Model: W303R

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Chapter 1 Product Introduction

Thank you for purchasing the Tenda Wireless N 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 Tenda wireless router, 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. With super compatibility, the router can break the access limits in some areas so that multiple computers can share the Internet access. Additionally, it supports WISP function to access to the ISP's wireless hotspots (this function applies only to some of the products).

1.1 Package Contents

Please verify the following items after you open the package:

- > One Wireless N 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.
	Continuously lit	Indicates the router' s WAN port is connected to an Ethernet device.
WAN	Flashing	Indicates the port is transmitting and/or receiving data packets.
WIAN	Continuously lit	Indicates the wireless function is enabled.
WLAN	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 (take W316R as an example)



Back panel port description

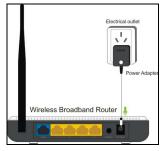
Port/Button	Description
	Can be connected to Ethernet devices such as MODEM, Switch, Router, $etc_{\underline{v}}$
WAN	Usually it is used to connect DSL MODEM or Cable MODEM, or ISP
	network cable for connecting to the Internet.
LAN	Can be connected to an Ethernet switch, Ethernet router, or NIC card.
(1/2/3/4)	Mostly they are used to connect to computers, Ethernet switches, etc.
	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
RESET/ WPS	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.
DOWER	The jack is for power adapter connection. Please use the included standard
POWER	power adapter.

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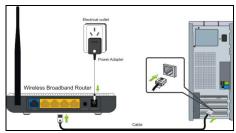
Chapter 2 Product Installation

In this user guide, we take W316R as an example to explain the installation steps. The installation steps of other products are similar to this one.

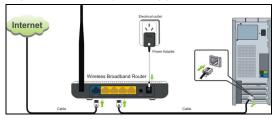
1. Please use only the included power adapter to power your router. (**NOTE**: Use of an unmatched power adapter could cause damage to this product).



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.



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Chapter 3 How to configure to access the Internet

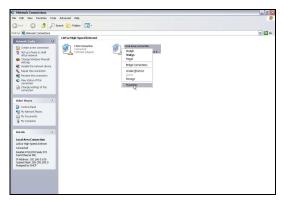
3.1 How to Set the Network Configurations

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".

	inced			
Connect using):			
📖 Realte	RTL8139	Family PCI Fast Eth	Config	ure
This connecti	on uses the	following items:		
🗹 🔒 QoS				~
		(IEEE 802.1x) v3.5	.3.0	-
Inter	net Protoco	TCP/IPJ		~
<		10		>
Install.		Uninstall	Proper	ies
Description			P.0	
	etwork prot	rotocol/Internet Pro ocol that provides inected networks.		
wide area r				
wide area r across dive	in notificati	on area when conr	ected	
wide area r across dive Show icon		on area when conr onnection has limite		stivity

4. Select "Obtain an IP address automatically" and "Obtain DNS server address automatically". Click "OK" to save the configurations.

ieneral	Alternate Config	guration			
this cap	n get IP settings ability. Otherwise ropriate IP setting	e, you need			
O (و)	tain an IP addre	ess automati	cally		
OU	e the following I	P address:			
IP at	ldress:				
Subr	iet mask:				0
Defa	ult gateway:				21
o دا	atain DNS server	r address au	tomatically		
OU	e the following D	ONS server	addresses: -		
Prefe	rred DNS server				
Alter	nate DNS server		1		-
				(Advance

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.

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	fautomatically if your network supports ed to ask your network administrator for
🔿 Obtain an IP address auton	natically
O Use the following IP address	s:
IP address:	192.168.0.2
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server address	automatically
Use the following DNS serv	er addresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	05 05 50
	Advanced

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".

Currently connected to: Broadcom_eCos_test Internet access	6 9	*
Wireless Network Connection 2	^	Ш
Broadcom_eCos_test Connected	llee	
Tenda_240032	\$ 11	
Tenda_CC0002	\$ 11	
11n AP	311	
Unicorn_010368	311	
Tenda_010380	311	
Tenda	Mee	-
Open Network and Sharing Cer	iter	

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)".

Connect using:		
	9/810x Family Fast Ethen	net NIC
This connection uses th	e following items:	Configure
 ✓ Internet Protoco ✓ Internet Protoco ✓ Link-Layer Top 	heduler Sharing for Microsoft Net	I/O Driver
Link-Layer Top		
Install	Uninstall	Properties

5. Select "Obtain an IP address automatically" and "Obtain DNS server address

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automatically". Click "OK" to save the configurations.

eneral	Alternate Configuration				
support	n get IP settings assigned a ts this capability. Otherwise strator for the appropriate	e, you need			
() ()	otain an IP address autom	atically			
O Us	se the following IP address				
IP at	idness:				
Subr	net mask:				
Defa	ult gateway :				
(a) OI	otain DNS server address a	automaticall	/		
- O Us	se the following DNS serve	r addresses			
Prefe	erred DNS server:				
Alter	nate DNS server:			÷	
_v	'alidate settings upon exit			Adv	anced

Or select "**Use the following IP address**" and enter the IP address, Subnet mask, Default gateway as follows:

Seneral	
	ed automatically if your network wise, you need to ask your network ate IP settings.
🔘 Obtain an IP address auto	omatically
OUse the following IP addr	ess:
IP address:	192.168.0.10
Subnet mask:	255.255.255.0
Default gateway:	192.168.0.1
Obtain DNS server addre	ss automatically
Our Contract Output Contrac	rver addresses
Preferred DNS server:	202 . 96 . 134 . 33
Alternate DNS server:	202 . 96 . 128 . 86
Validate settings upon e	xit Advanced

- > 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. The system will automatically choose the corresponding web language in accordance with the Browser's language. For example, if your Browser's language is French, the router's web language will display as French.

Tenda IIN Wireless Router - Mozilla Firefox		
lichier fdition Affichage Historique Margos-pages Qutils 2		
🔇 🔊 🔹 😋 💥 🏠 🚹 http://192.100.0.1/index.esp	😭 * 🚮 * Gorgia	
Tends 11# Tireless Router +		
	Réglages a	vancés
Tenda Accès à l'Internet	°	
Méthode d'accès:		
Compte daccès:		
Mot de passe d'accès:		
Pour dautres méthodes d'accès, cliquez sur « Réglages avancé		
Cryptage sans fil		
12345928 (next to	et/sment entrer \$	
Met de passe sans fit caractéres)		
0k Annaler		
niat		

3. If your Browser language is English or beyond the 9 languages (Arabic, French, German, Italian, Polish, Portuguese, Russian, Spanish, Turkish), the router's web language will be English.

Tenda 118 Wireless Router - Microsoft Internet Explorer	
文件(2) 純弱(2) 查看(2) 収缴(3) 工具(2) 帮助(3)	At 1
🔾 mil + 🕥 - 🖹 🖉 🏠 🔎 99# 📌 60#.4 🥹 🙆 - 🌺 🗹 - 🛄 🏭	
総定① III http://192.168.0.1/index.asp	🖌 🛃 转列 新語 🌚 •
	Advanced Settings
Internet Access	
For other access methods ,click "Advanced Settings"	
Wireless encryption	
Wireless password: 12345678 (can only enter 8 characters)	
Ok Cancel	
	O TI信以子

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.

		Advanced Settings
Ten	da	
Internet A	ccess	
Access Method: @ ADSL Dial-up C DH	ICP	
Access Account:		
Access Password:		
For other access methods ,click "A	dvanced Settings"	
Wireless enci	yption	
Password: 12345678	(can only enter 8 characters)	
OK Cancel]	

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

Tenda [°]	Advanced Settings
Internet Access Annu Adduk © ADIL Dal-op © DEC? For other some anduka, dats "Advanced Settings"	
Wireless encryption Provent 12246078 (ine ody set of dataches)	
CK Cancel	

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.

	Advanced Settings
Tenda ^a	
Internet Access	
Access Method: @ ADSL Dal-up C DHCP	
Access Account:	
Access Password:	
For other access methods ,click "Advanced bernings"	
Wireless encryption	
Password 12345678 (can only enter § characters)	
OK Cancel	

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

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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
Connect Dis	sconnect

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.

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- > 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)

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	System tools
System status	WAN setting	s LAN setting	s DNS setting:	s Bandwidt	a control Traf	fic statistics
	_					
		PPOE 💌				
٩	Access Account	tenda2011@163.	gd			
Ac	ccess Password	•••••				
	MTU [1492 (DO NO	I modify it unless ne	cessary, the defau	lt is 1492)	
	Service name [(Don't e	nter the informati	on unless necessary.)
	Server name [(Don't er	iter the informatio	n unless necessary.)	
5	select the correspond	ting connection mod	according to your si	tuation.:		
	Connect automat	ically, Connect auto	matically to the Inter	net after rebootin	g the system or	
conne	ction failure.					
	C Connect on demi	ind: Re-establish yo	ar connection to the l	internet when the	e's data transmitting	
3	Max.idle time 60	(60-3600,Secon	d)			
	C Connect manuall	y: Connect to the In	ternet manually by th	be User.		
	C Connect on fixed	time: Connect autor	natically to the Inter	set during the tim	you fix.	
2	Note: The "Connect	on fixed time" functi	on goes into effect or	ily when you hav	e set the current time	e in
		stem Tools".				

- > 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.

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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routi settin		Syster tools
System status	WAN settings	LAN settings	DNS settings	Bandwidth	control	Traffic	statisti
	Mode Sta	atic IP 💌					
	IP address 192	2.168.157.112					
	Subnet Mask 255	5.255.255.0					
	Gateway 192	2.168.157.254					
	DNS server 192	2.168.157.254					
	Alternate DNS						
	server		Optional)				
	MTU 150	00 (DO NOT me	dify it unless neces	sary, the default i	s 1500)		

- > 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.

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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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Systen tools
System status	WAN settings	LAN settings	DNS settings	Bandwidt	h control Tra	ffic statistic
	Mode DH	CP 💌				
	MTU 150	0 (DO NOT me	odify it unless neces	sary, the default	is 1500)	

PPTP

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routi settin		System tools
System status	WAN settings	LAN settings	DNS settings	Bandwidth	control	Traffic	statistic
	Mode PP	TP 🗾					
PPT	PServer address						
	Usemame						
	Password						
	MTU 14	52					
	Address mode St	atic 💌					
	IP address 0.0	.0.0					
	Subnet Mask 0.0	.0.0					
	Gateway 0.0	.0.0					
	MPPE 🔽						

- > **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

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routi settin		Systen tools
System status	WAN settings	LAN settings	DNS settings	Bandwidth	n control	Traffic s	tatisti
	Mode L2						
1.2	Usemame						
	Password						
	MTU 1	452					
	Address mode S						
	IP address 0						
	Subnet Mask 0	.0.0.0					
	Gateway 0	0.0.0					

- > **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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syste
System status	WAN settings	LAN settings	DNS settings	Bandwidth	control Tra	affic statis
	IP addr Subnet M					
	Sublict 3/2	ESK 200.200.200				

- > 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).

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	System tools
System status	WAN settings	LAN settings	DNS settings	Bandwidth	n control Traf	fic statistic
	Primary DNS addr	ess 202.96.134.	33			

- > 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

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is optional.



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

4.5 WAN Medium Type

Wired WAN and wireless WAN

NOTE: This function applies only to some of the products.

settings	settings	DHCP Server	Virtual server	Security settings	Routing settings	System tools
System status control Traffi	WAN settings statistics	LAN settings	DNS settings	WAN mediun	type Bar	adwidth
	WAN medium typ	e: O Wired WA	N 🛈 Wireless W	AN		
	SSIE	Tenda_0025	22			
	Wireless WA?	C Auto select	*			
	Security Mod	e: Disable		~		
		_	Open scan			

Wired WAN: In this mode, the cable is directly connected to the WAN port. Wired WAN is the default mode.

Wireless WAN: Enable this mode if your ISP provides you wireless connection service or you want to use it to amplify wireless signals.

SSID: SSID (Service Set Identifier) is the identity of the wireless device. You can only access to the ISP' network by entering the correct SSID, namely the SSID of the ISP's wireless device. You can click the "Open scan" button to let the router automatically search the ISP's available SSID. The SSID can also be the SSID of the superior wireless device when using wireless bridge.

MAC: To connect to the ISP's wireless device, you need to know the device's MAC address. You can click the "Open scan" button to let the router automatically search the wireless device's MAC or superior wireless device's MAC.

Channel: The wireless device's communication channel. You must select the same channel as the ISP's wireless device to enable their communications. It can also be scanned by clicking the "Open scan" button.

Security mode: When the ISP wireless device is secured, the access device should set the

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same security mode, encryption mode and key as the ISP' wireless device.

For example

If your ISP wireless device's SSID is "wireless", then just enter the ISP's SSID, wireless MAC address, and channel respectively into the corresponding fields of the above picture. If the ISP device is secured, please set your router's encryption type the same as the ISP device's .Or you can click the "Open scan" button to let the router automatically fill in the SSID, Channel and wireless MAC. After saving, come back to the WAN Setting screen to select the corresponding WAN connection type to complete the settings (For example, if your ISP wireless device's connection type is dynamic IP, just select DHCP).

4.6 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.

settings	Wireless settings	DHCP server	Virtual server	Security settings	Routi settin	
System status	WAN settings	LAN settings	DNS settings	Bandwidth	on control	Traffic statist
	Upload Downlo Bandwidth ras Ena	nge:	Add to list	yte's)		

- 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 2Mbps=256KByte/s, and the biggest uploading rate is 512kbps=64KByte/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:

settings	Wireless settings	DHCP server	Virtual server	Security settings	Routi settin	
System status	WAN settings	LAN settings	DNS settings	Bandwidth	control	Traffic statist
	Bandwidth ran Ensi	ole: 🔽	Add to list	yte's)		

- 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.

Tenda

settings	Wireless settings	DHCP server	Virtual server	Security settings	Routin	
System status	WAN settings	LAN settings	DNS settings	Bandwidth	control	Traffic statisti
	Bandwidth rar Enal	ble: 🔽		yte's)		
			Add to list			

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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routi settin	
System status	WAN settings	LAN settings	DNS settings	Bandwidtl	a control	Traffic statisti
	Upload Downlo Bandwidth ran Enal	ige: 20 ole: I F	Add to list	yte's)		
No.	IP segment	Destination	Bandwidth ra	inge Ena	ble Edit	Delete



Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing	
System status	WAN settings	LAN settings	DNS settings	Bandwidth	control	Fraffic statisti
	Upload Downlo Bandwidth rar	ge: 100		yte's)		
	Ena	ole: 🔽				
		_	Add to list			

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

4.7 Traffic Statistics

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

Adva: setti	nced ings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syster tools
System	status	WAN settings	LAN settings	DNS settings	Bandwi	dth control T	raffic statisti
	E						
	🔽 Enabl	e traffic statistics					

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

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- 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.

Tenda

Chapter 5 WLAN Settings

5.1 Wireless Basic Settings

Advanced settings		DHCP server	Virtual server	Security settings	Routing settings	Syste tools
Wireless Basic	Settings Wirel	ess Security	Access Control	Connection	1 Status	
ME	nable wireless function		ss Access Point(AP)			
		and the second second	mixed mode	Network Bridg	#(WDS)	
		ID Tenda_0				
		D) • Enable				
_	Chan	nel AutoSel	ect 💌			
	WMM Capa	ble @ Enable	C Disable			
	APSD Capa	ble C Enable	Disable			
	Channel Bandwi	ith € 20 @	20/40			
	Extension Chan	net Auto sel	ect 👻			

- 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.

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- 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.

NOTE: Some products may have primary SSID and secondary SSID options, as

shown below. Primary SSID is necessary, secondary SSID is optional.

Advanced settings	Wireless settings	DHCP Server	Virtual server	Security settings	Routing settings	System tools
Wireless Basic	Settings Wireles	s Security	Access Control	Connection	n Status	
ΨE	nable wireless function					
	Wireless Working Mod	e 💿 Wireles	is Access Point(AP)	Network Bridg	e(WDS)	
	Network Mod	e 11b/g/n	mixed mode 💌			
	primary SSII	Tenda_0	02522			
	secondary SSII					
	Broadcast(SSID) 💿 Enable	O Disable			
	AP Isolatio	n OEnable	③ Disable			
	Channe	AutoSele	ect 💌			
	WMM Capabl	e 💿 Enable	ODisable			
	APSD Capabl	e O Enable	Disable			
	Channel Bandwidt	h ○ 20 ⊙	20:40			
	Extension Channe	Auto Sel	lect 🛩			

Network Bridge (WDS) Settings

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

Tenda

Advanced settings	Wireless settings	DHCP	Virtual server	Security settings	Routing settings	Systen tools
Wireless Bas	ic Settings Wirele	ss Security	Access Contro	1 Connection	Status	
Ā	Enable wireless function					
	Wireless Working Mod	e C Wireles	s Access Point(AP)	Network Bridg	e(WDS)	
	Network Mod	e 11b/g/n	mixed mode 💌			
	SSII	Tenda_0	02522			
	Broadcast(SSID) @ Enable	C Disable			
	Channe	AutoSele	ect 💌			
	WMM Capabi	e · Enable	C Disable			
	APSD Capabl	e C Enable	Disable			
	Channel Bandwidt	h C 20 @	20/40			
	Extension Channe	Auto sel	ect 💌			
Wor	king Mode :WDS(Repe	ater mode)				
	AP MAC addres	5				
	AP MAC addres	5				

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

Example: This example is to bridge two W316R routers.

1. If you know the connecting router's MAC address, please enter it into the AP MAC address field and click "Ok".

Advanced settings		DHCP server	Virtual server	Security settings	Routing settings	System tools
Wireless Basic	Settings Wireles	s Security	Access Contro	ol Connection	t Status	
₩ E	able wireless function					
	Wireless Working Mod	e C Wireler	is Access Point(AP)	• Network Bridg	e(WDS)	
	Network Mod	e 11b/g/n	mixed mode 💌			
	SSII	Tenda_0	02522			
	Broadcast(\$\$ID) @ Enable	C Disable			
	Channe	a 2462MH	z (Channel 11) 💌	l		
	WMM Capabl	e 📀 Enable	C Disable			
	APSD Capabl	e C Enable	Disable			
	Channel Bandwidt	h C 20 •	20/40			
	Extension Channe	a 2442MH	z (Channel 7) 💌			
Work	ing Mode :WDS(Repe	ater mode)				
	AP MAC addres	s 00:85:11	05:16:09			
	AP MAC addres					

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.

settings			DHCP server	Virtual server	Securi setting		outing ttings	System tools
Wireless Basi	c Sett	ings Wireless	s Security	Access Contro	ol Conne	ction Statu	15	
	(Channel Bandwidth	€ 20 € 2	10/40 Microso	ift Internel	Explorer		i i
		Extension Channel	2442MHz	(Chani	Are you su	re to connect	to this AP?	
Worl	king M	lode :WDS(Repeat	er mode)			Canrel	_	
		AP MAC address			OK	Cancel		
		AP MAC address						
			[Close scan	0.00			
Se	dect	SSID	M	AC address	Channel	Security	Signal strengt	1
	0 1	Broadcom_eCos_tes	st1 C8:3/	4:35:2C:C7:E8	11	none	70	
		Broadcom_eCos_tes	it2 C8:32	4:35:2C:C7:E9	11	wep/wpa	69	

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

Advance settings		Wireless settings	DHCP server	Virtual server	Securi setting		outing ettings	Systen tools
Wireless B	asic Se	ttings Wireles	s Security	Access Control	Conne	ction Stat	us	
i		Channel Bandwidtl	C 20 @	20.40				i.
		Extension Channe	2442MH	z (Channel 7) 💌				
	Vorking	Mode :WDS(Repe	ter mode)					i.
		AP MAC addres	00:85:08	16:11:14				
		AP MAC addres						
1	Select	SSID	Ν	Close scan	Channel	Security	Signal strength	
	с	Broadcom_eCos_t	est1 C8:3	8A:35:2C:C7:E8	11	none	70	
	С	Broadcom_eCos_t	est2 C8:3	3A:35:2C:C7:E9	11	wep/wpa	69	
	e	Tenda 002522	00-	85:08:16:11:14	11	wep/wpa	71	

After finishing the above steps, you need to set the other W316R router in the same way.

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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Systen tools
Wireless Basic	Settings Wirele	ess Security	Access Control	Connection	ı Status	
SSIT	"Tenda 002522"					
0011	Security Mo	de Disable		w.		
		a l'element		_		
	WPS Settin	ugs C Disable	• 🕶 Enable			
	WPS Mo	ide @ PBC (PIN			
					Reset OOI	3
Note:	Wireless Security Setti	ings				
802.1	n standard only define	es Open-None (Disable) ,WPA perso	mal-AES, and WP	A2 personal-AES	
encry	otion methods. Other e	ncryption metho	ods are non-standard, a	and compatibility	problems may occur	6
among	different manufacturer	rs.				
					ters from access to v	

- > 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.

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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syster tools
Wireless Basic	Settings Wirel	ess Security	Access Contro	ol Connection	Status	
						_
SSIE	• "Tenda_002522"					
	Security Mo	de WPA - P	SK	•		
			TKIP C TKI	P&AES		
	K	ey 12345678				
	Key Renewal Inter	val 3600	Second			
	WPC Carrie	urs • Disable	C. Easthia			
		-64 C Disable	Lingoie		Reset 00	B
					Rederoon	_
	Wireless Security Sett					
802.1	in standard only define	es Open-None (I	Disable) , WPA per	sonal-AES, and WP	A2 personal-AES	
encry	ption methods. Other e	ncryption metho	ds are non-standard	, and compatibility	problems may occur	
amonş	different manufacture	rs.				
	has optimized wireles	s encryption. Sele	ect WPA-AES and	you can prevent oth	ers from access to y	our
-	has optimized wireles	s encryption. Sele	ect WPA-AES and ;	you can prevent oth	ers from access to y	our
1 enda						

- 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).

Advanced settings		DHCP server	Virtual server	Security settings	Routing settings	Systen tools
Wireless Ba	sic Settings Wirel	ess Security	Access Contr	ol Connection	a Status	
5	SID "Tenda_002522"	ode WPA2 -	Dev			
	Security Ma	ode TVVPA2 -	PON			
	WPA Algorith	ms @ AES	C TKIP C TKI	P&AES		
	K	ey 1234567	8			
	Key Renewal Inter	val 3600	Second			
-	TTDE Casti	ngs 🕫 Disable	C Fuels			
	wro seud	iliga 👎 Disable	e , Enable		Reset OOI	в
N	ote: Wireless Security Set	ines				
	2.11n standard only defin		Disable) .WPA pe	rsonal-AES, and WF	A2 personal-AES	
en	cryption methods. Other	encryption metho	ods are non-standard	i, and compatibility	problems may occur	r
	iong different manufacture					
	nda has optimized wireles		let WPA, AFS and	vou can prevent off	ers from access to v	sour
				,		

- 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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syster tools
Wireless Basi	Settings Wir	eless Security	Access Contro	l Connection	i Status	
MA	address filter:	Forbid	-			
Cont	igure MAC address					
		MAC add	ress	c	perate	
	00 40		0 23 48	-	Add	



- 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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syster tools
Wireless Basic	Settings Wir	eless Security	Access Contr	ol Connection	Status	

- > 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

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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.

ist				
DUCE Super True	-64-			
	-			
ol end address 192.161	8.0. 150			
0	ol start address 192.16 pol end address 192.16	ool end address 192.168.0. 150	ol start address 192.168.0. 100 ool end address 192.168.0. 150	ol start address 192.168.0. 100 ool end address 192.168.0. 150

- > 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.



settings		Vireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syster tools
DHCP server DF	ICP Clie	nt List					
	Seatlant	signment					
		Address 192	168.0				
		C address					Add
F	NO.	IP Address	MAC ad	dress	IP-MAC Bindin	ng De	lete
						12	
L							
_							
-						Refi	resh
-	He	ost Name	IP Address	X	IAC address	Refi Lease Ti	

- 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.

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Chapter 7 Virtual Server

7.1 Port Range Forwarding

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routin		Syste tool
Port Range For	warding DMZ	Host UPNP	Settings				
Por	t range forwarding s	ets up public servi	ces on your networ	k, such as web serve	rs, ftp server	s, e-mail	
				tave set up one serv			
	unication requests fi IP address	om the Internet to	your router's WA	N port will be conve	rted to the sp	ecified	
			21222		20.00	100	
N			LAN IP	Protocol	Enable	Delete	
1			2.168.0	TCP -			
2			2.168.0	TCP 💌	Γ	Γ	
3		193	2.168.0	TCP -			
4		193	2.168.0	TCP -			
5		193	2.168.0	TCP -			
6		193	2.168.0	TCP -		Г	
7		19	2.168.0	TCP -			
S		193	2.168.0	TCP -	Г	Г	
9		19:	2.168.0	TCP V			
		10	2.168.0	TCP -	Г	F	

- 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.

Advanced settings		'ireless ettings	DHCP server	Virtual server	Security settings			Systen tools
Port Range F	orward	ing DMZ	Host UP	NP Settings				
	10000000				work, such as web s			
		and the second s	versus and a second		ou have set up one i WAN port will be co			
	IN IP add		om me intern	et to your router's	or All of port will be co	inverteo to the s	permea	
	NO.	Start port-	End port	LAN IP	Protocol	Enable	Delete	
	1.	21	21	192.168.0.10	Both 💌	v	Г	
	2.			192.168.0	TCP -	Г	Г	
	3.			192.168.0.	TCP 💌	Г		
	4.			192.168.0.	TCP 💌	П	П	
	5.	H		192.168.0.	TCP -		Г	
	6.	<u> </u> н		192.168.0	TCP -	Γ		
	7.	H		192.168.0.	TCP 💌	Г		
	8.			192.168.0.	TCP 💌	П	Г	
	9.			192.168.0.	TCP -		Г	
	10.	- H		192.168.0.	TCP -	Г	Г	

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:21 in the address field. Here, 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.

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.

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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.

	Host UPNP	Settings			
arding DMZ	Host UPNP	Settings			
E: When the DM2	Z host is enabled, th	he firewall settings o	of the DMZ host wil	1 not function.	
DMZ host IP ad		2.168.0.10			
					When the DMZ host is enabled, the firewall settings of the DMZ host will not function.

- 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.

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.



Te.	nd	3				
Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syster tools
0	rwarding DM2		~			
	Enable 1	UPnP 🔽				
		[Ok Cancel	1		

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

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.

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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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syster tools
Client Filter Se	ttings MAC Ad	dress Filter S	ettings URL	Filter Settings	Remote Web ?	danageme
Filter	Mode: Forbid only	-				
	Access Polis	:y: (1) 💌				
	Rema	rk:				
	Start	IP: 192.168.0				
	End	IP: 192.168.0				
	Po	nt:				
	Tyj	pe: TCP 💌				
	Tir	ne: 0 💌 0	• ~ 0 • 0	<u>·</u>		
	Da	te: Sunday	 Saturd 	lay 💌		
			this item: Clea			

- > 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.

Tenda

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Systen tools
Client Filter Se	ttings MAC Ad	dress Filter Se	ttings URL	Filter Settings	Remote Web M	lanagemen
Filter	Mode: Forbid only	•				
		y: (1) 💌				
		k: [1]	_			
		P: 192.168.0.10	20			
	End I	P: 192.168.0.12	20			
	Po	rt: 1 6	5535			
	Тур	e: Both 💌				
	Tim	ie: 0 💌 0	- 0 - 0			
		te: Sunday				_
-			this item: Clea			

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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syster tools
Client Filter Se	ttings MAC Ad	ldress Filter S	ettings URL	Filter Settings	Remote Web M	vlanagemen
Filter	Mode: Permit onl	v •				
a uter		icy: (2) 💌				
_		ark: 12				
	Start	IP: 192.168.0	145			
	End	IP: 192.168.0.	145			
	P	ort: 80 -	80			
	Ту	pe: TCP -				
	Ti	me: 8 💌 0	▼ ~ 18 ▼ 0	•		
	D	ate: Sunday	 Saturd 	av 💌		

8.2 MAC Address Filter

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

Tenda

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syster tools
Client Filter Set	tings MAC Ad	dress Filter S	ettings URL	Filter Settings	Remote Web M	lanagemei
Filter	Mode : Permit on	y 💌				
	Access Polis	:y: (1) 💌				
	Rema	rk:				
	MAC addre	ss: [];[
	MAC addre) []()]		
	Tu					2

- > 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.

Client Filter Settings	VAC Address Filter				
	ALLO ILGUIODO I HICH	Settings URL Filt	er Settings 1	Remote Web N	fanagemei
					-
Filter Mode : F	orbid only				
Pilter Mode : []	orbid only				
2	Access Policy: (1) 💌	1			
-	P. 1				
	Kemark: 10				
3	AC address: 00	EO 4C 69	A3 23		
	- 0			_	
	Time: 8	0	M		
	Date: Monda	iy 💌 🖉 Friday	Canada D		
3		· · · · · · · · · · · · · · · · · · ·			
	Time: 8	0 • ~ 18 • 0			
		, .			-
			Canada I.		
	Date: Monda				

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



Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syste: tools
Client Filter Set	ttings MAC A	ddress Filter S	Settings URL	Filter Settings	Remote Web N	danageme
Filter	Mode : Permit on	ly •				
Filter	Mode : Permit on	ly 🔹				
Filter	Mode : Permit on Access Pol					
Filter	Access Pol	icy: (2) 💌				
Filter		icy: (2) 💌				
Filter	Access Pol Rem	icy: (2) 💌 ark: 11		44 125 1	80.	
Filter	Access Pol	icy: (2) 💌 ark: 11	E4 }[A5];[44][35][69	
Filter	Access Pol Rem MAC addr	ark: 11			69	
Filter	Access Pol Rem MAC addr Ti	icy: (2) • ark: 11 ess: 00 [me: 0 •]	E4 ; [A5 ;] 0 • ~ 0 • ; • ~ 10 • ;	0 💌	69	

8.3 URL Filter Settings

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

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syster tools
Client Filter Se	ttings MAC Ac	1dress Filter S	ettings URL	Filter Settings	Remote Web M	lanagemer
Filter	Mode: Forbid onl	y 💌				
	Access Poli	ey: (1) 💌				
	Rema	nk:				
	Start	IP: 192.168.0.				
	End	IP: 192.168.0.				
	URL character str	ing				
	-	me: 0 • 0	• . 0 • 0	-		
		ate: Sunday	 Saturd 	av 💌		

- 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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syster tools
Client Filter Se	ttings MAC Ad	dress Filter S	ettings URL 1	Filter Settings	Remote Web M	Aanagemer
Filter	Mode : Forbid only	•				
	Access Polic	y: (1) 💌				
		tc 10				
		P: 192.168.0				
	End I	P: 192.168.0.2	54			
	URL character strir	g: baidu.com	0			
	URL character strir	-	 ✓ ~ 18 ✓ 0 			

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

renda Advanced Wireless DHCP Virtual Security Routing System settings Server settings settings settings server Client Filter Settings MAC Address Filter Settings URL Filter Settings Remote Web Management Filter Mode : Permit only 💌 Access Policy: (2) Remark: 11 Start IP: 192.168.0 100 End IP: 192.168.0 115 URL character string: yahoo.com Time: 0 • 0 • 0 • 0 • Date: Sunday 💌 🗸 Saturday 💌 Enable: 🔽 Clear this item Clear Ok Cancel

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".

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Systen tools
Client Filter Se	ttings MAC A	ddress Filter S	ettings URL	Filter Settings	Remote Web M	Managemen
	-					
Enab		Port 8080				

- **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.

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.

Tenda

Chapter 9 Routing Settings

9.1 Routing Table

This page shows the router's core routing table.

Advance		DHCP	Virtual	Securi		outing	Syster
settings		server	server	setting	5 S	ettings	tools
Routing Ta	ble Static Routing	5					
Ĩ	Destination IP	Subnet	mask	Gateway	Hops	Interface	

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.

Advance		DHCP server	Virtual server	Security settings	Routing	System
Routing Ta				Secondo		10015
	Destination network	IP address	Subnet mask	Gate	way Ope	erate
					a	dd

- > 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.

Tenda

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

Tenda

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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	System tools
Time Settings	DDNS Backup/I	Restore Resto	re to Factory D	efault Upgrade	Reboot the rou	uter Chang
Password Syst	log					
Password Sys1	log					
	e zone: (GMT+08:0	0)Beijing, Chong	qing, Hong Kong	. Urumqi	•	-
Time					×	Ţ.
Time (Not	e zone: (GMT+08:0				×	

- 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.

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	Systen tools
Time Settings Password Sysl		Restore Resto	re to Factory D	efault Upgrade	Reboot the rot	uter Chang
	*5					
	DDNS Se	ervice · Enable	Disable			
	DDNS Se Service Pro		C Disable			
	Service Pro					
	Service Pro Usen	wider 3322 org				

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 <u>http://tenda.3322.org</u> in the address field.

10.3 Backup/Restore

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

Tenda

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Systen tools
Time Settings	DDNS Backup/	Restore Resto	re to Factory D	efault Upgrade	Reboot the ro	uter Chang
Password Sysl						
You	can backup/restore	the router's current	configuration.			
				ackup		
	can backup restore			ackup		
Selec		to save the configur	ed parameters: B	ackup		

Backup Setting:

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

File Dov	vnload 🛛 🔀
Do уо ц	u want to save this file?
	Name: RouterCfm.cfg Type: Unknown File Type, 9.57 KB From: 192.168.0.1 Save Cancel
1	While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not save this file. <u>What is the risk?</u>

Click the "Save" button to save the configuration files.

Restore Setting:

Click the "Browse" button to select the backup files.

Choose file						? 🛛
Look in My Recent Documents Desktop My Documents My Computer	My Documer My Compute My Network	er Places	<u> </u>	+	岱 태·	
My Network Places	File name: Files of type:	All Files (*.**)			•	Open Cancel

Click the "Restore" button to restore previous settings.

Tenda

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Systen tools
		Restore Resto	re to Factory D	efault Upgrade	Reboot the rot	uter Chang
Password Sysl	0.7					
rassing again						
	can backup restore	the router's current	t configuration.			
You				ackup		
You Sele	can backup restore	to save the configu	ed parameters: B	ackup		

10.4 Restore to Factory Default

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

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Syste tool
						-
Fime Settings Password Sysl		Restore Resto	re to Factory D	efault Upgrade	Reboot the ro	uter Chi

> Restore: Click this button to restore to default settings.

Factory default settings:

Password: NULL(the default password displays as null)

IP address: 192.168.0.1

Subnet mask: 255.255.255.0

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.

			settings	tools
estore Restor	e to Factory D	efault Upgrade	Reboot the ros	iter Chani
		10		
12	ter will reboot	ter will reboot	ter will reboot	ter will reboot

> 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.

Tenda

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	Systen tools
	s DDNS Backup/F	Restore Resto	re to Factory D	efault Upgrade	Reboot the route	er Chang
Password Sy	slog					
rassword Sy	210.8					
rassword Sy	210.5					
		the set the scholaris				
	On this page ,you can					
	On this page ,you can Note: Password can or	nly consist of lette				
	On this page ,you can Note: Password can or Old passv	nly consist of lette				l
	On this page ,you can Note: Password can or	nly consist of lette				i.

- > **Old password:** Enter the old password.
- > New password: Enter a new password.
- Confirm new password: Re-enter to confirm the new password.

The default password displays as null, users can log on the web-based utility without any authentication. 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.

Advanced settings	Wireless settings	DHCP server	Virtual server	Security settings	Routing settings	System tools
ima Satting	DDNS Backup/H	Restore Resto	ore to Factory D	efault Upgrade	Reboot the rou	ater Chang
me setting:						
assword Sy	slog					
	slog					
	slog	т	The 1 page log conte	nts		
	slog 1970-01-01 00:00:00		The <mark>1</mark> page log conte System start	ats		_

- > **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.
- High gain omni-directional antenna, with strong signals and long transmission distance.
- ♦ Wireless transmission rate up to 150Mbps or 300 Mbps
- 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
- SupportsWPA-PSK,WPA2-PSK,andWPA-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 wireless WAN and allows access to ISP's wireless hotspots to share Internet access with multiple computers (this function applies only to some of the products).
- ♦ 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 <u>www.tenda.cn</u> or send an E-mail to <u>support@tenda.cn</u>, 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 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 maker 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	ТСР	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
lphone5.0	TCP	22555
SMTP	TCP	25
POP3	ТСР	110

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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".

Delete
Rename Properties

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

General Wireless Network	3 Advanced
Use Windows to config	gure my wireless network settings
Available networks	
	ect from, or find out more information in range, click the button below.
	View Wireless Networks
Automatically connect to below: Broadcom_eCos_tr	
	Move down
Add Rei	move Properties

<u>tenda</u>

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.

Control Panel Home	View your basic network informatio	on and set up connections
Change adapter settings Change advanced sharing settings	TENDA-PC Broadcom_ (This computer) View your active networks	eCos_test Internet
	Broadcom_eCos_test Public network	Access type: Intern Connections: Intern
	Change your networking settings	

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

vetworks you can view, modify, and reorder (1)	
vetworks you can view, modify, and reorder (1)	
- Broadcom eCos	
Properties Properties	
Remove network	
Rename	

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 equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with the minimum distance of 20 cm. Operation is subject to the following two conditions:

1) This device may not cause interference, and

2) This device must accept any interference, including interference that may cause



undesired operation of the device.

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.