

Tenda®

V1.0

User Guide

www.tenda.cn



D840R ADSL2+ Router

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Chapter 1 Overview

1.1 Product Introduction

D840R ADSL2+ Router complies with ADSL, ADSL2 and ADSL2+ standards. Supporting up to 24Mbps downstream rate and 1Mbps upstream rate, it supports multiple network protocols and provides NAT Router, Bridge and switch functions. Built-in 4-port switch can add more end users without purchasing hub or switch. In addition, the intelligent software, Setup Wizard, can assist you to access the Internet fast and easily. Powerful and exquisite, it is the best choice for SOHO and small enterprise users to share the Internet.

1.2 Product Features

- Provides up to 24Mbps downstream rate and 1Mbps upstream rate
- Supports DHCP, NAT, IGMP, ICMP, ARP
- Four 10/100M Auto-Negotiation RJ-45 Ethernet ports for network adapter, Hub and switch

connectivity

- One RJ-11 port and Voice Splitter included
- One USB port support for connecting PC's USB port
- Provides Web-based management and firmware upgrade
- Complies with ADSL, ADSL2 and ADSL2+ standards
- Provides NAT Router, Bridge and switch functions
- Compatible with all mainstream DSLAM (CO)
- Provides PPPOE, PPPOA, CLIP protocols
- Supports firewall and hacker attack prevention
- Supports Internet Multi Media
- Provides static and dynamic routes
- Up to 6.5km transmission distance
- Setup Wizard support for fast and easy configurations

1.3 Supporting Protocol

Supports full-rate ADSL2+ standard

- ANSI T1.413 Issue 2
- ITU-T G.992.1 (G.dmt)
- ITU-T G.992.2 (G.Lite)

- ITU-T G. 992. 3
- ITU-T G. 992. 5

1.4 Data Encapsulation

- Supports RFC 1483 Bridge、RFC 1483 Router
- Supports Classical IP over ATM (RFC 1577)
- Supports PPP over ATM(RFC 2364)
- Supports PPP over Ethernet (RFC 2516)

Chapter 2 Hardware Installation

2.1 ADSL Router Connection

1. Connect one end of the telephone line to the LINE port of the D810R and the other end to the MODEM port of the voice splitter.
2. Connect the power adapter to the PWR port of the D810R.
3. Use an Ethernet cable to connect the LAN port with the NIC of your computer.

2.2 USB Installation

To connect the device to the USB interface of the computer, please follow the steps below:

1. Connect to the USB port of the D810R through a USB cable.
2. Connect the other end of the cable to the computer's USB port.
3. Set up the USB driver provided by the CD-ROM.

Chapter 3 Before Web Management Configuration

3.1 Network Configuration of Your Computer

<p>1. On the desktop of your computer, right-click "My Network Places", and then select "Properties" in the shortcut menu.</p>	 <p>The screenshot shows a Windows desktop with several icons: 'My Network Places' (selected), 'Recycle Bin', and 'Internet Explorer'. A context menu is open over 'My Network Places', listing options like 'Open', 'Explore', 'Search for Computers...', 'Map Network Drive...', 'Disconnect Network Drive...', 'Create Shortcut', 'Delete', 'Rename', and 'Properties'. The 'Properties' option is highlighted with a grey background.</p>
<p>2. In the window that appears, right-click "Local Area Connection", and then select "Properties".</p>	 <p>The screenshot shows a Windows desktop with a network icon labeled 'Local Area Connection'. A context menu is open over it, listing options like 'Connected', 'Disable', 'Status', 'Repair', 'Bridge Connections', 'Create Shortcut', 'Delete', 'Rename', and 'Properties'. The 'Properties' option is highlighted with a grey background.</p>

3. In the pop-up dialog box, check "Internet Protocol (TCP/IP)" and then click "Properties".



4. In the window that appears, select "Obtain an IP address automatically (O)" or "Use the following IP address (S)".

- 1) When "Obtain an IP address automatically (O)" is selected, the window is as shown in the right figure.



- 2) "Use the following IP address":

IP address: 192.168.1.XXX
(XXX ranges 2 ~ 254)

Subnet mask:

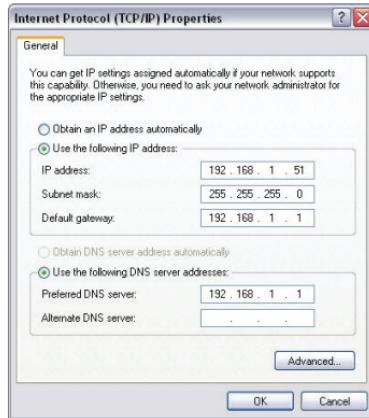
255.255.255.0

Default gateway:

192.168.1.1

DNS server: Enter the local DNS server address (for this address, you can consult your ISP) or the router's default gateway as the DNS server.

At the end of the setting, click "OK" to submit the settings. And then click "OK" in the "Local Area Connection Properties" window.



3.2 Verifying the Connection

1. Select "Start→Programs→Accessories→Comm and Prompt".



According to the format shown in the right figure, enter "Ping 192.168.1.1" and press Enter. If the system gives the result shown in the right figure, the connection between your computer and the router is OK.

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

C:\Documents and Settings\user>ping 192.168.1.1

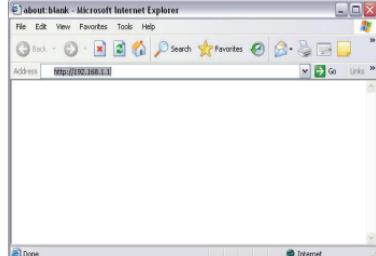
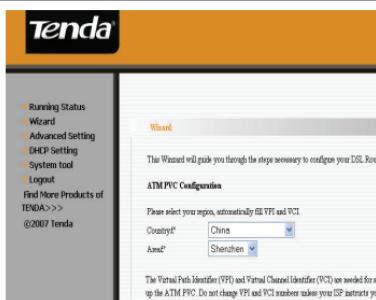
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time=2ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milliseconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms

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

A screenshot of a Windows Command Prompt window titled 'cmd.exe'. It shows the command 'ping 192.168.1.1' being run. The output shows four successful replies from the IP address 192.168.1.1. The last line of output shows ping statistics: 4 packets sent, 4 received, 0 lost (0% loss), with a minimum round-trip time of 0ms, a maximum of 2ms, and an average of 0ms.

3.3 Logging in to the Router

<p>1. Open the web browser, and enter "http://192.168.1.1" in the address field, and then press Enter.</p>	
<p>2. In the pop-up login window, enter the user name ("admin") and password ("admin"), and click "OK" (both user name and password are "admin" by default).</p>	
<p>3. If the user name and password entered are correct, the browser displays the administrator window shown right.</p>	

Chapter 4 Quick Installation Guide

In the Wizard page, Select the required your “Country” and “Area” from the drop-down lists. If you can not find your country and city in these lists, you can consult your ISP and manually enter the VPI and VCI values of your area. After that, click “Next”.



4.1 Configure the PPPoE

1. Select “PPP over Ethernet (PPPoE)”. Click “Next”.
2. Enter the PPP user name and password provided by the ISP. If the ISP also provides the PPPoE service name, you can enter the corresponding value; otherwise, keep this field null. Use the default values for other options. For their more settings, refer to the detailed description in the Advanced Settings.



The screenshot shows the 'PPP Username and Password' configuration page. It includes the following fields:

- PPP Username:** tenda@163.gd
- PPP Password:** (Redacted)
- PPPoE Service Name:** (Redacted)
- Authentication Method:** AUTO
- Dial on demand (with idle timeout timer):**
- Inactivity Timeout (minutes) [1-4320]:** 50
- PPP IP Extension:**
- Use Static IP Address:**
- IP Address:** 51.219.66.7
- Retry PPP password on authentication error:**
- Bridge PPPoE Frames Between WAN and Local Ports (Default Enabled):**

3. Click "Next" and check to enable the WAN service (enabled by default).

Enable ICMP Multicast, and TAP Service

Enable ICMP Multicast	<input type="checkbox"/>
Enable WAN Service	<input checked="" type="checkbox"/>
Service Name	pppoe_0_35_1

Back Next

4. Click "Next" to display the window shown the summary of your settings.

WAN Setup - Summary

Make sure that the settings below match the settings provided by your ISP.

VPI / VCI:	0 / 35
Connection Type:	PPTP&SL
Service Name:	pppoe_0_35_1
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
MTU:	Enabled
Firewall:	Enabled
ICMP Multicast:	Disabled
Quality of Service:	Disabled

Click "Save/Reboot" to save these settings and reboot router. Click "Back" to make any modifications.
NOTE: The configuration process takes about 1 minute to complete and your DSL Router will reboot.

Back Save/Reboot

5. Click "Save/Reboot" to activate your settings. The system automatically establishes connection in a few minutes.

DSL Router Reboot

The DSL Router has been configured and is rebooting.

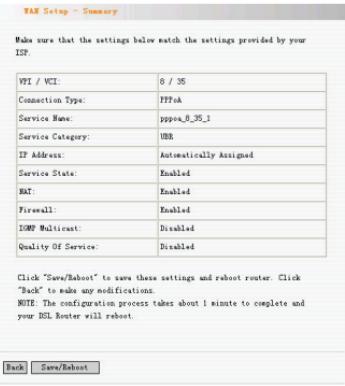
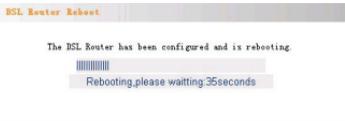
[Progress Bar] Rebooting, please waiting 35seconds

4.2 Configure the PPPoA

1. Select “PPP over ATM (PPPoA)”. Click “Next”.



2. Enter the PPP user name and password provided by the ISP. If the ISP also provides the PPPoA service name, you can enter the corresponding value; otherwise, keep this field null. Use the default values for other options. For their more settings, refer to the detailed description in the Advanced Settings.

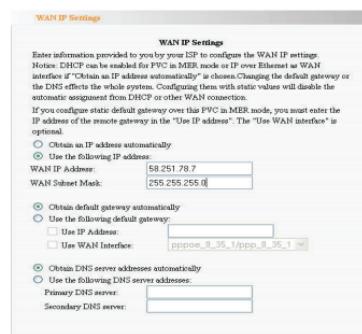
<p>3. Click "Next" and check to enable the WAN service (enabled by default).</p>	
<p>4. Click "Next" to display the window shown the summary of your settings.</p>	
<p>5. Click "Save/Reboot" to activate your settings. The system automatically establishes connection in a few minutes.</p>	

4.3 Configure the MER

1. Select “MAC Encapsulation Routing (MER)”. Click “Next”.



2. If your ISP provides the static IP address, you should enter the corresponding values in “WAN IP Address” and “WAN Subnet Mask”.



- 3.** If your ISP provides the dynamic IP address, you should select “Obtain an IP address automatically”.

WAN IP Settings

Enter information provided to you by your ISP to configure the WAN IP settings. Notice: DHCP can be enabled for PVC in MBR mode or IP over Ethernet as WAN interface. “Obtain an IP address automatically” is chosen, changing the default gateway or the DNS server in the “Advanced Configuration” section will disable the automatic assignment from DHCP or other WAN connection.

If you configure static default gateway over the PVC in MBR mode, you must enter the IP address of the remote gateway in the “Use IP address”. The “Use WAN interface” is optional.

Obtain an IP address automatically
 Use the following IP address:
 WAN IP Address:
 WAN Subnet Mask:

Obtain default gateway automatically
 Use the following default gateway:
 Use IP Address: (pppoe_8_35_1/ppp_8_35_1)
 Use WAN Interface:

Obtain DNS server addresses automatically
 Use the following DNS server addresses:
 Primary DNS server:
 Secondary DNS server:

- 4.** Click “Next”. In the case of multiple computers share the Internet access service, it is recommended to enable NAT and firewall.

Settings - Backup

Network Address Translation Settings

Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple computers on your Local Area Network (LAN).

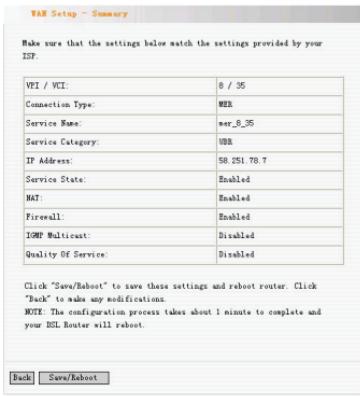
Enable NAT
 Enable Firewall

Enable IGP Multicast, and WAN Service

Enable IGP Multicast
 Enable WAN Service
 Service Name: mbr_8_35

Back **Next**

5. Click “Next” to display the window shown the summary of your settings.



6. Click “Save/Reboot” to activate your settings. The system automatically establishes connection in a few minutes.



4.4 Configure the IPoA

1. Select “IP over ATM (IPoA)”. Click “Next”.

Connection Type

Select the type of network protocol for IP over Ethernet as WAN interface

- PPP over ATM (PPPoA)
- PPP over Ethernet (PPPoE)
- MAC Encapsulation Routing (MER)
- IP over ATM (IPoA)
- Bridging

Encapsulation Mode

LLC/SNAP-ROUTING

Back **Next**

2. Enter the fixed IP address and subnet mask in corresponding fields.

WAN IP Settings

Enter information provided to you by your ISP to configure the WAN IP settings.

Notice: DHCP is not supported in T-Link mode. Changing the default gateway or the DNS effects the whole system. Configuring them with static values will disable the automatic assignment from other WAN connection.

WAN IP Address: 88.251.78.7
WAN Subnet Mask: 255.255.255.0

Use the following default gateway:
 Use IP Address: ipos_8_35/ips_8_35
 Use WAN Interface:

Use the following DNS server addresses:
Primary DNS server:
Secondary DNS server:

Back **Next**

3. Click “Next”. It is recommended to enable the NAT and firewall.

Settings - Mapping

Network Address Translation Settings

Network Address Translation (NAT) allows you to share one public IP address and multiple private IP addresses for multiple computers on your local area network (LAN).

Enable NAT
 Enable Firewall

Enable ICMP Multicast, and WAN Service

Enable ICMP Multicast
 Enable WAN Service

Service Name: ipos_8_35

Back **Next**

4. Click "Next" to display the window shown the summary of your settings.

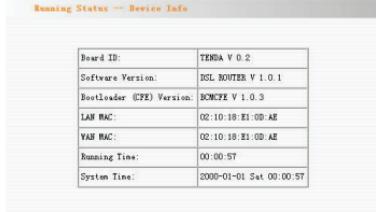


5. Click "Save/Reboot" to activate your settings.
The system automatically establishes connection in a few minutes.

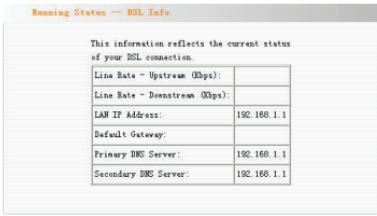


Chapter 5 Configuration Description

5.1 Device Information

1) Click "Running Status" and "Summary" to display the "Device Info" and "DSL Info" window.															
2) The device information covers: a. Board ID b. Software version c. Boot version d. LAN MAC address e. WAN MAC address f. Running time g. System time	 <p>The screenshot shows a table with the following data:</p> <table border="1"><thead><tr><th>Board ID:</th><th>TENDA V 0.2</th></tr></thead><tbody><tr><td>Software Version:</td><td>DSL ROUTER V 1.0.1</td></tr><tr><td>Bootloader (CFX) Version:</td><td>ROMCFX V 1.0.3</td></tr><tr><td>LAN MAC:</td><td>02:10:18:E1:0B:AE</td></tr><tr><td>WAN MAC:</td><td>02:10:18:E1:0B:AE</td></tr><tr><td>Running Time:</td><td>00:00:57</td></tr><tr><td>System Time:</td><td>2009-01-01 Sat 00:00:57</td></tr></tbody></table>	Board ID:	TENDA V 0.2	Software Version:	DSL ROUTER V 1.0.1	Bootloader (CFX) Version:	ROMCFX V 1.0.3	LAN MAC:	02:10:18:E1:0B:AE	WAN MAC:	02:10:18:E1:0B:AE	Running Time:	00:00:57	System Time:	2009-01-01 Sat 00:00:57
Board ID:	TENDA V 0.2														
Software Version:	DSL ROUTER V 1.0.1														
Bootloader (CFX) Version:	ROMCFX V 1.0.3														
LAN MAC:	02:10:18:E1:0B:AE														
WAN MAC:	02:10:18:E1:0B:AE														
Running Time:	00:00:57														
System Time:	2009-01-01 Sat 00:00:57														

- 3) The DSL information covers:
- a. Upstream link rate
 - b. Downstream link rate
 - c. LAN IP address
 - d. Default gateway: In the pure bridge mode, there is no gateway; in other modes such as PPPoE and PPPoA, the gateway address is the IP address of the upstream device.
 - e. Primary DNS server: In the PPPoA/PPPoE mode, the DNS address is obtained from the upstream device; in the pure bridge mode, it is not required to set the DNS address; in other modes, you can manually enter the DNS address.
 - f. Secondary DNS server



- 4) Click "WAN" in left menu to display the window shown in the right figure. From the table, you can know the general information on WAN.

Running Status - WAN												
Protocol	IP	Port	Conn	Category	Service	Interface	Protocol	Lsp	QoS	Status	Device	IP address
ATM	192.168.1.1	1	100	pppoe_0.0.0	ppp_0.0.0.1	Ether1	ATM	Enabled	Enabled	Enabled	WAN	192.168.1.1
ATM	192.168.1.1	2	100	pppoe_0.0.0	ppp_0.0.0.2	Ether1	ATM	Enabled	Enabled	Enabled	WAN	192.168.1.1

- 5) Click "Route" to display the window shown in the right figure, displaying the default information.

Running Status - Route						
Destination	Gateway	Subnet Mask	Flag	Metric	Service	Interface
192.168.1.0	0.0.0.0	255.255.255.0	U	0		br0

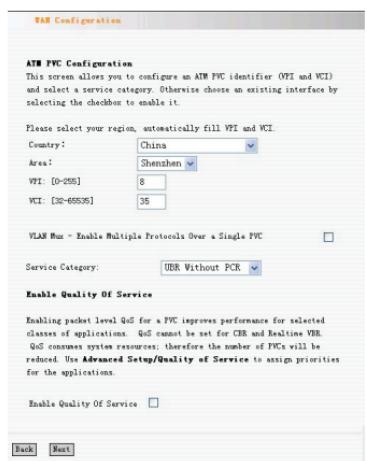
5.2 Advanced Settings

5.2.1 WAN

Click "WAN". If the WAN information has been set, you can edit or modify it in this window.

Caution: After modifying/adding new information, you need to reboot the device to activate the setting.

- 1) VPI (Virtual Path Identifier): Virtual path between two points in the ATM network. Its value ranges 0 ~ 255.
- 2) VCI (Virtual Channel Identifier): Virtual channel between two points in the ATM network. Its value ranges 32 ~ 65535 (1 ~ 31 are reserved for the well-known protocols).



- | | |
|--|--|
| <p>3) Service category:
Selecting one from five available service categories.</p> <p>4) Enable Quality of Service (QoS): check to enable it.</p> | |
|--|--|

PPPoA mode

- 1) Select “PPP over ATM (PPPoA)”.

Encapsulation Mode:

VC/MUX

LLC/ENCAPSULATION

Once you select one mode, the system automatically changes the encapsulation mode into the one matching your setting. Therefore, it is recommended to keep the default setting unchanged.



2) Click "Next" to display the window shown in the right figure.

a. Authentication Method:
AUTO/PAP/CHAP/MSCHA
P. Usually, "AUTO" is selected.

b. Dial on demand:
If you check this option, you need to manually enter the timeout time. If no flow is detected when the timeout time is up, the device will disconnect the network connection automatically. And when a flow is detected, the device automatically makes dial-up connection again.

If you disable this option, the device is always in online status until device power-off, connection failure or other failures occur.

PPP Username and Password

PPP usually requires that you have a user name and password to establish your connection. In the boxes below, enter the user name and password that your ISP has provided to you.

PPP Username:	tenda@163.gd
PPP Password:	*****
Authentication Method:	AUTO
<input checked="" type="checkbox"/> Dial on demand (with idle timeout timer)	
Inactivity Timeout (minutes) [1-4320]: 50	
<input type="checkbox"/> PPP IP extension	
<input checked="" type="checkbox"/> Use Static IP Address	
IP Address:	25.25.63.82
<input type="checkbox"/> Retry PPP password on authentication error	
Back Next	

C. PPP IP extension:

When the integrated gateway is connected with a computer, the IP address obtained through the upstream link is directly allocated to this computer connecting with the device. After the PPP IP extension is enabled, you can enable the advanced DMZ. At this time, you need to enter your DMZ host and subnet mask.

d. Use Static IP Address:

After this option is checked, the device uses this IP address as the WAN IP address and does not need to obtain it through the upstream link.

- e. Retry PPP password on authentication error
- f. Enable PPP debugging mode.

- 3) Click "Next" to display the window shown in the right figure.
- a. Enable IGMP Multicast:
IGMP agent. For example, to enable the IPTV in the PPPoE mode, you need to check this option.
- b. Enabled WAN Service:
Checked by default. It is recommended to keep this default setting, unless you do not need to activate your WAN.



- 4) Click "Next" to display the window shown in the right figure. This window shows the general information set.

TAP Setup - Summary

Make sure that the settings below match the settings provided by your ISP.

VPI / VCI:	0 / 35
Connection Type:	PPPoA
Service Name:	pppoa_0_35_1
Service Category:	UBR
IP Address:	61.187.22.9
Service State:	Enabled
NAT:	Disabled
Firewall:	Disabled
IGMP Multicast:	Enabled
Quality Of Service:	Disabled

Click "Save/Reboot" to save these settings and reboot router. Click "Back" to make any modifications.
NOTE: The configuration process takes about 1 minute to complete and your DSL Router will reboot.

[Back](#) [Save/Reboot](#)

- 5) Click "Save/Reboot" to activate your settings.

DSL Router Reboot

The DSL Router has been configured and is rebooting.

[Progress Bar]

Rebooting, please waiting 35seconds

PPPoE mode

- 1) Select "PPP over Ethernet (PPPoE)".

Encapsulation Mode:

VC/MUX

LLC/SNAP-BRIDGING

Once you select one mode, the system automatically changes the encapsulation mode into the one matching your setting. Therefore, it is recommended to keep the default setting unchanged.



2) Click "Next" to display the window shown in the right figure.

a. Authentication

Method:

AUTO/PAP/CHAP/MSC

HAP. Usually, "AUTO" is selected.

b. Dial on demand:

If you check this option, you need to manually enter the timeout time. If no flow is detected when the timeout time is up, the device will disconnect the network connection automatically. And when a flow is detected, the device automatically makes dial-up connection again.

If you disable this

PPP Username and Password

PPP usually requires that you have a user name and password to establish your connection. In the boxes below, enter the user name and password that your ISP has provided to you.

PPP Username:	tenda@163.gd
PPP Password:	*****
PPPoE Service Name:	
Authentication Method:	AUTO

Dial on demand (with idle timeout times)
Inactivity Timeout (minutes) (1-4320): 50

PPP IP extension
 Use Static IP Address
IP Address: 51.219.66.7

Retry PPP password on authentication error
 Bridge PPPoE Frames Between WAN and Local Ports (Default Enabled)

option, the device is always in online status until device power-off, connection failure or other failures occur.

c. PPP IP extension:

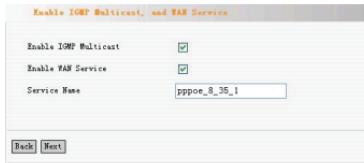
When the device is connected with a computer, the IP address obtained through the upstream link is directly allocated to this computer connecting with the device. After the PPP IP extension is enabled, you can enable the advanced DMZ. At this time, you need to enter your DMZ host and subnet mask.

d. Use Static IP Address:

After this option is checked, the device

<p>uses this IP address as the WAB IP address and does not need to obtain it through the upstream link.</p> <ul style="list-style-type: none">e. Retry PPP password on authentication errorf. Enable PPP debugging mode.	
---	--

- 8) Click "Next" to display the window shown in the right figure.
- a. Enable IGMP Multicast:
IGMP agent. For example, to enable the IPTV in the PPPoE mode, you need to check this option.
- b. Enabled WAN Service:
Checked by default. It is recommended to keep this default setting, unless you do not need to activate your WAN.



- 8) Click "Next" to display the window shown in the right figure. This window lists your settings.



- 8) Click "Save/Reboot" to activate your settings.

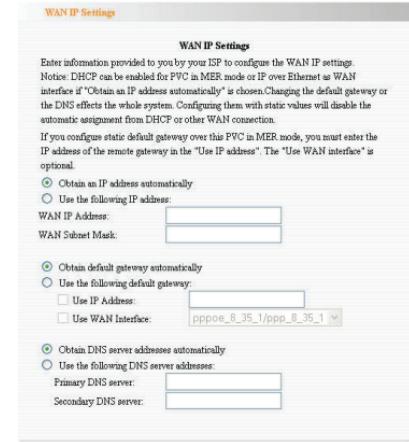


MER mode

- 1) Select “MAC Encapsulation Routing(MER)”.
Encapsulation Mode:
VC/MUX
LLC/SNAP-BRIDGING
Once you select one mode, the system automatically changes the encapsulation mode into the one matching your setting.
Therefore, it is recommended to keep the default setting unchanged.

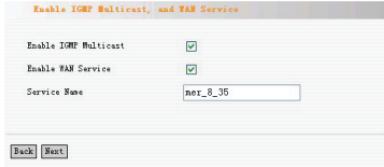


- 2) Click "Next" to display the window shown in the right figure.
- a. Obtain an IP address automatically:
If your device automatically obtains the IP address, the IP address and other parameters will be from your ISP automatically.
- b. Use the following IP address:
To manually specify an address, you need to check this option and enter your static IP address and subnet mask.
- c. Obtain default gateway automatically:
If this option is checked, the device



automatically obtains the default gateway address from the upstream device.

- 3) Use the following default gateway: To manually enter a gateway, check this option.
 - a. Use IP Address:
After checking "Use the following default gateway", you can enter a value here.
 - b. Use WAN Interface:
For the broadband access device, you need to enter the IP address of the downstream link interface.
- 4) Obtain DNS server address automatically:
If this option is checked,

<p>the device automatically obtains the DNS address.</p> <p>5) Use the following DNS server address: To manually enter a DNS address, check this option.</p> <ol style="list-style-type: none">Primary DNS serverSecondary DNS server	
<p>6) Click "Next".</p> <ol style="list-style-type: none">Enable IGMP Multicast: IGMP agent. For example, to enable the IPTV in the PPPoE mode, you need to check this option.Enable WAN Service: Checked by default. It is recommended to keep this default setting, unless you do not need to activate	

your WAN.																					
7) Click "Next" to display the window shown in the right figure. This window lists your settings.	<p>WAN Setup - Summary</p> <p>Make sure that the settings below match the settings provided by your ISP.</p> <table border="1"><tr><td>VPI / VCI:</td><td>0 / 35</td></tr><tr><td>Connection Type:</td><td>PPPoE</td></tr><tr><td>Service Name:</td><td>mer_0_35</td></tr><tr><td>Service Category:</td><td>UBR</td></tr><tr><td>IP Address:</td><td>Automatically Assigned</td></tr><tr><td>Service State:</td><td>Enabled</td></tr><tr><td>NAT:</td><td>Disabled</td></tr><tr><td>Firewall:</td><td>Disabled</td></tr><tr><td>IGMP Multicast:</td><td>Enabled</td></tr><tr><td>Quality Of Service:</td><td>Disabled</td></tr></table> <p>Click "Save/Reboot" to save these settings and reboot router. Click "Back" to make any modifications.</p> <p>NOTE: The configuration process takes about 1 minute to complete and your DSL Router will reboot.</p> <p>Back Save/Reboot</p>	VPI / VCI:	0 / 35	Connection Type:	PPPoE	Service Name:	mer_0_35	Service Category:	UBR	IP Address:	Automatically Assigned	Service State:	Enabled	NAT:	Disabled	Firewall:	Disabled	IGMP Multicast:	Enabled	Quality Of Service:	Disabled
VPI / VCI:	0 / 35																				
Connection Type:	PPPoE																				
Service Name:	mer_0_35																				
Service Category:	UBR																				
IP Address:	Automatically Assigned																				
Service State:	Enabled																				
NAT:	Disabled																				
Firewall:	Disabled																				
IGMP Multicast:	Enabled																				
Quality Of Service:	Disabled																				
8) Click "Save/Reboot" to activate your settings.	<p>DSL Router Reboot</p> <p>The DSL Router has been configured and is rebooting.</p> <p>[Progress Bar]</p> <p>Rebooting, please waiting 35seconds</p>																				

IPoA mode

- 1) Select “IP over ATM (IPoA)”.

Encapsulation Mode:

VC/MUX

LLC/SNAP-ROUTING

Once you select a mode, the system automatically changes the encapsulation mode into the one matching your setting. Therefore, it is recommended to keep the default setting unchanged.



- 2) Click "Next" to display the window shown in the right figure.
- a. WAN IP Address:
Enter the IP address provided by your ISP.
- b. WAN Subnet Mask:
Enter the subnet mask provided by your ISP.
- c. Use the following default gateway:
You can check this option.
- d. Use IP Address:
Enter the IP address provided by your ISP.
- e. Use WAN Interface:
For the broadband access device, you need to enter the IP address of the downstream link interface.
- 3) Use the following DNS server address:

WAN IP Settings

Enter information provided to you by your ISP to configure the WAN IP settings.

Notice: DHCP is not supported in IPhk mode. Changing the default gateway or the DNS effects the whole system. Configuring them with static values will disable the automatic assignment from other WAN connection.

WAN IP Address: 61.215.66.7
WAN Subnet Mask: 255.255.255.0

Use the following default gateway:
 Use IP Address: 61.215.66.7
 Use WAN Interface: ipoa_8_35/ipa_8_35

Use the following DNS server addresses:
Primary DNS server: 202.96.134.133
Secondary DNS server: 192.168.0.1

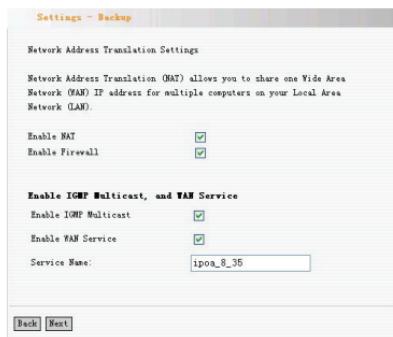
[Back](#) [Next](#)

You can check this option.

- a. Primary DNS server
- b. Secondary DNS server

Caution: In the IPoA mode, DHCP is not supported, so you need to manually enter the WAN IP address, subnet mask, default gateway, DNS server and other settings.

- 4) Click "Next".
- a. Enable NAT:
NAT enables multiple computers in your LAN to use the same WAN IP address for Internet access. It is recommended to check this option.
 - b. Enable Firewall
It is recommended to check this option to avoid some attacks.
 - c. Enable IGMP Multicast:
IGMP agent. For example, to enable the IPTV in the PPPoE mode, you need to check this option.
 - d. Enable WAN Service:
Checked by default. It is recommended to keep this default setting,unless you do not need to activate your WAN.



- e. Click "Next" to display the window shown in the right figure. This window lists your settings.

TAR Setup - Summary

Make sure that the settings below match the settings provided by your ISP.

VPI / VCI:	0 / 35
Connection Type:	IFoA
Service Name:	ipoa_8_35
Service Category:	UBR
IP Address:	61.215.66.7
Service State:	Enabled
NAT:	Enabled
Firewall:	Enabled
IGMP Multicast:	Enabled
Quality Of Service:	Disabled

Click "Save/Reboot" to save these settings and reboot router. Click "Back" to make any modifications.
NOTE: The configuration process takes about 1 minute to complete and your DSL Router will reboot.

- g. Click "Save/Reboot" to activate your settings.



Bridging mode

- 1) Select “Bridging”.

Encapsulation Mode:

VC/MUX

LLC/SNAP-BRIDGING

Once you select a mode, the system automatically changes the encapsulation mode into the one matching your setting. Therefore, it is recommended to keep the default setting unchanged.



- 2) Enable Bridge Service:

To select the bridge mode, you need to check this option. By default, this option is checked.



- 3) Click "Next" to display the window shown in the right figure. This window lists your settings.



- 4) Click "Save/Reboot" to activate your settings.



5.2.2 LAN

1). IP Address: IP address used by the router to connect to the LAN. This option is set to 192.168.1.1 upon device delivery. You can change it as required.

Caution: After changing this IP address, you need to use the new IP address to access the Web management window upon next login to the router. In addition, you must set the default gateway in each computer in your LAN to this IP address, to ensure normal Internet access.

2). Subnet Mask: Setting

Advanced Setting - LAN

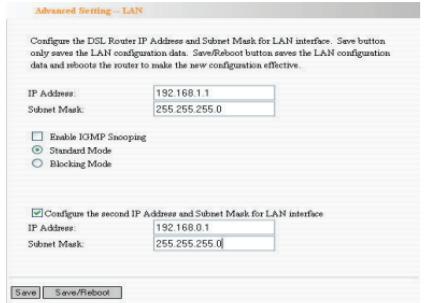
Configure the DSL Router IP Address and Subnet Mask for LAN interface. Save button only saves the LAN configuration data. Save/Reboot button saves the LAN configuration data and reboots the router to make the new configuration effective.

IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0

Enable IGMP Snooping
 Standard Mode
 Blocking Mode

Configure the second IP Address and Subnet Mask for LAN interface
IP Address: 192.168.0.1
Subnet Mask: 255.255.255.0

Save **Save/Reboot**



<p>your subnet mask.</p> <p>3). Enable IGMP Snooping: Used in the bridge mode.</p> <p>4). Standard Mode</p> <p>5). Blocking Mode</p> <p>6). Configure the second IP Address and Subnet Mask for LAN interface.</p>	
Click "Save/Reboot".	<p style="text-align: center;">DSL Router Reboot</p> <p>The DSL Router has been configured and is rebooting.</p> <div style="text-align: center;"> Rebooting, please waitting 35seconds</div>

5.2.3 NAT

5.2.3.1. Virtual Server

- 1) Click “NAT” → “Virtual Server” to display the window shown in the right figure. Here, you can add or delete your virtual server settings. By default, the external networks cannot access the IP address of your internal network. However, if you need such access by the external networks (for example, you need to set up the server or support some special applications), you should enable this function to allow the access by external networks.



- 2) Click "Add" to display the window shown in the right figure.
- a. Select a Service:
Selecting the service to be enabled.
- b. Custom Server:
Manually entering the server name.
- c. Server IP Address: LAN IP address for the server.

Caution: After a service is selected, the system automatically opens the corresponding port. After you manually enter a customized service, you need to manually enter the port to be opened.

NAT - Virtual Servers

Select the service name, and enter the server IP address and click "Save/Apply" to forward IP packets for this service to the specified server. NOTE: The "Internal Port End" cannot be changed. It is the same as "External Port End" normally and will be the same as the "Internal Port Start" or "External Port End" if either one is modified.

Remaining number of entries that can be configured: 32

Server Name	<input checked="" type="radio"/> Select a Service: <input type="text" value="FTP Server"/>	<input type="radio"/> Custom Server: <input type="text"/>		
Server IP Address:	<input type="text" value="192.168.1.100"/>			
Save/Apply				
External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
21	21	TCP	21	21
		TCP		

- d. Click “Save/Apply” to display the service added, as shown in the right figure.

Advanced Setting - NAT - Virtual Service Setup						
Virtual Service allows you to direct incoming traffic from WAN side (identified by Protocol and External port) to the internal server with private IP address in the LAN side. The forward port is required only if the external port needs to be converted to a different port number used by the server on the LAN side. A maximum 25 entries can be configured.						
Service Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Server IP Address
FTP Server	21	21	TCP	21	21	192.168.1.100
<input type="button" value="Add"/> <input type="button" value="Delete"/>						<input type="checkbox"/>

5.2.3.2 Port Triggering

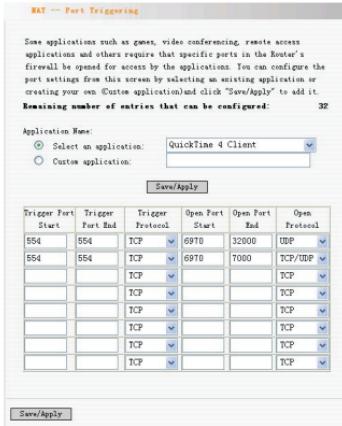
- 1) Click “Port Triggering” to display the window shown in the right figure. Here, you can add or delete your port triggering service settings. For some special applications, you need to enable some application ports. Through the port triggering, you can enable the automatic opening of the ports required by applications.

Advanced Setting - NAT - Port Triggering Setup						
Some applications require that specific ports in the Router's firewall be opened for access by the remote parties. Port Trigger dynamically opens up the "Open Port" in the firewall when an application on the LAN initiates a TCP/UDP connection to a certain port. When the application terminates the connection, the "Open Port" will close. If the application uses connections back to the application on the LAN side using the "Open Port", a maximum 30 seconds can be configured.						
Application	Trigger	Port Range	Protocol	Open	Port Range	Expires
		Start: End		Start: End		
<input type="button" value="Add"/> <input type="button" value="Delete"/>						<input type="checkbox"/>

- 2) Click "Add" to display the window shown in the right figure.
- Select an application: Selecting the name of the service to be enabled.
 - Custom application: Manually entering the service name.

Caution: After a service is selected, the system automatically sets the corresponding port. After you manually enter a customized service, you need to manually enter the port to be triggered.

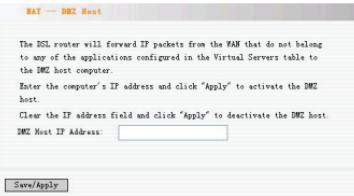
- 3) Click "Save/Apply" to display the service added, as shown in the right figure.



Application Name	Trigger Port Start	Trigger Port End	Trigger Protocol	Open Port Start	Open Port End	Open Protocol
QuickTime 4 Client	554	554	TCP	32000		UDP
	554	554	TCP	6970	7000	TCP/UDP
			TCP			TCP
			TCP			TCP
			TCP			TCP
			TCP			TCP
			TCP			TCP
			TCP			TCP
			TCP			TCP

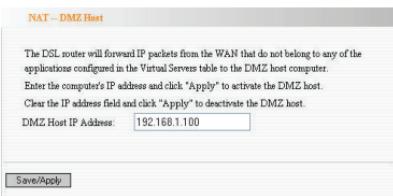
5.2.3.3 DMZ Host

1. Click "DMZ Host" to display the window shown in the right figure.



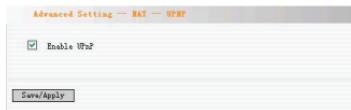
2. DMZ Host IP Address:
Entering the LAN IP address for the DMZ host.

Caution: Opening DMZ means to open all ports. In this case, your computer is totally exposed to the public network. Be cautious to use this function. Click "Save/Apply" to activate the settings.



5.2.3.4 UPNP

1) Click “UPNP” to display the window shown in the right figure. Enable UPnP: Check to Enable the UPnP (Universal Plug and Play) function. UPnP is a kind of architecture of common network connection between the computer and intelligent devices/instruments. It is especially common in the family application. Based on the Internet standards and technologies (such as TCP/IP, HTTP and XML), UPnP enables automatic connection and cooperation between such devices, thus to make more people can



access the network
(especially the family
network).
Click “Save/Apply” to
activate the settings.

5.2.4 Security

5.2.4.1 IP Filtering

- 1) Click “Security” → “IP Filtering” to display the window shown in the right figure.

By default, all outgoing traffic from LAN is allowed, but some IP traffic can be blocked by setting up filters. Choose All or Source to configure outgoing IP filters.

Filter Rule Protocol Source Address / Mask Source Port Dest. Address / Mask Dest. Port Actions

Add Delete

Source — Outgoing IP Filtering Rule

By default, all outgoing IP traffic from LAN is allowed, but some IP traffic can be blocked by setting up filters. Choose All or Source to configure outgoing IP filters.

Filter Rule Protocol Source Address / Mask Source Port Dest. Address / Mask Dest. Port Actions

Add Delete

- 2) Click "Add" to display the window shown in the right figure.
- Filter Name: Setting the filtering name to facilitate identification.
 - Protocol: Selecting one from four available protocols: TCP/UDP; TCP; UDP; ICMP.
 - Source IP address: Entering the internal network IP address to be filtered.
 - Source Subnet Mask: Entering the subnet mask corresponding to the internal network IP address to be filtered.
 - Source Port: Entering the port number of the internal network IP

Add IP Filter -- Outgoing

The screen allows you to create a filter rule to identify outgoing IP traffic by specifying a new filter name and at least one condition below. All of the specified conditions in this filter rule must be satisfied for the rule to take effect. Click 'Save/Apply' to save and activate the filter.

Filter Name:	tenda
Protocol:	TCP/UDP
Source IP address:	192.168.1.100
Source Subnet Mask:	255.255.255.0
Source Port (port or port:port):	1500
Destination IP address:	218.77.85.9
Destination Subnet Mask:	255.255.0.0
Destination Port (port or port:port):	80

<p>address to be filtered.</p> <p>f. Destination IP address: Entering the external network IP address to be filtered.</p> <p>g. Destination Subnet Mask: Entering the subnet mask corresponding to the external network IP address to be filtered.</p> <p>h. Destination Port: Entering the port number of the external network IP address to be filtered.</p> <p>Based on the above settings, you can add your filtering rules.</p> <p>You can select your WAN interface.</p> <p>However, it is recommended to keep the default setting unchanged.</p>	
---	--

- 3) Click "Save/Apply".

Security - Outgoing IP Filtering Setup

By default, all outgoing IP traffic from LAN is allowed, but some IP traffic can be **BLOCKED** by setting up filters.

Choose Add or Remove to configure outgoing IP filters.

Filter Name	Protocol	Source Address / Mask	Source Port	Dest. Address / Mask	Dest. Port	Action
test1	TCP/UDP	192.168.1.0/0.255.255.255.0	1500	208.77.85.9/0.255.255.0.0	0	<input type="checkbox"/>

Add | **Remove**

- 4) Click "Incoming" to display the window shown in the right figure.

By default, all incoming traffic is restricted. However, you can set IP filtering to allow internal network access by some external computers.

Security - Incoming IP Filtering Setup

By default, all incoming IP traffic from the WAN is blocked since the Firewall is enabled. However, some IP traffic can be **ACCEPTED** by setting up filters.

Choose Add or Remove to configure incoming IP filters.

Filter Name	Protocol	Source Address / Mask	Source Port	Dest. Address / Mask	Dest. Port	Action
-------------	----------	-----------------------	-------------	----------------------	------------	--------

Add | **Remove**

- 5) Click "Add" to display the window shown in the right figure.
- Filter Name: Setting the filtering name to facilitate identification.
 - Protocol: Selecting one from four available protocols: TCP/UDP; TCP; UDP; ICMP.
 - Source IP address: Entering the external network IP address to be filtered.
 - Source Subnet Mask: Entering the subnet mask corresponding to the external network IP address to be filtered.
 - Source Port: Entering the port number of the external network IP address to be filtered.

Add IP Filter - Incoming

The screen allows you to create a filter rule to identify incoming IP traffic by specifying a new filter name and at least one condition below. All of the specified conditions in this filter rule must be satisfied for the rule to take effect. Click Save&Apply to save and activate the filter.

Filter Name:	tenda
Protocol:	TCP/UDP
Source IP address:	216.77.87.8
Source Subnet Mask:	255.255.0.0
Source Port (port or port-port):	80
Destination IP address:	192.168.0.100
Destination Subnet Mask:	255.255.255.0
Destination Port (port or port-port):	1500

WAN Interfaces (Configured in Routing mode and with firewall enabled only)
Select at least one or multiple WAN interfaces displayed below to apply this rule.

Select All
 pppoe_8_35_1/ppp_8_35_1

<p>f. Destination IP address: Entering the internal network IP address to be filtered.</p> <p>h. Destination Subnet Mask: Entering the subnet mask corresponding to the internal network IP address to be filtered.</p> <p>i. Destination Port: Entering the port number of the internal network IP address to be filtered. Based on the above settings, you can add your filtering rules. You can select your WAN interface. However, it is recommended to keep the default setting unchanged.</p>	
---	--

- 5) Click "Save/Apply".

Filter	Mac	IP/MC	Protocol	Source Address / Rule	Port	Dest. Address / Rule	Port	Service
tenda	ALL	IP/ICMP		216.77.0.6 / 32768	80	100.90.0.100 / 255.255.255.0	8080	<input type="checkbox"/>

Add **Delete**

5.2.4.2. Parent Control

- 1) Click "Time of Day Restriction" to display the window shown in the right figure.

Weekday	MAC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start	Stop	Save
---------	-----	-----	-----	-----	-----	-----	-----	-----	-------	------	------

Add **Delete**

- 2) Click "Add" to display the window shown in the right figure. Here, you can set a specific period to restrict Internet access of a MAC address.

This page adds time of day restriction to a special LAN device connected to the Router. The 'Browser's MAC Address' automatically displays the MAC address of the LAN device where the browser is running. To restrict other LAN devices, click the 'Other MAC Address' button and enter the MAC address of the other LAN device. To find out the MAC address of a Windows based PC, go to command window and type 'ipconfig /all'.

User Name

Browser's MAC Address
 Other MAC Address

Days of the week
 Click to select

Start Blocking Time (hh:mm)
End Blocking Time (hh:mm)

Save/Apply

- 3) Click "Save/Apply".

Security --- Time of Day Restrictions --- A maximum 10 entries can be configured.

Entries	MAC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start	Stop	Enabled
1	00:09:95:00:11:23	x	x	x	x	x			20:00	23:00	<input type="checkbox"/>

Add **Remove**

5.2.5 Routing

5.2.5.1 Default Gateway

- 1) Click "Routing" → "Default Gateway" to display the window shown in the right figure.
- Enable Automatic Assigned Default Gateway:
- You can check/uncheck this option. If you uncheck this option, you need to manually enter the default gateway address and WAN service. It is recommended to keep the default setting unchanged.
- 2) Click "Save/Apply".



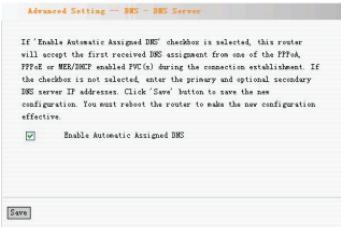
5.2.5.2 Static Routing

<p>1) Click "Static Route" to display the window shown in the right figure.</p> <p>Here, you can add/delete the items of the static route.</p>	
<p>1) Click "Add" to display the window shown in the right figure.</p> <p>Destination Network Address: Entering the network or host for static route.</p> <p>Subnet Mask: Entering the subnet mask corresponding to the network or host for static route.</p> <p>Use Gateway IP Address: Entering the</p>	

<p>gateway address to be passed by the static route.</p> <p>Use Interface: Selecting the interface corresponding to your connection mode. Click "Save/Apply".</p>	
---	--

5.2.6. DNS

5.2.6.1 DNS Server

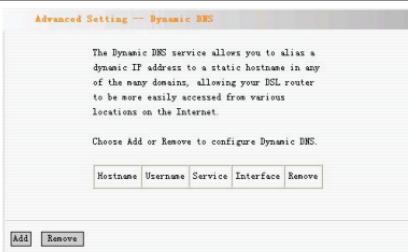
<p>1) Click "DNS Server" to display the window shown in the right figure.</p> <p>2) Enable Automatic Assigned DNS: After checking it, the DNS settings are activated. And the DHCP server of the router allocates the added DNS address to the</p>	 <p>Advanced Setting -- DNS - DNS Server</p> <p>If 'Enable Automatic Assigned DNS' checkbox is selected, this router will accept the first received DNS assignment from one of the PPPoA, PPPoE or MUX/DHCP enabled PVC(s) during the connection establishment. If the checkbox is not selected, enter the primary and optional secondary DNS server IP addresses. Click 'Save' button to save the new configuration. You must reboot the router to make the new configuration effective.</p> <p><input checked="" type="checkbox"/> Enable Automatic Assigned DNS</p> <p><input type="button" value="Save"/> <input type="button" value="Cancel"/></p>
--	---

client submitting the request.

- 3) Primary DNS server:
Entering the DNS address provided by the ISP.
- 4) Secondary DNS server: If your ISP provides two DNS addresses, you can enter the other address here.

5.2.6.2 Dynamic DNS

- 1) Click "Dynamic DNS" to display the window shown in the right figure. Here, you can add/ delete the dynamic DNS settings. Dynamic DNS can make your applied domain name correspond to your IP address, so that the other users only need to remember your domain name for accessing your server.



- 2) Click "Add" to display the window shown in the right figure.

D-DNS provider:
Selecting a specific provider of dynamic DNS.

Hostname: Domain name applied by you.

Interface: Selecting one from two available interface modes.

Username: Your user name registered on the website of the dynamic DNS provider.

Password: Password corresponding to your user name registered on the website of the dynamic DNS provider.

Add dynamic DNS

This page allows you to add a Dynamic DNS address from DynDNS.org or TZO.

D-DNS provider:

Hostname:

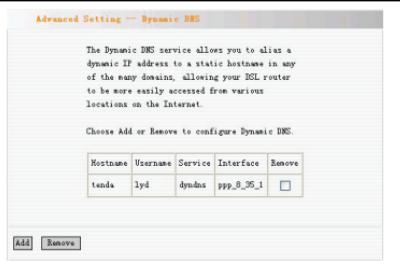
Interface:

DynDNS Settings

Username:

Password:

- 3) Click "Save/Apply".



5.2.7 DSL

Click “DSL” to display the window shown in the right figure. Here, you can enable a service as required. By default, the system checks the status of G.dmt, G.lite, T1.413, ADSL2, ADSL2+, AnnexL, Inner pair and Bitswap. The device can automatically negotiate with the upstream device.



5.3 DHCP

- i. Click "DHCP Server" to display the window shown in the right figure.
1. You can click "Disable DHCP Server" or "Enable DHCP Server".
 2. Start IP Address: Start address of the DHCP server IP pool
 3. End IP Address: End address of the DHCP server IP pool
 4. Leased Time: Validity period of the IP address obtained.
- Click "Save".



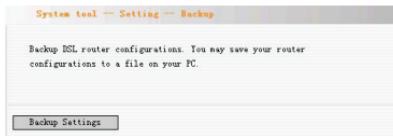
- Click "DHCP Client List" to view the list of the clients with allocated DHCP service.

DHCP Leases			
Hostname	MAC Address	IP Address	Expires In
DD	00:04:61:4A:8C:24	192.168.1.100	23 hours, 59 minutes, 55 seconds

5.4 System Tool

5.4.1 Settings

1. Click "Backup" to display the window shown in the right figure. Here, you can back up the current settings of the router.



2. Click "Update" to display the window shown in the right figure. Here, you can restore the router settings from the backup file.



3. Click "Restore Default" to display the window shown in the right figure.

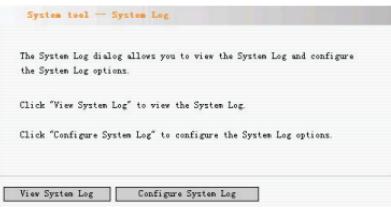
Click "Restore Default Settings" to restore the default settings before device delivery.

Caution: After restoring the default settings, you need to reboot the router to activate this modification.



5.4.2 System Log

1. Click "System Log" to display the window shown in the right figure.



2. Click "View System Log" to display the window shown in the right figure.

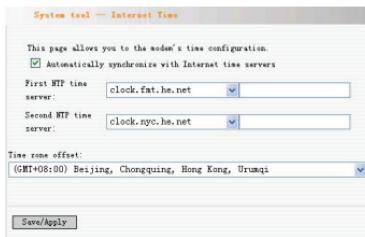


3. Click "Configure System Log" to display the window shown in the right figure.
- (1) Log: Enable; Disable
- (2) Log Level: Selecting the required level, Debugging by default.
- (3) Display Level: Error by default.
- (4) Mode: Local by default. If you select "Remote" or "Local/Remote", the system transmits the log UDP packets to your log server.
- Click "Save/Apply".



5.4.3 Internet Time

1. Click “Internet Time” to display the window shown in the right figure. If you enable this function, the system can automatically obtain the time when accessing the Internet.



5.4.4 Access Control

5.4.4.1 Service

- (1) Click "Access Control" to display the window shown in the right figure. You can enable or disable FTP/HTTP/ICMP/SNMP /SSH/TELNET/TFTP.
- (2) Click "Save/Apply" to activate the settings

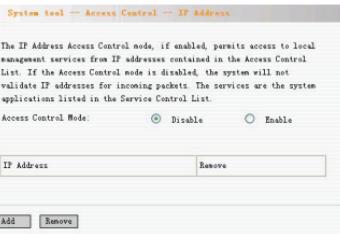
System tool —> Access Control —> Services		
A Service Control List ("SCL") enables or disables services from being used.		
Services	LAN	WAN
HTTP	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable
ICMP	<input type="checkbox"/> Enable	<input type="checkbox"/> Enable
SNMP	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable
TELNET	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable
TFTP	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable

Save/Apply

5.4.4.2 IP address

(1) Click "IP Address" to display the window shown in the right figure. Here, you can add/delete items.

Access Control Mode: Enable; Disable. When you enable it, the IP address allowed can access the management page.



(2) Click "Add" to display the window shown in the right figure. You can enter an IP address, which is allowed by the system for accessing the management page. Click "Save/Apply" to activate the settings.

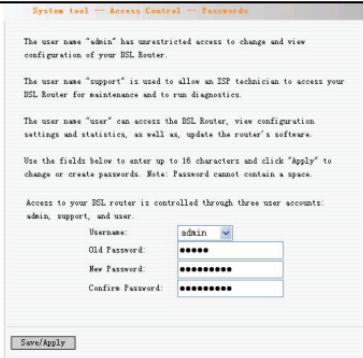


5.4.4.3 Password

(1) Click "Password" to display the window shown in the right figure. Here, you can modify the password for logging in to the Management page. Enter the former login password, and then the new login password. If the former login password is correctly entered, you can click "Save/Apply" to successfully modify the login password.

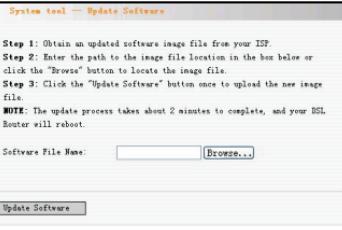
Caution: For the sake of security, we highly recommend you to change the initial user name and password.

(2) Click "Save/Apply" to activate the modification.



5.4.5 Software Update

1. Click "Update Software" to display the window shown in the right figure. Click "Browse" to select your update file, and then click "Update Software".



5.4.6 Save/Reboot

1. Click "Save/Reboot" to display the window shown in the right figure.
Rebooting device can activate the changed settings. However, the ADSL connection is automatically interrupted before the reboot.



Chapter 6 Appendix

Appendix 1: Troubleshooting

Trouble Case	Troubleshooting
Power Indicator Off	<ul style="list-style-type: none">● Check if the power adapter is connected properly.● Check if the power adapter is matched.
ADSL Off	<ul style="list-style-type: none">● Check if the ADSL cable connection is OK.● Make sure the telephone line is OK you're your phone.● Check the phone line cabling is right.
LAN Off	<ul style="list-style-type: none">● Check the Ethernet cable is OK.● Make sure the PC's NIC indicator is ON.● Make sure the NIC works normally.

Can't access
the Internet

- Make sure the above troubles are clear.
- Make sure the dial-up connection is established and set up.
- Make sure the user name and password are right.
- If the dial-up is OK, please make sure the IE proxy server is configured properly.
- Please try opening multiple web pages

Appendix 2: FAQ

Q: What are VPI, VCI?

A: VPI (Virtual Path Identifier) and VCI (Virtual Channel Identifier) are to identify ATM terminal (ADSL) for DSLAM, usually provided the local ISP.

Q: What related parameters are required from your ISP?

A: For dial user, Connection protocol, User name, Password, Value of VPI/VCI, Encapsulation mode and so on.

Q: The firmware upgrade fails and I can't enter the Web-based management interface?

A: Contact the technical engineer for support or after-sales service engineer.

Note: please download the upgrade packets from the Tenda website.

Q: Have completed all configurations, but can't dial through computer?

A: 1) Check the indicator of ADSL, it should be working in normally.
2) Check the accuracy of parameter of value of

VPI/VCI, Encapsulation mode and so on.

- 3) Make sure the dial-up connection is established.
- 4) You can check whether your ADSL Modem succeeds in connection through PING command.