

User Guide



D820R ADSL2+ Router

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Package Contents

Unpack the packet and the following contents should be founded.

- One D820R External ADSL2+ Router
- One AC Power Adapter (AC9V/1A)
- One Voice Splitter
- One RJ-45 Ethernet Network Cable
- Two RJ-11 Telephone Line
- One Quick Installation Guide
- One CD-ROM

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

Contents

Chapter 1 Overview	1
1.1 Product Introduction	1
1.2 Product Features.....	1
1.3 Supporting Protocol.....	2
1.4 Data Encapsulation	2
Chapter 2 Hardware Description	3
2.1 External Components.....	3
2.1.1 The Front Panel.....	3
2.1.2 Back Panel	4
2.2 Minimum Requirements	5
2.3 Installation Environment.....	6
2.3.1 Physical Environment Requirement.....	6
2.3.2 Working Environment	6
2.4 Hardware Installation	6
2.4.1 Installation Requirement	6
2.4.2 Hardware Installation Procedures	7
Chapter3 Internet Connection Configurations	9
3.1 PC Configuration.....	9
3.1.1 How to Set the Network Configurations	9
3.1.2 How to Check the Network Connection	11
3.2 Login	12

3.3 External Dial-Up (Bridge)	13
3.3.1 How to Create a New Connection on My Computer	15
3.4 The Internal Dial-Up Connection (Route).....	18
3.4.1 PPPoE.....	18
3.4.1.1 Before Configuring.....	18
3.4.1.2 Configuring Parameters.....	19
3.5 Static IP	20
3.5.1 Before Configuring	20
3.5.2 Configuring Parameters	20
3.6 PPPoA.....	22
Chapter 4 Advanced Configurations	22
4.1 LAN Configuration.....	22
4.1.1 LAN Configuration.....	22
4.1.2 DHCP Server.....	23
4.1.3 DHCP Pool Information	23
4.2 System Service	24
4.2.1 NAT.....	24
4.2.2 RIP	29
4.2.3 Firewall	30
4.2.4 IP and Bridge Filter.....	30
4.2.5 UPNP	30
4.2.6 Blocked Protocol	31
4.2.7 SNTP.....	31
4.3 Admin Configuration.....	32
4.3.1 User Config	32
4.3.2 Commit & Reboot.....	33

4.3.3 Image Upgrade.....	34
Chapter 5 Appendix	35
Appendix 1: Troubleshooting	35
Appendix 2: FAQ	36

Chapter 1 Overview

1.1 Product Introduction

D820R ADSL2+ Router complies with ADSL, ADSL2 and ADSL2+ standards. Supporting up to 24Mbps downstream rate and 1Mbps upstream rate, it supports multiple protocols and provides NAT Router and Bridge functions. In addition, the intelligent software, Setup Wizard, can assist you to access the Internet fast and easily. Powerful performance and exquisite appearance, 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
- One 10/100M Auto-Negotiation RJ-45 Ethernet port for network adapter and switch connectivity
- One RJ-11 port and Voice Splitter included
- Provides Web-based management and firmware upgrade
- Complies with ADSL, ADSL2 and ADSL2+ standards
- Compatible with all mainstream DSLAM (CO)
- Provides PPPOE, PPPOA, CLIP protocol

- Supports firewall and hacker attack prevention
- Supports Internet Multi Media
- Provides static and dynamic route
- Up to 6.5km transmission distance

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

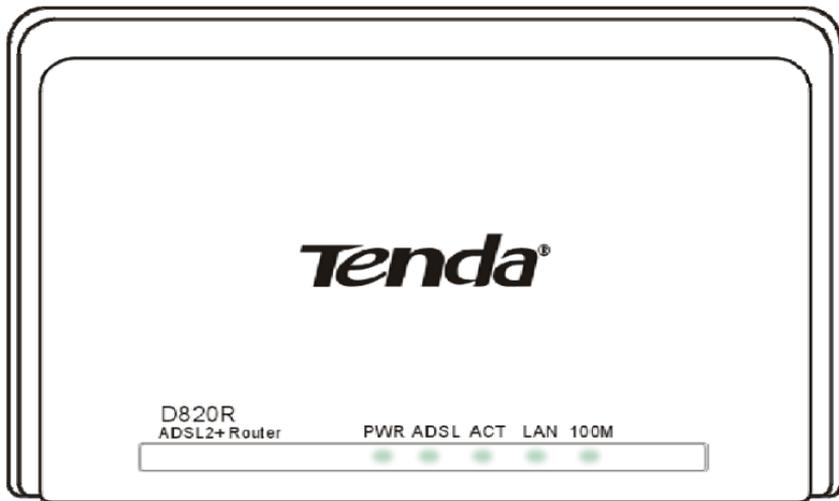
1.4 Data Encapsulation

- 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 Description

2.1 External Components

2.1.1 The Front Panel



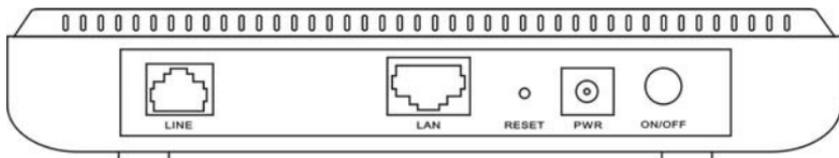
D820R Front Panel

Five LED indicators are located on the front panel. Through these indicators' working status, we can tell the Router whether it is working normally. The LED indicator's description is shown below.

LED Indicator	Color	Status	Description
PWR	Green	ON	The device is powered on.
	—	OFF	Power failure

ADSL	Green	ON	Indicates the connection is established.
		Blinking	Indicates the connection is not established.
		Blinking Fast	Indicates the device gets through handshake with physical layer device.
ACT	Green	Blinking	Indicates the Router is transmitting/receiving data packets.
LAN	Green	Blinking	Indicates the Router is transmitting/receiving data packets to LAN devices.
100M	Green	ON	Indicates the device is transmitting/receiving data packets at 100Mbps.
	—	OFF	Indicates there is no connection on LAN.

2.1.2 Back Panel



D820R Back Panel

- 1) ON/OFF: Turn on/off the Router's power
- 2) POWER: The power socket for power adapter.

Notice: please use the matched power adapter (9V~50Hz 1A). Use of a different voltage may damage your Router.

- 3) RESET: The reset button for restoring to factory default settings.

Notice: Press the button three times with one conoid thing. After all indicators turn off, the Router will reboot and restore to default settings.

- 4) LAN: RJ-45 LAN port for connecting to hub, switch or PC's network adapter in your local network.
- 5) LINE: Connect to the Modem port the Voice Splitter or connecting the telephone line.

2.2 Minimum Requirements

- 64MB Memory
- 200MHz CPU
- 10/100M Network Adapter
- Internet Explorer 5.0
- Operating system supporting TCP/IP protocol
- Broadband Internet service (XDSL/Cable Modem)

2.3 Installation Environment

2.3.1 Physical Environment Requirement

- Install the device horizontally.
- Do not wipe off dirt with wet cloth.
- Make sure there's adequate space for proper heat dissipation and adequate ventilation around the device.
- Keep the environment clean and dry.
- Power off the device and unplug the power adapter in heavy rain and lightning day.

2.3.2 Working Environment

- Operating temperature: 0 °C~40 °C
- Storage temperature: -40 °C~70 °C
- Humidity: 10%~90% RH non-condensing

2.4 Hardware Installation

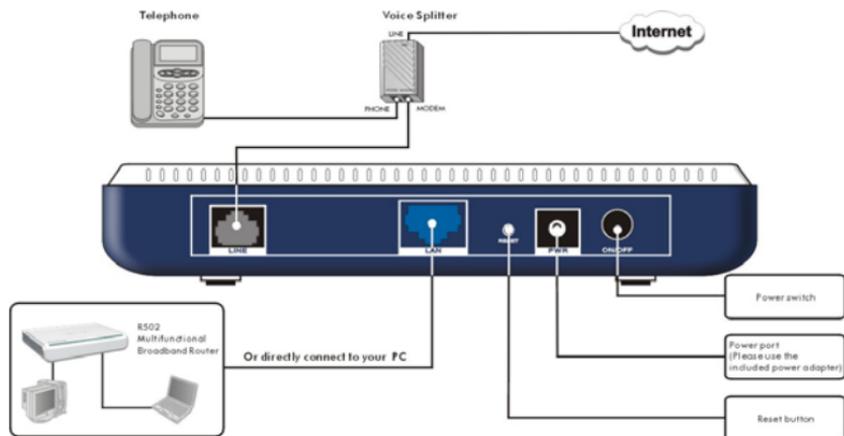
2.4.1 Installation Requirement

Before you install the device, please make sure you the following requirements are acquired.

- Have acquired at least one WAN IP address or user name and password provided by your ISP
- One or more 10Base-T/100Base-T Network Adapter on your PC
- Internet Explorer 5.0 or above

2.4.2 Hardware Installation Procedures

1. Connect the Modem port of the Voice Splitter with the D820R ADSL2+ Router LINE port by telephone line. While you need to use a telephone, please attach telephone line into the PHONE port of the Voice Splitter.
2. Connect the ADSL2+ Router's LAN port to your computer's network adapter with network cable.
3. Plug one end of the AC Power Adapter into the Power socket on the Ethernet ADSL Router and the other end to a standard electrical outlet, and turn on the power switch.
4. Check the line connection as the below figure to see if everything is ready.



D820R Hardware Installation Plan

Chapter3 Internet Connection Configurations

D820R provides the plug-and-play solution. You have two ways to configure the device:

1. Use the external dial-up software
2. Use the built-in dial-up software

If you use the built-in dial-up software, please refer to the following instruction to configure the device.

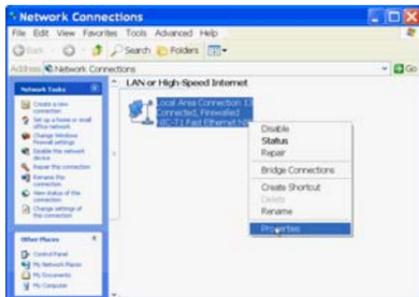
3.1 PC Configuration

3.1.1 How to Set the Network Configurations

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



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



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

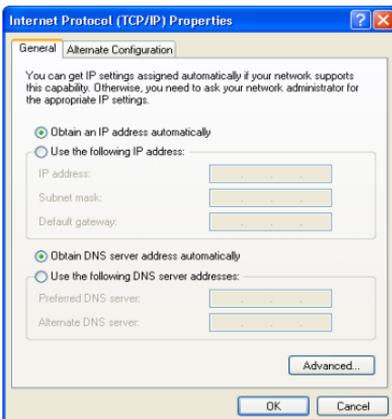
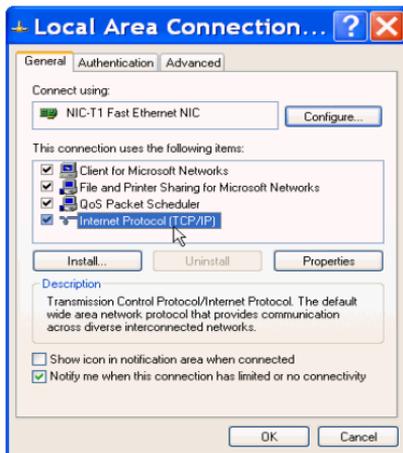
Select “Obtain an IP address automatically” and “Obtain DNS server address automatically”. Click “OK” to save the configurations.

Or select “Use the following IP address” and enter the IP address, Subnet mask, Default gateway as shown right.

IP address: 192.168.1.XXX
(XXX is a number between 2 and 254.)

Subnet mask: 255.255.255.0

Default gateway: 192.168.1.1



DNS server: Enter the DNS server provided by your ISP. Or use the gateway (192.168.1.1) as the DNS proxy server and click “OK”.

Notice: Windows 98 users can open **TCP/IP Properties** according to the following:
Right-click **Network Neighbor** ->
Choose **Properties** ->
Double-click **TCP/IP**.

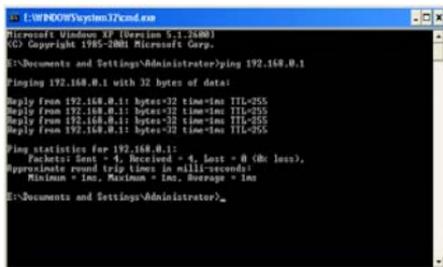
Windows 2000/NT/XP users can **TCP/IP Properties** according to the following:
Right-click **Network Neighbor** ->
Choose **Properties** -> Right-click **Local Connection** -> Choose **Properties** -> Double-click **Internet Protocol (TCP/IP)**.

3.1.2 How to Check the Network Connection

Select “**Start**”—**All Programs**”—“**Accessories**”—

“Command Prompt”.

Input the “**ping** 192.168.1.1” and press “**Enter**”. If the screen displays as the right figure, it means your PC is connected to your router successfully.



If the figure is shown as right, it means your PC is not connected to the Router. Please check if the physical cabling and power supply are OK.



3.2 Login

Enter the Router’s IP address: <http://192.168.1.1> and press “**Enter**”.



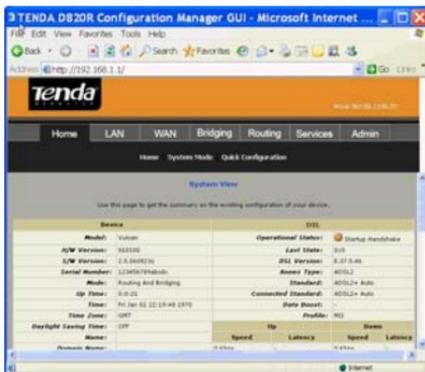
Please input the “**admin**” in both User Name and Password. Click “**OK**”.



Note: It is recommended

to check the “Remember my password” for fast login next time.

The window will appear as right:



3.3 External Dial-up (Bridge)

After the D802R is connected to your ISP successfully (ADSL Link indicator/ON), launch the dial-up program on your computer, enter the accounts and password to access the Internet.

WAN Interfaces							
gPort	Encapsulation	IP Address	Mask	Gateway	Lower Interface	VPI/VCI	Status
wan-0	Bridged	0.0.0.0	0.0.0.0	0.0.0.0	as0-0	0/32	
wan-1	Bridged	0.0.0.0	0.0.0.0	0.0.0.0	as0-1	0/35	
wan-2	Bridged	0.0.0.0	0.0.0.0	0.0.0.0	as0-2	0/100	
wan-3	Bridged	0.0.0.0	0.0.0.0	0.0.0.0	as0-3	0/81	
wan-4	Bridged	0.0.0.0	0.0.0.0	0.0.0.0	as0-4	0/32	
wan-5	Bridged	0.0.0.0	0.0.0.0	0.0.0.0	as0-5	0/35	
wan-6	Bridged	0.0.0.0	0.0.0.0	0.0.0.0	as0-6	0/81	

D802R provides seven groups of VPI/VCI by default: 8/32, 8/35, 0/100, 8/81, 0/32, 0/35 and 0/81.

If your VPI/VCI is out of the default

range, please configure the parameters in the corresponding field as below:

ATM Interface: 1

Encapsulation: 1483Bridged IP LLC

VPI/VCI: Enter the VPI/VCI value provided by your ISP.

Bridge: Enable

IGMP: Disable

Use DHCP: Enable

Default Route: Disabled

Other fields select the default value.

Click “**Submit**”, and select

“**Admin**”>

“**Commit and Reboot**” tab. The right window will appear, and click “**Submit**”. Now your settings have been saved in the Router. If you do not commit, the settings will be lost before you start the Router next time.

After the rebooting is completed, you can launch the dial-up

ATM Interface:	0
Operation Mode:	Enabled
Encapsulation:	1483 Bridged IP LLC
VPI:	2
VCI:	22
Bridge:	Enabled
IGMP:	Disabled
IP Address:	0 0 0 0
Subnet Mask:	0 0 0 0
Use DHCP:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Default Route:	Disabled
Gateway IP Address:	0 0 0 0

Commit & Reboot

Use this page to commit changes to system memory and reboot your system with different configurations.

Reboot Mode: Reboot

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program and have access to the Internet

3.3.1 How to Create a New Connection on My Computer

Select **“Start”-“Accessories”-“Communications”**, and click **“New Connection Wizard”**;

The **“New Connection Wizard”** will appear. Click **“Next”**.



Select **“Connect to the Internet”** and click **“Next”**.



Select **“Set up my connection manually”** and click **“Next”**.



Select **“Connect using a broadband connection that...”** and click **“Next”**.



Enter your ISP name and click “Next”.



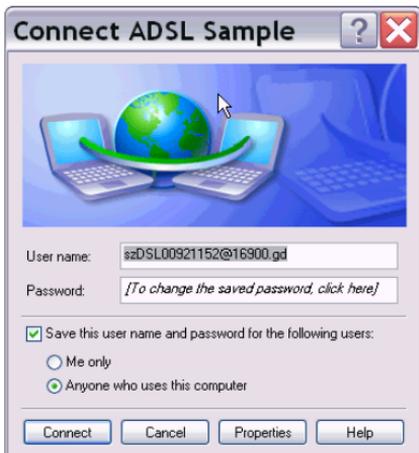
Enter the User name and Password provided by your ISP, and click “Next”.



Check “Add a shortcut to this connection to my desktop” and click “Finish”.



A shortcut icon will appear to your desktop. Double click this icon, enter the correct user name and password as shown right and click “Connect”.



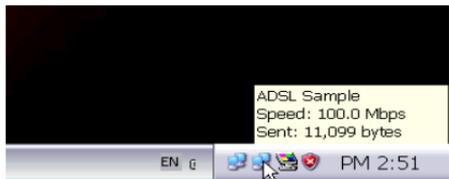
A new icon will appear in the right-down desktop, which means the connection is established.

3.4 The Internal Dial-up Connection (Route)

3.4.1 PPPoE

3.4.1.1 Before Configuring

Before you configure the device, please make sure you have acquired the following information from your ISP: VPI/VCI, Encapsulation,



Accounts, and Password.

3.4.1.2 Configuring Parameters

In the “**Home**” screen, click “**Quick Configuration**”. The right window will appear.

Please fill the following parameters in the corresponding field.

ATM Interface: seven groups of VPI/VCI provided by default:

0→ 8/32, 1→8/35, 2→0/100, 3→8/81, 4→0/32, 5→0/35, and 6→0/81. If your VPI/VCI is out of the default range, select Interface 0 and enter the VPI/VCI value.

Operation Mode: Enable

Encapsulation: PPPOE LLC

Bridge: Disable

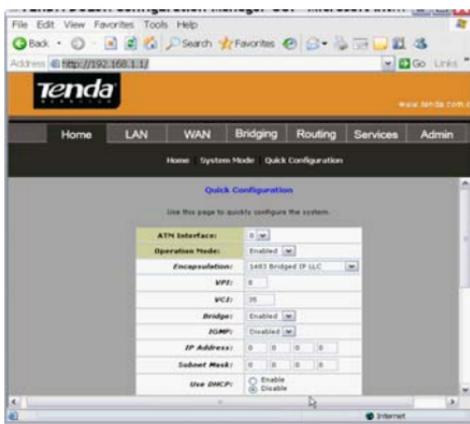
User Name and

Password:Enter them provided by your ISP.

Use DHCP: Enabled

Default Route: Enabled

Other fields select the default value.



Click **“Submit”**, and select **“Admin” > “Commit and Reboot”** tab. The right window will appear, and click **“Commit”**. Now your settings have been saved in the Router. If you do not commit, the settings will be lost before you start the Router next time.

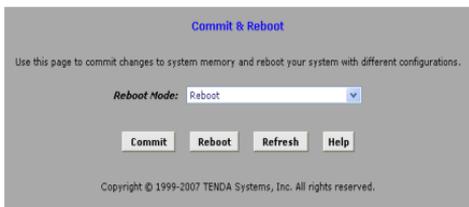
3.5 Static IP

3.5.1 Before Configuring

Before you configure the device, please make sure you have acquired the following information from your ISP: VPI/VCI, Encapsulation, IP Address, Subnet Mask, Gateway and DNS.

3.5.2 Configuring Parameters

In the **“Home”** screen, click **“Quick Configuration”**. The right window will appear. Please fill the following parameters in the corresponding field.



ATM Interface: seven groups of VPI/VCI provided by default: 0→8/32, 1→8/35, 2→0/100, 3→8/81, 4→0/32, 5→0/35, and 6→0/81. If your VPI/VCI is out of the default range, select Interface 0 and enter the VPI/VCI value.

Operation Mode: Enable

Encapsulation: PPPOE LLC

Bridge: Disable

User Name and Password:

Enter them provided by your ISP.

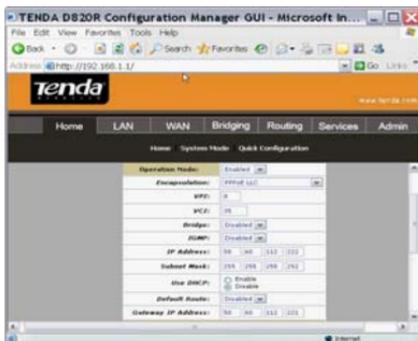
Use DHCP: Enabled

Default Route: Enabled

IP Address, Subnet Mask, Gateway and DNS Server: Enter these provided by your ISP.

Other fields select the default value.

Click "**Submit**", and select "**Admin**"> "**Commit and Reboot**" tab. The right window will appear, and click "**Submit**". Now your settings have been saved in the



Router. If you do not commit, the settings will be lost before you start the Router next time.

3.6 PPPoA

RFC2364 (PPPoA)

The PPPoA configuration is mostly the same as the PPPoE encapsulation mode, but

- Most PPPoA PVC usually is LLC.
- PPP protocol is PPPoA

Chapter 4 Advanced Configurations

4.1 LAN Configuration

This section is to configure the LAN.

4.1.1 LAN Configuration

Get LAN Address:

the default is “Manual”. It is recommended not selecting

others in this field. Otherwise, you may not enter the Web-based utility.

LAN IP Address:

the default address is 192.168.1.1.

LAN Network Mask: the default address is 255.255.255.0. If the IP address is changed, please make the network mask matched.

4.1.2 DHCP Server

After you modify the IP address of the Router, you may find you need more IP addresses. So select the “**IP Server**” tab, click the “**Add**” button if you need an IP pool. If you need a new IP pool which overlaps the configured IP, you can click the “Garbage Can” icon to delete the configured IP pool.

4.1.3 DHCP Pool Information

After you click “**Add**”, the right

LAN Configuration	
System Mode:	Routing And Bridging
Get LAN Address:	<input checked="" type="radio"/> Manual <input type="radio"/> External DHCP Server <input type="radio"/> Internal DHCP Server
Actual LAN IP Address:	192.168.1.1
Actual LAN Network Mask:	255.255.255.0
Conf. LAN IP Address:	<input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="1"/> <input type="text" value="1"/>
Conf. LAN Network Mask:	<input type="text" value="255"/> <input type="text" value="255"/> <input type="text" value="255"/> <input type="text" value="0"/>
Speed:	100BT
Duplex:	Full
IGMP:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
MTU:	<input type="text" value="1500"/>

LAN Config DHCP Mode DHCP Server DHCP Relay

Dynamic Host Configuration Protocol (DHCP) Server Configuration

Use this page if you are using the device as a DHCP server. This page lists the IP address pools available to computers on your LAN. The device distributes numbers in the pool to devices on your network as they request Internet access.

Start IP Address	End IP Address	Domain Name	Gateway Address	Status	Action(s)
192.168.1.3	192.168.1.34		0.0.0.0	Enabled	

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screen will appear. Please enter the “**Start IP Address**”, “**End IP Address**” and “**Netmask**”, click “**Submit**” to save the configuration.

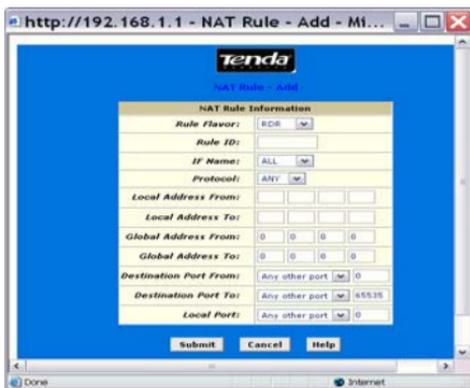
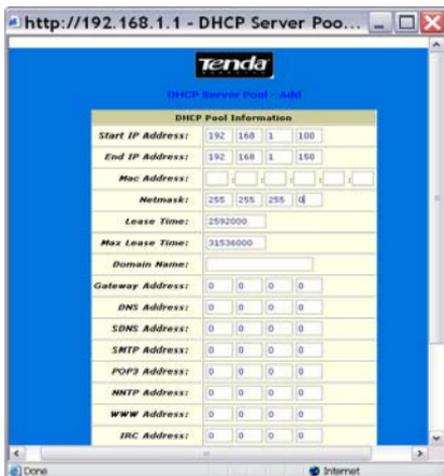
Note: the start IP can not be vertical with the end IP address. The other fields can leave blank.

4.2 System Service

You can configure the following items: NAT, RIP, Firewall, IP Filter, Bridge Filter, DNS, Blocked Protocol, DDNS, UPnP, and SNTP.

4.2.1 NAT

NAT allows a signal device to act as an intermediary between the Internal and a local network, which usually assigns a public address to a PC (or group of



computer). Select **"NAT"** tab, and in **"NAT Option"** select **"NAT Rule Entry"**. Click **"Add"** to create a new NAT rule. The window will appear as right.

- Rule Flavor:
 - ✓ Basic Rule: The Basic flavor translates the private (LAN-side) IP address to a public (WAN-side) address,
 - ✓ Filter Rule: translates public and private IP addresses on a one-to-one basis.
 - ✓ NAT Rule: The NAT flavor translates private source IP addresses to a single public IP address. The NAT rule also translates the source port numbers to port numbers that are defined on the NAT Global Configuration page

- ✓ Bimap Rule:
performs address translations in both the outgoing and incoming directions
- ✓ RDR Rule: The RDR rule flavor allows you to make a computer on your LAN, such as a Web or FTP server, available to Internet users without having to obtain a public IP address for that computer. The computer's private IP address is translated to your public IP address in all incoming and outgoing data packets.
- ✓ Pass Rule:
allow a range of IP addresses to remain untranslated even when another rule is

- defined that would otherwise perform a translation on them.
- Rule ID: The lower rule ID number, the higher the priority.
 - IF Name: Select the corresponding WAN interface, such as PPP, 1483B and so on.
 - Protocol: Select one protocol from (TCP/UDP/ICMP) .
 - Local Address From: The starting local address 0.0.0.0 means all;
 - Local Address To: The ending local address. 255.255.255.0 means all;
 - Global Address

- From: 0.0.0.0;
- Global Address To: 0.0.0.0;
 - Destination Port From: The starting destination port;
 - Destination Port To: The ending destination port
 - Local Port: The local IP port

Example 1:

Providing Web service on 192.168.1.3:

1. Click “Add” in NAT Rule Entry

2. **Rule Flavor:** RDR

3. **IP Name:** select the corresponding WAN protocol

4. **Protocol:** ANY

5. **Local Address From:** 192.168.1.3

6. **Local Address To:** 192.168.1.3

7. **Destination Port From:** 80

NAT Rule Information				
<i>Rule Flavor:</i>	RDR			
<i>Rule ID:</i>	10			
<i>IF Name:</i>	ppp-0			
<i>Protocol:</i>	ANY			
<i>Local Address From:</i>	192	168	1	3
<i>Local Address To:</i>	192	168	1	3
<i>Global Address From:</i>	0	0	0	0
<i>Global Address To:</i>	0	0	0	0
<i>Destination Port From:</i>	Any other port			80
<i>Destination Port To:</i>	Any other port			80
<i>Local Port:</i>	Any other port			80

8. Destination Port To: 80

Now the other PCs on the WAN can access the Router through this WAN IP address. Please configure it as right.

Example 2:

30 PCs (192.168.1.2~192.168.1.31) can share the ADSL Internet resources over the NATP rule. Please configure it as right.

4.2.2 RIP

This Router uses the RIP protocol to communicate with other device. The table lists all interfaces (usually LAN interface) and presents the protocol version.

NAT Rule Information				
<i>Rule Flavor:</i>	NAPT ▾			
<i>Rule ID:</i>	11			
<i>IF Name:</i>	ppp-0 ▾			
<i>Local Address From:</i>	192	168	1	2
<i>Local Address To:</i>	192	168	1	31
<i>Global Address:</i>	0	0	0	0

4.2.3 Firewall

This screen is the firewall general configuration. You can configure the “**Blacklist Status**”, “**Blacklist Period**”, “**Attack Protection**”, DOS Protection...and Log Destination.

Firewall Global Configuration	
Blacklist Status:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Blacklist Period(min):	<input type="text" value="10"/>
Attack Protection:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
DOS Protection:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Max Half open TCP Conn.:	<input type="text" value="25"/>
Max ICMP Conn.:	<input type="text" value="25"/>
Max Single Host Conn.:	<input type="text" value="75"/>
Log Destination:	<input type="checkbox"/> Email <input checked="" type="checkbox"/> Trace
E-Mail ID of Admin 1:	<input type="text"/>
E-Mail ID of Admin 2:	<input type="text"/>
E-Mail ID of Admin 3:	<input type="text"/>

4.2.4 IP and Bridge Filter

To configure the LAN access rule, you can set the IP and Bridge Filter. When you select the Bridge connection mode, you can configure the Bridge Filter.

Basic Information	
Rule ID:	<input type="text"/>
Direction:	<input type="radio"/> Incoming <input checked="" type="radio"/> Outgoing
In Interface:	ALL
Security Level:	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low
Log Tag:	<input type="text"/>
Start Time (HH MM SS):	00 00 00
End Time (HH MM SS):	23 59 59
Src IP Address:	any 0 0 0 0 0 0 0 0 0 0
Dest IP Address:	any 0 0 0 0 0 0 0 0 0 0
Protocol:	any TCP
Apply Stateful Inspection:	<input type="checkbox"/>
Action:	<input type="radio"/> Accept <input checked="" type="radio"/> Deny
Interface:	ALL
Log Option:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Blacklist Status:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable

4.2.5 UPNP

This screen is to enable/disable the UPnP configuration.

UPnP Configuration	
Current Status:	Enabled
Next Boot Status:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

4.2.6 Blocked Protocol

This screen is to configure the blocked/unblocked protocol.

Protocol	Blocked
PPPoE:	<input type="checkbox"/>
IP Multicast:	<input type="checkbox"/>
RARP:	<input type="checkbox"/>
AppleTalk:	<input type="checkbox"/>
NetBEUI:	<input type="checkbox"/>
IPX:	<input type="checkbox"/>
BDPU:	<input type="checkbox"/>
ARP:	<input type="checkbox"/>
IPV6 Multicast:	<input type="checkbox"/>
802.1Q:	<input type="checkbox"/>

4.2.7 SNTP

This screen is for time configuration. Enter the IP address of the SNTP server and domain name to synchronize the system time with the network time.

IP Address	Domain Name	Status	Action
No SNTP Server addresses configured!			
0 0 0 0			Add

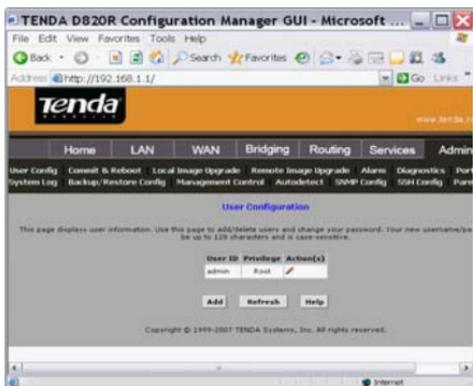
4.3 Admin Configuration

This screen is for admin configuration, including User Config, Commit & Reboot, Local Image Upgrade, Remote Image Upgrade, Alarm Diagnostics, System Log, Backup/Restore Config, etc..

4.3.1 User Config

User Config allows you to change your User ID and Password. The new password can not be more than 64 characters and keep case-sensitive.

Select the pen icon to enter the change password screen. First, enter the old password, admin (default). Second, enter the new password. Last, re-enter to



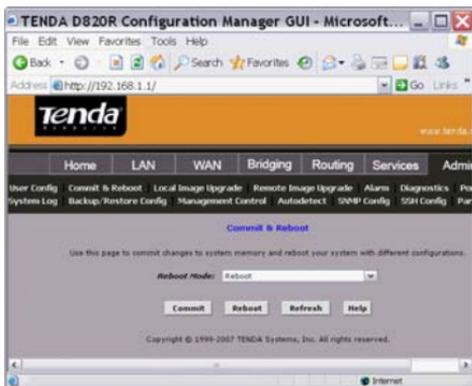
confirm the new password.

Click **“Submit”** to finish the settings.

4.3.2 Commit & Reboot

This screen is to save the modified settings and to Reboot, Reboot from default configuration, Reboot from backup configuration, Reboot from last configuration, Reboot from clean configuration and reboot from minimum configuration.

Note: *Everything you configured in this Router needs to be saved in this part. Otherwise, the settings will be lost after login next time.*



4.3.3 Image Upgrade

Image Upgrade is to update the current firmware. After you get the upgrade firmware from our URL or distributors, click “Browse” to locate the download image file and select the “Upload” button to start the image upgrade.

Note: DO not power off the Router during the upgrade. Otherwise, it may cause the serious damage.



Chapter 5 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 LINK Off	<ul style="list-style-type: none">● Check if the ADSL cable connection is OK.● Make sure the telephone line is OK with your phone.● Check the phone line cabling is right.
LAN LINK 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	<ul style="list-style-type: none">● 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

1. 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.

2. 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.

3. 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.

4. 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.