

We Connect The World

User's Manual







TEI480T/490T/4000

Enterprise & Net-bar Level Router

VER:1.0

WWW.TENDA.CN

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Table of Contents

Chapter One Introduction	3
1.1 Function	3
1.2 Unpacking	5
Chapter Two Hardware Installation	6
2.1 Front Panel	6
2.2 Rear Panel	7
2.3 Physical Environment	7
2.4 Steps	7
Chapter Three Connect to the Broadband Router	8
3.1 Set up LAN Connection	8
3.2 Set up WAN Connection	8
Chapter Four Configuration on the Router	9
4.1 Set up proper Network Configuration	9
4.2 ISP Configuration	10
4.2.1 Wizard	
4.2.1.1 PPPoE (ADSL)	11
4.2.1.2 Dynamic IP	11
4.2.1.3 Static IP	11
4.3 Configuration	12
4.3.1 Start and Log In	12
4.3.2 Running Status	12
4.3.3 General Setting	13
4.3.3.1 LAN Setting	13
4.3.3.2 WAN Setting	14
4.3.3.3 MAC Clone	15
4.3.3.4 DNS Server	16
4.3.3.5 Access Limit	16
4.3.4 DHCP Server	17
4.3.4.1 LAN DHCP Server	17
4.3.4.2 DHCP Client List	

Tenda	TEI480T/490T/4000 Enterprise & Net-bar Level Router
4.3.5 Advance Setting	
4.3.5.1 Statistic	
4.3.5.2 Port Monitor	
4.3.5.3 VLAN	
4.3.5.4 Bandwidth Contr	rol21
4.3.5.5 LAN IP Control.	
4.3.5.6 ARP Bind	
4.3.6 Virtual Server	
4.3.6.1 Virtual Server	
4.3.6.2 UPnP Setting	
4.3.6.3 DMZ	
4.3.7 Security Setting	
4.3.7.1 Client Filter	
4.3.7.2 URL Filter	
4.3.7.3 MAC Filter	
4.3.7.4 Defense Networ	k Attack29
4.3.7.5 Remote Control.	
4.3.7.6 Special Applicati	on Filter
•	
	Table
•	able
•	
0	
	e settings34
	de
	ory Setting
-	rd37
4.3.9.10 Log out	



Chapter One Introduction

Thanks for purchasing TEI480T/490T/4000 Enterprise/Net-bar level router. TEI480T/490T/4000 is Tenda's latest multifunctional broadband access products specially designed for Net-bar, community, enterprise and school. TEI480T/490T/4000 are adopting the world level high quality, high stability Intel IXP high level network processor, main Frequency is up to 266/533 MHz, adopting six-layers PCB professional design, fully ensuring the powerful function and super stability of the machine. Full duplex data transferring up to 200Mbps, supports up to 60,000 Link counts, data packing is fast and stable. Powerful Firewall is able to prevent various hacker attacks, ARP attacks and cheating and ARP virus etc.

TEI480T/490T/4000 are equipped with all the common function of other broadband routers, besides, TEI480T/490T/4000 also supports Statistic monitoring on clients, Bandwidth control based on IP address, Link Count Controlling on a certain computer, IP and MAC address binding, Port Mirroring, VLAN, UPnP, DDNS, VPN Pass-through and Firewall etc. Please read this user's manual carefully before using.

1.1 Function

- Compliant with IEEE802.3, IEEE802.3u, IEEE802.3x
- Supports CSMA/CD, PPPoE, PPP, IP, ARP, DHCP, TCP, UDP, HTTP, FTP, DNS protocol
- Supports 1 10/100Mbps Auto-Negotiation WAN port, connectable to xDSL/Ethernet/Cable

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- Tenda
- Supports 4 10/100Mbps Auto-Negotiation LAN ports, connectable to LAN
- Supports port bandwidth control, port VLAN dividing and port mirroring
- Supports Statistic function, enables administrator to analyses the whole network usages status
- Support Web-Management function including IP client filtering, URL Filtering, MAC Address filtering etc.
- Support VPN Pass-through
- Supports QoS configuration based on IP or Port, enables you to control the bandwidth of a certain client
- Supports IP and MAC address binding, prevent from ARP attacks
- Support virtual server, special software, DMZ and static routing
- Supports Link count configuration and limit the Link count of a certain computer
- Built-in firewall, supports IP address Filtering, URL Filtering, MAC Address Filtering
- Prevent from DoS attack, ARP attack, able to separate the computer which is infected by virus
- Support remote Web Management, English configuration Interface, supports simple and easy configuration guide
- TEI4000 supports one SFP expansion slot, supports optical fiber connection



1.2 Unpacking

ITEM	Quantity
TEI480T/490T/4000 Enterprise and Net-bar Level router	1 Unit
Power cord	1
User's Manual	1 сору
Quality Warranty Card	1 сору
Quality Passed Certificate	1 сору
Fast installation guide	1 pcs
Mounting Brackets	4 pcs
Rubber feet used for shock cushioning	4 pcs



Chapter Two Hardware Installation

2.1 Front Panel

a. Reset: Button for Resetting the router. Please press the Reset Button for 5 seconds and the SYS LED Indicator would be blinking. After 5 seconds, please un-press the button, the router would restore to factory default setting and restart automatically.

b. LED Indicators:

LED	Description	Function
Indicator		
POWER	Indicating the	When the power LED lights on, the
	Status of the Power	Switch is receiving power
SYS	Indicating the	When the SYS LED is blinking, the
	Status of the	system is working normally.
	System	When the SYS LED lights ON or OFF,
		the system is working abnormally.
Link/Act	Indicating the	When the LED lights ON, the
	Status of WAN and	respective port is successfully
	LAN	connected to the Ethernet network.
		When the LED is blinking, the
		respective port is transmitting or
		receiving data.
100Mbps	Indicating the	When the LED for 100M lights ON, the

Tend	TEI480T/49	90T/4000 Enterprise & Net-bar Level Router
	Speed of WAN and	respective port is working at the speed
	LAN	of 100M;
		When the LED for 100M lights OFF, the
		respective port is working at the speed
		of 10M

c. WAN Port: Wide Area Network (RJ-45). Please connect the xDSL Modem or the Ethernet access cable to the WAN port of the router.

d. LAN Port: Local Area Network (RJ-45). Please connect the LAN port to computer, Hub or Switch.

2.2 Rear Panel

Power: Please use the power attached in the package.

2.3 Physical Environment

Required Physical Environment for Installation:

- Please place the router on a sturdy level surface and install the router in a site free from high heat.
- > Please place the router in wet or dirty places.
- > Please do not wipe the router with wet cloth.
- > Recommend operating environment:

Temperature:0°C~38°C(32°F~100°F)

Humidity: 5%~90% RH (Non-condensing)

2.4 Steps

a. Set up LAN Hardware connection



Please connect the LAN port with the switches or Hubs in the LAN. Or you can also connect the LAN port of your router directly to the LAN adapter of your computer.

b. Set up WAN Hardware connection

Please connect your xDSL or Ethernet to the WAN port of the router with

Cat. 5 cable.

c. Connect the power cord

Please connect the power cord correctly and the router would start automatically.

Note: TEI4000 supports one SFP expansion slot, supports optical fiber connection



Chapter Three Connect to the Broadband Router

3.1 Set up LAN Connection

Please connect the LAN port with the switches or Hubs in the LAN. Or you can also connect the LAN port of your router directly to the LAN adapter of your computer.

3.2 Set up WAN Connection

Please connect your xDSL or Ethernet to the WAN port of the router with Cat. 5 cable.

Dynamic IP: To distribute IP Address through DHCP service

Static IP: To connect to the Internet through fixed IP Address provided by your ISP

Chapter Four Configuration on the Router

Before using the router, please have proper network configuration on your computer, this would enables you to have normal communication with the router.

4.1 Set up proper Network Configuration

Please set the IP address of your computer as auto-obtain or Fix IP Address. The router has its factory default IP address which is "192.168.0.1", please open IE and enter "192.168.0.1" in the address bar. The system would require the user to enter User Name and Password as the figure below. Please enter the User Name and



Password in the dialogue box (the default value for User name and Password are "admin"). It is recommended to change the User Name and Password when you enter into the system for the first time.

Connect to 192.	168.0.1
User name:	🖸 admin 💌
Password:	•••••
	Remember my password
	OK Cancel

Enter the configuration Interface and on the left hand side of the page, you could see 10 function menus including: Running Status, Wizard, General Setting, DHCP Server, Advance Setting, Virtual Server, Security Setting, Route Setting, System Tool, Logout. When you select the respective button, more options would appear.

4.2 ISP Configuration

• This router supports 3 types of common used access modes to the Internet (the default access mode is dynamic IP access):

PPPoE (ADSL): Using PPPoE dialing up to have Internet connection

Dynamic IP: Broadband network etc use DHCP services to appoint IP addresses



Fixed IP: Ethernet broadband Access, ISP supports fixed IP address

4.2.1 Wizard

Please single click the "Next" button in Administrator Mode Interface and enter in to the Interface for access mode selection.

As the figure below, 3 types of common used access modes to Internet are displayed, please select according to your requirement:



4.2.1.1 PPPoE (ADSL)

If you are connecting to the Internet through "ADSL Virtual Dial-up (PPPoE)", please just enter the User Name and Password which is provided by the ISP into the "Wizard ADSL" dialogue box.

4.2.1.2 Dynamic IP

If you are using "Dynamic IP" to have access to the Internet, you are able to obtain dynamic IP address from the ISP to have access to the Internet and do not need to have other configuration. Please just click "Next" and "save".



4.2.1.3 Static IP

If you are using "Static IP" to have access to the Internet, please input the IP Address, Sub-net mask, Gateway, DNS and secondary DNS, after this, please click "Next" to save.

		fill it into the following table. If
you torget or do not kr ISP.	ow well about these he	twork parameters, please refer to
IP Address:	58.60.110.221	
Subnet Mask:	255.255.255.252	
Gateway:	58.60.110.22]
DNS:	202.96.128.68	
Secondary DNS:	202.96.134.134	(optional)

After configuration, please go to "Running Status">"WAN Status" to check the configuration that you have set. And by clicking the "disconnect" button, you are able to disconnect the Internet connectivity manually, and when you press the "connect" button, you are able to establish the Internet connectivity again.

Link Status	Connected
WAN IP	58.60.110.221
Subnet Mask	255.255.255.252
Gateway	58.60.110.22
DNS	202.96.128.68
Sencondary DNS	202.96.134.134
Link Type	Static IP



4.3 Configuration

4.3.1 Start and Log In

- After staring and Logging in successfully, the browser would display the Interface for administrator's mode.
- In the menu on the left hand side, there are ten buttons including Running Status, Wizard, General Setting, DHCP Server, Advance Setting, Virtual Server, Security Setting, Route Setting, System Tool, and Logout. Single click a certain button and you are able to have the respective function configuration.
- We would give detail introduction to the function of each menu.

4.3.2 Running Status

• Running Status	WAN Status	
* Wizard		
	Link Status	Connected
+ General Setting	WAN IP	59.40.4.100
+ DHCP Server	Submet Mask	255 255 255 255
- piler serier	Gateway	219.133.207.1
* Advance Setting	DNS	202.96.128.86
+ Virtual Server	Sencondary DNS	202.96.134.133
virtual Server	Link Type	PPPoE
+ Security Setting	Link Time	00.01.53
+ Route Setting	Connect	Disconnect
+ System Tool		
+ Logout		
	LAN Status	
Please click here		
to get more	IP Address	192.168.0.1
information about	Submet Masik	255.255.255.0
products of	DHCP Server	Frahle

a. WAN Status



The connectivity status, WAN IP, Subnet Mask, Gateway, DNS, Secondary DNS, Link Type of the router are displayed here.

b. LAN Status

The basic information of IP address, Subnet mask, DHCP Server, NAT, Firewall are displayed here.

c. The Running Status, Client Count, Firmware Version etc are displayed here.

4.3.3 General Setting

Under "General Setting", you could find 5 sub-items including LAN Setting, WAN Setting, MAC Clone, DNS Server, and Access Limit. Please single click a certain sub-item and you would be able to have respective function configuration. We would give brief introduction as follows:

4.3.3.1 LAN Setting

Desis I & Marsari	
Basic LAN param	
MAC	00:02:B3:3C:16:95
IP	192.168.0.1
Netmask	255.255.255.0

- IP Address: This refers to the IP address of the router on the LAN.
 Default IP address is 192.168.0.1, you can change this according to your requirement.
- Netmask: This refers to the SubNet Mask of the router on the LAN, you can input it manually.

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Notice: If you change this IP address, you are required to use the new IP address to log in to the WEB Management Interface, and in order to have successful access to the Internet, default Gateway of all the computers under this router are required to set as this IP address.

4.3.3.2 WAN Setting

First, please select the WAN access type, which means your way of connecting to the Internet. The default mode of connecting to the Internet is "Dynamic IP"

- a. Dynamic IP: If you are having access to the Internet through dynamic
 IP, you are able to obtain IP address from the ISP automatically.
- b. Static IP: IF you are having access to the Internet through static IP, you should have the fixed IP address which is provided by your ISP.
- c. ADSL: If you are having access to the Internet through ADSL virtual dialing up. In this page, you are able to change and configure the following items:
- User Name: This refers to your User Name, please input the User Name which is provided by your ISP.
- Password: Please input the Password which is provided by your ISP, if you are not clear of these information, please contact your ISP and require them to offer to you.
- Service: Input the Service which is provided by your ISP. (Optional)
- MTU: the default value is 1492, you can change according to your requirement.

- Connecting automatically: This enables you to connect automatically after starting the router or being disconnected.
- Connecting manually: This enables the user to connect manually.
- Connecting if needed: To set up connection automatically when data visiting exists.
- Connecting automatically in period of time: To set up connection at fixed time period

4.3.3.3 MAC Clone

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MAC Clone
WAN MAC Clone
MAC 00:02:B3:3C:16:96 Factory Default Clone MAC
Save Resume Help

Selecting this enables you to clone the MAC address of the computer being used by the administrator to the MAC address in the WAN port. (You could

also change the MAC address manually.)

4.3.3.4 DNS Server

202.96.134.133
ndary DNS(optional) 202.96.128.68

- DNS server address: Please input the DNS server address provided by ISP. Please contact your ISP for this information if you are not clear.
- Secondary DNS: Optional item, if your ISP provides you with two DNS servers, then you could input the IP address of another DNS server





here.

Notice: The main function of DNS is to translate the URL that we enter

into IP address.

4.3.3.5 Access Limit

In order to enhance the security of the router, you are able to set an IP address and change the port of the host which can access to the web management interface.

Access limit
If you want to appoint only one host to access to the web management and set the router, you may enable this function. Notice: When you set IP and port of the host which can access to the web management, you should restart the router, and then the setting could take effect.
Enable IP 0.0.0.0 Port 80
Save Resume Help

Notice: After setting the IP address, computers with other IP addresses are not able to log in the WEB Management Interface of the router. After changing the port through which the host is entitled to have access to the management interface of the router, you are required to restart the router.

4.3.4 DHCP Server

In DHCP server, you can see "LAN DHCP Server" and "DHCP Client List". We would have detail descriptions on these two functions as follows:

4.3.4.1 LAN DHCP Server

Tenda	TE1480	0T/490T/4000 Enterprise & Net-bar Level Router
	LAN DHCP Server	
	DHCP Server Start IP End IP Lease Time	 ✓ Enable 192.168.0. 10 192.168.0. 100 One Day ■
	Save Resume Help	

In order to use the DHCP server function, you should have the following configuration:

- Enable DHCP server
- Start IP Address of IP Pool: The starting IP address which is appointed by the DHCP server automatically.
- End IP Address of IP Pool: The ending IP address which is appointed by the DHCP server automatically
- Lease Time: The entitled time for each client to use the IP addressed which it obtains.

Notice: In order to use the DHCP server function of this router, the TCP/IP protocol of the computers under the LAN should be set as "Auto-Obtain IP Address"

4.3.4.2 DHCP Client List

- The name of the host, IP address, MAC Address, Remaining Time and Static are displayed in DHCP Client List.
- > The name of the host: the name of the host
- > IP Address: the IP address which is applied by the client
- MAC Address: the MAC Address of the computer which applies the IP address successfully

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- Remaining Time: The time for the host to use the IP address which is permitted by the DHCP server.
- Static: Bind the IP address to client through MAC address.
- When the router uses up the IP address in the IP Pool, it will distribute expired IP addresses to clients who newly apply for IP addresses.
- Input in the "static client", the MAC address will be bind to IP address, this enables the computer to obtain current IP address next time.

Notice: When the computers on the LAN are set as auto obtain, you are able to distribute IP addresses to computers on the LAN through this function.

4.3.5 Advance Settings

 In the "Advance Setting" menu, there are six sub-items, including Statistic, Port Monitor, VLAN, Bandwidth Control, LAN IP Control and ARP Control and load balance. By clicking a certain sub-item, you are able to have respective function checking and have configuration.

4.3.5.1 Statistic

				Sort by I	-	~				
			Tra	ffic		Re	te			
IP	MAC	† Packet	† Byte	‡ Packet	↓ Byte	† Rate	↓ Rate	Link Count	Operation	Binding
192.168	0.1 00:02:B3:3C:16:95	0	0	0	0	0	0	0	Restrict	Introduct
192.168	0.4 00:E0:4C:FF:24:2B	138	15340	0	0	0	0	0	Restrict	Introduct

This page displays the traffic and data rate of each host IP. (↑stands for transmitting, ↓stands for receiving) Link Count, Operation and Binding

- IP data Traffic and Rate: To display the data of visiting the router and visiting the external network.
- Link Count: To display the Link Counts established by the IP
- Operation: You can restrict or release this IP
- Binding: To bind this IP with the MAC loaded. But the ARP Binding in IP-MAC binding should be enabled

Notice: If you have not enabled the "Defense Network Attack" function

in "Security Setting", the data above would be caused to be not accurate.

4.3.5.2 Port Monitor

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This page set basic parameter of port monitor. The port monitor function can
transmit data packet (transmission or receive + transmission data packet) of one
or more port monitored to the port for monitoring.
Port Monitor Function
Port For Monitoring
Fort Be Monitored
Notice:
1 Port be monitored and port for monitoring cant be establish as the identical
port.
2. After enables the port monitor function, all data of the port monitored will
duplicate to the port for monitoring.

- This page sets basic parameters of port monitor. The port monitor function can transmit data packet (transmission or receive + transmission data packet) of one or more ports monitored to the port for monitoring.
- > Port monitor function: Enable or Disable Port Monitor Function



- Port for Monitoring: To collect the data packet of the ports being monitored
- Port Be Monitored: All the data packets transmitted or received by this port are copied and send to the Port for Monitoring

4.3.5.3 VLAN

- In this section, you are able to configure the basic parameters of VLAN function, this router supports VLAN (Port based VLAN).Only the ports set in the same VLAN group are able to communicate with each other.
- VLAN Mode Selecting: To choose the required mode according to the Notice.

Notice: this function can be used in safe management of company data.

4.3.5.4 Bandwidth Control

In this page, we will set the bandwidth of every LAN. We can distribute bandwidth reasonably based on the structure of LAN, for utilizing the networks resources sufficiently.

	ge we will set the bandwidth of every LAN. We can distribute
	a reasonably based on the structure of LAN, for utilizing the networks ufficiently.
Port1	No Limit 💌
Port2	No Limit 💌
Port3	No Limit 💌
Port4	No Limit 💌



 You are able to configure reasonable bandwidth for respective LAN port to control the download rate of each port, and able to utilizing the networks resources sufficiently If you don't want to limit the bandwidth of a certain LAN port, then please configure it as "No Limit".

4.3.5.5 LAN IP Control

In this page you are able to set actual transmission bandwidth of every IP address segment in LAN, to control effectively bandwidth of every PC combined with flow statistics, to prevent the evilly intentionally seizing of the network resources through download tools like BT etc. and to equally distribute current flow of total network.

- Upload speed and download range: 8K、16、32K、64K、128K、256K、 512K、1024、2048K、no limit
- Connect Limit range: 0-999. "0" stands for No Limit

In this page you can segmentin LAN, to cor	atrol effectively band	dwidth of every P	C combined with	flux	
statistics, to prevent th download tool, to equa				i so on	
Use rulers appear i	in following table, ne	eeds to select this :	sign to enable.		
Start IP	End IP	Download Speed KB/s	Upload Speed KB/s	Connect Limit	Operation
-		No Limit 🗸	No Limit 🗸		< <add< td=""></add<>

4.3.5.6 ARP Bind

In this page, you are able to set matching rule of single PC's MAC and IP, and prevent other illegal IP and illegal MAC from having access to the

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network, and to prevent ARP cheating.

- Load All: To Load the IP and MAC addresses displayed in Advance Setting→ Statistic. If you want to add IP and MAC addresses in the network, please add this manually.
- Other Configuration: Add Item, Enable Item, Delete Item, Search Item and Save

This page set matchru	le of single PC's MAC	and IP.	
Note: For automata bi	nd turn to Advanced S	etting->Statistic or directly	oad all
Note: Only IP in follo	wing table can visit inte	ernet when rules are enable.	
ARP Bind 💿 Disabl	e O Enable		
ID	LAN IP	MAC	Bind Config
Add Item	nable Item		
	Search Item		

▲ **Notice:** If you enable this function, there is no IP or MAC addresses in the table, then all the computers in the network are not able to connect to the network, only the IP and MAC addresses displaying in the table are entitled to have access to the network.

4.3.6 Virtual Server

Under the Virtual Server Menu, there are three sub-items including Virtual Server, UPnP Setting and DMZ. Single click a certain sub-item, you are able to have respective checking and configuration.



4.3.6.1 Virtual Server

• Virtual Server is defined as a service port. All external access to this port of WAN is re-oriented to the computers on the LAN

sever of LAN. A of LAN appoint					
ID	Port	IP	Protocol	Enable	Delete
1. [ALL 💌		
2.			ALL 💌		
3.			ALL 💌		
4.			ALL 💌		
5.			ALL 💌		
6.			ALL 💌		
7. [ALL 💌		
8.			ALL 💌		
9. [ALL 💌		
10.			ALL 💌		
mal sevice port:	DNS(53)	Fill T		1 🔻	

- Service Port: LAN service port, this refers to the internal service port which should be connected to the WAN service port.
- Network IP: Please input the IP of the internal host which requires to open virtual service.
- Protocol: Please choose protocol of TCP/UDP/ALL for data transferring.
- > Enable: Please select "Enable" to activate the setting.

Notice: If you configure the virtual server with service port of 80, then you are required to set the value in "Remote Control" under "Security

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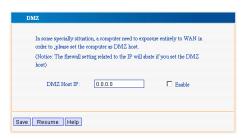
Setting" with a value different from 80, for example, 8080 Otherwise, conflict would happen and cause the virtual server to fail to work. If this happens, in order to activate this function again, you should restart the router.

4.3.6.2 UPnP Setting

UPn	P Setting					
	le UPnP P Mapping Tal	⊡				
ID	Ext.Host	Ext.Port	Int.Host	Int.Port	Protocol	Description
						Refresh
ive	Resume	Help				

TEI480T/TEI490T supports the latest Universal Plug and Play. It would be effective under OS Windows ME/ Windows XP or above (Remarks: The OS should be integrated, and installed with Directx 9.0 or above revision.), or under the applications which supports UPnP. For example, a computer under OS of Windows ME/Windows XP with MSN Messenger is able to use UPNP protocol when using the video and audio communication.

4.3.6.3 DMZ



Some programs require many connections while running, for example,



Internet Games, Video Meeting, Internet Phone etc. Because the firewall of the router exists, these programs are not able to work under pure virtual services. In this case, you could set the computer as DMZ host.

As in the figure above, please input the "DMZ Host IP" of the IP address of the computer which is required to set as DMZ on the LAN. Then please click "Enable" to make the DMZ take effect.

4.3.7 Security Setting

 Under the menu of "Security setting", there are 6 sub-menus including: Client Filter, URL Filter, MAC Filter, Defense Network attack, Remote Management and Special Application Filter. We would give detail introduction to them as follows:

4.3.7.1 Client Filter

D	Start IP	End IP	Port	Ту	e		Time	Enabl	Delet
1.	-		-	All	~	0:00	• 0:00	× 🗆	
2.			-	All	*	0:00	• 0:00	~	
3.			-	All	~	0:00	• 0:00	~	
4.	-		-	All	~	0:00	► 0:00	~	
5.	}[All	*	0:00	► 0:00	~	
6.	-		-	All	~	0:00	v . 0:00	× 🗆	
7.			-	All	~	0:00	✓ - 0:00	× 🗆	
8.	-		-	All	~	0:00	v . 0:00	-	
9.			-	All	~	0:00	✓ - 0:00	× 🗆	
10.	-		-	All	*	0:00	v . 0:00	~	

 In order to enable you to have further management on the computers on the LAN, you can use the function of Client Filter to control the Internet access of the computers on the LAN.



Steps for Client filter configuration are as follows:

- 1) Please Click "Security setting" and choose submenu "Client Filter"
- Put IP address of the computer which are going to be controlled on the LAN into the "IP" section.
- 3) Fill in "Port" with the port name you expect to control.
- In "Type", please choose the protocol used by the controlled data packets. ("All" indicates TCP/ UDP)
- 5) In "Time" section, please choose the effective date and expiry date.
- 6) Choose "Enable" to activate this filter rule.
- 7) Single Click "Save" to complete setting.

4.3.7.2 URL Filter

s	
5.	
7.	
3. []	
». [

- URL Filter: Control the web pages that the hosts in LAN access to.
- The steps to set URL Filter:
- 1) Click "Security setting", and choose submenu "URL Filter".
- 2) Choose "Enable URL Filter" to activate URL Filter Function.
- 3) Fill in the IP table with the IP segment you want to control.



- 4) In "URL string", please input the filtered domain name, or input part of the filtered domain name. If you input a certain character string, the computer with selected IP would not be able to access to all domain names containing this character string.
- Choose "Enable" to activate this filter rule. This rule is only effective for the WebPages to which the browser's accessing port is 80.
- 6) Click "Save" to complete setting.

4.3.7.3 MAC Filter

MAC Filter			
MAC Filter		Enable	
IVIAC Filler		Enable	
Filter/Permit the foll	owing MAC address connect to Inte	rnet 💿 Filter	Permit
Configure MAC	Note	Operate < <add manually<="" td=""><td>M</td></add>	M
Save Resume Help			

 In order to manage the hosts in LAN better, you could control the computers' access to Internet by MAC filter.

Steps for setting MAC filter are as follows:

- 1) Click "Security setting", and choose submenu "MAC Filter".
- 2) Choose "Enable" to activate MAC Filter.
- Choose "Filter" to forbid the MAC address to connect with Internet; Choose "Permit" to enable the MAC address to connect with Internet.
- 4) Input the MAC address of hosts which you want to control in to the



"Configure MAC" section, and fill in "Note" with proper description. And you can also select the MAC address of the host which you know in the table of "Operate", please click "Add" and then click "Save" to complete configuration.

4.3.7.4 Defense Network Attack

You can prevent hacker and the viral attack from the LAN a Notice: Only after enable the function guard against the DO	0 .0 .
Defend DoS Attack	V
Neglect Ping from WAN	V
Filter Ping from LAN(Defense shockwave virus's attack)	
Enable ICMP-FLOOD attack filter	\checkmark
Valve value of ICMP-FLOOD packet: (5~3600)	100 packet/sec
Enable UDP-FLOOD filter	V
Valve value of UDP-FLOOD packet: (5~3600)	1500 packet/sec
Enable TCP-SYN-FLOOD attack filter	▼
Valve value of TCP-SYN-FLOOD packet: (5~3600)	1000 packet/sec

- Enable each function to prevent hacker and the various attacks, and protect the network security.
- \geq Defend Dos Attack: Only after enabling the Defend Dos Attack function can other function be used.
- Neglect PING from WAN: Neglect PING from WAN \geq
- Filter PING from LAN: Enabling this function to prevent from \geq shockwave virus's attack
- \geq Enable ICMP-FLOOD attack filter: Enabling this function to prevent from shockwave virus' attack

- Enable UDP-FLOOD filter: Enabling this function to prevent from UDP-FLOOD Attack
- Enable TCP-SYN-FLOOD attack filter : Enabling this function to prevent from SYN-FLOOD attack.

△ Notice:

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- The computer is limited and not able to connect to the network when the network attack is found, and you can find the IP address of the host that launched the attack by in the table.
- 2. When the attack or virus of the computer has been cleared, you could delete the table and enable the computer forbidden to have access to the network again.

4.3.7.5 Remote Control

Generally Speaking, Only the clients in the LAN would manage the router. If you have special demand, you could remotely manage the router through this function.

Enable D IP address 0.0.0.0 Port 80	IP address 0.0.0.0	
Fort 80	Port 80	

⚠ Notice:

 The default setting for remote management would be modified according to the demand. You should adopt the mode of 'IP address: Tenda

Port (e.g.: <u>http://192.168.0.1:8080</u>)', to log in, and execute remote management.

2. The default IP for remote management is 0.0.0.0. When enabling this function, every host in the WAN could log in and remotely manage the router. If you change the default IP (e.g.: changed into 58.60.111.221), only the host with specified IP (58.60.111.221) could execute this WEB management function.

4.3.7.6 Special Application Filter

• Enable this function to forbid MSN and QQ.

Special Application Filter	
Disable MSN	
Disable QQ 🛛	
Save Resume Help	

Notice: There are many different modes for QQ to log in. And different QQ version may change server and login mode. If you are not able to forbid QQ under this function, please consult with our technical support.

4.3.8 Route Setting

 Under "Router Setting", there are 2 sub-items: "System Routing Table" and "Static Routing Table". We will give detail introduction to the function of each sub-item as follows:

4.3.8.1 System Routing Table

Tenda	TEI4	80T/490T	/4000 Er	nterpi	rise & N	let-ba	r Level	Router	í
	System Routing Tak	le							
	Destination IP	Subnet Mask	Gateway	metric	Interface				
	0.0.0.0	0.0.0.0	58.60.110.22	0	ixe1				
	192.168.0.0	255.255.255.0	192.168.0.1	0	ixeO				
	58.60.110.220	255.255.255.252	58.60.110.221	0	ixe1				
	Refresh								

• This section displays the core contents of the system routing table of the router.

4.3.8.2 Static Routing Table

Static Routing Table			
Destination IP	Subnet Mask	Gateway	Operation
			< <add< td=""></add<>
Help			

- You could set the static routing function, and specify static routing rule.
- Destination IP: IP for host(s) or network to access
- Subnet Mask: Usually subnet Mask of destination address Normally is 255.255.255.0
- > Gateway: The IP address for the router or host to transmit packet to.

▲ Notice:

- 1、The IP for gateway should be set on the same IP segment as WAN or LAN.
- The subnet mask should be set as 255.255.255.255 if the destination IP is the IP address of a certain host.

3, The subnet mask should match the destination IP if it is a IP segment. For example, if the destination IP is 10.0.00, Subnet mask should be 255.0.0.0;

Tenda _____

If the destination IP is 10.1.2.0, Subnet mask should be 255.255.255.0

4.3.9 System Tool

 Under "System Tool", there are 8 sub-items. They are Time Setting, Dynamic DNS (DDNS), Backup/ Resume settings, Upgrade, Restore factory settings, Restart, Password and System Log. Click the sub-item, you are able to have respective configuration. Below is the detailed introduction.

4.3.9.1 Time Setting

Ti	me setting
	fter setting the system timezone of router in this page, you can obtain standard GMT ne from Internet.
ob tin	stice: When the router power is off, the time information will be lost and router will tain GMT time automatically. Your must connect Internet to obtain GMT time or est in this page so the time restriction of other function for example can go into effect. ■Enable periodic Calibration Calibration period: [half an hour]
	me zone: (GMT+08:00)Beijing,China, Hong Kong,Singapore,Taipei 💽 otice:only on Internet can you obtain GMT time.)
_	Resume Help

• You would choose the time zone according to your location. When connected to Internet, you would obtain GMT time.

4.3.9.2 DDNS

DDNS	
DDNS Clinet supp	ort
DDNS	C Enable 💿 Disable
Server ISP	oray.net 💌 Register
User Name	
Password	
Domain name	(Optional)
e Resume Help	



- Tenda
- Register your Domain name in Oray.net. Input your registered User Name and password, and saved. Then, you could access your local server by the Domain name through the DDNS of this router: (For example, register a user name qp612 in Oray.net. And set up a WEB server on the local host of 192.168.0.111 The domain name is qp612.vicp.net. When Mapped the port in Virtual server, you are able to input "http:// qp612.vicp.net"into the address bar of the explorer and able to have access to your Web page.

4.3.9.3 Backup / Resume settings

Backup/Resume settings		
You could backup or resume the route		
settings.	12	
Choose file name:	backup.bin	
Select TFTP Server:	192.168.0.10	
Backup Resume		

• You could backup or resume the current settings or restore to previous Settings for router.

Steps for Backup and Restore

1、Download a TFTP Server program in our homepage <u>www.tenda.cn</u>. Save it in a fixed directory, and run it.

2、Click "Backup" to generate a system backup file in the directory of TFTP program.

3、 In the same way, we could place the configuration files which requires to be uploaded in the directory of TFTP, and click "Resume", and restart the



router and we are able to restore to the previous system configuration.

4.3.9.4 Software Upgrade

Select Firmware File:	upgrade.bin
Select TFTP Server:	192.168.0.10
Current Version:	Ver 0.9.4.5a-Oct 21 2006 11:50:25
	fupgrading succeed , the router will restart e some minutes to upgrade, please wait.

By upgrading router firmware, you would obtain more stable router version and value-added function.

Steps for Upgrading

1 . Download the latest version of firmware from our homepage <u>www.tenda.cn</u>.

2. Open a TFTP Server in a certain PC which is on the LAN. Please unpack the file downloaded and use WinRAR to unpack and place it under the directory of the TFTP server.

3Please click "Upgrade" to have software upgrading.

3. After upgrading, the router would restart automatically.

Notice: Please don't turn off the power of the router during up-grading, otherwise this would destroy the router. After upgrading successfully, the router would restart automatically. The process for upgrading would take several minutes, please be patient and wait.



4.3.9.5 Restore to Factory Settings

Re	store Factory Settings
	Click this button to restore default factory settings.
	Restore
Help	

- By clicking the "Restore" button, all the function on the router would go back to factory default settings. They are as follows:
- Default User Name: admin
- Default Password: admin
- Default IP: 192.168.0.1
- Default Subnet Mask: 255.255.255.0
- You should restart the router to take effect after restoring to factory default setting

4.3.9.6 Restart



 By click "Restart" the router, some function which requires restarting to become active would take effect. Before the router restarts, the network connectivity would be disconnected automatically.



4.3.9.7 Change Password

User name	admin
Old password	*****
New password	*****
Confirm new password	******

- In this section, you can change the User Name and Password.
- Please input your new User name, old password, and new password. Then click "Save", The User name and Password would be changed successfully if the information that you input are correct.

Notice: Considering the security, we strongly recommend you to change the default User Name and Password.

4.3.9.8 System Log

- In System Log, you would check the system record, and see if there is network attack.
- Clear: To clear system Log

System Log
5,500,2005

4.3.10 Logout

• After completing settings, please click 'Logout' to exit.