Select "Enable"
5. Click "Add to list"
6. Click "OK" to finish the upload rule settings.

And then add a download rule as shown in the picture below.



The setting method is the same as the above.

Example 2 Set the download rate of all computers within the range of 192.168.0.2--192.168.0.254 as 100-120KByte/s, and the upload rate as 20-30KByte/s, as shown in the picture below.



The setting method is the same as **Example 1**.

4.6 Traffic Statistics

Traffic statistics is used to display the bandwidth that LAN PC used.



Enable Traffic statistics: It is used to calculate the traffic used by the LAN computers. You can enable it to calculate the traffic for you. Usually, disable it to improve the router's data packet processing ability, and the default is disabled. When this function is enabled, the webpage will refresh automatically every five minutes, meanwhile, each computer's traffic value will refresh automatically.

- **IP address:** the IP address of the computer whose traffic is being calculated.
- **Uplink rate:** the data sending speed per second, the unit is KByte/s.
- **Downlink rate:** the data receiving speed per

second, the unit is KByte/s.

- **Sent message:** the number of the calculated computer's data packets that are sent out through the router.
- **Sent Bytes:** the volume of the calculated computer's statistics that is sent out through the router
- **Received message:** the number of the calculated computer's the data packets that are received through the router.
- **Received Bytes:** the volume of the calculated computer's statistics that is received through the router.

Chapter 5 WLAN Settings

5.1 Wireless Basic Settings



- **Enable wireless function:** Select to enable the Router's wireless features; deselect to disable it and all functions related with wireless are disabled.
- **Wireless working mode:** This router provides two kinds of working modes: Wireless Access Point(AP) and Network Bridge (WDS)

Wireless Access Point (AP)

- **Network Mode:** Select one mode from the

drop-down list.

11b mode : Select it if you have only Wireless-B clients in your network.

11g mode : Select it if you have only Wireless-G clients in your network.

11b/g mixed mode: Select it if you have only Wireless-B and Wireless-G clients in your network.

11b/g/n mixed mode: Select it if you have Wireless-B, Wireless-G and Wireless-N clients in your network.

- **SSID**: It is the unique name of the wireless network and can be modified. The SSID must be entered.
- **Broadcast (SSID)**: Select “**Enable**” to enable the router’ SSID to be scannable by wireless devices. The default is enabled. If you disable it, the wireless devices must know the SSID for communication.
- **Channel**: The currently used channel by the router. Select an effective channel (from 1 to 13\Auto) of the wireless network.
- **WMM Capable**: Enable it to enhance the transfer performance of the wirelessly transferred multimedia data (such as video or online playing). We recommend enabling this option if you are not familiar with WMM.

- **APSD Capable:** It is used for auto power-saved service. The default is disabled.
- **Channel bandwidth:** Select an appropriate channel bandwidth to enhance the wireless performance. Select 20/40M when the network has 11b/g and 11n wireless clients. Select 20M when the network has only non-11n wireless clients. Select 20/40M to promote its throughput when the wireless network is in 11n mode.
- **Extension Channel:** To confirm the network's frequency range in 11n mode.

Network Bridge (WDS) Settings

WDS (Wireless Distribution System) is used to expand wireless coverage area.



- **AP MAC address:** Input the MAC address of another (opposing) wireless router you want to connect.

Example: This example is to bridge two 316R routers.
1. If you know the connecting router's MAC address, please enter it into the AP MAC address field and click "Ok".



2. You can also search for the wireless router's signal by scanning.

a) Click "Open scan" and click the scanned signal and click the "Ok" button on the dialog box and the corresponding wireless MAC address will be added to the AP MAC address field automatically.



b) Click "Ok" after the MAC address is added.



After finishing the above steps, you need to set the other W308R router in the same way.

NOTE: WDS feature requires both routers support this function and the SSID, channel, encryption method and password are the same as those of the connecting router.

5.2 Wireless Security Settings

With the wireless security function, you can prevent others from connecting to your wireless network and using the network resources without your consent. Meanwhile, you can also block illegal users from

intercepting or intruding your wireless network.


5.2.1 WPS Settings

WPS (Wi-Fi Protected Setting) makes it quick and easy to establish a secure connection between the wireless clients and the router. The users only need to enter a PIN code or press WPS button on the back panel to configure it without manually selecting an encryption method or set a key.



- **WPS settings:** To enable or disable WPS function. The default is **“Enable”**.

- **WPS mode:** Provide two ways: PBC (Push-Button Configuration) and PIN code.
- **PBC:** Select the PBC and click **Ok**, or press and hold the WPS button on the back panel of the device for about one second. The WPS LED indicator will be flashing for 2 minutes, which means the WPS is enabled. During this time (flashing WPS LED), you can enable the wireless client to implement the WPS/PBC negotiation between them. When the WPS connection is completed, the LED indicator will be continuously lit. To add more clients, repeat the above steps.)
- **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 WPS client.
- **Reset OOB:** Press this button, the WPS client will be in an idle state, and the WPS indicator will turn off. AP will not respond to the WPS client's connection request and will set the security mode as Open-None (Disable) mode.

 **NOTE:** The use of WPS function requires the wireless adapter to support this function.

5.2.2 WPA- PSK

WPA guarantees to protect WLAN users' data and only the authorized network users can have access to WLAN.



- **WPA Algorithms:** Provides TKIP [Temporal Key Integrity Protocol] or AES [Advanced Encryption Standard].
- **Key:** Enter the pass phrase that consists of 8-63 ASCII characters.
- **Key Renewal Interval:** Set the key's renewal period, which tells the device how often it should change the dynamic keys.

5.2.3 WPA2- PSK

WPA2 (Wi-Fi Protected Access version 2) provides higher security than and WPA (Wi-Fi Protected Access).



- **WPA Algorithms:** Provides TKIP [Temporal Key Integrity Protocol] or AES [Advanced Encryption Standard].
- **Key:** Enter the pass phrase that consists of 8-63 ASCII characters.
- **Key Renewal Interval:** Set the key's renewal period, which tells the device how often it should change the dynamic keys.

5.3 Wireless Access Control

Wireless access control is actually based on the MAC address to permit or forbid specific clients to access the wireless network.



- **MAC address filter:** “**Permit**” indicates to allow the clients in the list to access the wireless network, “**Forbid**” indicates to prevent the clients in the list from accessing the wireless network.
- **Configure MAC address:** Input the MAC addresses of the wireless clients to implement the filter policy. Click “**Add**” to finish the MAC add operation.
- **MAC Address list:** Show the added MAC addresses. You can add or delete them.

5.4 Connection Status

This screen shows wireless client's connection status, including MAC address, Channel bandwidth.



- **MAC address:** Shows the MAC addresses of the hosts connected to the Router.
- **Bandwidth:** Shows the channel bandwidth of the current connected hosts (wireless clients).

Chapter 6 DHCP Server

6.1 DHCP Server

DHCP (Dynamic Host Control Protocol) is used 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 start and end address of the IP Address pool is needed.



- **DHCP server:** Check the **Enable** box to enable DHCP server.
- **IP pool start/end address:** Enter the range of IP addresses for DHCP server distribution.
- **Lease time:** It indicates the valid time of the dynamic IP address which is distributed to the DHCP client's host computer by DHCP server. During this time, the server will not distribute the IP address to any other host computer.

6.2 DHCP Client List

DHCP client list displays user computer' IP address, MAC address, host name and other information which

are assigned by the DHCP server. You can manually enter the IP and MAC address and convert them to static assignment.



- **Host name:** It displays the name of the computer whose IP is allocated by the DHCP server.
- **IP address:** Enter the IP address which needs static binding.
- **MAC address:** Enter the MAC address of the computer you want to bind. Click "**Add**" to add the entry in the list.
- **Lease time:** The remaining time length of the corresponding IP address lease.

Chapter 7 Virtual Server

7.1 Port Range Forwarding



- **Start/End port:** Enter the start/end port number which ranges the External ports used to set the server or Internet applications.
- **LAN IP:** Enter the IP address of the PC which you want to set as the server.
- **Protocol:** Select the protocol (TCP/UDP/Both) for the application. If you are not clear about the

protocol you are using, you can select "Both".

- **Enable:** Click the **Enable** checkbox to bring the set rule into effect.
- **Delete:** Clear all settings of this item.
- **Well-known service port:** The well-known protocol ports are listed in the drop-down list. Select one and select a sequence number in the ID drop-down list and then click "Add", this port will be added automatically to the ID list. For other well known service ports that are not listed, you can manually add them to the list.
- **Add to:** Add the selected well-known port to the policy ID.

For Example: You want to share some large files with your friends outside of your local area network, however, they are too big, and it's not convenient to transfer them. Then, you can build a FTP server on your computer and set the router's port range forwarding to enable your friends to access to these files on your computer. Suppose that your FTP server or your computer's static IP address is 192.168.0.10, and you wish your friends can access the server through the default port 21 and adopts TCP protocol.

Please follow the steps below to configure.

1. Enter 21 in both start port and end port fields, or you can also select FTP from the well-known service port

and its port 21 will be added to the corresponding field automatically.

2. Enter 192.168.0.10 in the LAN IP column, and then select “Both” as the protocol and select “Enable”.

3. As the picture shown below.



4. Click the “Ok” button to save the settings.

And now, when your friends want to visit the FTP server, they only need to enter ftp://xxx.xxx.xxx.xxx: 21 in the address field. Here, xxx.xxx.xxx.xxx means the router’s WAN IP address. For example, when your router’s WAN IP address is 172.16.102.89; your friends need to enter

ftp://172.16.102.89:21 in the address field.

 **NOTE:**

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

7.2 DMZ Settings

The DMZ Settings screen allows one local computer to be exposed to the Internet for use of a special-purpose service such as Internet gaming or videoconferencing. DMZ hosting forwards all the ports at the same time to one PC.



- **DMZ Host IP Address:** The IP address of the LAN computer you want to set as DMZ host.
- **Enable:** Check to enable the DMZ host.

For example:

Set the computer at the IP address of 192.168.0.10 as DMZ host to connect another host on the Internet for intercommunication.

NOTE: When the DMZ host is enabled, the firewall settings of the DMZ host will not function.

7.3 UPnP Settings

UPnP (Universal Plug and Play). With the UPnP function, the internal host can request the router to process some special port switching so as to enable the external host to visit the resources of the internal host.



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

⚠NOTE: This function goes into effect under Windows XP or Windows ME (**NOTE:** the system should integrate or have installed the Directx 9.0) or this function would go into effect if you have installed software that supports UPnP.

Chapter 8 Security Settings

8.1 Client Filter Settings

You can enable client filter to control LAN computers' access to some ports of the Internet.

The screenshot displays the Tenda router's web interface for Client Filter Settings. At the top, the Tenda logo is visible. Below it is a navigation menu with tabs for 'Advanced settings', 'Wireless settings', 'DHCP server', 'Virtual server', 'Security settings', 'Routing settings', and 'System tools'. Under the 'Security settings' tab, there are links for 'Client Filter Settings', 'MAC Address Filter Settings', 'URL Filter Settings', and 'Remote Web Management'. The main content area shows the 'Client Filter Settings' form. The 'Filter Mode' is set to 'Forbid only'. The 'Access Policy' is set to '(1)'. The 'Remark' field is empty. The 'Start IP' is '192.168.0' and the 'End IP' is '192.168.0'. The 'Port' field is empty. The 'Type' is set to 'TCP'. The 'Time' is set to '0:00-0:00'. The 'Day' is set to 'Sunday-Saturday'. The 'Enable' checkbox is checked. There are 'Clear this item' and 'Clear' buttons, and 'OK' and 'Cancel' buttons at the bottom.

- **Filter Mode:** You can select either “Permit only” or “Forbid only”.
- **Access Policy:** Select one number from the drop-down list.
- **Remark:** A simple description of the configured file. You can also leave it blank.
- **Start/End IP:** Enter the start/end IP address.

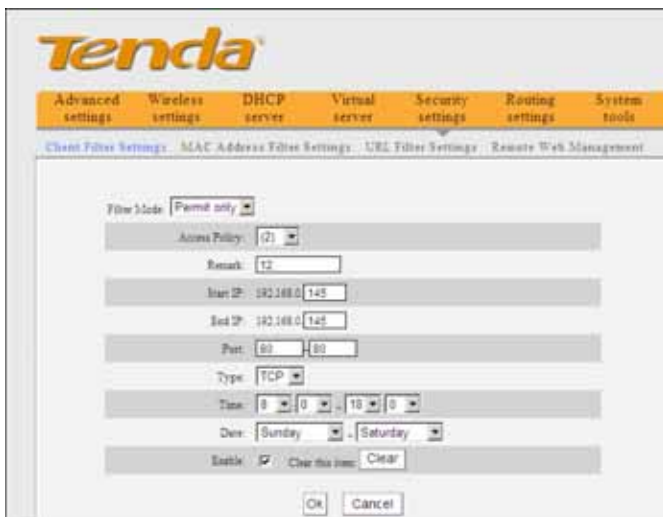
- **Port:** Enter the controlled TCP/UDP protocol port. You can specify a port or port range.
- **Type:** Select one protocol (TCP/UDP/Both) from the drop-down list.
- **Time:** Select the time range of client filter.
- **Date:** Select the day(s) to run the access policy.
- **Enable:** To enable/disable the access policy (forbid/permit the packets matched with the access policy to pass through the router).

Example1 Forbid LAN computers at the IP addresses of 192.168.0.100--192.168.0.120 to access the Internet.



Example 2 Permit LAN computer with the IP address of 192.168.0.145 to access websites during 8:00 to

18:00 from Sunday to Saturday.



8.2 MAC Address Filter

You can limit the computer's access to Internet by MAC Address Filter.



- **Filter mode:** You can select either “Permit only” or “Forbid only”.
- **Access Policy:** Select one number from the drop-down list.
- **Remark:** A simple description of the configured file. You can also leave it blank.
- **MAC Address:** Enter the MAC address you want to run the access policy.
- **Time:** Select the time range of MAC address filter.
- **Date:** Select the day(s) to run the access policy.
- **Enable:** To enable/disable the access policy (forbid/permit the packets matched with the access policy to pass through the router).

Example 1 Forbid the computer with the MAC address

of 00:E0:4C:69:A3:23 to access Internet during 8:00 to 18:00 from Monday to Friday.



Example 2 Permit the computer with the MAC address of 00 : E4 : A5 : 44 : 35 : 69 to access Internet from Monday to Friday.



8.3 URL Filter Settings

You can use URL filtering to forbid their access to certain websites at a specified time.

The screenshot displays the 'URL Filter Settings' interface on a Tenda router. The top navigation bar includes 'Advanced settings', 'Wireless settings', 'DHCP server', 'Virtual server', 'Security settings', 'Routing settings', and 'System tools'. Below this, there are links for 'Client Filter Settings', 'MAC Address Filter Settings', 'URL Filter Settings', and 'Remote Web Management'. The main configuration area contains the following elements:

- Filter Mode:** A dropdown menu currently set to 'Forbid only'.
- Access Policy:** A dropdown menu currently set to '(1)'.
- Remark:** An empty text input field.
- Start IP:** A text input field containing '192.168.0'.
- End IP:** A text input field containing '192.168.0'.
- URL character string:** An empty text input field.
- Time:** Two time selection fields, both set to '0:00'.
- Day:** Two day selection dropdowns, the first set to 'Sunday' and the second to 'Saturday'.
- Enable:** A checked checkbox with a 'Clear this item' button next to it.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

- **Filter Mode:** You can select either “Permit only” or “Forbid only”.
- **Access Policy:** Select one number from the drop-down list.
- **Remark:** A simple description of the configured file. You can also leave it blank.
- **Start/End IP:** Enter the start/end IP address.
- **URL character string:** Specify the text strings or keywords needed to be filtered.

- **Time:** Select the time range of URL filter.
- **Date:** Select the day(s) to run the access policy.
- **Enable:** To enable/disable the access policy (forbid /permit the packets matched with the access policy to pass through the router).

Example1 Forbid all computers on LAN to access baidu.com during 8:00 to 18:00 from Monday to Friday.



Example2 Permit LAN computers with the IP addresses of 192.168.0.100-192.168.0.115 to access yahoo.com.



NOTE: Enter only one domain name for each access policy for one access policy can only filter one domain name. So, if you want to filter multiple domain names, you need to set multiple access policies

8.4 Remote Web Management

This section instructs how to allow the network administrator to manage the Router remotely. If you want to access the Router from outside of the local network, please click the checkbox after “Enable”.



- **Enable:** Check to enable remote web management.
- **Port:** The management port open to outside access. The default value is 80.
- **IP Address:** Specify the range of the IP addresses of the computers on the Internet for remote management.

⚠NOTE:

1. If you want to log in the device's Web-based Utility via port 8080, you need to use the format of WAN IP address: port (for example `http://220.135.211.56:8080`) to implement remote login.
2. If your WAN IP address starts and ends with 0.0.0.0, it means all hosts on the Internet can implement remote Web management. If you change the Internet IP address as 218.88.93.33-218.88.93.35, then only the computers at the IP addresses of 218.88.93.33, 218.88.93.34 and 218.88.93.35 can access the

Router to implement remote web management.

For example:

If you want to configure the computer at the IP address of 218.88.93.33 to access the router's web-based utility via port 8080, please set the parameters as above.

Chapter 9 Routing Settings

9.1 Routing Table

This page shows the router's core routing table.



Destination IP	Subnet mask	Gateway	Hops	Interface
192.168.0.0	255.255.255.0	192.168.0.0	0	br0

Refresh

The main duty for a router is to look for a best path for every data packet, and transfer this data packet to a destination station. In order to fulfill this function, many transferring paths, i.e. routing table, are saved in the router, for choosing when needed.

9.2 Static Routing

This screen is used to set the router's static routing. A static route is a pre-determined pathway that network information must travel to reach a specific host or network.



Destination network IP address: The destination host or IP segment you visit.

Subnet mask: Enter the subnet mask, generally it is 255.255.255.0

Gateway: The entry IP address of the next router.

⚠NOTE:

1. The gateway must be at the same net segment with the router's LAN IP.
2. If the destination IP address is one host' address, then the subnet mask must be 255.255.255.255.
3. If the destination IP address is an IP segment, then it must match with the subnet mask. For example, if the destination IP is 10.0.0.0 then the subnet mask must be 255.0.0.0

Chapter 10 System Tools

10.1 Time Settings

This section is to configure the router's system time. You can set it manually or obtain the GMT time from the Internet.



- **Time zone:** Select the time zone where you are operating the Router from the drop-down list.
- **Customized time:** Enter the time you wish to configure.

NOTE:

When the Router is powered off, the time settings will be lost. The router will obtain the GMT time automatically when you next time access the

Internet. Only when you connect to the Internet and obtain the GMT time or set the time on this screen, can the time settings in other functions (e.g. security settings) take effect.

10.2 DDNS

The DDNS (Dynamic Domain Name System) is supported in this Router. It is used to assign a fixed host and domain name to a dynamic Internet IP address. Every time you access the Internet, the dynamic domain name software installed on your host will tell the ISP'S host server its dynamic IP address by sending messages. And the server software is responsible for providing DNS service and implementing dynamic domain name resolution.

Tenda

Advanced settings Wireless settings DHCP server Virtual server Security settings Routing settings System tools

Time Settings **DDNS** Backup Restore Restore to Factory Default Upgrade Reboot the router Change Password Syslog

DDNS Service Enable Disable

Service Provider: 3322.org Sign up

User name: tenda

Password: 123456

Domain Name: tenda.3322.org

Ok Cancel

➤ **Main features:**

1. Mostly, your ISP provides a dynamic IP address and the DDNS is used to capture the changeable IP address and match to the fixed domain. Then users can have access to the Internet to communicate with others outside the network.

2. DDNS can help you to establish a virtual host in your home or company.

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

➤ **Service provider:** Select one from the drop-down list and click "**Sign up**" for registration.

➤ **Username:** Enter the username that you use to register from the DDNS provider

➤ **Password:** Enter the password that you use to register from the DDNS provider

➤ **Domain name:** Enter the effective registered domain name

For example:

Establish a Web server in the local host 192.168.0.10 and register in 3322.org as follows:

Username	Tenda
Password	123456
Domain Name	tenda.3322.org

After mapping the port in the virtual server, and setting

account information in DDNS server, you can then access the web page by entering <http://tenda.3322.org> in the address field.

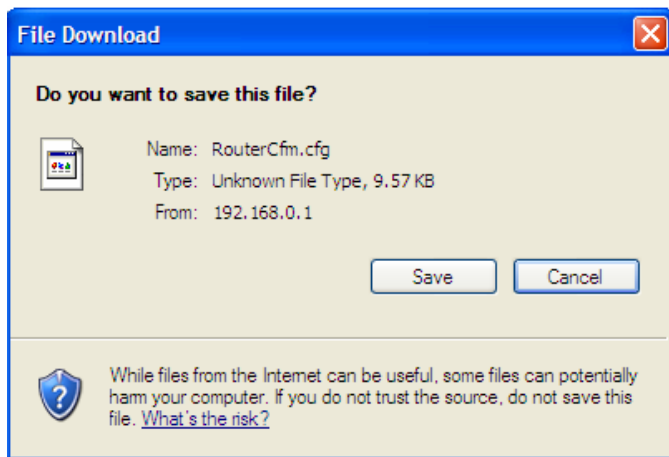
10.3 Backup/Restore

On this screen, you can back up the router's current settings or restore previous settings.



➤ **Backup Setting:**

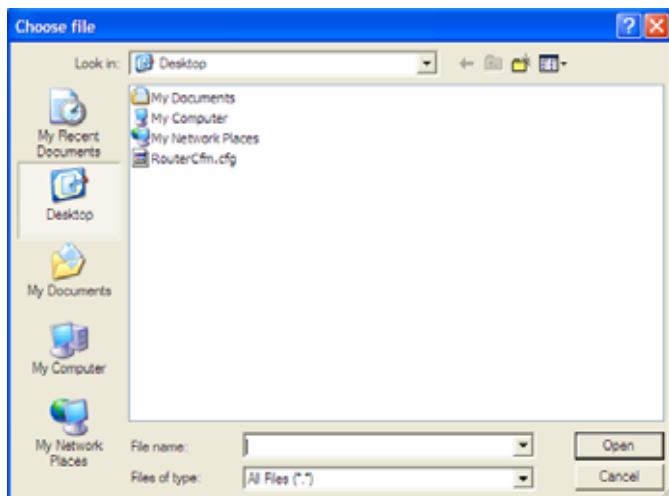
Click the **Backup** button to back up the Router's settings and select a path to save them.



Click the **“Save”** button to save the configuration files.

➤ **Restore Setting:**

Click the “**Browse**” button to select the backup files.



Click the “**Restore**” button to restore previous settings.



10.4 Restore to Factory Default

This screen allows you to restore all settings to the factory default values.



- **Restore:** Click this button to restore to default settings.
- **Factory default settings:**
 - Password:** admin
 - IP address:** 192.168.0.1
 - Subnet mask:** 255.255.255.0

NOTE:

After restoring to default settings, please restart the router to make the default settings effective.

10.5 Upgrade

By upgrading the router's software, you'll get better software version and appreciated routing function. Before upgrading, download the Router's software

upgrade file from our website, www.tenda.cn.



- **Browse:** Click this button to select the upgrade file.
- **Upgrade:** Click this button to start the upgrading process. After the upgrade is completed, the router will reboot automatically.

10.6 Reboot the Router

Reboot the router to make the configuration effective. The router will cut its WAN connection automatically after rebooting.



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

10.7 Password Change

This section is to set a new password to better secure your router and network.



- **Old password:** Enter the old password.
- **New password:** Enter a new password.

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

 **NOTE:**

To secure the router and your network, it is highly recommended that you change the initial password.

10.8 Syslog

The section is to view the system log. You can view various conditions appearing after system start, and also check whether there's an attack on the network. The log can record at most 150 entries.



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

10.9 Log out

After all settings are finished, please click " Log out" to exit securely and completely.

Appendix 1 Glossary

Channel:

An instance of medium use for the purpose of passing protocol data units (PDUs) that may be used simultaneously, in the same volume of space, with other instances of medium use (on other channels) by other instances of the same physical layer (PHY), with an acceptably low frame error ratio (FER) due to mutual interference.

SSID:

SSID (Service Set Identifier) is the network name shared by all devices in a wireless network. Your network's SSID should be unique to your network and identical for all devices within the network. It is case-sensitive and must not exceed 20 characters (use any of the characters on the keyboard). Make sure this setting is the same for all devices in your wireless network.

WPA/WPA2 Encryption:

A security protocol for wireless networks that builds on the basic foundations of WEP. It secures wireless data transmission by using a key similar to WEP, but the added strength of WPA is that the key changes dynamically. The changing key makes it much more difficult for a hacker to learn the key and gain access to

the network. WPA2 is the second generation of WPA security and provides a stronger encryption mechanism through Advanced Encryption Standard (AES), which is a requirement for some government users.

802.1x authentication

Static WEP key is difficult to manage for when you change the key, you will have to inform all others, and if the key is disclosed in one of the places, the key can no longer provide security. Besides, there's severe security loophole about static WEP encryption. The WEP key can be decrypted after one person receives a specific amount of data via wireless intercepting. 802.1x is initially used for wired Ethernet authentication access to prevent illegal users from accessing the network. Later, it is found that 802.1x can better solve the wireless network security problem. EAP-TLS of the 802.1x successfully achieves the two-way authentication between users and networks, i.e. can prevent illegal users from accessing the network and can also prevent users from accessing the illegal AP. 802.1x utilizes dynamic WEP encryption to protect the WEP key from being decrypted. To solve the publishing problem for digital certification, people make some changes to TLS authentication and TTLS and EAP come into exist, which enable you to access the network by using the traditional way of authentication: username and password.

Appendix 2 Product Features

- Supports IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, IEEE 802.3 and IEEE 802.3u standards.
- 5dBi high gain omni-directional antenna, with strong signals and long transmission distance.
- Wireless transmission rate up to 150Mbps
- Provides one 10/100Mbps auto-negotiation Ethernet WAN port to connect to the Wide Area Network
- Provides four 10/100Mbps auto-negotiation Ethernet LAN ports to connect to the Local Area Network
- Supports Auto MDI/MDIX
- Supports xDSL/Cable MODEM, static and dynamic IP in community broadband networking
- Includes router, wireless access point, four-port switch and firewall all in one
- Supports WPA-PSK, WPA2-PSK, and WPA-PSK & WPA2-PSK mixed security modes
- Supports WPS button
- Supports hidden SSID function and MAC address-based access control
- Supports WMM to make your audio and video smoother
- Supports SNTP
- Supports UPnP and DDNS

- Supports WDS to extend wireless network
- Supports virtual server, DMZ host
- Provides syslog to record the running status of the router

Appendix 3 FAQ

This section provides some solutions to the problems which may occur during the router's installation or usage. The instructions below may help you deal with the problems. If your problem is not in the list, please log into our website www.tenda.cn or send an E-mail to support@tenda.cn, and we will reply to you at the earliest time.

1. Can not log in to the Web-based Utility of the router after you enter the IP address in the address field?

Step 1: Check if the router is working correctly, after the device is powered on for a few seconds, the SYS indicator on the front panel should light up. If it is not, please contact us.

Step 2: Check the network cables are connected correctly and the corresponding LED indicator lights up. Sometimes, the indicator lights up, but it does not mean it is functioning.

Step 3: Run "Ping" command and check if it can ping

the Router's LAN IP address 192.168.0.1 (open "Command Prompt" and type "Ping 192.168.0.1" and then enter). If it is OK, please make sure your browser does not access the Internet by proxy server. If the ping fails, you can press the "RESET" button for 7 seconds to restore to default settings. And then repeat the ping operation. If it still does not work, please contact us.

2. Forgot the login password and cannot enter the Web-based Utility. What can I do?

Press the "RESET" button for 7 seconds to restore the Router to default settings.

3. The computer connected with the Router shows IP address conflict. What can I do?

Check if there are other DHCP servers in the LAN and if there are then disable them. The default IP address of the router is 192.168.0.1 please make sure the address is not being used by any other device. If there are two computers with the same IP address, please change one of them.

4. I cannot use E-mail and access the Internet. What can I do?

Sometimes happens with ADSL connection and Dynamic IP users. You may need to modify the default MTU value (1492). Please open the "WAN Setting" and modify the MTU value with the recommended value as

1450 or 1400.

5.How to share my computer's resource with other users in Internet ?

If you want Internet users to access the internal server via the router such as: e-mail server, Web, FTP. You can configure the "**Virtual Server**".

Step 1: create your internal server, make sure the LAN users can access these servers and know related service port. For example, Web server's port is 80; FTP is 21; SMTP is 25 and POP3 is 110.

Step 2: In the router's web click "**Virtual Server**" and select "**Port Range Forwarding**".

Step 3: Input the service port provided by the router (i.e. the external port) for mapping the internal and external network, for example, 80-80.

Step 4: input the internal Web service port, for example, 80-80.

Step 5: Input the internal server's IP address. For example, if your Web server's IP address is 192.168.0.10, please input it.

Step 6: select the communication protocol used by your internal host: TCP, UDP, Both.

Step 7: click "**Ok**" to activate the settings.

The following table lists some well-known applications and their respective service ports:

Server	Protocol	Service Port
--------	----------	--------------

WEB Server	TCP	80
FTP Server	TCP	21
Telnet	TCP	23
NetMeeting	TCP	1503、1720
MSN Messenger	TCP/UDP	File Send: 6891-6900(TCP) Voice: 1863、6901(TCP) Voice: 1863、5190(UDP)
PPTP VPN	TCP	1723
Iphone5.0	TCP	22555
SMTP	TCP	25
POP3	TCP	110

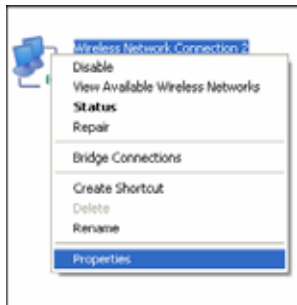
Appendix 4 Clear Wireless Configuration

Clear Wireless configuration file under windows XP

1. Right click **"My Network Places"** on your computer desktop and select **"Properties"**.



2. Right click **"Wireless Network Connections"** and select **"Properties"**.

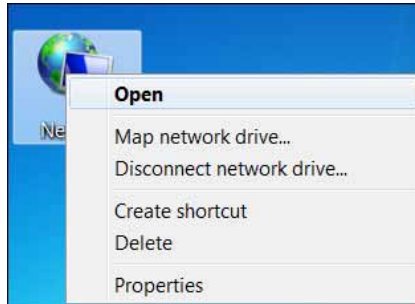


3. Click “Wireless Network Configuration” and clear the corresponding wireless configuration file as shown below.



Clear Wireless configuration file under windows 7

1. Right click “Network” and click “Properties”.



2. Click "Manage wireless networks" on the left side of the window.



3. Delete the corresponding configured file in the "Manage wireless networks".



Appendix 5 Regulatory Information

EU Declaration or Declaration of Conformity

Hereby, SHENZHEN TENDA TECHNOLOGY CO.,LTD, declares that this Wireless Broadband Router is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

FCC Statement

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

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

"The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter."

FCC Radiation Exposure Statement

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

Caution!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.