TP-LINK®

User Guide

TD-8800
Ethernet ADSL Router

- Complies with all ADSL protocols
- Built-in NAT and DHCP server
- Up to 8192Kbps Download Speed and 1024Kbps Upload Speed

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SAFETY NOTICES

Caution: Do not use this product near water, for example, in a wet basement or near a swimming pool.

Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

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Package contents

The following contents should be found in your box:

- One TD-8800 Ethernet ADSL Router
- One AC power Adapter for TD-8800 Ethernet ADSL Router
- One splitter
- One RJ11 cable
- One RJ45 cable
- One Resource CD for TD-8800 Ethernet ADSL Router, including:
  - This Guide
  - ADSL.exe
- Wall-mounting screws

Note: If any of the listed contents are damaged or missing, please contact the retailer from whom you purchased the TD-8800 Ethernet ADSL Router for assistance.

Chapter 1: Product Overview

TP-LINK® TD-8800 Ethernet ADSL Router is the latest product designed and manufactured by TP-LINK Technologies Co., Ltd. With TP-LINK excellent design of circuit and high quality production, we guarantee the Ethernet ADSL Router a high performance, very good stability and easy to use.

TD-8800 adopts single chip AFE, insuring you good performance and reliability.

TD-8800 is a complete plug-and-play solution. With standard Ethernet interface, it can be directly connected to any 10M/100M Ethernet devices.

TD-8800 can be configured and monitored via html (web mode through Ethernet port), telnet (command line mode through Ethernet port) and external utility software.

1.1 Product main specification

- High speed and asymmetric data transmit mode, suitable for high-speed Internet access
- Point to point connection, provide safe and exclusive bandwidth
- Support all ADSL industrial standards
- Advanced DMT modulation and demodulation
- Firmware upgradeable
- Compatible with all mainstream DSLAM (CO)
- Real-time Configuration and device monitoring
- Quick response semi-conductive surge protect circuit, provides reliable ESD and surge-protect function
- Easy to configure through the external utility software
- External Splitter

1.2 Supporting protocol

- ANSI T1.413 I2
- ITU G.992.1A (G.dmt)
- G.992.2 A (G.lite)
- G.994.1 (G.hs) in ADSL layer.
- Compliant with ITU-I.432 and ITU-I.363 in ATM TC, SAR and AAL5 layers
- RFC2364 (PPPoA)
- RFC2516 (PPPoE)
- RFC1483 (EoA) (support BRIDGED and ROUTED modes)
- RFC1577 CLASSIC IP over ATM (CLIP)

1.3 Transmit data-rate

- Max download data-rate: 8192Kbps
- Max upload data-rate: 1024Kbps
- Max line length: 5KM

1.4 ATM property

- AAL type: AAL5
- ATM service type
- UBR ATM
- UNI 3.1, UNI 4.0*

1.5 System support

- UP to 8 PVCs
- Support NAT, DHCP Server
- Standard Ethernet interface, true Plug and Play function

1.6 Working environment

- Operating temperature: 0°～40 ℃
- Storage temperature: －40°～70 ℃
- Humidity: 10%～90%

1.7 Electric parameter

- Adapter power: 9V~ 0.8A
- Power consumption: 4.5W Maximum

Chapter 2: Hardware Installation Guide

2.1 System requirement

Confirm your computer has been installed with Network Interface Card (NIC) before connecting the Ethernet ADSL Router to your computer, with operating system supporting the TCP/IP protocol.

2.2 LED explanation

The panel of the TD-8800 Ethernet ADSL Router includes one power button, one power indicator (RED) and four function indicators (GREEN), and these five indicators are explained as chart 1-1:

Indicator	Description	Status	Function Details
PWR	Power	On Off	Power OK Power fail, check the power input
ADSL	ADSL status	Slow flash Quick flash On	The DSL line is down During DSL handshaking The DSL line is up
ALARM	Mistake	On Off	Some error occur In normal operation
ACT	Data	Flash Off	Data is transmitting on WAN port No data transmitting on WAN port
LAN	Ethernet	On Off	The Ethernet connection is up The Ethernet connection is down

Chart 1-1

2.3 Rear-panel

- **Power**: Please do not use any unknown power adapter, which may damage your Ethernet ADSL Router.
- **Line port (LINE)**: Connect to the splitter's MODEM jack for ADSL service.
- **Lan port (LAN)**: Support 10/100Base-T RJ-45 port, use category 5 cable to connect with your computer's NIC or other 10/100M Ethernet devices, such as switch and router.
- **Reset button (RESET)**: Push the reset button three times, the router will restore the factory defaults.

2.4 Hardware installation procedures

1. Connect the ADSL line to the splitter's LINE jack, and then Connect the LINE port of the Ethernet ADSL Router to the splitter's MODEM jack using the RJ11 cable . While you need to use a telephone, please attach telephone line into the splitter's PHONE

jack.

2. Connect category 5 cable with RJ45 jack to the Ethernet ADSL Router's LAN port and your computer's NIC.
3. Plug one end of the AC Power Adapter into the Power Jack on the Ethernet ADSL Router and the other end to a standard electrical outlet.
4. Check the line connection to see if everything is ready. Power up finally.

Chapter 3: Quick Setup

3.1 Computer Configuration

1. Connect the cable according to Chapter 2, turn on the power.
2. Change the IP address of your PC: Open TCP/IP Properties of the LAN card in your PC, enter the IP address as 192.168.1.* (* is any value between 2 to 254, subnet mask is 255.255.255.0, Gateway is 192.168.1.1, DNS address is the value provided by ISP).

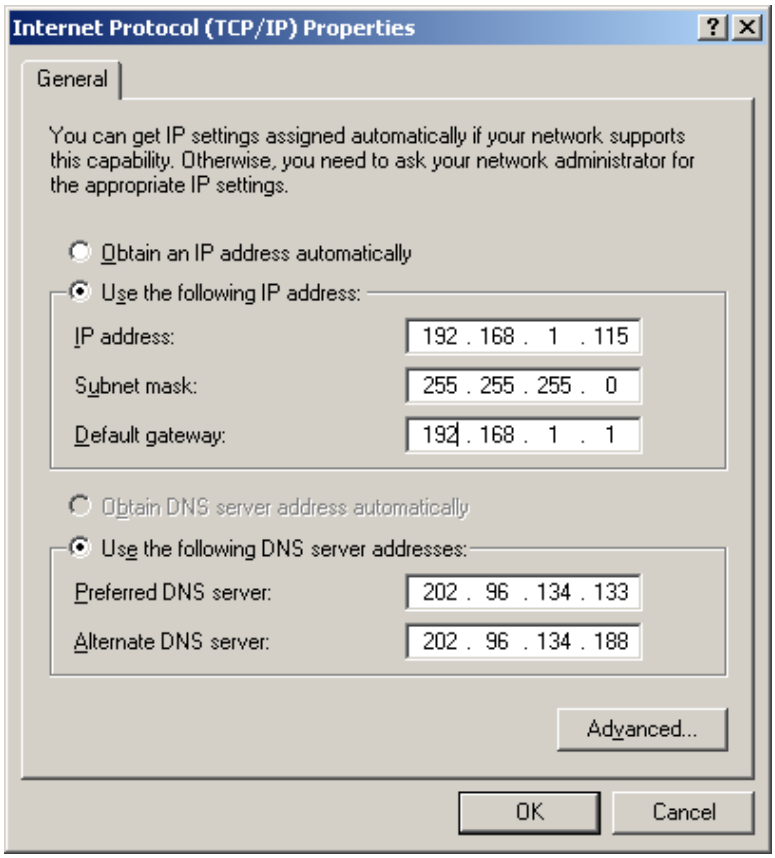

Figure 3-1

Note: The users of Windows 98 can open TCP/IP Properties according to the following: Right-press (Mouse) **Network Neighbor** -> **Choose Properties** -> Double-press **TCP/IP**.. **PCI Fast Ethernet Adapter**.

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

Remarks: you can check whether your configuration is successful through **PING** command. Enter Ping **192.168.1.1**.

If the screen likes the following, you succeed.
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<10ms TTL-128

…

If the screen likes the following, you fail. Please try again.

Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.

…

3.2 Login

Double-click ADSL.exe, the Login screen appears.

Figure 3-2

At first, the default IP address is 192.168.1.1, both the **User name** and the **Password** are admin. Press **Login**, the Utility will start login.

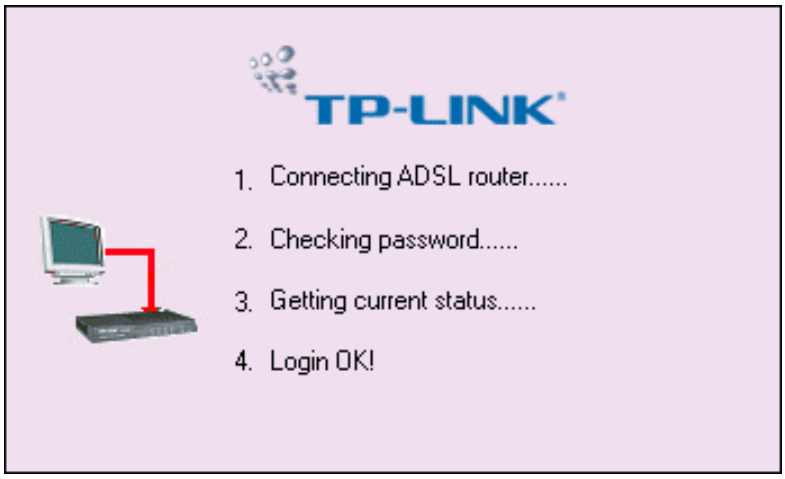

Figure 3-3

The following screen will appear after successful login. There are four function modules in left. They are **Quick Setup**, **Set DHCP**, **Mode**, and **Show Status**. The information of default parameters are on the right hand.

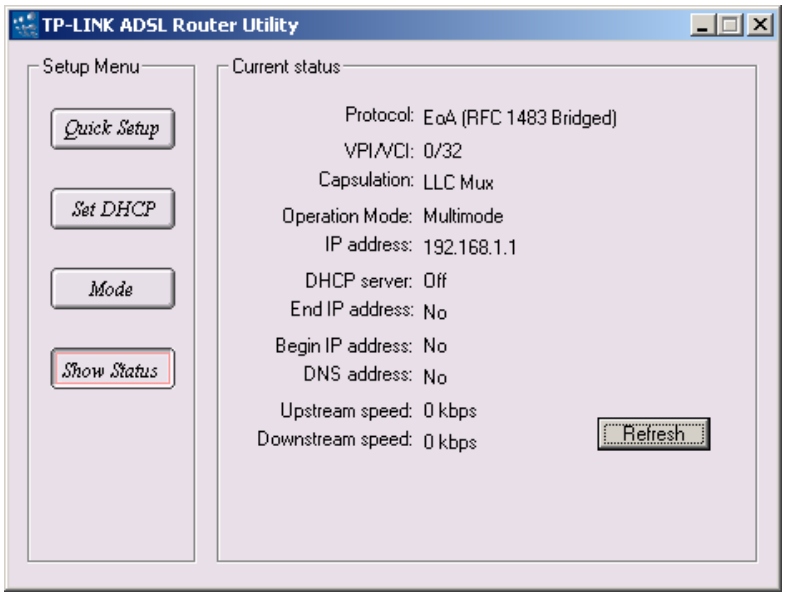

Figure 3-4

3.3 Quick Setup

Press **Quick Setup** to load Quick Setup screen.

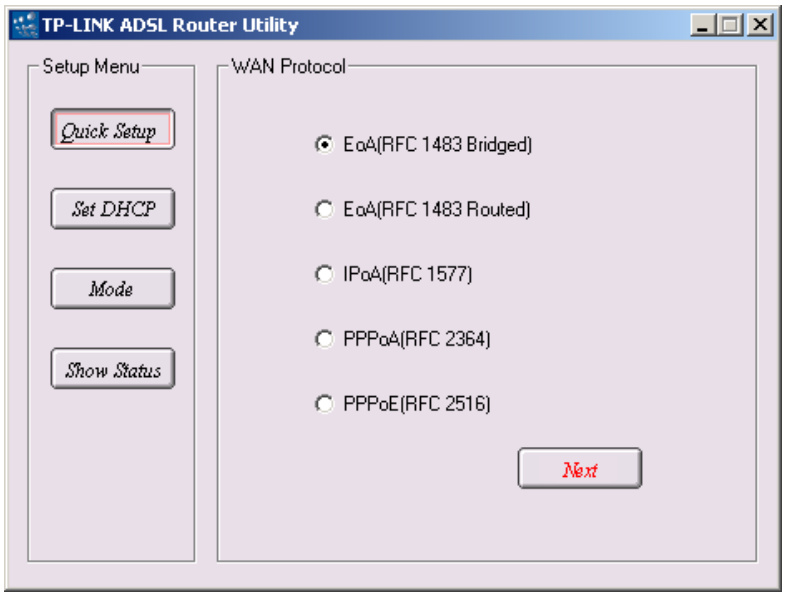

Figure 3-5

There are 5 connection protocols:

- EoA (RFC 1483 Bridged) (adapt to Dial or fixed IP users)
- EoA(RFC 1483 Routed) (adapt to fixed IP users)
- IPoA (RFC 1577) (adapt to fixed IP users)
- PPPoA (RFC 2364) (adapt to dial users)

- PPPoE (RFC 2516) (adapt to dial users)

Note:The protocol will vary depending on different places. Select the corresponding one according to your ISP's parameters.

3.3.1 EoA (RFC 1483 Bridged)

1. Choose **EoA (RFC 1483 Bridged)**, press **Next** to ATM VC Config (See Figure 3-5)
2. Enter **VPI/VCI** value which is provided by your ADSL service provider, choose the AAL5 **Capsulation type**, press **Next** (Figure 3-6).

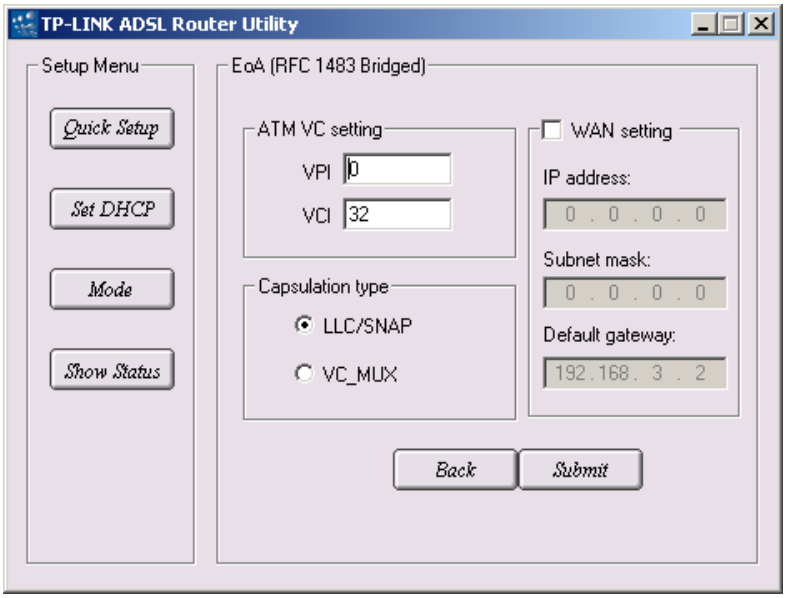

Figure 3-6

The fixed IP users can enter the parameters provided by ISP such as IP address and gateway to the **WAN setting**, witch you also can enter the parameter to the NIC in your PC.

3. Press **Submit** after you confirm the configuration. Like Figure 3-7

Figure 3-7

4. Press **OK** on the screen as Figure 3-8

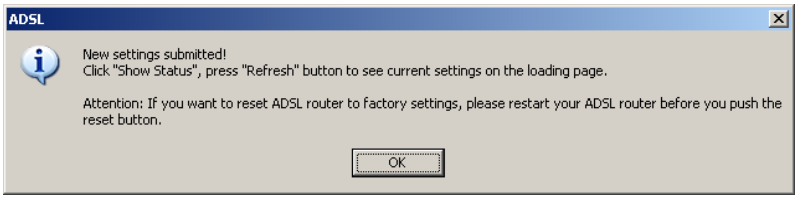

Figure 3-8

5. The Dial users should run the dialing software such as **WinPoet** or **EnterNet** to do the virtual dialing.

3.3.2 EoA (RFC 1483 Routed)

1. Choose **EoA (RFC 1483 Routed)** in the screen like Figure 3-5, press **Next**.
2. Enter the **VPI/VCI** value, choose the **Capsulation type**, press **Next**.

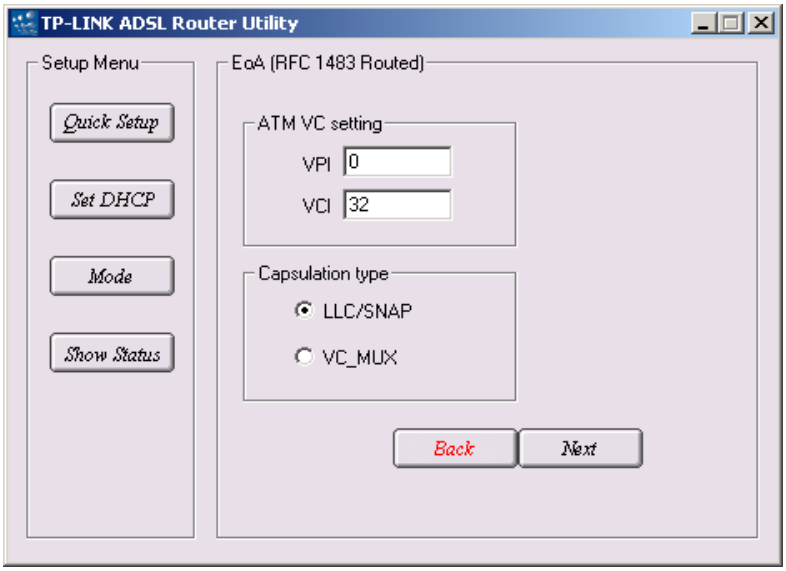

Figure 3-9

3. Enter the **IP address**, **default gateway** and **subnet mask** of WAN.

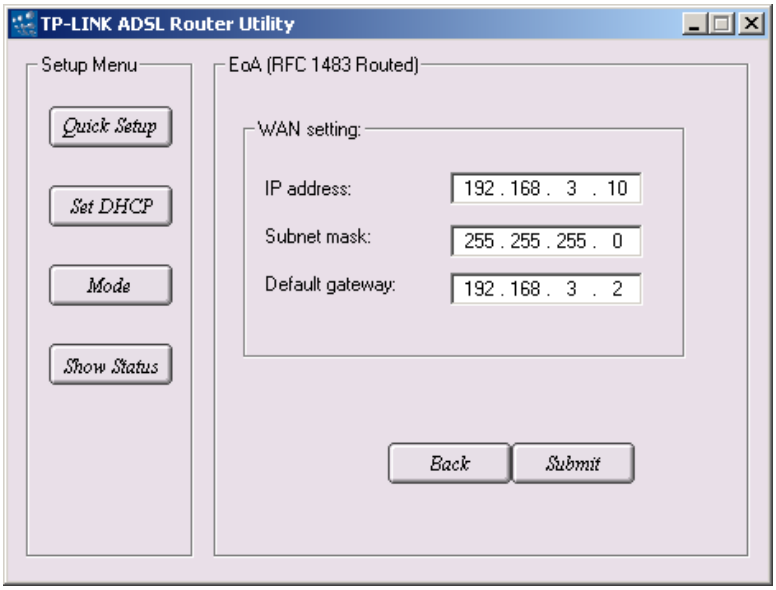

Figure 3-10

4. Press **Submit**. If you succeed, the SUBMIT SUCCESS screen should appear (See Figure 3-8). Press **OK** to finish the configuration.

3.3.3 IPoA (RFC 1577)

1. Choose **IPoA (RFC 1577)** in Figure 3-5, press **Next**.
2. Enter the **VPI/VCI** value, choose the **Capsulation type**, press **Next**.

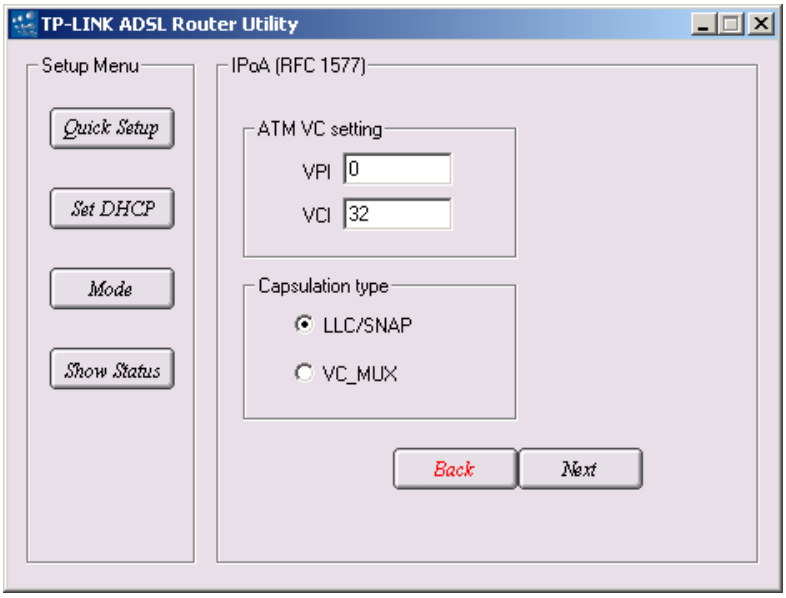

Figure 3-11

3. Enter the **IP address**, **default gateway** and **subnet mask** of WAN.

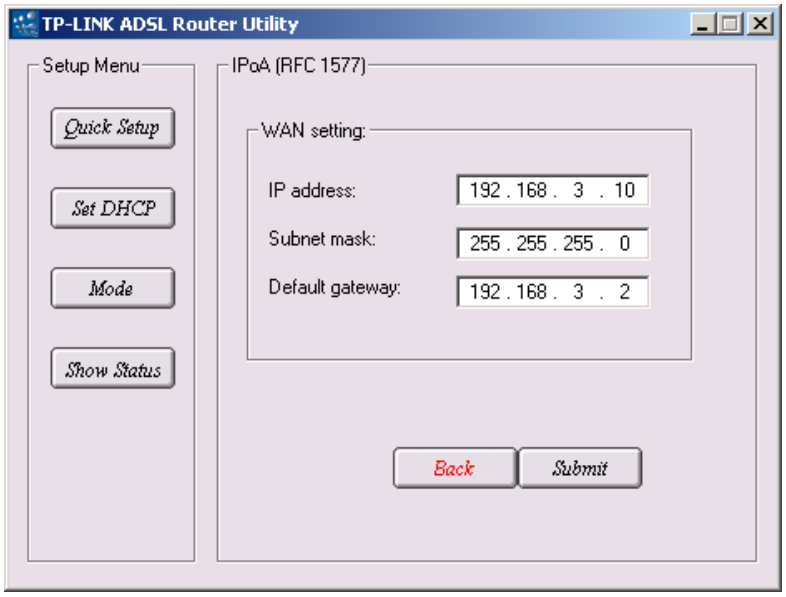

Figure 3-12

4. Press **Submit**. If you succeed, the SUBMIT SUCCESS screen will appear (See Figure 3-8). Press **OK** to finish the configuration.

3.3.4 PPPoA (RFC 2364)

1. Choose **PPPoA (RFC 2364)** in Figure 3-5, press **Next**.
2. Enter the **VPI/VCI** value, choose the **Capsulation type**, press **Next**.

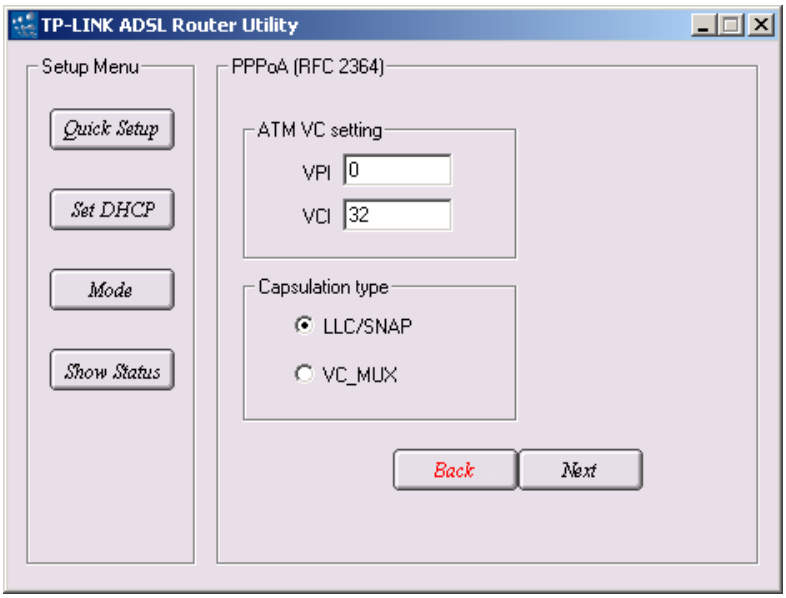

Figure 3-13

3. As Figure 3-14, enter the **Username**, **password** and **Encrypt protocol** provided by your ISP. Press **Submit**.

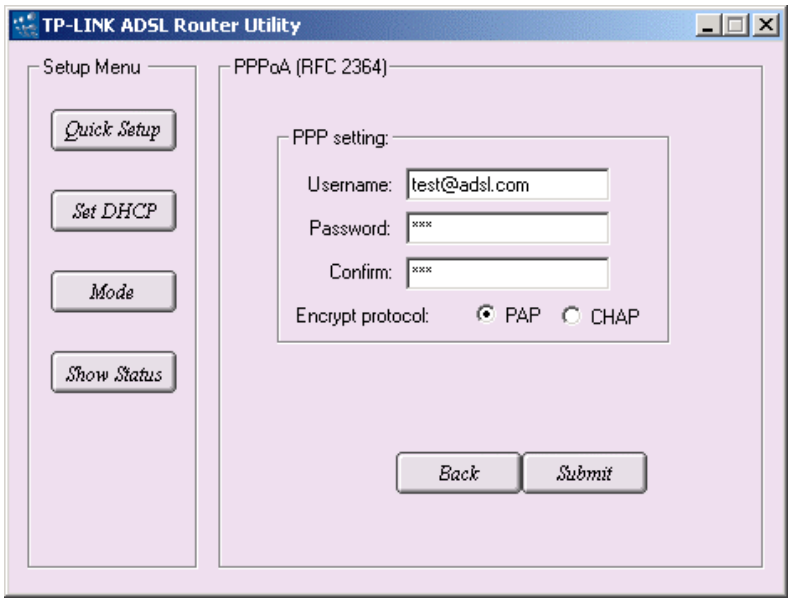

Figure 3-14

4. If you succeed, the SUBMIT SUCCESS screen will appear (See Figure 3-8). Press **OK** to finish the configuration.

Note: You don't need the Dial software when you use PPPoA protocol. The router can automatically dial for connection. You can back to **Show Status** screen to check whether the connection is successful.

3.3.5 PPPoE (RFC 2516)

1. Choose **PPPoE (RFC 2516)** in Figure 3-5, press **Next**.
2. Enter the **VPI/VCI** value, choose the **Capsulation type**, press **Next**.

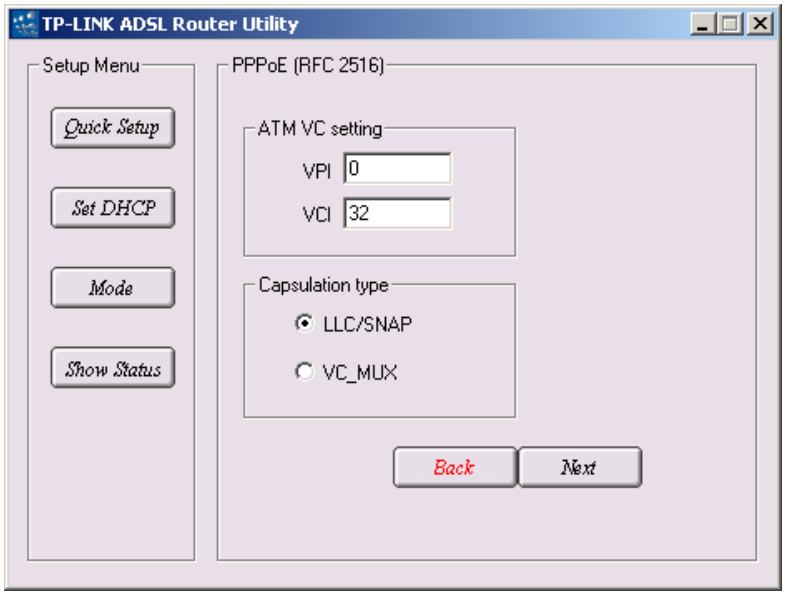

Figure 3-15

3. As Figure 3-16, enter the **Username**, **password** and **Encrypt protocol** provided by your ISP. Press **Submit**.

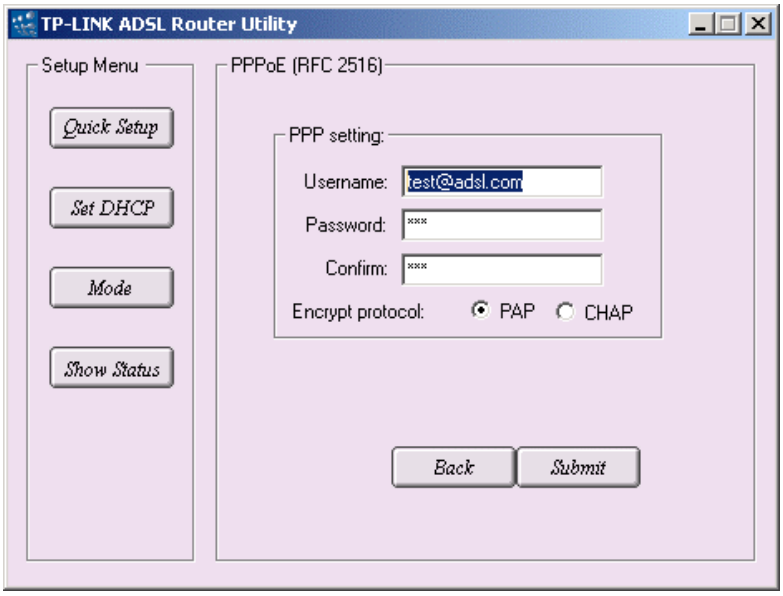

Figure 3-16

4. If you succeed, the SUBMIT SUCCESS screen will appear (See Figure 3-8). Press **OK** to finish the configuration.

Note: You don't need the Dial software when you use PPPoE protocol. The router can automatically dial for connection. You can back to **Show Status** screen to check whether the connection is successful.

3.4 DHCP Config

If you need to revise the default parameters of DHCP server, you can choose DHCP Config to enter the screen like Figure 3-17.

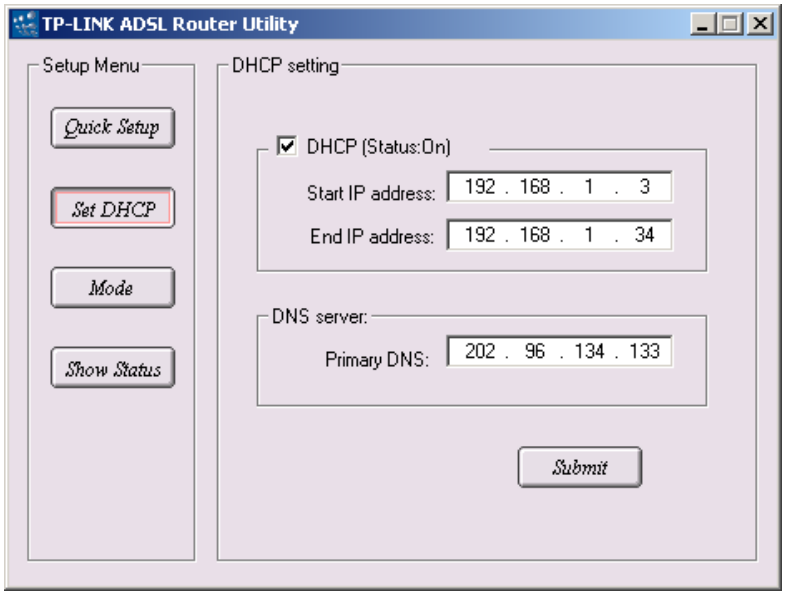

Figure 3-17

You can open or close the DHCP server function through choosing the DHCP check box, and revise the DHCP address segment through configing the Start and End IP address, and config the default address of the DNS server.

3.5 Modulate Mode

Choose **Mode** in the function menu. Choose the modulate mode you use in the screen like Figure 3-18, and then press **Submit**. Usually, you don't need to revise.

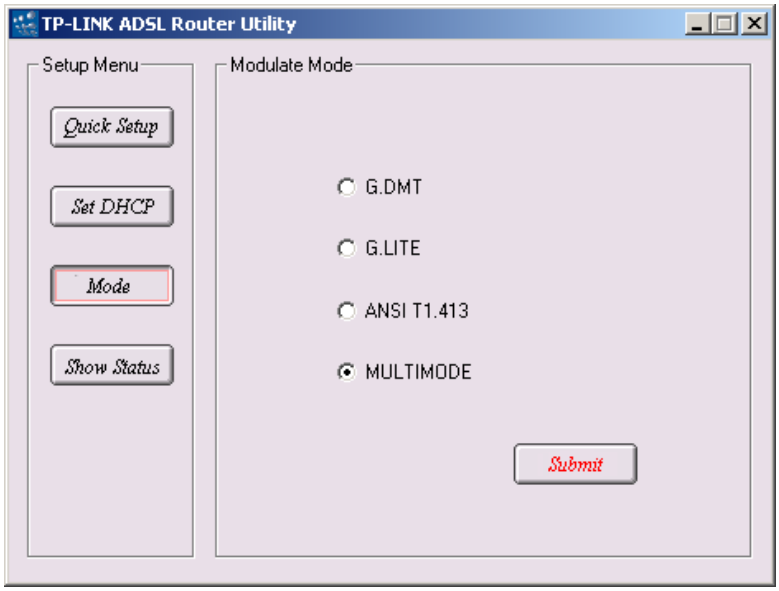

Figure 3-18

3.6 Current Status

Choose **Show Status** in the function menu. Press **Refresh** to check the current status. The content will be different according to different protocol. If you choose PPPoE or PPPoA connection protocol, the PPP Connection situation screen will appear. If your Ethernet ADSL Router has been linking to the Telecom, it will list a **Disconnect** button on the left. Pressing this button can break the connection.

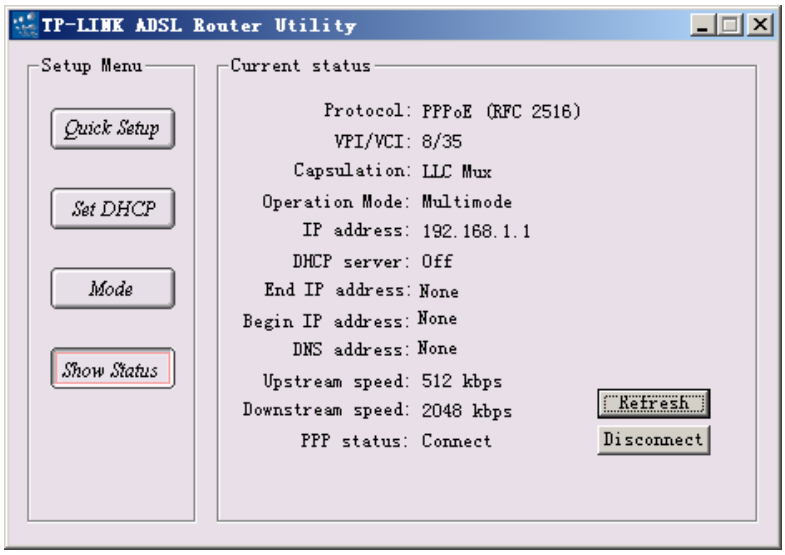

Figure 3-19

If not, it will list a **Connect** button. Press the button to connect the Internet, and the connection needs some time, wait for a while before pressing **Refresh**. If you cannot make it all the same, check your PPP configuration and try again.