DG-BG1000

ADSL2+ Ethernet Broadband Router

User Manual

V1.1

2012-12-12

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1 Introduction

Thank you for purchasing DG-BG1000 ADSL2+ Ethernet Broadand Router! The DG-BG1000 is an ADSL router that supports multiple line modes. It provides one 10/100Base-T Ethernet interface at the user end. The device provides high-speed ADSL broadband connection to the Internet or Intranet users, such as cyber café and office. The device provides high performance access to the Internet with downlink speed of up to 24 Mbps and uplink up to 1 Mbps.

1.1 Packing List

- 1 x DG-BG1000
- 1 x external pots splitter
- 1 x power adapter (5V DC, 1A)
- 2 x telephone cables (RJ11)
- 1 x Ethernet cable (RJ45)
- 1 x Installation Guide CD
- 1 x Quick Installation Guide

1.2 Safety Precautions

Follow the following instructions to prevent the device from risks and damage caused by fire or electric power:

- Use volume labels to mark the type of power.
- Use the power adapter packed within the device package.
- Pay attention to the power load of the outlet or prolonged lines. An overburden power outlet or damaged lines and plugs may cause electric shock or fire accident. Check the power cords regularly. If you find any damage, replace it at once.

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- Proper space left for heat dissipation is necessary to avoid damage caused by overheating to the device. The long and thin holes on the device are designed for heat dissipation to ensure that the device works normally. Do not cover these heat dissipation holes.
- Do not put this device close to a place where a heat source exists or high temperature occurs. Avoid the device from direct sunshine.
- Do not put this device close to a place where it is over damp or watery. Do not spill any fluid on this device.
- Do not connect this device to any PCs or electronic products, unless our customer engineer or your broadband provider instructs you to do this, because any wrong connection may cause power or fire risk.
- Do not place this device on an unstable surface or support.

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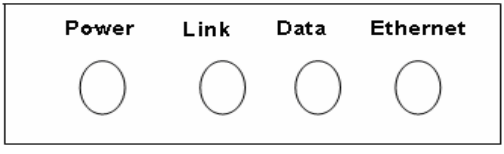
1.3 LEDs and Interfaces

Front Panel

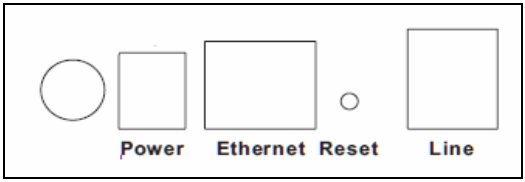


The following table describes the LEDs of the device:

LEDs	Color	Status	Description
Power	Green	On	The device is powered on or the initiation of the device is successful.
		Off	The device is powered off.
	Red	On	The device is self-testing, the self-test has failed or the software is upgrading.
Link	Green	On	The device has established a connection with the physical layer of the office end.
		Slow Blinks	No signal is being detected.
		Fast Blinks	The device is handshaking with the physical layer of the office end.
Data	Green	On	The device has a successful WAN connection (PPP dial-up is successful) in the routing mode and no data is being transmitted on the Internet.
		Blinks	Data is being transmitted on the Internet in the routing mode.
		Off	The device is in the bridged mode.
	Red	On	In the routing mode, after the successful synchronization, the WAN connection has failed (PPP dial-up is failed).

LEDs	Color	Status	Description
Ethernet	Green	On	The LAN connection is normal and activated.
		Blinks	Data is being transmitted on the LAN or data is being transmitted on the Internet in the bridged mode.
		Off	The LAN connection of the device has failed.

Rear Panel



The following table describes the interfaces of the device:

Items	Description
(Power switch)	Power on or power off the device.
Power	Power interface, for connecting to the power adapter.
Ethernet	RJ-45 interface, for connecting to the Ethernet interface of PC or other Ethernet devices through the Ethernet cable.
Reset	Reset to the factory defaults. To reset to the factory defaults, keep the device powered on and push a paper clip in to the hole for over 5 seconds. Then release it, the configuration is reset to the factory defaults.
Line	RJ-11 interface, for connecting to the ADSL interface or a splitter through the telephone cable.

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1.4 System Requirements

Recommended system requirements are as follows:

- A 10/100 base-T Ethernet card, installed on your PC
- Operating system: Win 98SE / 2000 / ME / XP
- Internet Explorer V6.0 or higher, Netscape V4.0 or higher, or Firefox 1.5 or higher

1.5 Features

The device supports the following features:

- External PPPoE dial-up access
- Internal PPPoE/PPPoA dial-up access
- 1483 Briged/1483 Routed/MER access
- Multiple PVCs (up to eight) and these PVCs can be isolated from each other
- A single PVC with multiple sessions
- Multiple PVCs with multiple sessions
- 802.1q and 802.1p protocol
- DHCP server
- NAT & NAPT
- Static routing
- Firmware upgrading through Web, TFTP, or FTP
- Resetting to the factory defaults through Reset button or Web
- DNS
- Virtual server
- DMZ
- Two-level passwords and usernames
- Web interface
- Telnet CLI
- System status display
- PPP session PAP/CHAP
- IP filter

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- IP quality of service (QoS)
- Remote access control
- Line connection status test
- Remote managing through Telnet or HTTP
- Backup and restoration of configuration file
- Ethernet interface supporting crossover detection, auto-correction, and polarity correction
- Universal plug and play (UPnP)

2 Hardware / Software Installation

2.1 Hardware Installation:

Step 1 Connect the **Line** interface of the device and the **Modem** interface of the splitter through a telephone cable. Connect the phone to the **Phone** interface of the splitter through a cable. Connect the incoming line to the **Line** interface of the splitter.

The splitter has three interfaces:

- **Line**: Connect to a wall phone jack (RJ-11 jack).
- **Modem**: Connect to the ADSL jack of the device.
- **Phone**: Connect to a telephone set.

Step 2 Connect the **Ethernet** interface of the device to the network card of the PC through an Ethernet cable (MDI/MDIX).

Note:
Use twisted-pair cables to connect with the hub or switch.

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Step 3 Plug one end of the power adapter to the wall outlet and connect the other end to the **Power** interface of the device.

Connection 1

Figure 1 shows the application diagram for the connection of the router, PC, splitter and the telephone sets, when no telephone set is placed before the splitter.

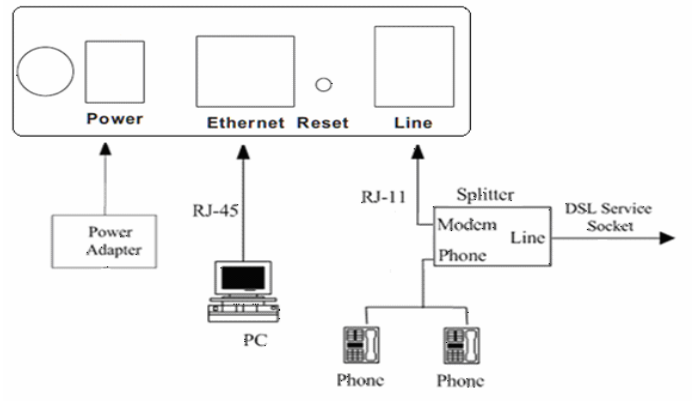

Figure 1 Connection diagram (Without connecting telephone sets before the splitter)

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Connection 2

Figure 2 shows the connection when the splitter is installed close to the router.

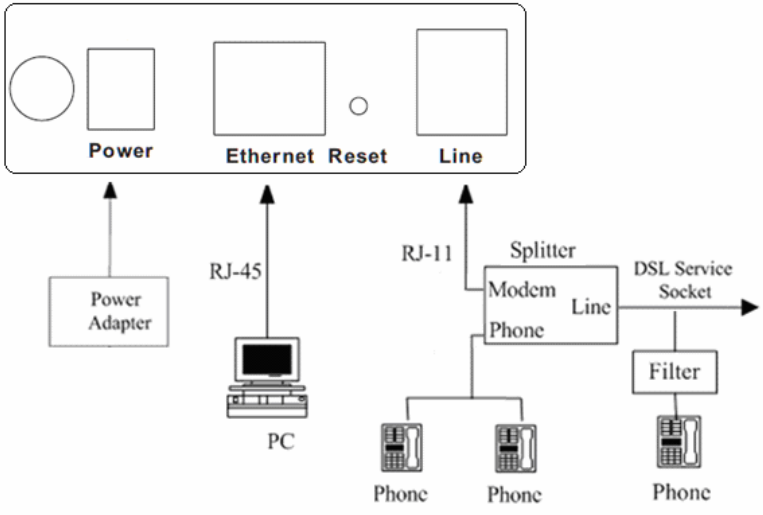

Figure 2 Connection diagram (Connecting a telephone set before the splitter)

Note:

When connection 2 is used, the filter must be installed close to the telephone cable. See Figure2. Do not use the splitter to replace the filter.

Installing a telephone directly before the splitter may lead to failure of connection between the device and the central office, or failure of Internet access, or slow connection speed. If you really need to add a telephone set before the splitter, you must add a microfilter before a telephone set. Do not connect several telephones before the splitter or connect several telephones with the microfilter.

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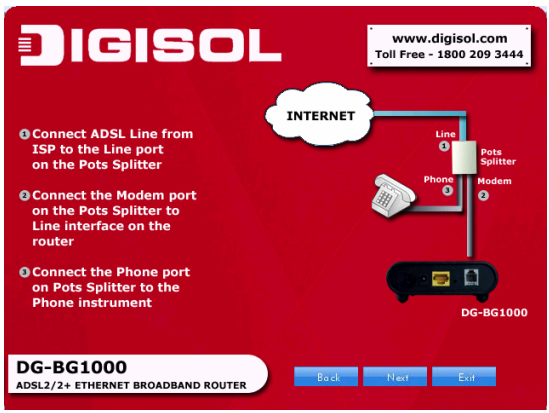
2.2 Software Installation:

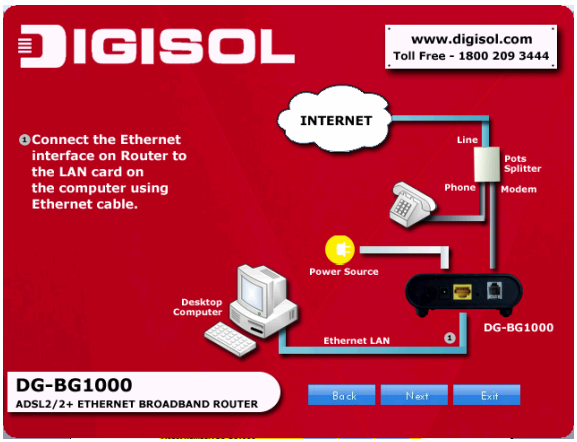
1. Insert the supplied software installation CD in the CD-ROM of your computer. The following screen will appear. Click **'User manual'** to get configuration guide in detail and click **'QIG'** to view Quick Installation Guide. Click **'Start'** to begin with the routers configuration.

2. Click **'Next',** to continue with the installation.



3. Click **'Next'**, to continue with the installation.

4. Click **'Next'**, to continue with the installation.



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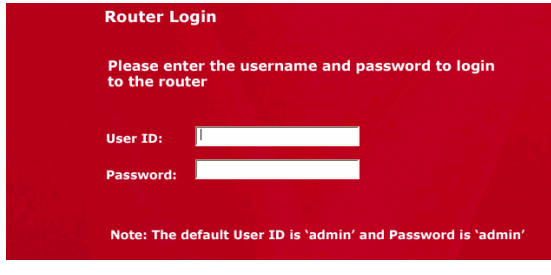
5. The following screen displays the LED status of the router. Click **'Next'**, to continue with the installation.

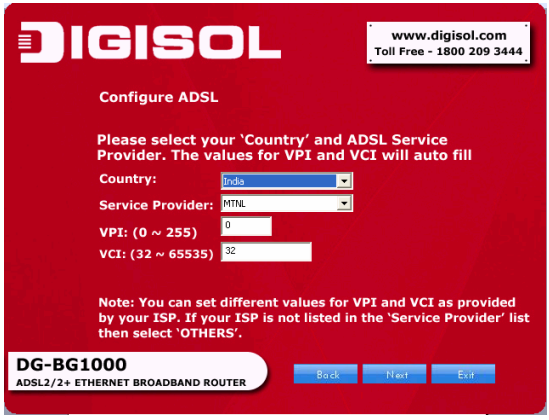
6. In this page, enter the user ID and password to log in to the router. The default user ID and password are **'admin'** and **'admin'** respectively. Click **'Next'** to continue with the installtion.



7. Configure the ADSL setting for the router in the following screen. Select the country and service provider from the drop-down list. You can change the default VPI/VCI values as instructed by your ISP.

- **VPI**: The valid value is in the range of 0 to 255.
- **VCI**: The valid value is in the range of 32 to 65535.

Click **'Next'** to continue with the installation.



8. In the following screen, select the WAN protocol. Click **'Next'**, to proceed with the installation.

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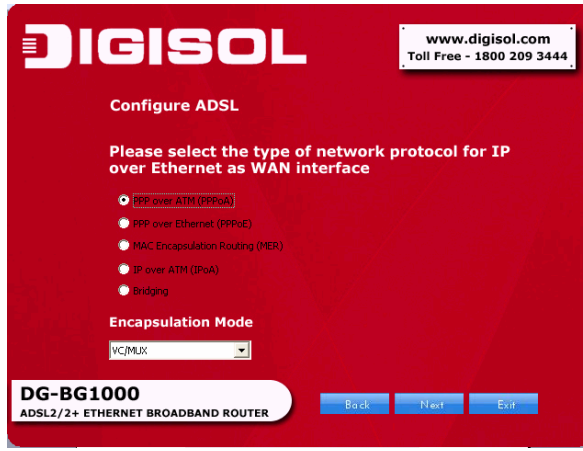
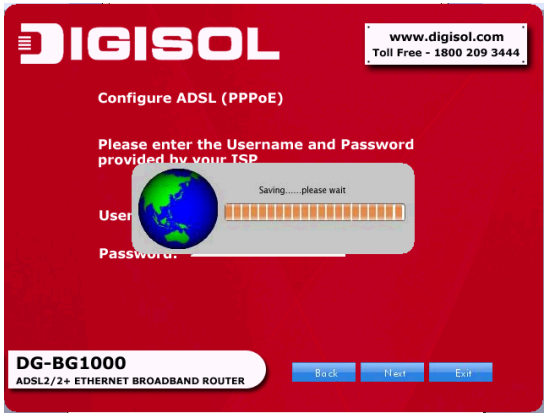


If you select **PPPoE** or **PPPoA** as the network protocol, then the following page appears.

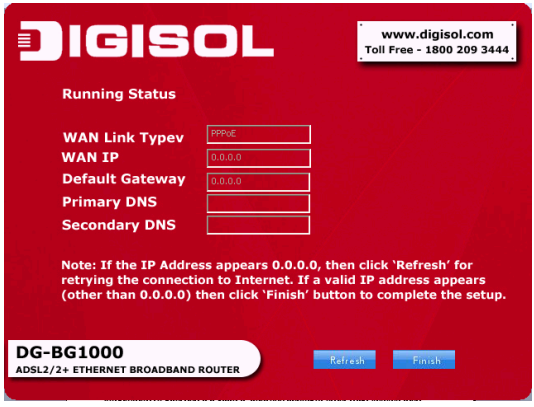
In this page, enter the correct user ID and password that is provided by your ISP.

Click **'Next'**, to proceed with the installation.



- Saving configuration

Then the following page appears. In this page, you can view the running status.



- Running status

Note: If the IP address appears 0.0.0.0, then click 'Refresh' for retrying the connection to Internet. If a valid IP address appears, other than 0.0.0.0, then click 'Finish' to complete the configuration.

Congrulations! The router configuration is now finished.

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3 About the Web Configuration

This chapter describes how to configure the router by using the Web-based configuration utility.

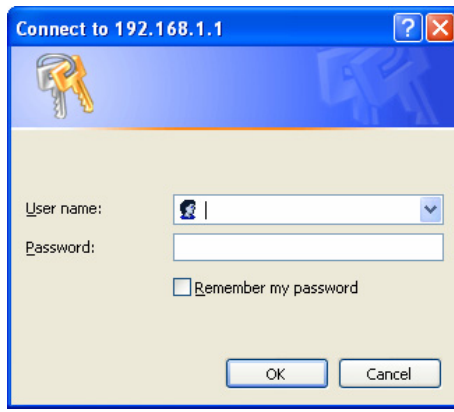
3.1 Access the Router

The following is the detailed description of accessing the router for the first time.

Step 1 Open the Internet Explorer (IE) browser and enter **http://192.168.1.1**.

Step 2 In the **Login** page that is displayed, enter the username and password.

- The username and password of the super user are **admin** and **admin**.
- The username and password of the common user are **user** and **user**.



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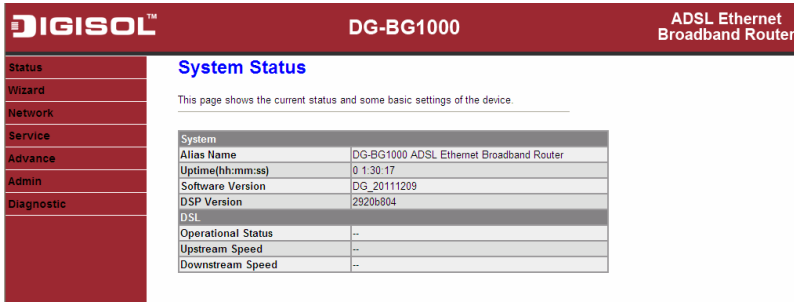
If you log in as a super user, the page shown in the following figure appears. You can check, configure and modify all the settings.



If you log in as a common user, you can check the status of the router, but can not configure the most of the settings.

3.2 Wizard

The **Wizard** page guides fast and accurate configuration of the Internet connection and other important parameters. The following sections describe these various configuration parameters. Whether you configure these parameters or use the default ones, click **NEXT** to enable your Internet connection.

When subscribing to a broadband service, you should be aware of the method by which you are connected to the Internet. Your physical WAN device can be either PPP, ADSL, or both. The technical information about the properties of your Internet connection is provided by your Internet service provider (ISP). For example, your ISP should inform you whether you are connected to the Internet using a static or dynamic IP address, and the protocol that you use to communicate on the Internet.

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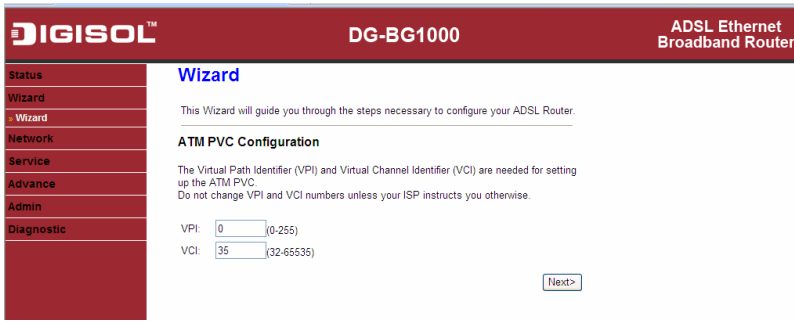
In the navigation bar, click **Wizard**. The page as shown in the following figure appears.



The following table describes the parameters in this page:

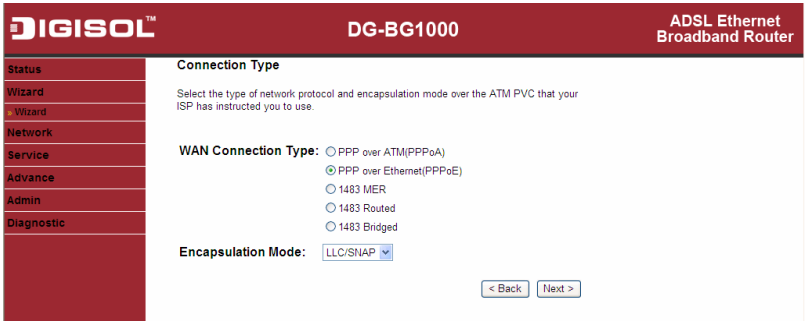
Parameter	Description
VPI	Virtual path identifier (VPI) is the virtual path between two points in an ATM network. Its valid value is in the range of 0 to 255. Enter the correct VPI provided by your ISP. By default, VPI is set to **0**.
VCI	Virtual channel identifier (VCI) is the virtual channel between two points in an ATM network. Its valid value is in the range of 32 to 65535. (0 to 31 is reserved for local management of ATM traffic) Enter the correct VCI provided by your ISP. By default, VCI is set to **35**.

After setting, click **Next**, the page as shown in the following figure appears.

There are five WAN connection types: **PPP over ATM (PPPoA)**, **PPP over Ethernet (PPPoE)**, **1483 MER**, **1483 Routed**, and **1483 Bridged**. The following describes them respectively.

PPPoE/PPPoA

In the **Connection Type** page, set the WAN connection type to **PPP over Ethernet (PPPoE)**, the encapsulation mode to **LLC/SNAP**.



The following table describes the parameters in this page:

Parameter	Description
WAN Connection Type	There are five WAN connection types: **PPP over ATM (PPPoA)**, **PPP over Ethernet (PPPoE)**, **1483 MER**, **1483 Routed**, and **1483 Bridged**. In this example, the connection type is set to **PPPoE**.
Encapsulation Mode	You can select **LLC/SNAP** or **VC-Mux**. In this example, the encapsulation mode is set to **LLC/SNAP**.

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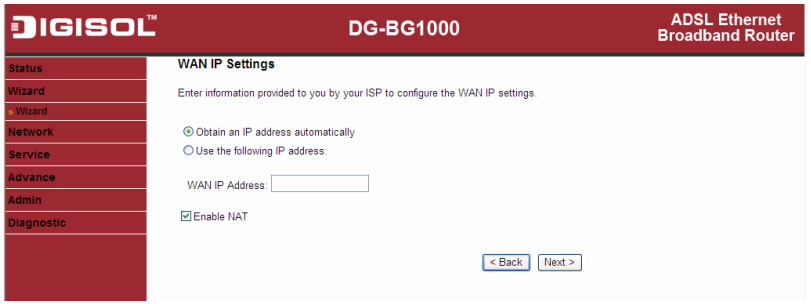
After setting, click **Next**, the page as shown in the following figure appears.



The following table describes the parameters in this page:

Parameter	Description
Obtain an IP address automatically	Select it, the DHCP assigns the IP address for PPPoE connection.
Use the following IP address	Select it, you need to enter the IP address for PPPoE connection, which is provided by your ISP.
Enable NAT	Select the checkbox to enable network address translation (NAT). If you do not select it and you want to access the Internet normally, you must add a route on the uplink equipment. Otherwise, the access to the Internet fails. Normally, it is required to enable NAT.

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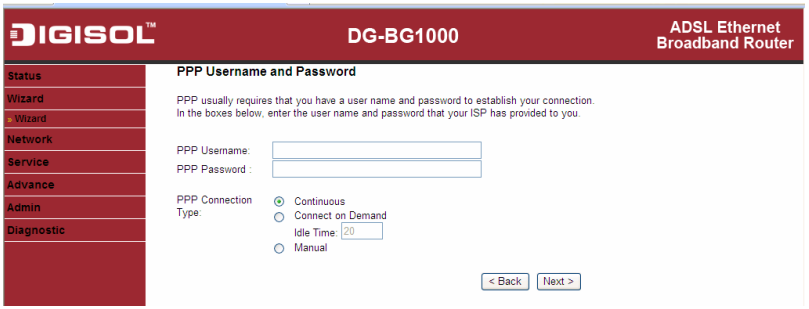
After setting, click **Next**, the page as shown in the following figure appears.



The following table describes the parameters in this page:

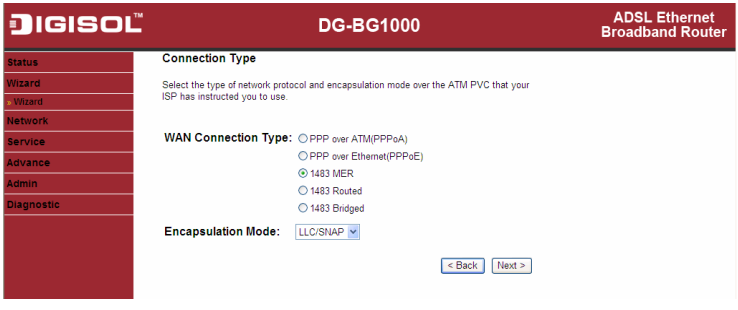
Parameter	Description
PPP Username	Enter the username for PPPoE dial-up, which is provided by your ISP.
PPP Password	Enter the password for PPPoE dial-up, which is provided by your ISP.
PPP Connection Type	You can select **Continuous**, **Connect on Demand**, or **Manual**. ● **Continuous:** After dial-up is successful, PPPoE connection is always on-line, no matter whether the data is being transmitted or not. It is recommended to select it. ● **Connect on Demand:** After dial-up is successful, within the preset idle time, no data is being transmitted; the router automatically disconnects the PPPoE connection. In this case, you need to enter the idle time. ● **Manual:** Select it, you need to dial up and disconnect the connection mannually.

Note:

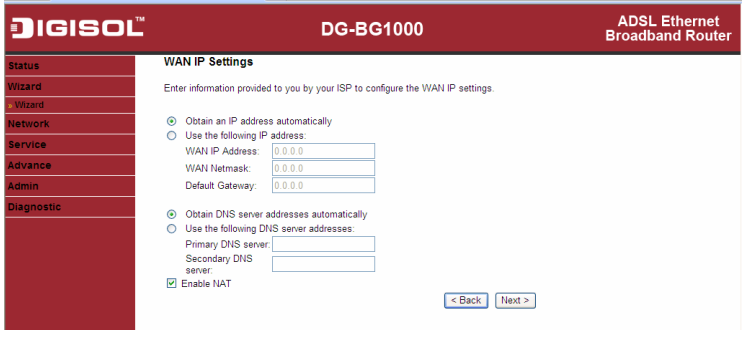
If the WAN connection type is set to **PPPoA**, the parameters of the WAN connection type are the same as that of **PPPoE**. For the parameters in these pages, refer to the parameter description of **PPPoE**.

1483 MER/1483 Routed

In the **Connection Type** page, set the WAN connection type to **1483 MER**, the encapsulation mode to **LLC/SNAP**.



After setting, click **Next**, the page as shown in the following figure appears.



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The following table describes the parameters in this page:

Parameter	Description
Obtain an IP address automatically	Select it, DHCP automatically assigns the IP address for WAN connection.
Use the following IP address	Select it, you need to manually enter the IP address, subnet mask, and default gateway for WAN connection, which are provided by your ISP.
Obtain DNS server addresses automatically	Select it, DHCP automatically assigns DNS server address.
Use the following DNS server addresses	Select it, you need to manually enter the primary DNS server address and secondary DNS server address.
Enable NAT	Select it to enable network address translation (NAT). If you do not select it and you want to access the Internet normally, you must add a route on the uplink equipment. Otherwise, the access to the Internet fails. Normally, it is required to enable NAT.

Note:

If the WAN connection type is set to **1483 Routed**, the parameters of the WAN connection type are the same as that of **1483 MER**. For the parameters in these pages, refer to the parameter description of **1483 MER**.

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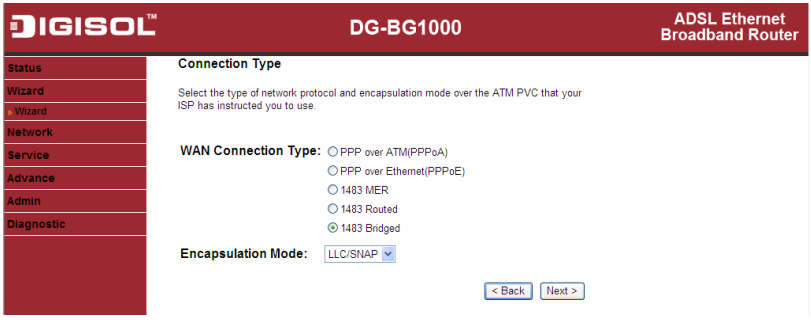
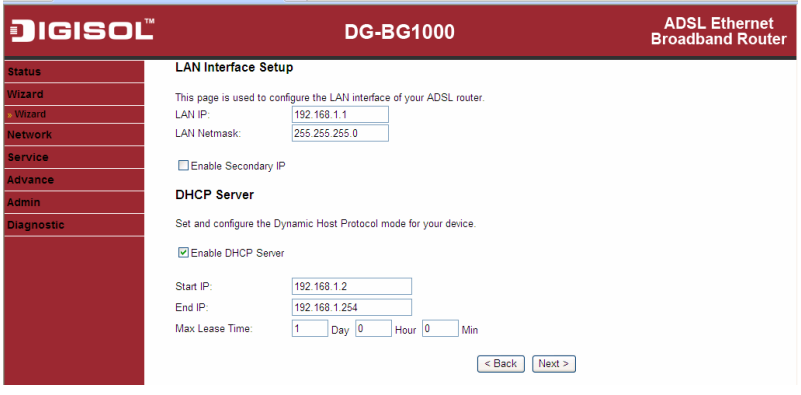
1483 Bridged

In the **Connection Type** page, set the WAN connection type to **1483 Bridged**, the encapsulation mode to **LLC/SNAP**.



After setting, click **Next**, the page as shown in the following figure appears.



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The following table describes the parameters in this page:

Parameter	Description
LAN Interface Setup	
LAN IP	Enter the IP address of LAN interface. Its valid value is in the range of 192.168.1.1 to 192.168.1.254. The default IP address is **192.168.1.1**.
LAN Netmask	Enter the subnet mask of LAN interface. Its valid value is in the range of 255.255.255.0 to 255.255.255.254.
Enable Secondary IP	Select the checkbox to enable the secondary LAN IP. The two LAN IP addresses must be in the different network.
DHCP Server	
Enable DHCP Server	Select the checkbox to enable DHCP server.
Start IP	Enter the start IP address that the DHCP sever assigns.
End IP	Enter the end IP address that the DHCP server assigns.
Max Lease Time	The lease time determines the period that the PCs retain the assigned IP addresses before the IP addresses change.

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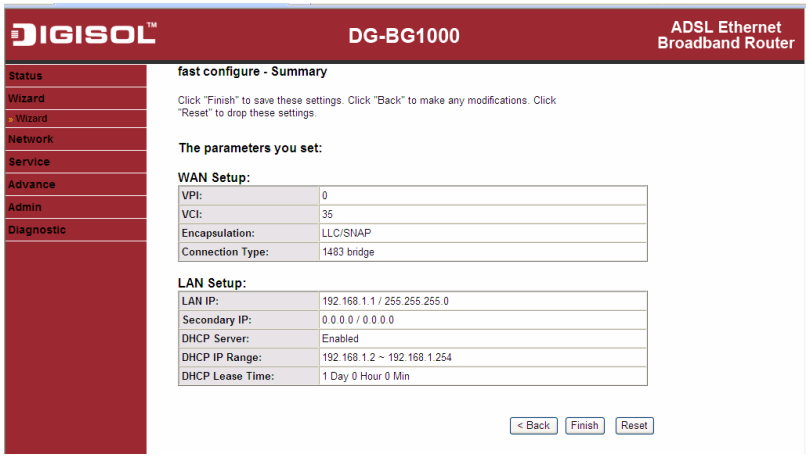
After setting, click **Next**, the page as shown in the following figure appears.



Click **Back** to modify the settings.
Click **Finish** to save the settings.
Click **Reset** to cancel the settings.

Note:

After you save the settings in the **Wizard** page, the PVC in the **Wizard** page replaces that in the **Channel Configuration** page. The preset PVCs in the **Channel Configuration** page do not take effect any more.

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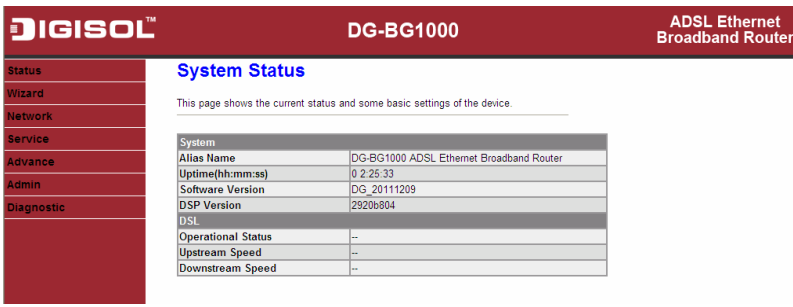
3.3 Status

In the navigation bar, click **Status**. In the **Status** page that is displayed contains **System**, **LAN**, **WAN**, **Statistics** and **ARP Table**.

3.3.1 System

Choose **Status** > **System**. The page that is displayed shows the current status and some basic settings of the router, such as, uptime, software version, upstream speed, downstream speed, and other informations.



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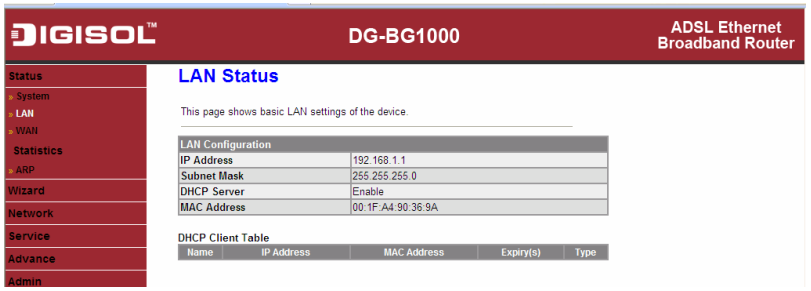
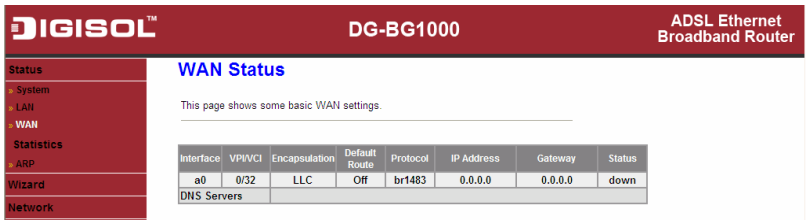
3.3.2 LAN

Choose **Status** > **LAN**. The page that is displayed shows some basic LAN settings of the router. In the **LAN Status** page, you can view the LAN IP address, DHCP server status, MAC address and DHCP client table. If you want to configure the LAN network, refer to the chapter 3.4.1 LAN.



3.3.3 WAN

Choose **Status** > **WAN**. The page that is displayed shows some basic WAN settings of the router. In the **WAN Status** page, you can view basic status of WAN, default gateway, DNS server. If you want to configure the WAN network, refer to the chapter 3.4.2 WAN.



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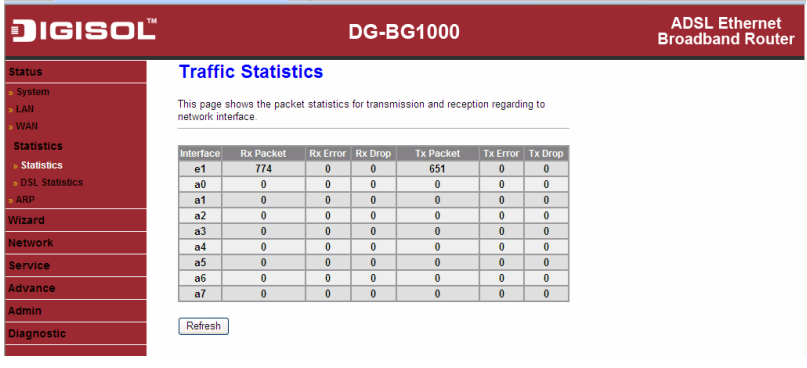
3.3.4 Statistics

Choose **Status** > **Statistics**. The **Statistics** page that is displayed contains **Traffic Statistic** and **ADSL Statistic**.

3.3.4.1 Traffic Statistic

Click **Traffic Statistic** in the left pane, the page shown in the following figure appears. In this page, you can view the statistics of each network interface.



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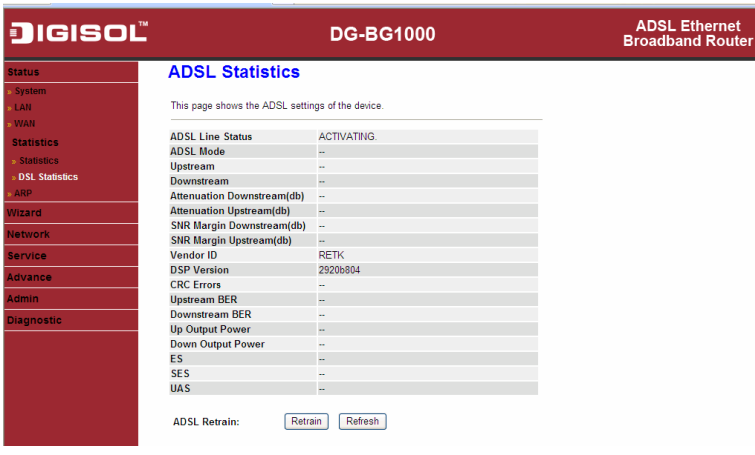
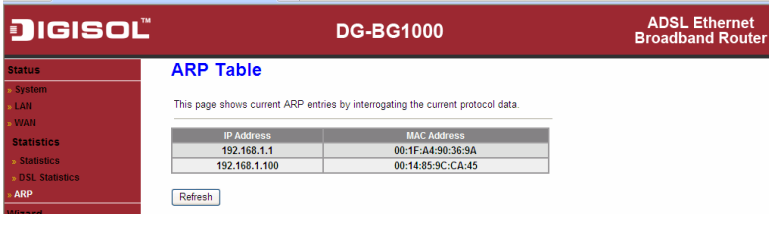
3.3.4.2 ADSL Statistic

Click **ADSL Statistic** in the left pane, the page shown in the following figure appears. In this page, you can view the ADSL line statistics, downstream rate, upstream rate and other information.



3.3.5 ARP Table

Choose **Status** > **ARP Table**. In the **ARP table** page, you can view the table that shows a list of learned MAC addresses.



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3.4 Network

In the navigation bar, click **Network**. The **Network** page that is displayed contains **LAN** and **WAN**.

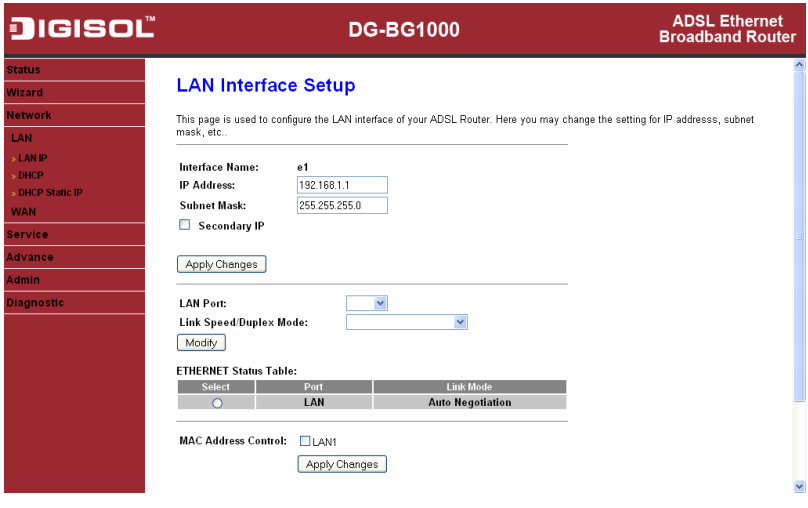
3.4.1 LAN

Choose **Network** > **LAN**. The **LAN** page that is displayed contains **LAN IP**, **DHCP**, and **DHCP Static IP**.

3.4.1.1 LAN IP

Click **LAN IP** in the left pane, the page shown in the following figure appears.

In this page, you can change IP address of the router. The default IP address is 192.168.1.1, which is the private IP address of the router.



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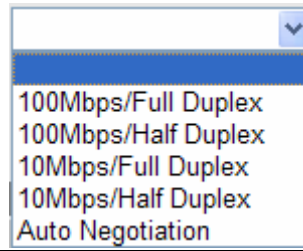
The following table describes the parameters of this page:

Parameter	Description
IP Address	Enter the IP address of LAN interface. It is recommended to use an address from a block that is reserved for private use. This address block is 192.168.1.1- 192.168.1.254.
Subnet Mask	Enter the subnet mask of LAN interface. The range of subnet mask is from 255.255.255.0-255.255.255.254.
Secondary IP	Select it to enable the secondary LAN IP address. The two LAN IP addresses must be in different network.
LAN Port	You can choose the LAN interface you want to configure.
Link Speed/Duplex Mode	You can select the following modes from the drop-down list: 
MAC Address Control	It is the access control based on MAC address. Select it and the host whose MAC address is listed in the **Current Allowed MAC Address Table** can access the modem.
Add	Enter MAC address, and then click it to add a new MAC address.

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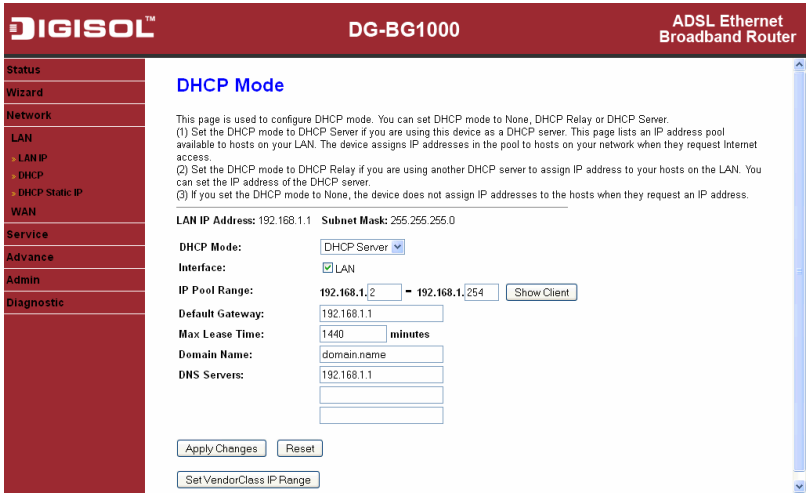
3.4.1.2 DHCP

Dynamic Host Configuration Protocol (DHCP) allows the individual PC to obtain the TCP/IP configuration from the centralized DHCP server. You can configure this router as a DHCP server or disable it. The DHCP server can assign IP address, IP default gateway, and DNS server to DHCP clients. This router can also act as a surrogate DHCP server (DHCP proxy) where it relays IP address assignment from an actual real DHCP server to clients. You can enable or disable DHCP server or DHCP proxy.

Click **DHCP** in the left pane, the page shown in the following figure appears.



The following table describes the parameters of this page:

Parameter	Description
DHCP Mode	If set to **DHCP Server**, the router can assign IP addresses, IP default gateway and DNS Servers to the host in Windows95, Windows NT and other operation systems that support the DHCP client.
IP Pool Range	It specifies the first and the last IP address in the IP address pool. The router assigns IP address that is in the IP pool range to the host.
Show Client	Click it, the **Active DHCP Client Table** appears. It shows IP addresses assigned to clients.
Default Gateway	Enter the default gateway of the IP address pool.
Max Lease Time	The lease time determines the period that the host retains the assigned IP address before the IP address is changed.
Domain Name	Enter the domain name if you know. If you leave this blank, the domain name obtained by DHCP from the ISP is used. You must enter host name (system name) on each individual PC. The domain name can be assigned from the router through the DHCP server.
DNS Servers	You can configure the DNS server IP addresses for DNS Relay.
Set VendorClass IP Range	Click it, the **Device IP Range Table** page appears. You can configure the IP address range based on the device type.

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Click **Show Client** in the **DHCP Mode** page, the page shown in the following figure appears. You can view the IP address assigned to each DHCP client.

The following table describes the parameters and buttons in this page:

Parameter	Description
IP Address	It displays the IP address assigned to the DHCP client from the router.
MAC Address	It displays the MAC address of the DHCP client. Each Ethernet device has a unique MAC address. The MAC address is assigned at the factory and it consists of six pairs of hexadecimal character, for example, 00-A0-C5-00-02-12.
Expired (s)	It displays the lease time. The lease time determines the period that the host retains the assigned IP addresses before the IP addresses change.
Refresh	Click it to refresh this page.
Close	Click it to close this page.

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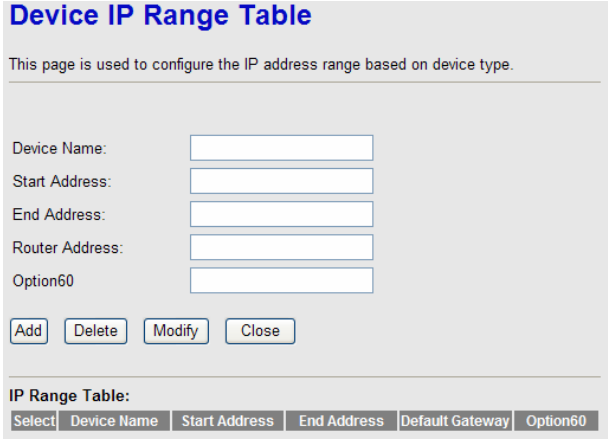
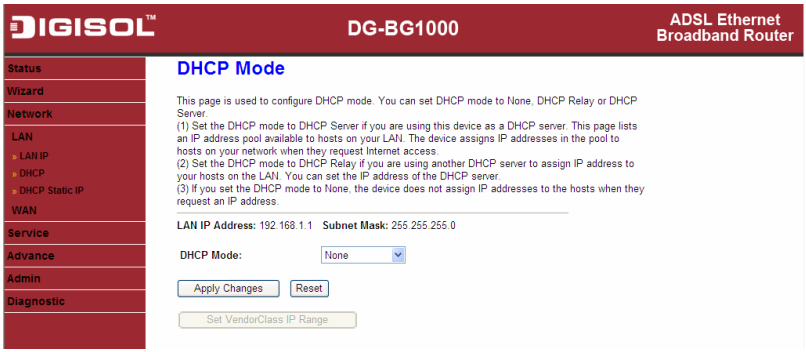
Click **Set VendorClass IP Range** in the **DHCP Mode** page, the page as shown in the following figure appears. In this page, you can configure the IP address range based on the device type.



In the **DHCP Mode** field, choose **None**. The page shown in the following figure appears.



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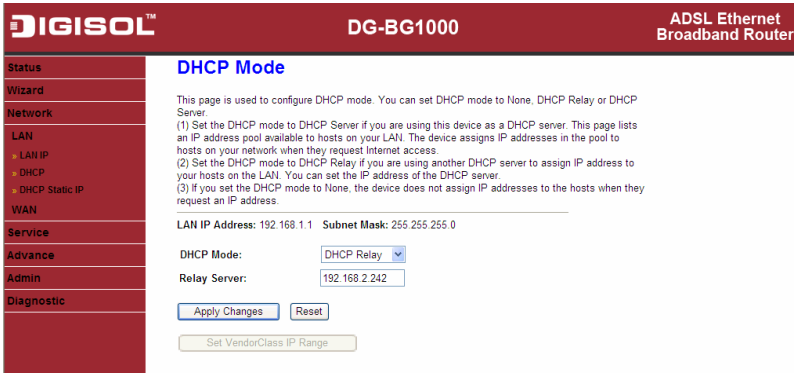
In the **DHCP Mode** field, choose **DHCP Relay**. The page shown in the following figure appears.

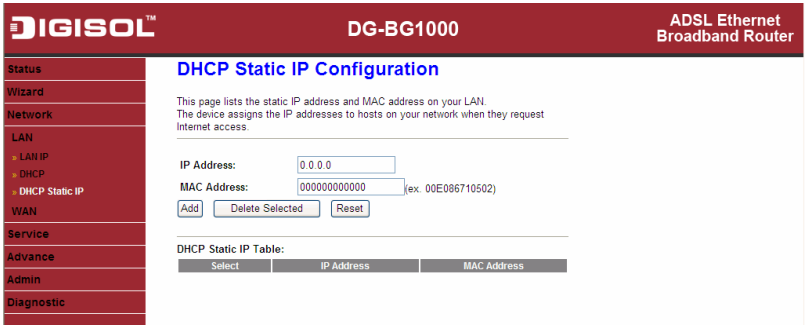


The following table describes the parameters and buttons of this page:

Parameter	Description
DHCP Mode	If set to **DHCP Relay**, the router acts a surrogate DHCP Server and relays the DHCP requests and responses between the remote server and the client.
Relay Server	Enter the DHCP server address.
Apply Changes	Click it to save the settings of this page.
Undo	Click it to refresh this page.

3.4.1.3 DHCP Static IP

Click **DHCP Static IP** in the left pane, the page shown in the following figure appears. You can assign the IP addresses on the LAN to the specific individual PCs based on their MAC address.



The following table describes the parameters and buttons of this page:

Parameter	Description
IP Address	Enter the specified IP address in the IP pool range, which is assigned to the host.
MAC Address	Enter the MAC address of a host on the LAN.
Add	After entering the IP address and MAC address, click it. A row will be added in the **DHCP Static IP Table**.
Delete Selected	Select a row in the **DHCP Static IP Table**, then click it, this row is deleted.
Reset	Click it to refresh this page.
DHCP Static IP Table	It shows the assigned IP address based on the MAC address.

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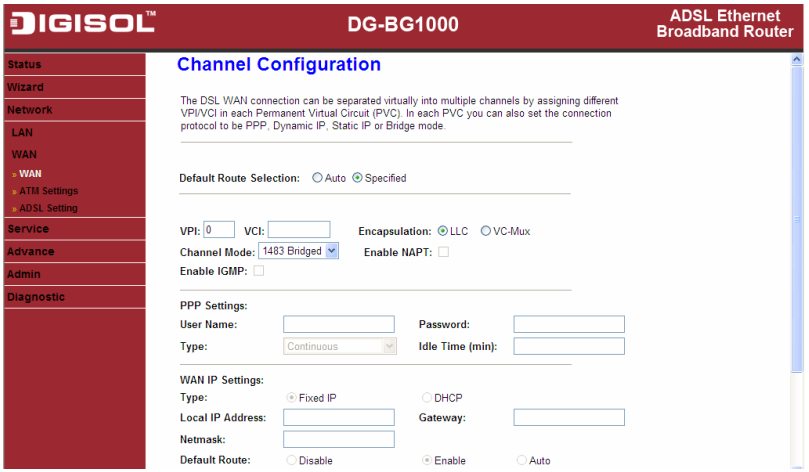
3.4.2 WAN

Choose **Network** > **WAN**. The **WAN** page that is displayed contains **WAN**, **ATM Setting**, and **ADSL Setting**.

3.4.2.1 WAN

Click **WAN** in the left pane, the page shown in the following figure appears.
In this page, you can configure WAN interface of your router.

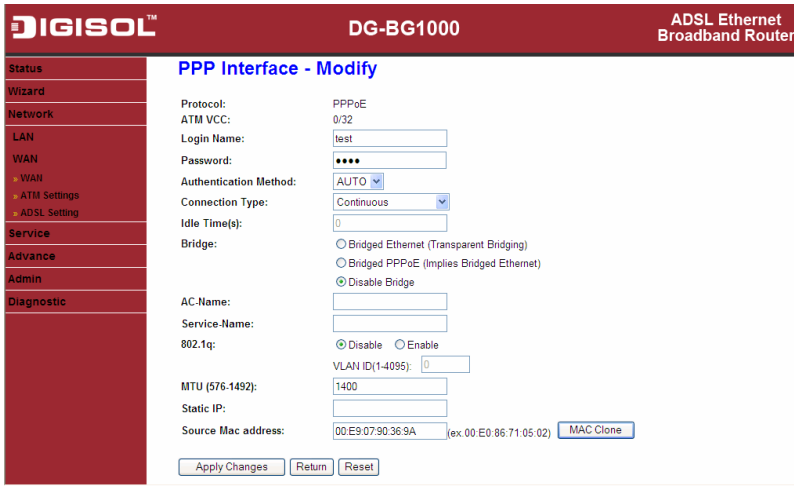


The following table describes the parameters of this page:

Parameter	Description
Default Route Selection	You can select **Auto** or **Specified**.
VPI	The virtual path between two points in an ATM network, ranging from 0 to 255.
VCI	The virtual channel between two points in an ATM network, ranging from 32 to 65535 (1 to 31 are reserved for known protocols)
Encapsulation	You can choose **LLC** and **VC-Mux**.
Channel Mode	You can choose **1483 Bridged**, **1483 MER**, **PPPoE**, **PPPoA**, or **1483 Routed**.
Enable NAPT	Select it to enable Network Address Port Translation (NAPT) function. If you do not select it and you want to access the Internet normally, you must add a route on the uplink equipment. Otherwise, the access to the Internet fails. Normally, it is enabled.
Enable IGMP	You can enable or disable Internet Group Management Protocol (IGMP) function.
PPP Settings	
User Name	Enter the correct user name for PPP dial-up, which is provided by your ISP.
Password	Enter the correct password for PPP dial-up, which is provided by your ISP.
Type	You can choose **Continuous**, **Connect on Demand**, or **Manual**.
Idle Time (min)	If set the type to **Connect on Demand**, you need to enter the idle timeout time. Within the preset minutes, if the router does not detect the flow of the user continuously, the router automatically disconnects the PPPoE connection.

Parameter	Description
WAN IP Settings	
Type	You can choose **Fixed IP** or **DHCP**. ● If select **Fixed IP**, you should enter the local IP address, remote IP address and subnet mask. ● If select **DHCP**, the router is a DHCP client, the WAN IP address is assigned by the remote DHCP server.
Local IP Address	Enter the IP address of WAN interface provided by your ISP.
Gateway	Enter the gateway IP address provided by your ISP.
Netmask	Enter the subnet mask of the local IP address.
Unnumbered	Select this checkbox to enable IP unnumbered function.
Add	After configuring the parameters of this page, click it to add a new PVC into the **Current ATM VC Table**.
Modify	Select a PVC in the **Current ATM VC Table**, then modify the parameters of this PVC. After finishing, click it to apply the settings of this PVC.
Current ATM VC Table	This table shows the existed PVCs. It shows the interface name, channel mode, VPI/VCI, encapsulation mode, local IP address, remote IP address and other information. The maximum item of this table is eight.
	Click it, and the **PPP Interface-Modify** page appears. You can modify the PVCs' parameters.

Click  in the **PPPoE** mode, the page shown in the following figure appears. In this page, you can configure parameters of this PPPoE PVC.



The following table describes the parameters and buttons of this page:

Parameter	Description
Protocol	It displays the protocol type used for this WAN connection.
ATM VCC	The ATM virtual circuit connection assigned for this PPP interface (VPI/VCI).
Login Name	The user name provided by your ISP.
Password	The password provided by your ISP.
Authentication Method	You can choose **AUTO**, **CHAP**, or **PAP**.
Connection Type	You can choose **Continuous**, **Connect on Demand**, or **Manual**.
Idle Time (s)	If choose **Connect on Demand**, you need to enter the idle timeout time. Within the preset minutes, if the router does not detect the flow of the user continuously, the router automatically

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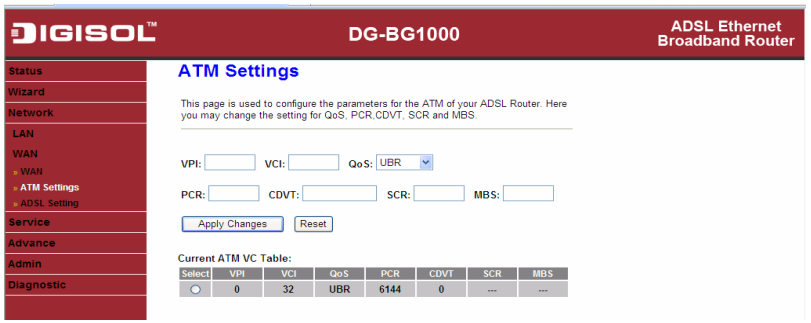
Parameter	Description
	disconnects the PPPoE connection.
Bridge	You can select **Bridged Ethernet**, **Bridged PPPoE**, or **Disable Bridge**.
AC-Name	The accessed equipment type.
Service-Name	The service name.
802.1q	You can select **Disable** or **Enable**. After enable it, you need to enter the VLAN ID. The value ranges from 0 to 4095.
Apply Changes	Click it to save the settings of this page temporarily.
Return	Click it to return to the **Channel Configuration** page.
Source Mac address	The MAC address you want to clone.
Mac Clone	Click it to enable the MAC Clone function with the MAC address that is configured.

3.4.2.2 ATM Setting

Click **ATM Setting** in the left pane, the page shown in the following figure appears. In this page, you can configure the parameters of the ATM, including QoS, PCR, CDVT, SCR, and MBS.



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The following table describes the parameters of this page:

Parameter	Description
VPI	The virtual path identifier of the ATM PVC.
VCI	The virtual channel identifier of the ATM PVC.
QoS	The QoS category of the PVC. You can choose **UBR**, **CBR**, **rt-VBR**, or **nrt-VBR**.
PCR	Peak cell rate (PCR) is the maximum rate at which cells can be transmitted along a connection in the ATM network. Its value ranges from 1 to 65535.
CDVT	Cell delay variation tolerance (CDVT) is the amount of delay permitted between ATM cells (in microseconds). Its value ranges from 0 to 4294967295.
SCR	Subtain cell rate (SCR) is the maximum rate that traffic can pass over a PVC without the risk of cell loss. Its value ranges from 0 to 65535.
MBS	Maximum burst size (MBS) is the maximum number of cells that can be transmitted at the PCR. Its value ranges from 0 to 65535.

3.4.2.3 ADSL Setting

Click **ADSL Setting** in the left pane, the page shown in the following figure appears. In this page, you can select the DSL modulation. The router supports the following modulations: **G.Lite**, **G.Dmt**, **T1.413**, **ADSL2**, **ADSL2+**, **AnnexL**, and **AnnexM**. The router negotiates the modulation modes with the DSLAM.

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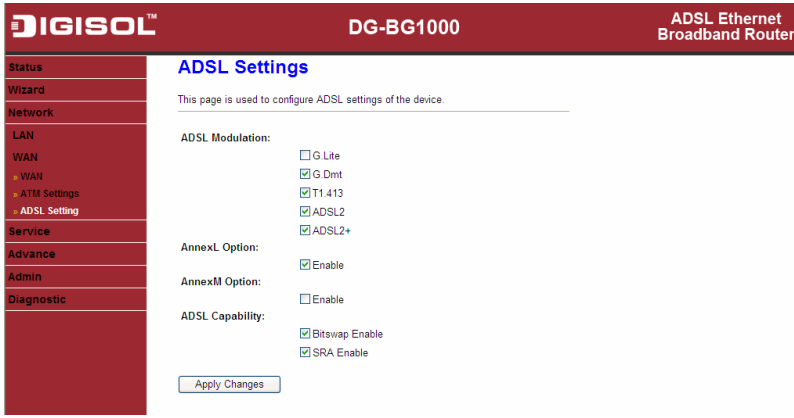


3.5 Service

In the navigation bar, click **Service**. The **Service** page contains **DNS**, **Firewall**, **UPNP**, **IGMP Proxy**, **TR-069**, and **ACL** options.

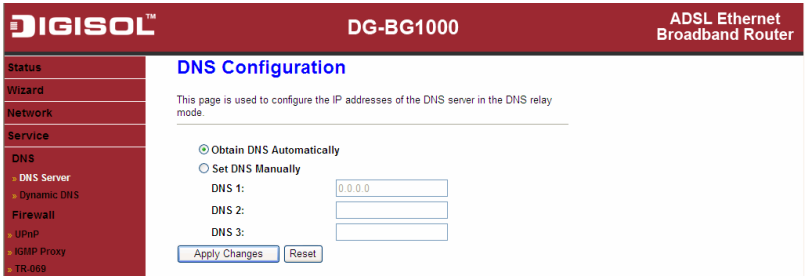
3.5.1 DNS

Domain Name System (DNS) is an Internet service that translates the domain name into IP address. Because the domain name is alphabetic, it is easier to remember. The Internet, however, is based on IP addresses. Every time you use a domain name, DNS translates the name into the corresponding IP address. For example, the domain name www.example.com might be translated to 198.105.232.4. The DNS has its own network. If one DNS server does not know how to translate a particular domain name, it asks another one, and so on, until the correct IP address is returned.

Choose **Service** > **DNS**. The **DNS** page that is displayed contains **DNS** and **DDNS**.

3.5.1.1 DNS

Click **DNS** in the left pane, the page shown in the following figure appears.



The following table describes the parameters and buttons of this page:

Parameter	Description
Obtain DNS Automatically	Select it, the router accepts the first received DNS assignment from one of the PPPoA, PPPoE or MER enabled PVC(s) during the connection establishment.
Set DNS Manually	Select it, and then enter the IP addresses of the primary and secondary DNS server.
Apply Changes	Click it to save the settings of this page.
Reset	Click it to start configuring the parameters in this page.

3.5.1.2 DDNS

Click **DDNS** in the left pane, the page shown in the following figure appears. This page is used to configure the dynamic DNS address from DynDNS.org or TZO. You can add or remove to configure dynamic DNS.

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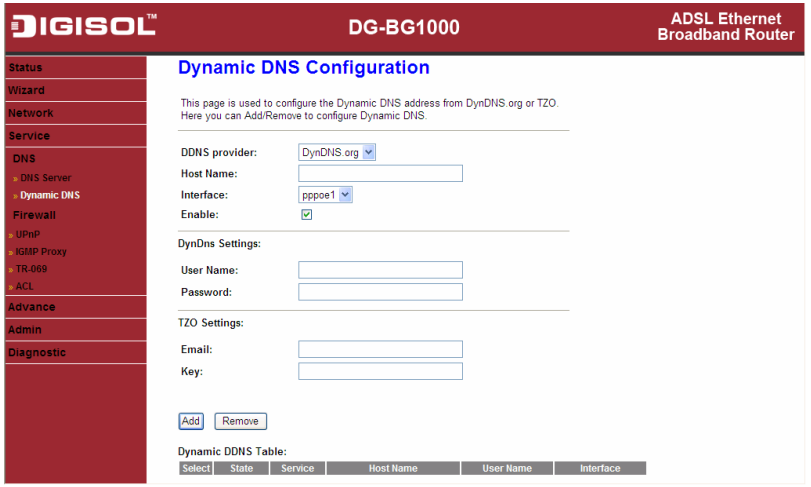

The following table describes the parameters of this page:

Parameter	Description
DDNS provider	Choose the DDNS provider name. You can choose **DynDNS.org** or **TZO**.
Hostname	The DDNS identifier.
Interface	The WAN interface of the router.
Enable	Enable or disable DDNS function.
Username	The name provided by DDNS provider.
Password	The password provided by DDNS provider.
Email	The email provided by DDNS provider.
Key	The key provided by DDNS provider.

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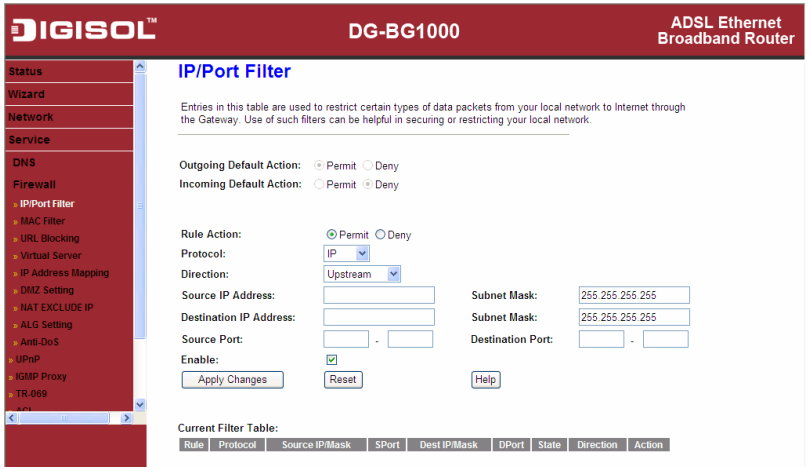
3.5.2 Firewall

Choose **Service > Firewall**. The **Firewall** page that is displayed contains **IP/Port Filter**, **MAC Filter**, **URL Blocking**, **Virtual Server**, **IP Address Mapping**, **DMZ Setting**, **NAT EXCLUDE IP, ALG Setting**, and **Anti-DoS**.

3.5.2.1 IP/Port Filter

Click **IP/Port Filter** in the left pane, the page shown in the following figure appears. Entries in the table are used to restrict certain types of data packets through the gateway. These filters are helpful in securing or restricting your local network.



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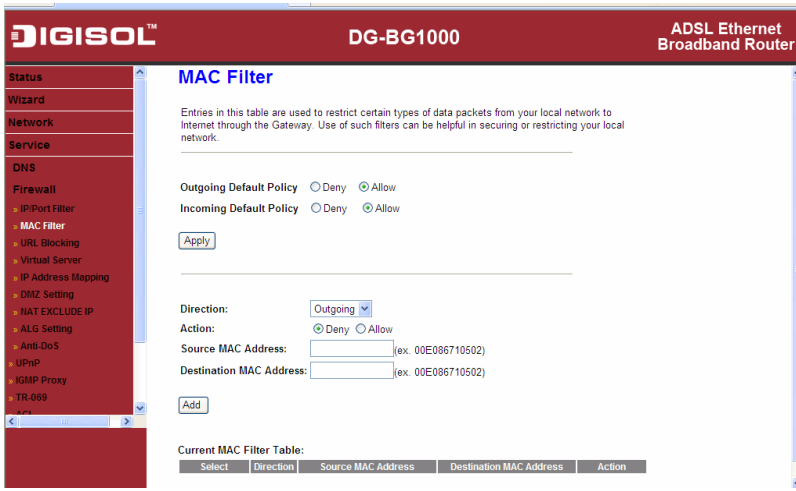
3.5.2.2 MAC Filter

Click **MAC Filter** in the left pane, the page shown in the following figure appears. Entries in the table are used to restrict certain types of data packets from your local network to Internet through the gateway. These filters are helpful in securing or restricting your local network.



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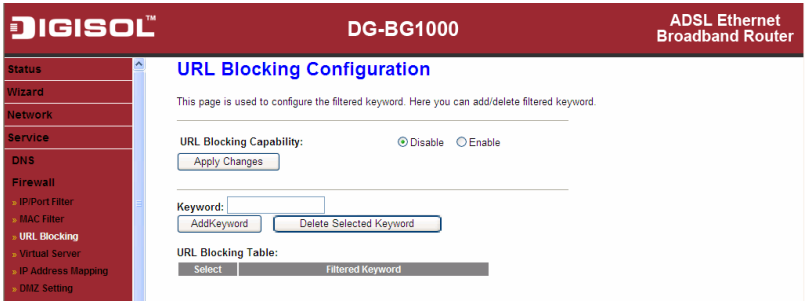
3.5.2.3 URL Blocking

Click **URL Blocking** in the left pane, the page shown in the following figure appears. This page is used to block a fully qualified domain name, such as tw.yahoo.com and filtered keyword. You can add or delete FQDN and filtered keyword.



The following table describes the parameters and buttons of this page:

Parameter	Description
URL Blocking Capability	You can choose **Disable** or **Enable**. ● Select **Disable** to disable URL blocking function and keyword filtering function. ● Select **Enable** to block access to the URLs and keywords specified in the **URL Blocking Table**.
Keyword	Enter the keyword to block.
AddKeyword	Click it to add a keyword to the **URL Blocking Table**.
Delete Selected Keyword	Select a row in the **URL Blocking Table** and click it to delete the row.
URL Blocking Table	A list of the URL (s) to which access is blocked.

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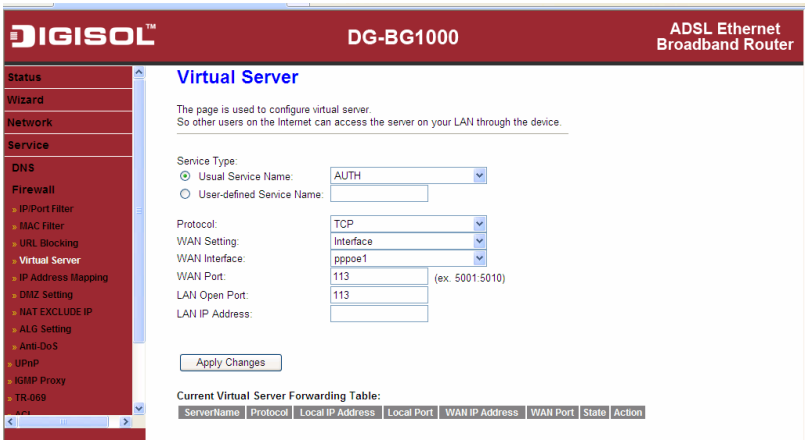
3.5.2.4 Virtual Server

Click **Virtual Server** in the left pane, the page shown in the following figure appears.



The following table describes the parameters of this page:

Parameter	Description
Service Type	You can select the common service type, for example, **AUTH**, **DNS**, or **FTP**. You can also define a service name. ● If you select **Usual Service Name**, the corresponding parameter has the default settings. ● If you select **User-defined Service Name**, you need to enter the corresponding parameters.
Protocol	Choose the transport layer protocol that the service type uses. You can choose **TCP** or **UDP**.

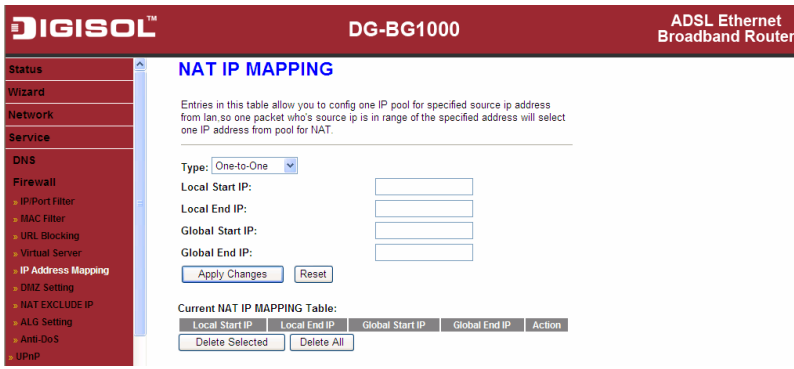
Parameter	Description
WAN Setting	You can choose **Interface** or **IP Address**.
WAN Interface	Choose the router port that uses virtual server.
WAN Port	Choose the access port on the WAN.
LAN Open Port	Enter the port number of the specified service type.
LAN IP Address	Enter the IP address of the virtual server. It is in the same network segment with LAN IP address of the router.

3.5.2.5 IP Address Mapping

NAT is short for Network Address Translation. The Network Address Translation Settings window allows you to share one WAN IP address for multiple computers on your LAN.

Click **IP Address Mapping** in the left pane, the page shown in the following figure appears.

Entries in this table allow you to configure one IP pool for specified source IP address from LAN, so one packet whose source IP is in range of the specified address will select one IP address from the pool for NAT.



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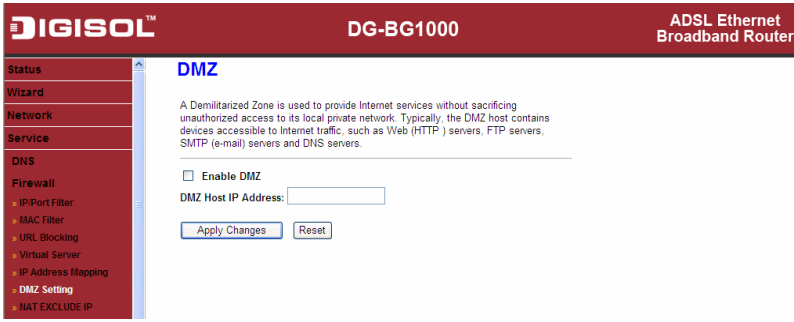
3.5.2.6 DMZ Setting

Demilitarized Zone (DMZ) is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.

Click **DMZ Setting** in the left pane, the page shown in the following figure appears. The following describes how to configure DMZ.

Step 1 Select **Enable DMZ** to enable this function.
Step 2 Enter an IP address of the DMZ host.
Step 3 Click **Apply Changes** to save the settings of this page temporarily.



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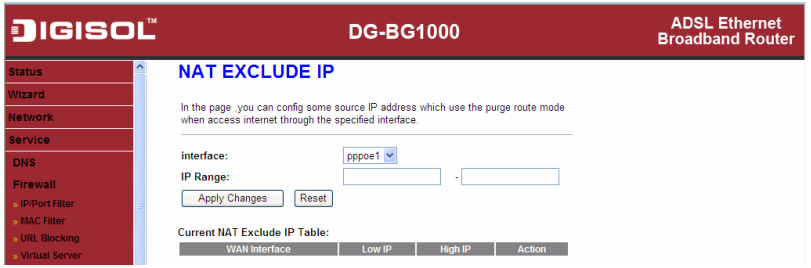
3.5.2.7 NAT EXCLUDE IP

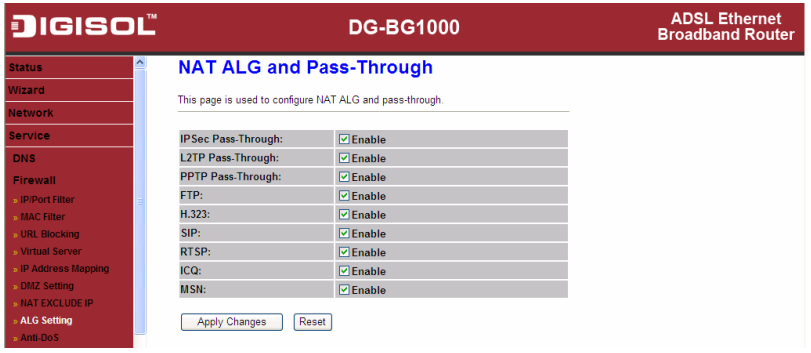
Click **NAT EXCLUDE IP** in the left pane, the page shown in the following figure appears.

In the page, you can configure some source IP addresses which use the purge route mode when accessing internet through the specified interface.



3.5.2.8 ALG Setting

Click **ALG Setting** in the left pane, the page shown in the following figure appears.



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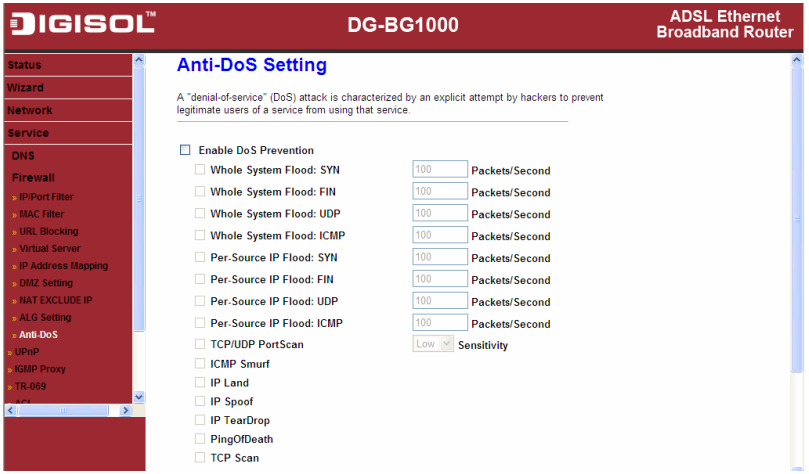
3.5.2.9 Anti-DoS

Denial-of-Service Attack (DoS attack) is a type of attack on a network that is designed to bring the network to its knees by flooding it with useless traffic.

Click **Anti-DoS** in the left pane, the page shown in the following figure appears. In this page, you can prevent DoS attacks.



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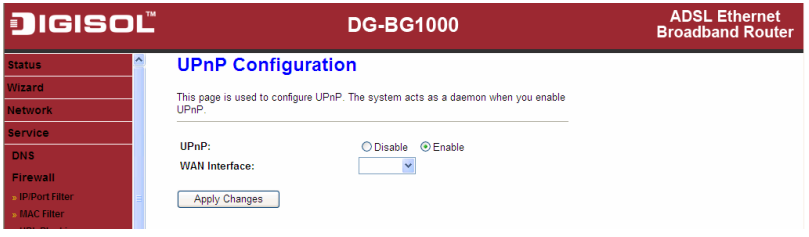
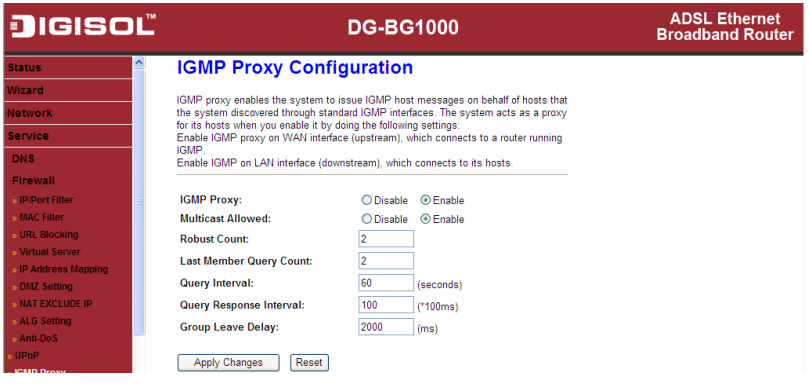
3.5.3 UPNP

Choose **Service** > **UPnP**, the page shown in the following figure appears. This page is used to configure UPnP. The system acts as a daemon after you enable it.



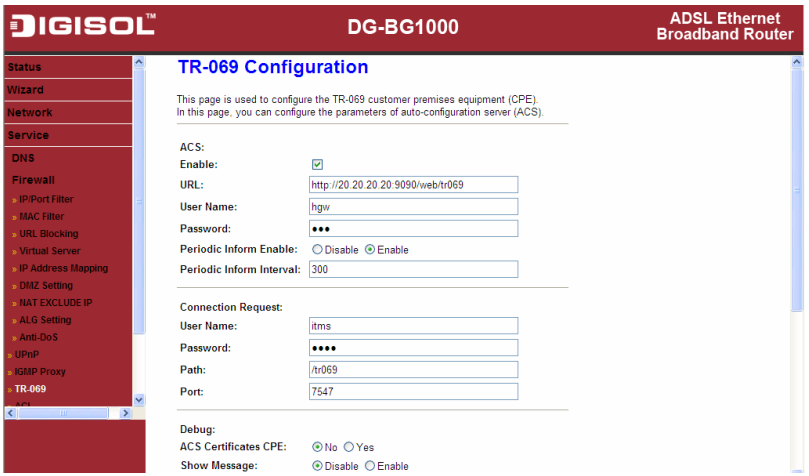
3.5.4 IGMP Proxy

Choose **Service** > **IGMP Proxy**, the page shown in the following figure appears. IGMP proxy enables the system to issue IGMP host messages on behalf of hosts that the system discovered through standard IGMP interfaces. The system acts as a proxy for its hosts after you enable it.



3.5.5 TR-069

Choose **Service** > **TR-069**, the page shown in the following page appears. In this page, you can configure the TR-069 CPE.



The following table describes the parameters of this page:

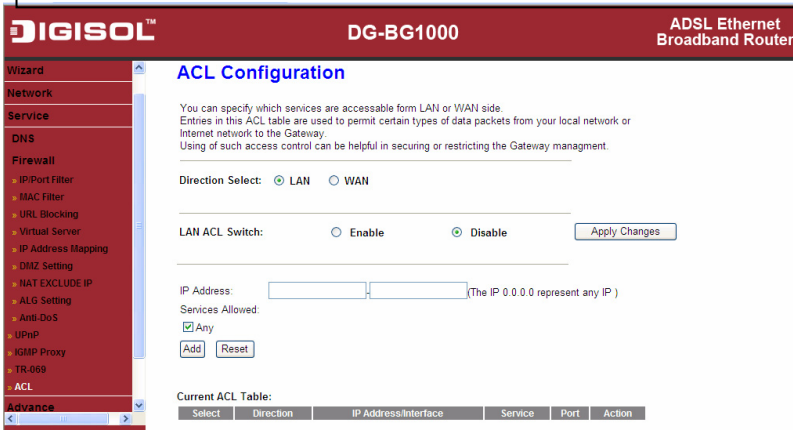
Parameter	Description
ACS	
URL	The URL of the auto-configuration server to connect to.
User Name	The user name for logging in to the ACS.
Password	The password for logging in to the ACS.
Periodic Inform Enable	Select **Enable** to periodically connect to the ACS to check whether the configuration

Parameter	Description
	updates.
Periodic Inform Interval	Specify the amount of time between connections to ACS.
Connection Request	
User Name	The connection user name provided by TR-069 service.
Password	The connection password provided by TR-069 service.
Debug	
Show Message	Select **Enable** to display ACS SOAP messages on the serial console.
CPE sends GetRPC	Select **Enable**, the router contacts the ACS to obtain configuration updates.
Skip MReboot	Specify whether to send an MReboot event code in the inform message.
Delay	Specify whether to start the TR-069 program after a short delay.
Auto-Execution	Specify whether to automatically start the TR-069 after the router is powered on.

3.5.6 ACL

Choose **Service** > **ACL**, the page shown in the following figure appears. In this page, you can permit the data packets from LAN or WAN to access the router. You can configure the IP address for Access Control List (ACL). If ACL is enabled, only the effective IP address in the ACL can access the router.

Note: If you select Enable in ACL capability, ensure that your host IP address is in ACL list before it takes effect.



The following table describes the parameters and buttons of this page:

Parameter	Description
Direction Select	Select the router interface. You can select **LAN** or **WAN**. In this example, **LAN** is selected.
LAN ACL Switch	Select it to enable or disable ACL function.
IP Address	Enter the IP address of the specified interface. Only the IP address that is in the same network segment with the IP address of the specified interface can access the router.
Services Allowed	You can choose the following services from LAN: **Web**, **Telnet**, **FTP**, **TFTP**, **SNMP**, or **PING**. You can also choose all the services.

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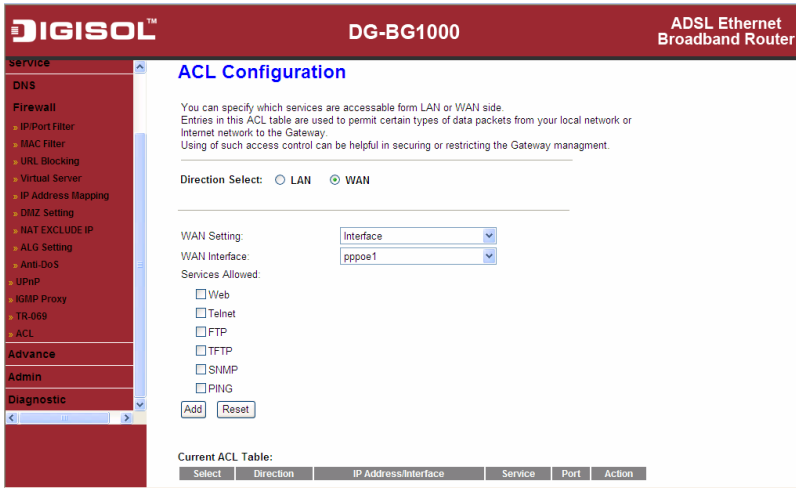
Parameter	Description
Add	After setting the parameters, click it to add an entry to the **Current ACL Table**.
Reset	Click it to refresh this page.

Set direction of the data packets to **WAN**, the page shown in the following figure appears.



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The following table describes the parameters and buttons of this page:

Parameter	Description
Direction Select	Select the router interface. You can select **LAN** or **WAN**. In this example, **WAN** is selected.
WAN Setting	You can choose **Interface** or **IP Address**.
WAN Interface	Choose the interface that permits data packets from WAN to access the router.
IP Address	Enter the IP address on the WAN. Only the IP address that is in the same network segment with the IP address on the WAN can access the router.
Services Allowed	You can choose the following services from WAN: **Web**, **Telnet**, **FTP**, **TFTP**, **SNMP**, or **PING**. You can also choose all the services.
Add	After setting the parameters, click it to add an entry to the **Current ACL Table**.
Reset	Click it to refresh this page.

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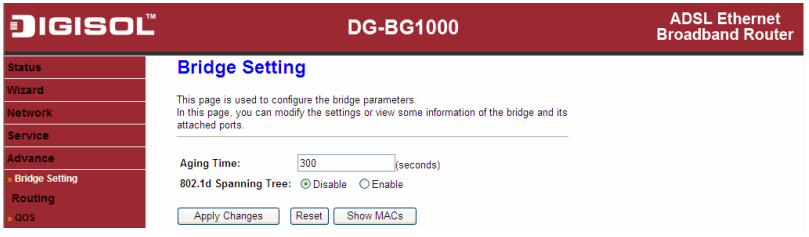
3.6 Advance

In the navigation bar, click **Advance**. In the **Advance** page that is displayed contains **Bridge Setting**, **Routing**, **QoS**, **SNMP** and **Others**.

3.6.1 Bridge Setting

Choose **Advance** > **Bridge Setting**, the page shown in the following figure appears. This page is used to configure the bridge parameters. You can change the settings or view some information on the bridge and its attached ports.



The following table describes the parameters and button of this page:

Parameter	Description
Aging Time	If the host is idle for 300 seconds (default value), its entry is deleted from the bridge table.
802.1d Spanning Tree	You can select **Disabled** or **Enabled**. Select **Enabled** to provide path redundancy while preventing undesirable loops in your network.
Show MACs	Click it to show a list of the learned MAC addresses for the bridge.

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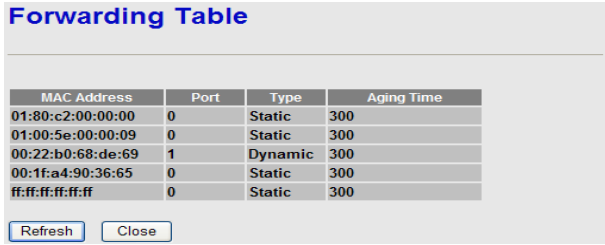
Click **Show MACs**, the page shown in the following figure appears. This table shows a list of learned MAC addresses for this bridge.

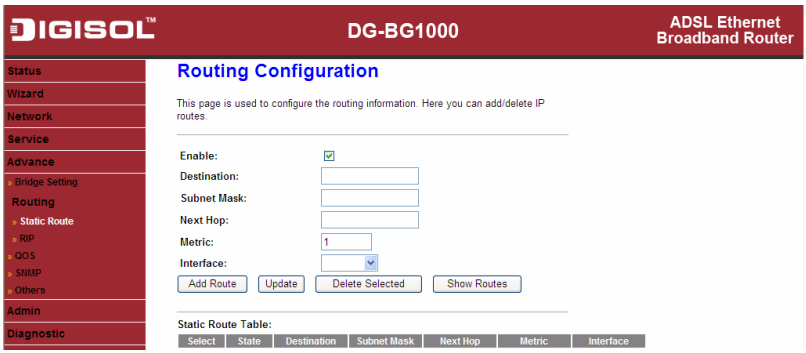


3.6.2 Routing

Choose **Advance > Routing**, the page shown in the following figure appears. The page that is displayed contains **Static Route** and **RIP.**

3.6.2.1 Static Route

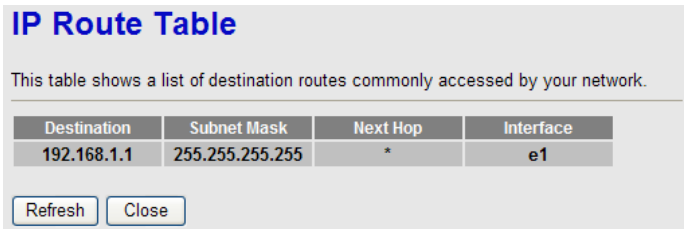
Click **Static Route** in the left pane, the page shown in the following figure appears. This page is used to configure the routing information. You can add or delete IP routes.



The following table describes the parameters and buttons of this page:

Parameter	Description
Enable	Select it to use static IP routes.
Destination	Enter the IP address of the destination device.
Subnet Mask	Enter the subnet mask of the destination device.
Next Hop	Enter the IP address of the next hop in the IP route to the destination device.
Metric	The metric cost for the destination.
Interface	The interface for the specified route.
Add Route	Click it to add the new static route to the **Static Route Table**.
Update	Select a row in the **Static Route Table** and modify the parameters. Then click it to save the settings temporarily.
Delete Selected	Select a row in the **Static Route Table** and click it to delete the row.
Show Routes	Click it, the **IP Route Table** appears. You can view a list of destination routes commonly accessed by your network.
Static Route Table	A list of the previously configured static IP routes.

Click **Show Routes**, the page shown in the following figure appears. The table shows a list of destination routes commonly accessed by your network.



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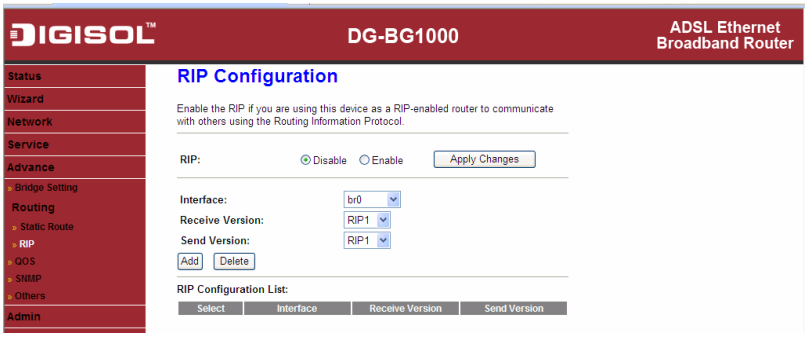
3.6.2.2 RIP

Click **RIP** in the left pane, the page shown in the following figure appears. If you are using this device as a RIP-enabled router to communicate with others using Routing Information Protocol (RIP), enable RIP. This page is used to select the interfaces on your devices that use RIP, and the version of the protocol used.



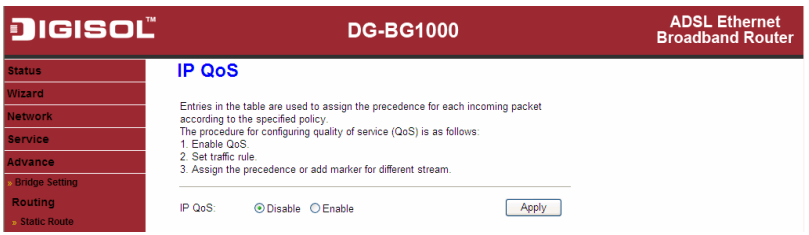
The following table describes the parameters and buttons of this page:

Parameter	Description
RIP	Select **Enable**, the router communicates with other RIP-enabled devices.
Apply Changes	Click it to save the settings of this page.
Interface	Choose the router interface that uses RIP.
Receive Version	Choose the interface version that receives RIP messages. You can choose **RIP1**, **RIP2**, or **Both**. ● Choose **RIP1** indicates the router receives RIP v1 messages. ● Choose **RIP2** indicates the router receives RIP v2 messages. ● Choose **Both** indicates the router receives RIP v1 and RIP v2 messages.

Parameter	Description
Send Version	The working mode for sending RIP messages. You can choose **RIP1** or **RIP2**. ● Choose **RIP1** indicates the router broadcasts RIP1 messages only. ● Choose **RIP2** indicates the router multicasts RIP2 messages only.
Add	Click it to add the RIP interface to the **Rip Configuration List**.
Delete	Select a row in the **Rip Configuration List** and click it to delete the row.

3.6.3 QoS

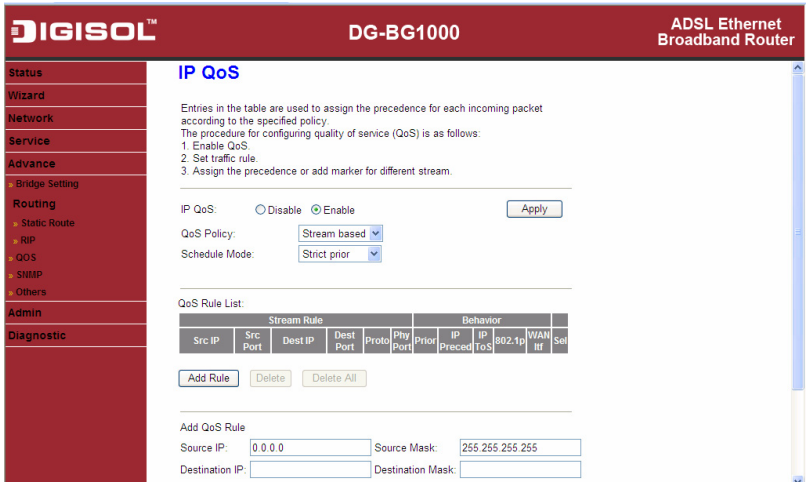
Choose **Advance > QoS**, the page shown in the following figure appears. Entries in the **QoS Rule List** are used to assign the precedence for each incoming packet based on physical LAN port, TCP/UDP port number, source IP address, destination IP address and other information.



Step 1 Enable IP QoS and click **Apply** to enable IP QoS function.

Step 2 Click **add rule** to add a new IP QoS rule.

The page shown in the following figure appears.



The following table describes the parameters and buttons of this page:

Parameter	Description
IP QoS	Select to enable or disable IP QoS function. You need to enable IP QoS if you want to configure the parameters of this page.
QoS Policy	You can choose **stream based**, **802.1p based**, or **DSCP based**.
Schedule Mode	You can choose **strict prior** or **WFQ (4:3:2:1)**.
Source IP	The IP address of the source data packet.
Source Mask	The subnet mask of the source IP address.
Destination IP	The IP address of the destination data packet.
Destination Mask	The subnet mask of the destination IP address.

Parameter	Description
Source Port	The port of the source data packet.
Destination Port	The port of the destination data packet.
Protocol	The protocol responds to the IP QoS rules. You can choose **TCP**, **UDP**, or **ICMP**.
Physical Port	The LAN interface responds to the IP QoS rules.
Set priority	The priority of the IP QoS rules. P0 is the highest priority and P3 is the lowest.
IP Precedence	You can choose from 0 to 7 define the priority in the ToS of the IP data packet.
IP ToS	The type of IP ToS for classifying the data package You can choose **Normal Service**, **Minimize Cost**, **Maximize Reliability**, **Maximize Throughput**, or **Minimize Delay**.
802.1p	You can choose from 0 to 7.
delete	Select a row in the **QoS rule list** and click it to delete the row.
delete all	Select all the rows in the **QoS rule list** and click it to delete the rows.

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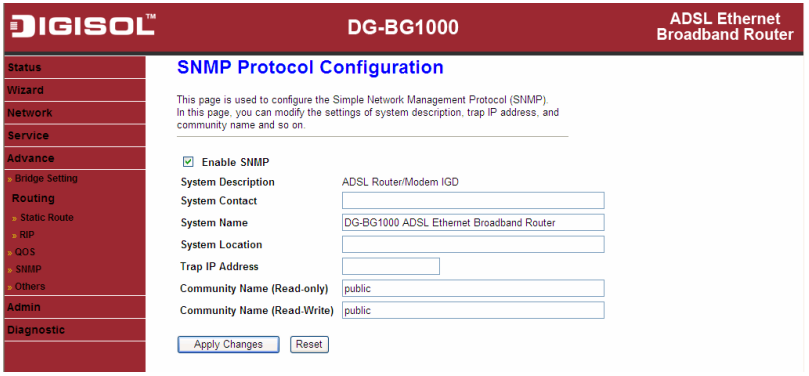
3.6.4 SNMP

Choose **Advance** > **SNMP**, the page shown in the following figure appears. You can configure the SNMP parameters.

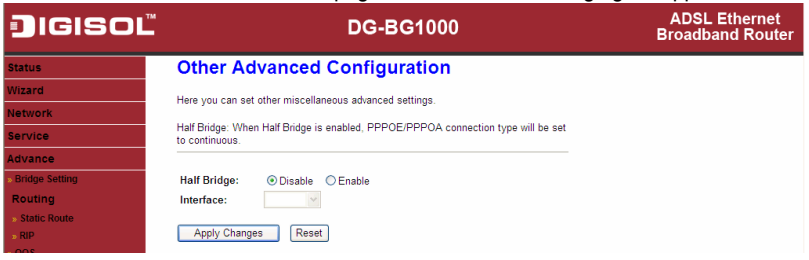


The following table describes the parameters of this page:

Parameter	Description
Enable SNMP	Select it to enable SNMP function. You need to enable SNMP, and then you can configure the parameters of this page.
Trap IP Address	Enter the trap IP address. The trap information is sent to the corresponding host.
Community name (Read-only)	The network administrators must use this password to read the information of this router.
Community name (Read-Write)	The network administrators must use this password to configure the information of the router.

3.6.5 Others

Choose **Advance** > **Others**, the page shown in the following figure appears.



3.7 Admin

In the navigation bar, click **Admin**. The **Admin** page that is displayed contains **Commit/Reboot**, **Upgrade**, **System Log**, **Password** and **Time Zone**.

3.7.1 Commit/Reboot

Choose **Admin** > **Commit/Reboot**, the page shown in the following figure appears. You can set the router reset to the default settings or set the router to commit the current settings.

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The following table describes the parameters and button of this page:

Parameter	Description
Reboot from	You can choose **Save the current configuration** or **Restore to the factory default configuration**. ● **Save the current configuration**: Save the current settings, and then reboot the router. ● **Restore to the factory default configuration**: Reset to the factory default settings, and then reboot the router.
Reboot	Click it to reboot the router.

3.7.2 Upgrade

Choose **Admin** > **Upgrade**. The **Upgrade** page that is displayed contains **Upgrade Firmware** and **Backup/Restore**.

Caution:

Do not turn off the router or press the Reset button while the procedure is in progress.

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3.7.2.1 Upgrade Firmware

Click **Upgrade Firmware** in the left pane, the page shown in the following figure appears. In this page, you can upgrade the firmware of the router.

The following table describes the parameters and button of this page:

Parameter	Description
Select File	Click **Browse** to select the firmware file.
Upload	After selecting the firmware file, click **Upload** to starting upgrading the firmware file.
Reset	Click it to starting selecting the firmware file.

3.7.2.2 Backup/Restore

Click **Backup/Restore** in the left pane, the page shown in the following figure appears. You can backup the current settings to a file and restore the settings from the file that was saved previously.

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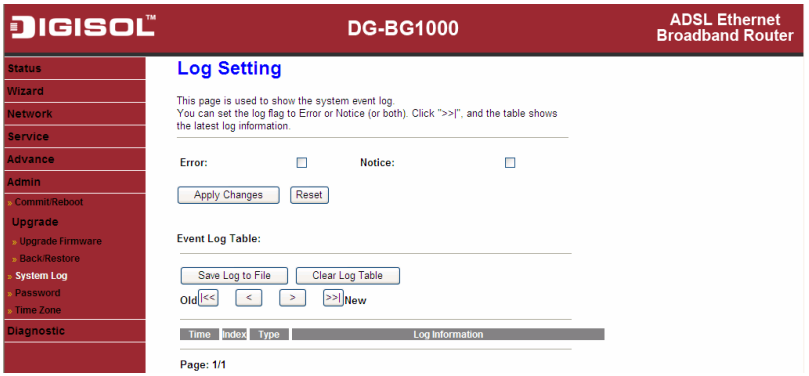
The following table describes the parameters and button of this page:

Parameter	Description
Save Settings to File	Click it, and select the path. Then you can save the configuration file of the router.
Load Settings from File	Click **Browse** to select the configuration file.
Upload	After selecting the configuration file of the router, click **Upload** to start uploading the configuration file of the router.

3.7.3 System Log

Choose **Admin** > **System Log**, the page shown in the following figure appears. In this page, you can enable or disable system log function and view the system log.



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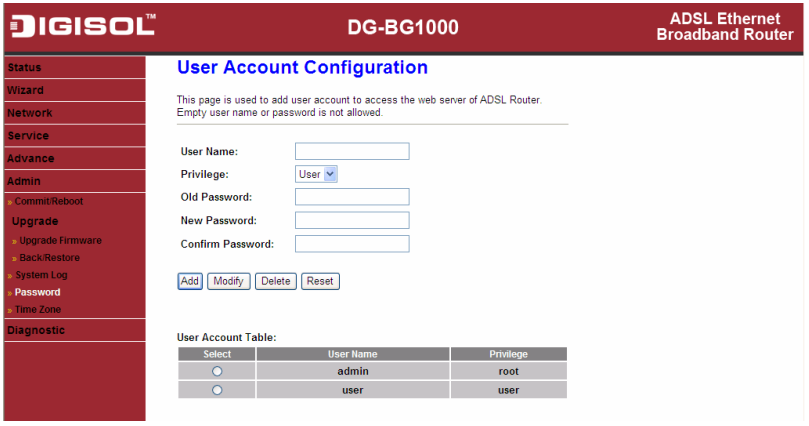
3.7.4 Password

Choose **Admin** > **Password**, the page shown in the following figure appears. By default, the user name and password are **admin** and **admin** respectively. The common user name and password are **user** and **user** respectively.



The following table describes the parameters of this page:

Parameter	Description
User Name	Choose the user name for accessing the router. You can choose **admin** or **user**.
Privilege	Choose the privilege for the account.
Old Password	Enter the old password
New Password	Enter the password to which you want to change the old password.
Confirm Password	Enter the new password again.

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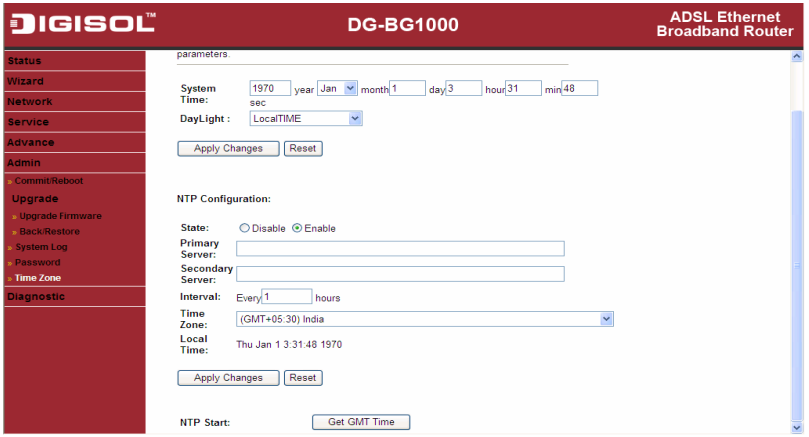
3.7.5 Time Zone

Choose **Admin** > **Time Zone**, the page shown in the following figure appears. You can configure the system time manually or get the system time from the time server.



The following table describes the parameters of this page:

Parameter	Description
System Time	Set the system time manually.
NTP Configuration	
State	Select enable or disable NTP function. You need to enable NTP if you want to configure the parameters of NTP.
Primary Server	Set the primary NTP server manually.
Secondary Server	Set the secondary NTP server manually.
Time Zone	Choose the time zone in which area you are from the drop down list.

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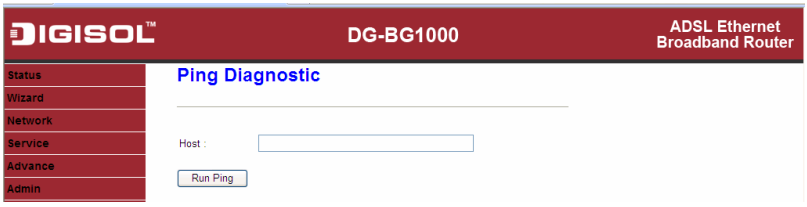
3.8 Diagnostic

In the navigation bar, click **Diagnostic**. The **Diagnostic** page that is displayed contains **Ping**, **ATM Loopback**, **ADSL** and **Diagnostic Test**.

3.8.1 Ping

Choose **Diagnostic** > **Ping**. The page shown in the following figure appears.

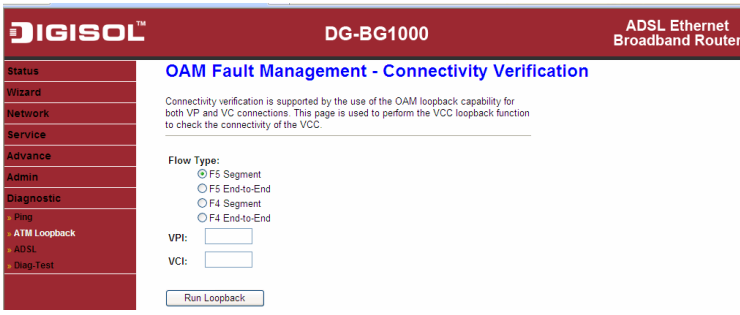


The following table describes the parameter and button of this page:

Parameter	Description
Host	Enter the valid IP address or domain name.
Run Ping	Click it to start to Ping.

3.8.2 ATM Loopback

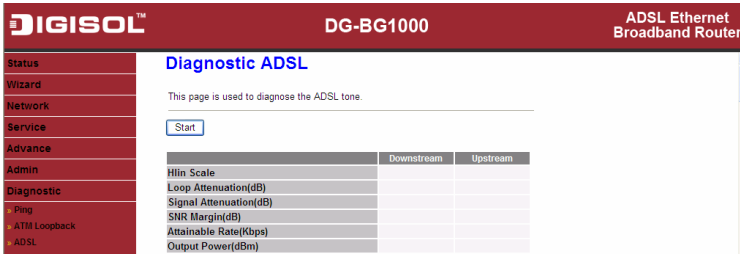
Choose **Diagnostic** > **ATM Loopback**. The page shown in the following figure appears. In this page, you can use VCC loopback function to check the connectivity of the VCC. The ATM loopback test is useful for troubleshooting problems with the DSLAM and ATM network.



Click **Run Loopback** to start testing.

3.8.3 ADSL

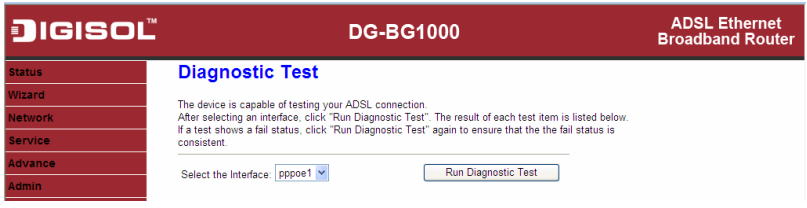
Choose **Diagnostic** > **ADSL**. The page shown in the following figure appears. It is used for ADSL tone diagnostics.



Click **Start** to start ADSL tone diagnostics.

3.8.4 Diagnostic Test

Choose **Diagnostic** > **Diagnostic Test**, the page shown in the following figure appears. In this page, you can test the DSL connection. You can also view the LAN status connection and ADSL connection.



Click **Run Diagnostic Test** to start testing.

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