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EC3805

Smart NAT Router

**Installation Guide**

[www.edge-core.com](http://www.edge-core.com)

## Revision History

Revision	Date	Change Description
EC3805_001R001	04/28/2009	Preliminary
EC3805_002R001	05/18/2009	Add introduction

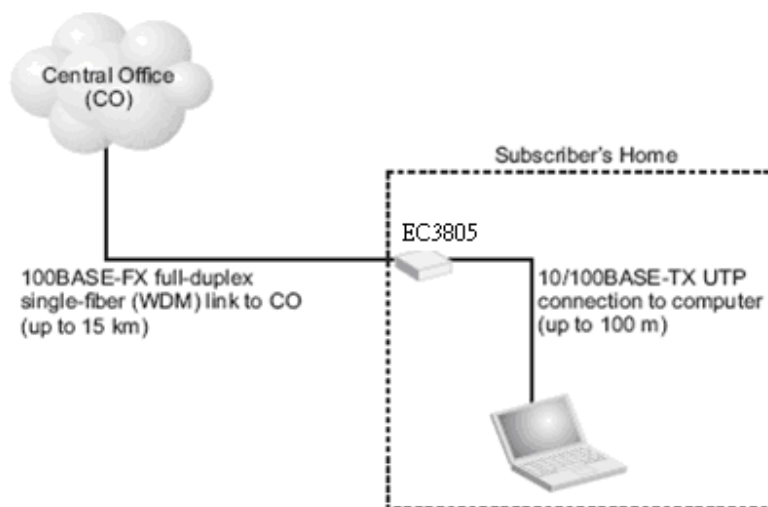
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## Introduction

Fiber-To-The-Home (FTTH) has always been an attractive option for Internet access. It has all the benefits of optical fiber. It provides a future-proof network, in that you do not have to go through the hassles of upgrading from ADSL to xDSL, or digital co-ax to digital wireless. It does not have to struggle with electromagnetic interference problems, and with no active "outside-plant" components, it offers the highest reliability. Moreover, it does not require electric power and is immune to lightning and other transients. These properties of fiber lead to the lowest possible power and operational costs, such as maintenance, provisioning and facilities planning.

The EC3805 smart NAT router is an ideal Customer Premises Equipment (CPE) for an FTTH system. The CPE provides four standard 10/100BASE-TX RJ-45 Ethernet port for connecting to a customer's PC, switch, or other network device using twisted-pair cable.



## Features:

### **Bridging Features**

- ✓ Supports self-learning bridge specified in IEEE 802.1d Transparent Bridging
- ✓ Supports up to 4096 learning MAC addresses
- ✓ Transparent Bridging among 10/100 Mb Ethernet interface
- ✓ Supports IGMP Snooping
- ✓ Supports 802.1Q VLAN packet
- ✓ Supports one 100BaseFX port

### **Routing Features**

- ✓ NAT (Network Address Translation) / NPAT (Port Address Translation)  
ALGs (Application Level Gateways): such as NetMeeting, MSN Messenger, FTP, Quick Time, Real Player, VPN pass-through with multiple sessions, SIP, etc.
- ✓ Port Forwarding: the users can setup multiple virtual servers (e.g., Web, FTP, Mail servers) on user's local network.
- ✓ DHCP Client/Server
- ✓ Time protocol can be used to get current time from network time server
- ✓ Support IP/Bridge QoS for prioritize the transmission of different traffic classes
- ✓ Supports IGMP Snooping and Proxy
- ✓ Support 802.1Q VLAN Tagging
- ✓ Supports one 100BaseFX port

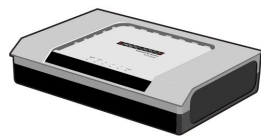
## Chapter 1: Overview

This chapter provides you the description for the LEDs and connectors in the front and rear surface of the router. Before you use/install this router, please take a look at this information first.

### Package Contents

Before you start to install the Switch, please verify your package that contains the following items:

- One smart NAT router
- One Power Adapter
- One User's Manual
- Robber foot



smart NAT router



Power Adapter



Robber foot



User's Manual

Note: If any of these items is found missing or damaged, please contact your local supplier for replacement.

## Physical Outlook

### Front Panel

The following illustration shows the front panel of the NAT Smart Router:



### LED Indicators

The NAT Smart Router is equipped with several LEDs.....as described in the table below (from left to right):

LED	Color	Status	Description
Power	Green	On	Power on
		Off	Power off
LINK/ACT.	Yellow	On	connection
		Off	disconnection
		Flashing	data transmission

### Rear Panel

The following figure illustrates the rear panel of the NAT Smart Router:



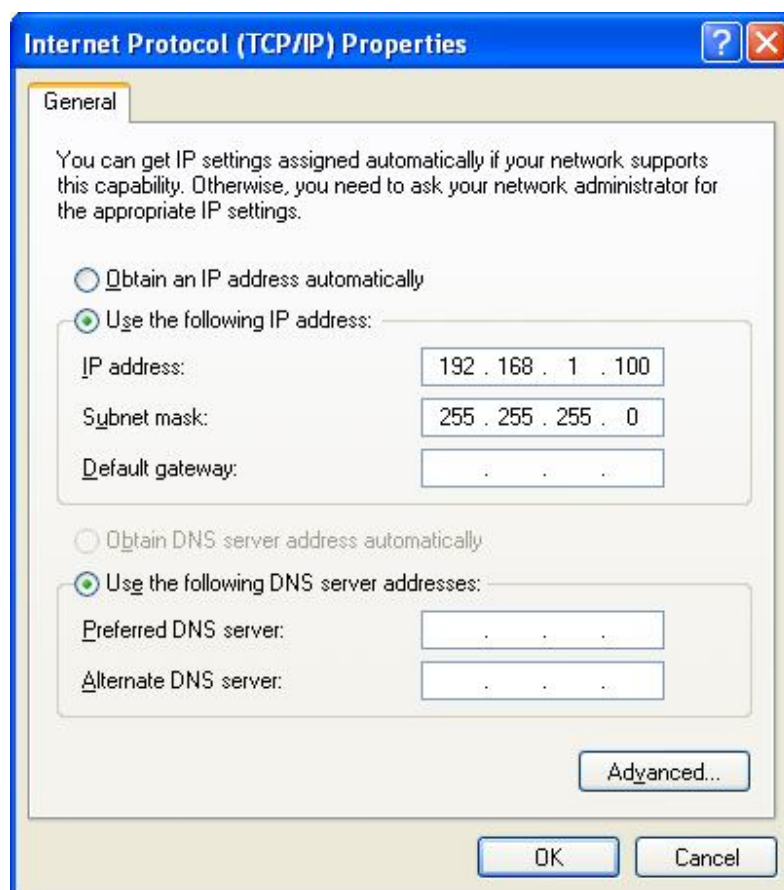
## Chapter 2: System Requirement and Installation

### System Requirement

To access the NAT Smart Router via Ethernet, the host computer must meet the following requirements:

- \* Equipped with an Ethernet network interface.
- \* Have TCP/IP installed.
- \* Allow the client PC to obtain an IP address automatically or set a fixed IP address.
- \* With a web browser installed: Internet Explorer 5.x or later.

The NAT Smart Router is configured with the **default IP address of 192.168.1.254** and subnet mask of **255.255.255.0**. Considering that the DHCP server is **Enable** by default, the DHCP clients should be able to access the Smart Router, or the host PC should be assigned an IP address of the same subnet and related subnet mask (for example, IP address of **192.168.1.100** and subnet mask of **255.255.255.0**) first for initial configuration.



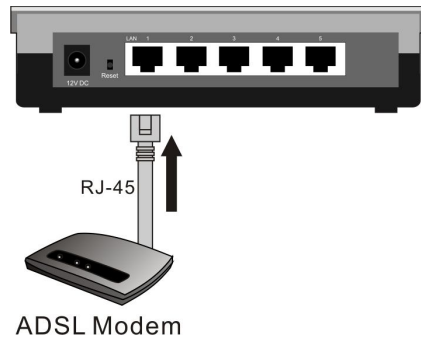
After configuring the IP of host PC, you also can manage the Smart Router through a web-based manager. The ADSL Router manager uses the HTTP protocol via a web browser to allow you to set up and manage the device.



## Connecting to ADSL Modem and Client PC

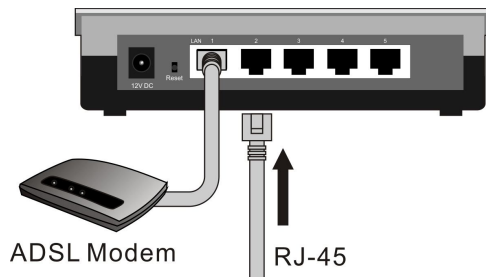
Follow the steps below to connect the related devices.

1. Please attach one end of the Ethernet cable with RJ-45 connector to the **LAN** port of the ADSL Modem.

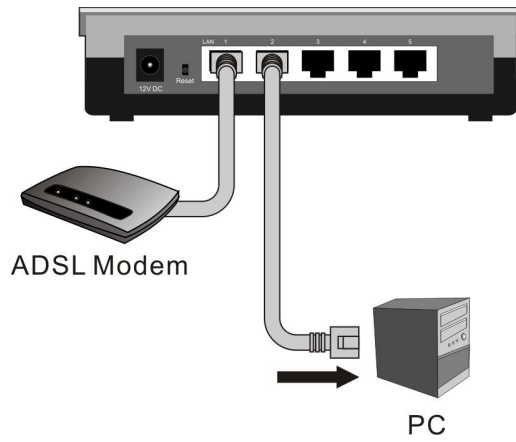


2. Connect the other end of the Ethernet cable to the **WAN** port of the Smart Router.

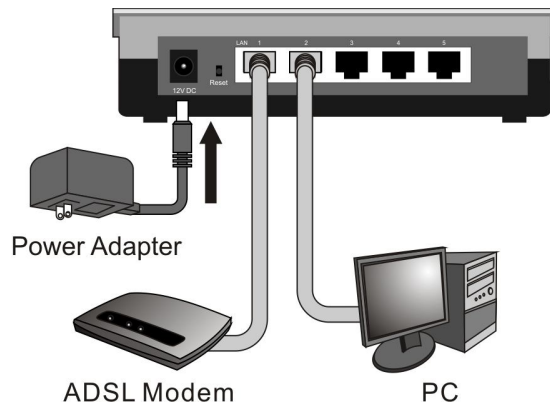
3. Attach one end of another Ethernet cable with RJ-45 connector to the **LAN** port of the Smart Router.



4. Connect the other end of the cable to the Ethernet port of the host PC.



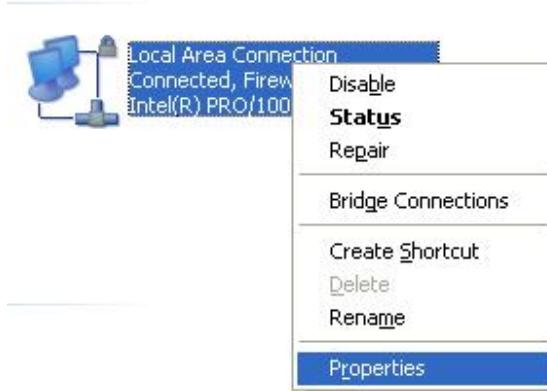
5. Connect the supplied power adapter to the **PWR** port of your Smart Router, and plug the other end to a power outlet.



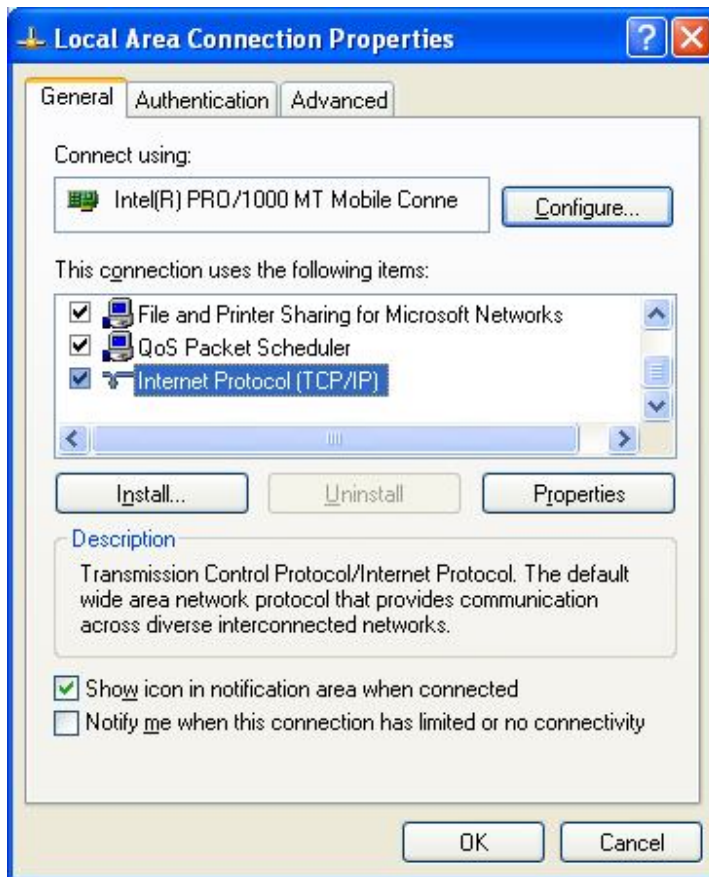
## Setting up IP address of Host PC

In the case the DHCP server function of the Smart Router is disabled or you want to configure the IP address of the host PC, please follow the steps below for installation.

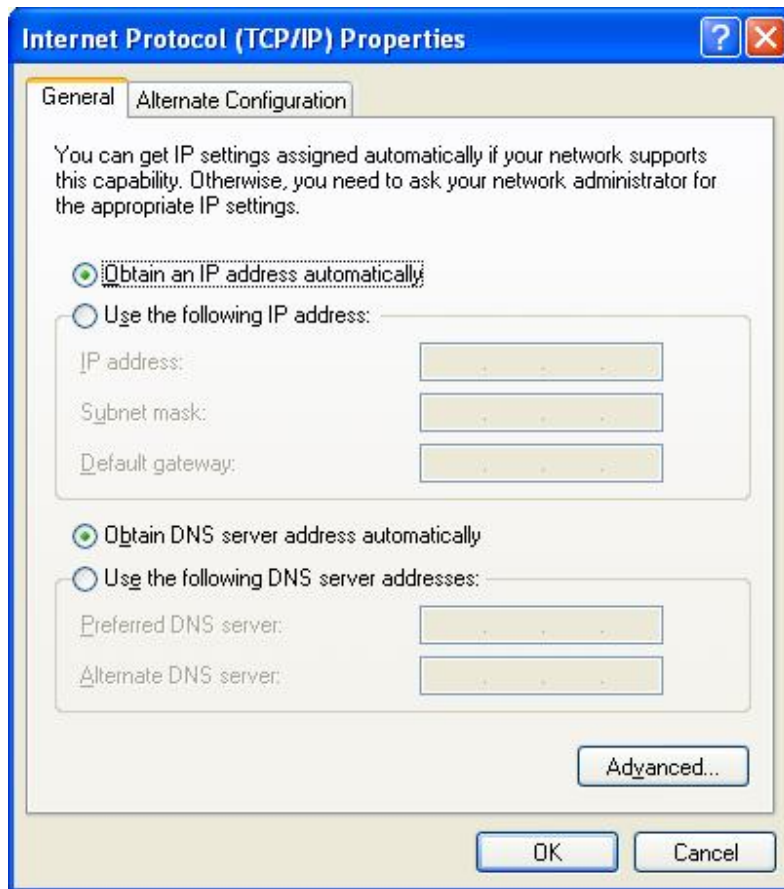
1. Open the **Start** menu, point to **Network and Dial-up Connections** and click it.
2. Right-click the **Local Area Connection** icon to pull down a window and then click **Properties**.



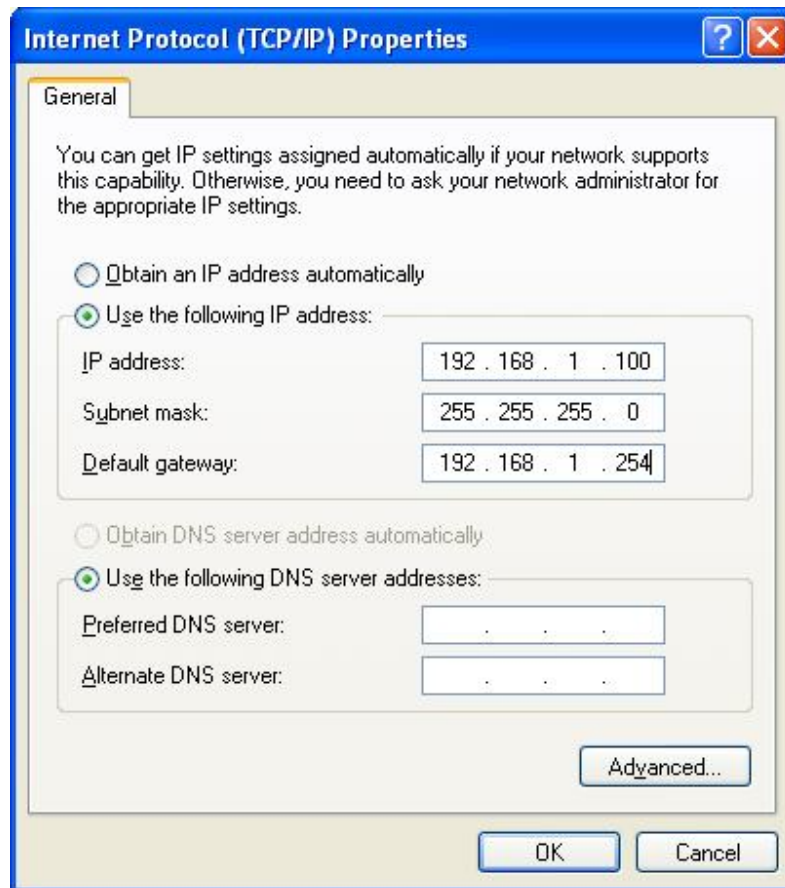
3. The **Local Area Network Properties** window appears. On the **General** tab: highlight **Internet Protocol (TCP/IP)** and then click **Properties**.



4. The Internet Protocol (TCP/IP) Properties window appears. On the **General** tab:
  - 1) For the case DHCP Server of Smart Router is enabled, enable **Obtain an IP address automatically** and click **OK**.

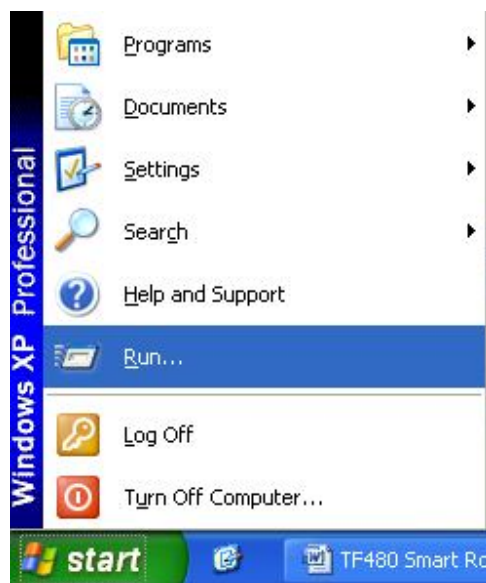


- 2) For the case DHCP Server of Smart Router is enabled or you want to set the IP address by yourself, enable **Use the following IP address** and fill in the **IP address** field with the address of the same subnet with Smart Router, for example, 192.168.1.100; the **Subnet mask** field with value 255.255.255.0 and the **Default gateway** field with the IP address of Smart Router (192.168.1.254) and then click **OK**.

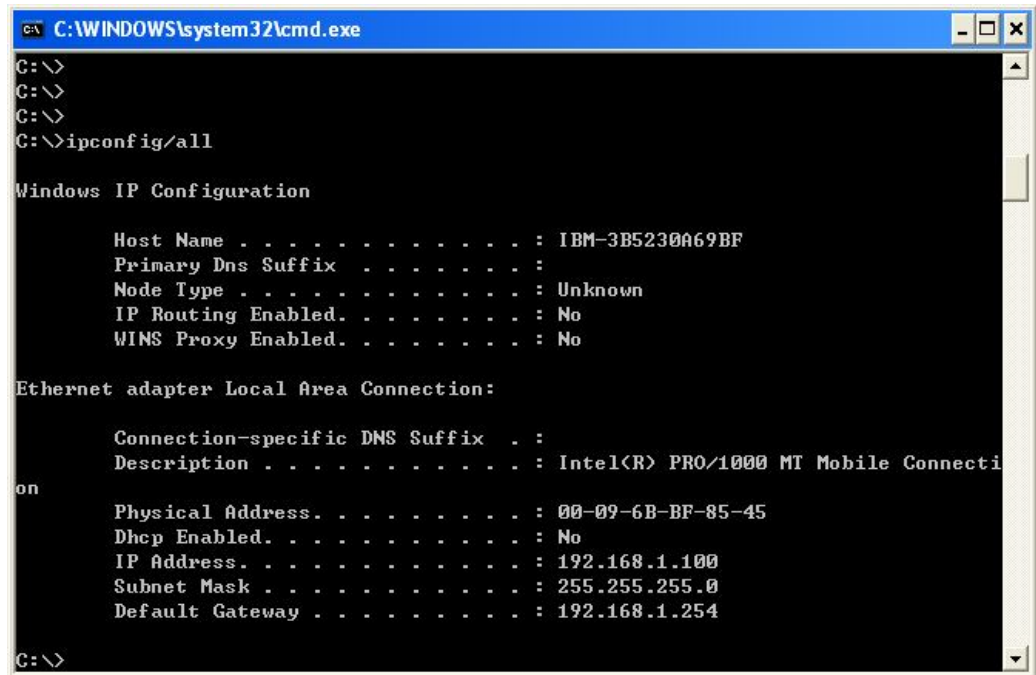


After configuring the IP address of the host PC, you can check if the IP address is correctly configured by the following steps:

1. Open the **Start** menu, point to **run** and click it.



2. Type **cmd** in the text book and click **OK**.
3. A command window will show and in the window type **ipconfig /all** and then press **enter** key.
4. In the command window will show the IP address, Subnet Mask, Default Gateway.....etc. information. The IP address should be **192.168.1.xxx**, **xxx** is a value other than 254 from 0 to 255, and the Subnet Mask should be **255.255.255.0** while the default gateway should be **192.168.1.254**.



```

C:\WINDOWS\system32\cmd.exe
C:\>
C:\>
C:\>
C:\>ipconfig/all

Windows IP Configuration

    Host Name . . . . . : IBM-3B5230A69BF
    Primary Dns Suffix . . . . . :
    Node Type . . . . . : Unknown
    IP Routing Enabled. . . . . : No
    WINS Proxy Enabled. . . . . : No

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . :
    Description . . . . . : Intel(R) PRO/1000 MT Mobile Connecti
on
    Physical Address. . . . . : 00-09-6B-BF-85-45
    Dhcp Enabled. . . . . : No
    IP Address. . . . . : 192.168.1.100
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.254

C:\>

```

5. If the IP address of your PC is not correctly configured, please follow the steps described above to re-configure the IP address of your PC.

You can further check the connection between your PC and the Smart Router by **ping** command. Following the steps below are for **ping** command.

1. Also in the command window, type **ping 192.168.1.254** and then press **enter** key.
2. If the window shows:

```
C:\WINDOWS\system32\cmd.exe

C:\>ping 192.168.1.254

Pinging 192.168.1.254 with 32 bytes of data:

Reply from 192.168.1.254: bytes=32 time<1ms TTL=128
Reply from 192.168.1.254: bytes=32 time<1ms TTL=128
Reply from 192.168.1.254: bytes=32 time<1ms TTL=128
Reply from 192.168.1.254: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>_
```

then your PC and Smart Router are connected successfully.

3. If the window shows:

```
C:\WINDOWS\system32\cmd.exe

C:\>ping 192.168.1.254

Pinging 192.168.1.254 with 32 bytes of data:

Hardware error.
Hardware error.
Hardware error.
Hardware error.

Ping statistics for 192.168.1.254:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>_
```

then your PC and Smart Router are not connected correctly, you can check:

- 1) If the Ethernet cable between Smart Router and PC is correctly connected by checking if the link/ack LED is on.
- 2) If the IP address of the PC is correctly configured by following the steps described above.

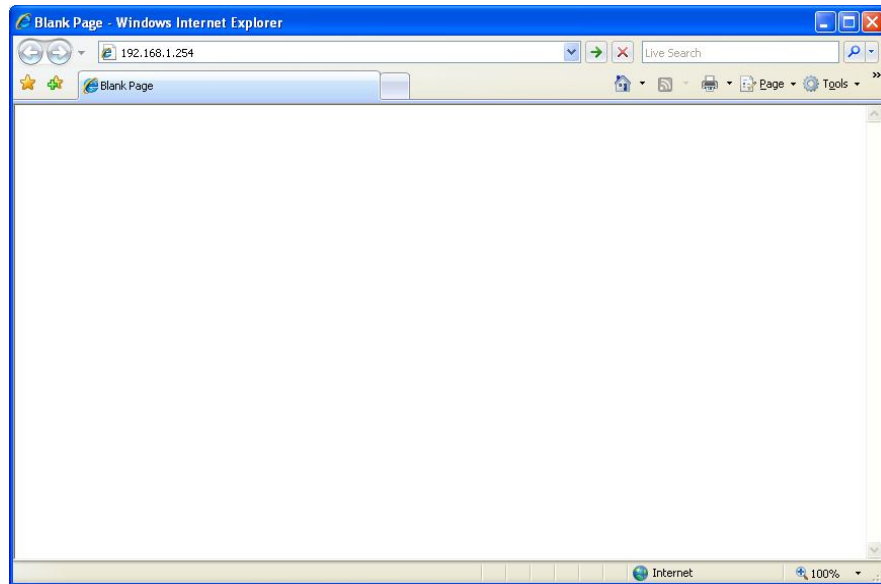
## Chapter 3: Quick Setup

This chapter guides you through the steps to configure the basic features of your Smart Router, so that you can connect to the internet quickly.

### Using the Web-Based Manager

After properly configuring your host PC, please proceed as follows:

1. Start your web browser and type **192.168.1.254**, the default IP address of the Smart Router, in the URL field.



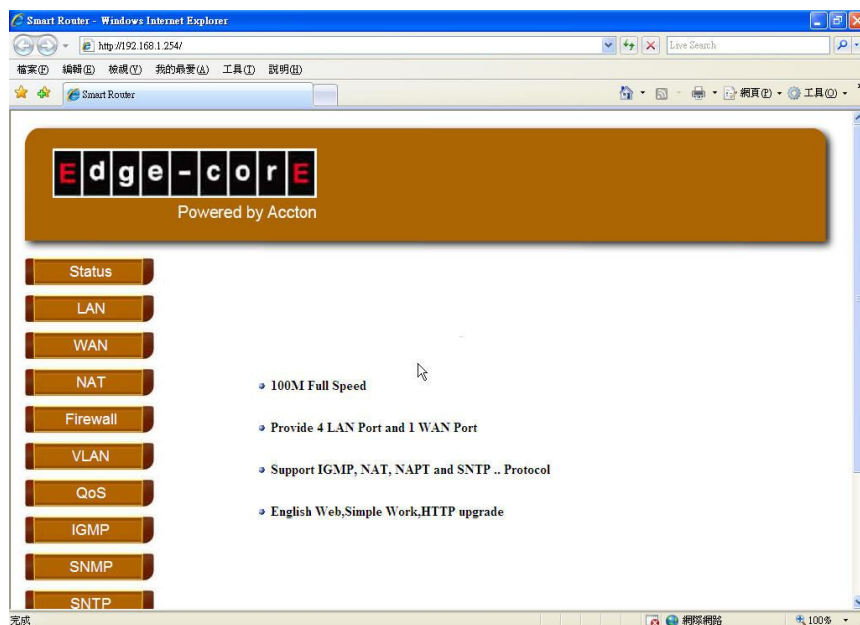
2. After connecting to the device, you will be prompted to enter username and password. By default, both the username and the password are **admin**.



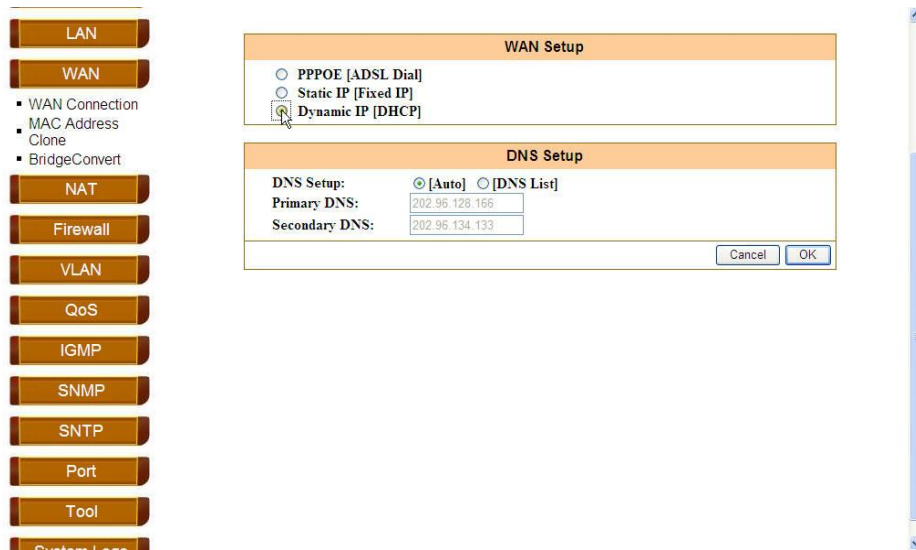


An example under Windows XP is shown as the left figure.

3. After you login successfully, the **system info** page will appear. From now on, the Smart Router acts as a web server sending HTML pages/forms on your request. You can fill in these pages/forms and apply them to the Smart Router.

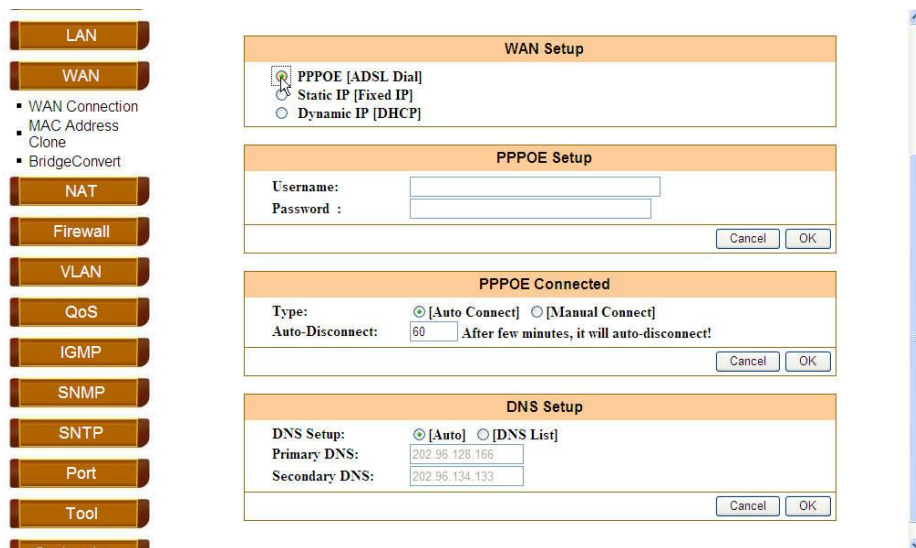


4. To surf the internet, you have to configure wan connection first. Click the button **WAN** on the left menu, and the **WAN connection** page will appear. As below:



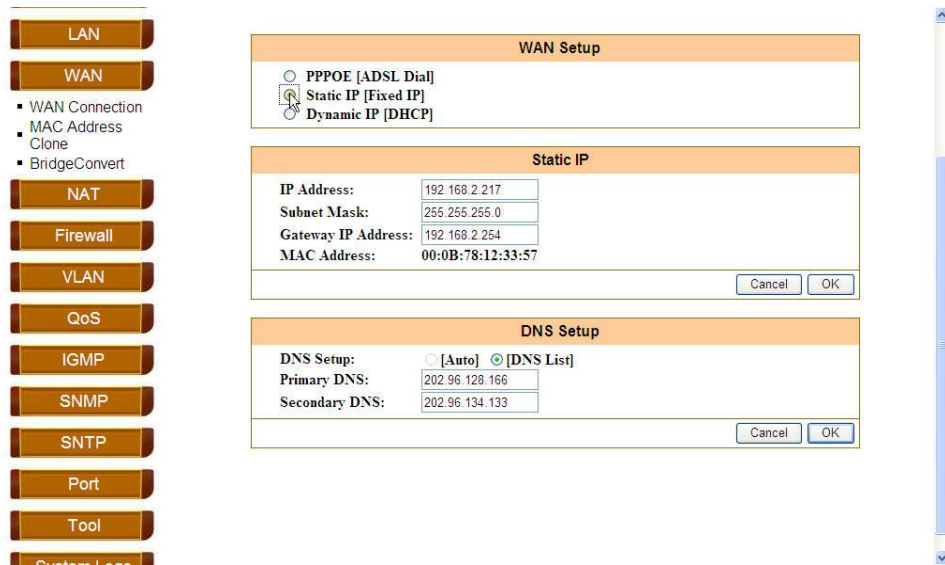
Then choose the wan connection type, **PPPOE**, **Static IP**, or **Dynamic IP**.

If you chose **PPPOE**,



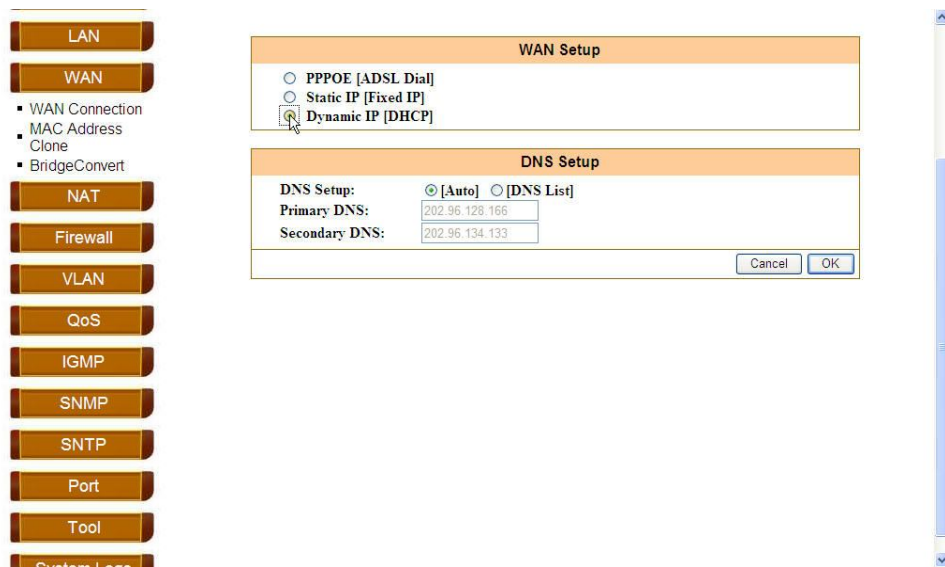
you have to fix the **Username/Password** with your ADSL account. Click **OK**, and you can surf the internet.

If you chose **Static IP**,



you have to fix the **IP Address/Subnet Mask/Gateway IP Address** with the correct values. Click **OK**, and you can surf the internet.

If you chose **Dynamic IP**,



smart router will get an IP from the connected DHCP server, and you can surf the internet.

5. If you can not access to the internet, you can check **Status** page:

If **Wan Status** display like below:

The screenshot shows a network configuration interface. On the left is a sidebar menu with the following items: Status, Information (expanded), LAN, WAN, NAT, Firewall, VLAN, QoS, IGMP, SNMP, SNTP, Port, Tool, and System Logs. The main content area displays three panels:

WAN Status	
Connection Type:	Dynamic IP
Connection Status:	Not Connected
IP Address:	0.0.0.0
Subnet Mask:	0.0.0.0
WAN MAC:	00:0B:78:12:33:57
Gateway:	0.0.0.0
Primary DNS:	0.0.0.0
Secondary DNS:	0.0.0.0
<input type="button" value="Renew"/> <input type="button" value="Release"/> <input type="button" value="Refresh"/>	

LAN Status	
IP Address:	192.168.1.254
Subnet Mask:	255.255.255.0
LAN MAC:	00:0B:78:12:34:57

System Information	
Working Time:	0 - 0:2:20
Network Time:	Not Get!
Hardware Version:	EC3805F Version 1.0
Firmware Version:	version 1.0 (Apr 20 2009)

Check the account, and configure by following the steps described above.

**Note:** Make sure the validity of the account.

## Chapter 4: Advance Setup

This chapter guides you advanced features configuration of your Smart Router.

### 1. Status

The screenshot shows the 'Status' page of a Smart Router. On the left is a vertical sidebar with buttons for various settings: Status, Information, LAN, WAN, NAT, Firewall, VLAN, QoS, IGMP, SNMP, SNTP, Port, Tool, and System Logs. The main area displays three panels:

- WAN Status:** Connection Type: Dynamic IP; Connection Status: Not Connected; IP Address: 0.0.0.0; Subnet Mask: 0.0.0.0; WAN MAC: 00:0B:78:12:33:57; Gateway: 0.0.0.0; Primary DNS: 0.0.0.0; Secondary DNS: 0.0.0.0. Buttons: Renew, Release, Refresh.
- LAN Status:** IP Address: 192.168.1.254; Subnet Mask: 255.255.255.0; LAN MAC: 00:0B:78:12:34:57.
- System Information:** Working Time: 0 - 0:32:2; Network Time: Not Get; Hardware Version: EC3805F Version 1.0; Firmware Version: version 1.0 (Apr 14 2009).

This page shows the status of your smart router. You can see **WAN Status**, **LAN Status** and **System information** here.

### 2. LAN

The screenshot shows the 'LAN Setup' page of a Smart Router. On the left is a vertical sidebar with buttons for various settings: LAN, DHCP Clients, WAN, NAT, Firewall, VLAN, QoS, IGMP, SNMP, SNTP, Port, Tool, and System Logs. The main area displays three panels:

- LAN Setup:** IP Address: 192.168.1.254; Subnet Mask: 255.255.255.0; DNS Proxy:  Enable; MAC Address: 00:0B:78:12:34:57. Buttons: Cancel, Apply.
- DHCP Setup:** DHCP Server:  Enable; PC Starting: 192.168.1.50; PC Ending: 192.168.1.100; IPTV Starting: 192.168.1.1; IPTV Ending: 192.168.1.25; Voip Starting: 192.168.1.26; Voip Ending: 192.168.1.49; IP Lease Time: 1 Day. Buttons: Cancel, Apply.
- Client number Setup:** Limited Clients number: 6. Buttons: Cancel, Apply.

- (1) Fix the **IP Address/Subnet Mask**.
- (2) If you want to enable **DNS Proxy**, mark the check box, and click **Apply**.
- (3) If you want to enable **DHCP Server** function, mark the **DHCP Server** check box. You can also configure the **IP Pool** range (1-253). Smart router will assign IP to client as your configuration.
- (4) **Limited Clients number** should be fixed from 0 to 6.

### 3. DHCP Clients

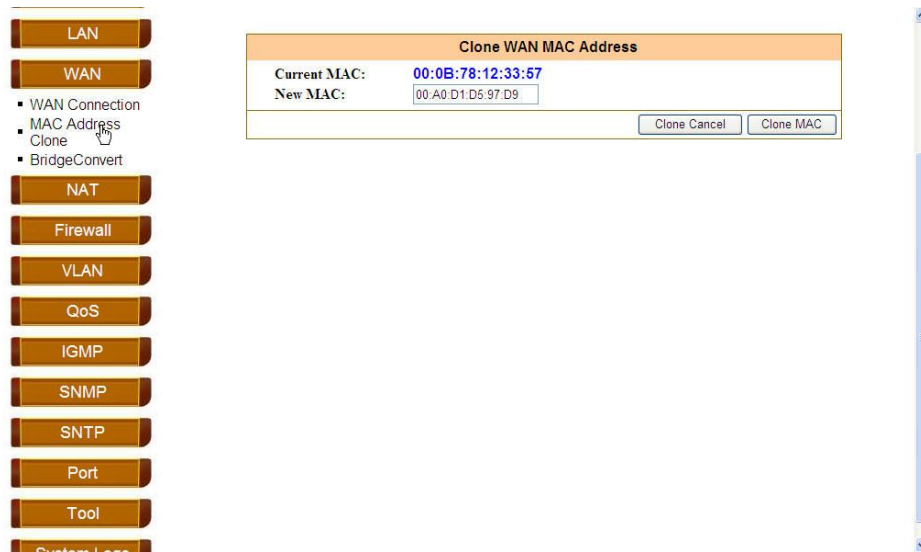
DHCP Clients			
No.	Host IP Address	Host MAC Address	Type
1	192.168.1.50	00:A0:D1:D5:97:D9	Dynamic

This page shows the DHCP clients. If the client uses static IP, the type should be **Static**, and if the client uses obtain an IP address automatically, the type should be **Dynamic**. The list is timed refresh. If the entry is aging out, it will be cleared automatically.

#### 4. WAN Connection

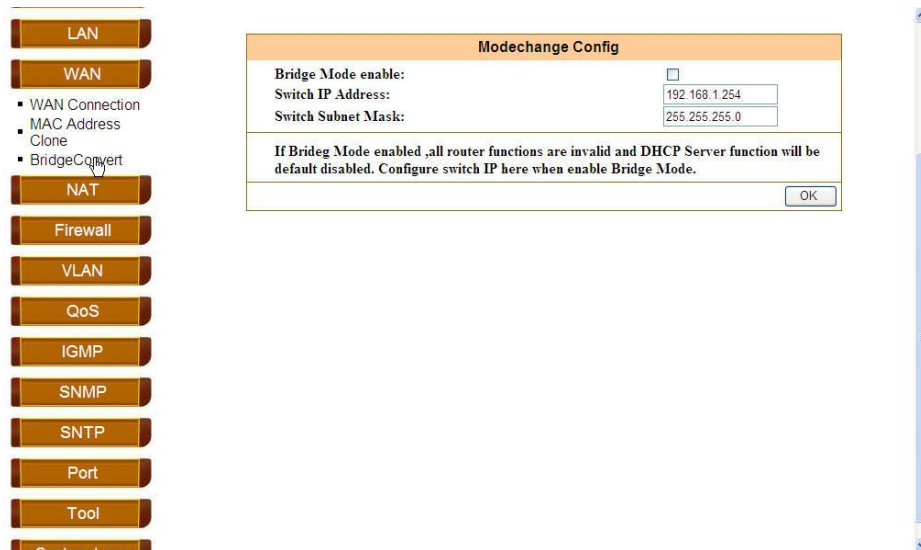
The **WAN Connection** setup steps, you can refer [Chapter 3: Quick Setup](#). Besides, you can configure static DNS list if you access the internet by method **Static IP** and **Dynamic IP**.

#### 5. MAC Address Clone



You can set WAN MAC address the same as your PC's MAC address.

## 6. Bridge Convert



Mark **Bridge Mode enable** to convert your smart router as a pure switch. **Note:** In this case, router functions are invalid.

## 7. NAT

- LAN
- WAN
- NAT
- Virtual Server
- Firewall
- VLAN
- QoS
- IGMP
- SNMP
- SNTP
- Port
- Tool
- System Logs

Virtual Server Configuration					
No.	Internal Port	External Port	Server IP	Port Type	Enable
1	0	0	192.168.1.0	TCP&UDP	<input type="checkbox"/>
2	0	0	192.168.1.0	TCP&UDP	<input type="checkbox"/>
3	0	0	192.168.1.0	TCP&UDP	<input type="checkbox"/>
4	0	0	192.168.1.0	TCP&UDP	<input type="checkbox"/>
5	0	0	192.168.1.0	TCP&UDP	<input type="checkbox"/>
6	0	0	192.168.1.0	TCP&UDP	<input type="checkbox"/>
7	0	0	192.168.1.0	TCP&UDP	<input type="checkbox"/>
8	0	0	192.168.1.0	TCP&UDP	<input type="checkbox"/>

1 Total[2] Pages

Fix **Server IP** with the device's IP you want to support remote access. **Internal Port** should be the same with you opened on your device. **External Port** should be the port you access remotely. **Port Type** determines which type of packet should be dealt with. Check **Enable** to make the entry valid.

## 8. Firewall

- LAN
- WAN
- NAT
- Firewall
- WAN Dest IP Filter
- LAN MAC Filter
- VLAN
- QoS
- IGMP
- SNMP
- SNTP
- Port
- Tool
- System Logs

WAN Dest IP Filter		
No.	Wan Dest IP	Deny
1	IP Address: 0.0.0.0	<input type="checkbox"/>
2	IP Address: 0.0.0.0	<input type="checkbox"/>
3	IP Address: 0.0.0.0	<input type="checkbox"/>
4	IP Address: 0.0.0.0	<input type="checkbox"/>
5	IP Address: 0.0.0.0	<input type="checkbox"/>
6	IP Address: 0.0.0.0	<input type="checkbox"/>
7	IP Address: 0.0.0.0	<input type="checkbox"/>
8	IP Address: 0.0.0.0	<input type="checkbox"/>
9	IP Address: 0.0.0.0	<input type="checkbox"/>
10	IP Address: 0.0.0.0	<input type="checkbox"/>

This page is used to filter WAN destination IP. Fix the **IP Address** with the IP you want to filter, mark the **Deny** of the entry, then click **OK**.



- LAN
- WAN
- NAT
- Firewall
  - WAN Dest IP Filter
  - LAN MAC Filter
- VLAN
- QoS
- IGMP
- SNMP
- SNTP
- Port
- Tool
- System Logs

LAN Client MAC Address Filter Setup							
No.	Host MAC Address						Deny
1	MAC:	00	:00	:00	:00	:00	<input type="checkbox"/>
2	MAC:	00	:00	:00	:00	:00	<input type="checkbox"/>
3	MAC:	00	:00	:00	:00	:00	<input type="checkbox"/>
4	MAC:	00	:00	:00	:00	:00	<input type="checkbox"/>
5	MAC:	00	:00	:00	:00	:00	<input type="checkbox"/>
6	MAC:	00	:00	:00	:00	:00	<input type="checkbox"/>
7	MAC:	00	:00	:00	:00	:00	<input type="checkbox"/>
8	MAC:	00	:00	:00	:00	:00	<input type="checkbox"/>

Page 1 of 2

This page is used to filter lan client MAC address. Fix the **MAC** with the mac address you want to filter, mark the **Deny** of the entry, then click **Apply**.

## 9. VLAN

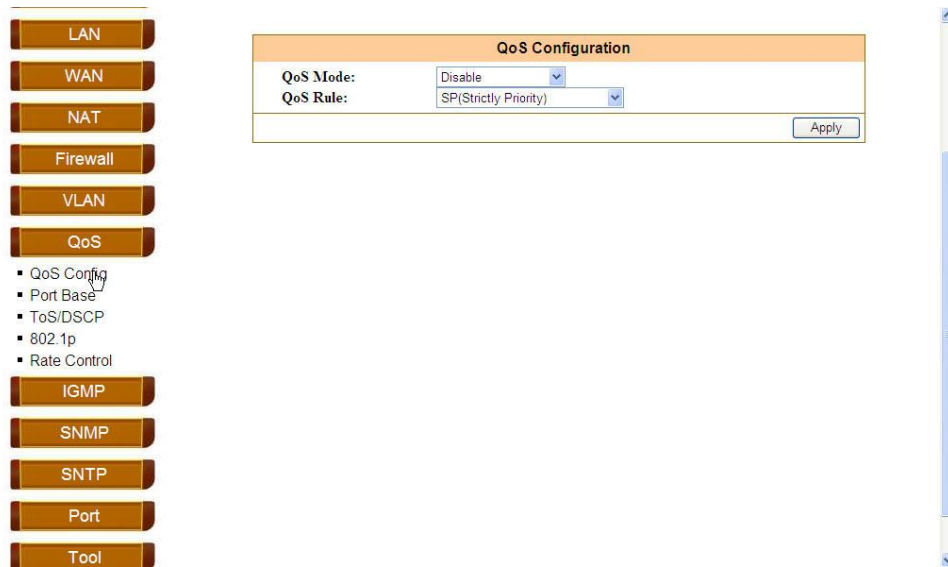
- LAN
- WAN
- NAT
- Firewall
- VLAN
  - Tagged VLAN
- QoS
- IGMP
- SNMP
- SNTP
- Port
- Tool
- System Logs

Tagged VLAN Setting						
Vlan No.	Vlan ID.(1-4095)	Port 1	Port 2	Port 3	Port 4	Port 5
1	0	No	No	No	No	No
2	0	No	No	No	No	No
3	0	No	No	No	No	No
4	0	No	No	No	No	No
5	0	No	No	No	No	No
6	0	No	No	No	No	No
7	0	No	No	No	No	No
8	0	No	No	No	No	No
9	0	No	No	No	No	No
10	0	No	No	No	No	No
11	0	No	No	No	No	No
12	0	No	No	No	No	No
13	0	No	No	No	No	No
14	0	No	No	No	No	No
15	0	No	No	No	No	No
16	0	No	No	No	No	No

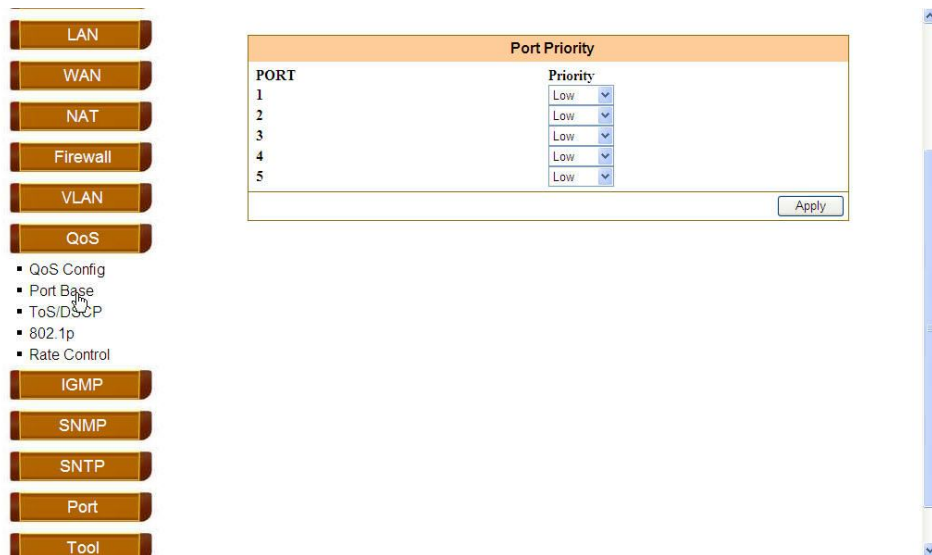
Note: Need apply after system up to submit vlan configuration.

You can set VLAN Tag ID from 1 to 4095 for each port. The max VLAN group number is 16. Set VLAN ID to 0 means disable the VLAN group. After any change of settings, please click **Apply**.

## 10. QOS



This page is used to set **QOS Mode** and **QOS Rule**. Select the mode and rule you want to set, then click **Apply**.



You can configure priority per port on this page, from low level to highest level.

TOS/DSCP	QOS	TOS/DSCP	QOS
DSCP 0	Low	DSCP 1	Low
DSCP 2	Low	DSCP 3	Low
DSCP 4	Low	DSCP 5	Low
DSCP 6	Low	DSCP 7	Low
DSCP 8	Low	DSCP 9	Low
DSCP 10	Low	DSCP 11	Low
DSCP 12	Low	DSCP 13	Low
DSCP 14	Low	DSCP 15	Low
DSCP 16	Low	DSCP 17	Low
DSCP 18	Low	DSCP 19	Low
DSCP 20	Low	DSCP 21	Low
DSCP 22	Low	DSCP 23	Low
DSCP 24	Low	DSCP 25	Low
DSCP 26	Low	DSCP 27	Low
DSCP 28	Low	DSCP 29	Low
DSCP 30	Low	DSCP 31	Low
DSCP 32	Low	DSCP 33	Low
DSCP 34	Low	DSCP 35	Low
DSCP 36	Low	DSCP 37	Low
DSCP 38	Low	DSCP 39	Low
DSCP 40	Low	DSCP 41	Low
DSCP 42	Low	DSCP 43	Low
DSCP 44	Low	DSCP 45	Low

You can configure priority per DSCP value (0 to 64) on this page, from low level to highest level.

Priority Tag	Priority
0	Low
1	Low
2	Low
3	Low
4	Low
5	Low
6	Low
7	Low

You can configure priority per vlan tag on this page, from low level to highest level.

The screenshot shows a navigation menu on the left with buttons for LAN, WAN, NAT, Firewall, VLAN, QoS, IGMP, SNMP, SNTP, Port, and Tool. The QoS section is expanded, showing sub-items: QoS Config, Port Base, ToS/DSCP, 802.1p, and Rate Control. The main content area contains two panels:

**Ingress Rate Control**

Port.	Ingress Rate
1	100 Mbit/s
2	100 Mbit/s
3	100 Mbit/s
4	100 Mbit/s
5	100 Mbit/s

**Egress Queue Rate Control**

Queue.	Rate
1	100 Mbit/s
2	100 Mbit/s
3	100 Mbit/s
4	100 Mbit/s

You can set ingress rate and egress queue rate on this page.

## 11. IGMP

The screenshot shows the navigation menu on the left with buttons for LAN, WAN, NAT, Firewall, VLAN, QoS, IGMP, SNMP, SNTP, Port, Tool, and System Logs. The IGMP section is expanded, showing sub-items: IGMP Config and IGMP Status. The main content area shows the IGMP Config panel:

**IGMP Config**

IGMP:

Fast Leave:

Note: Fast Leave is available when IGMP Snooping or Proxy enabled.

OK

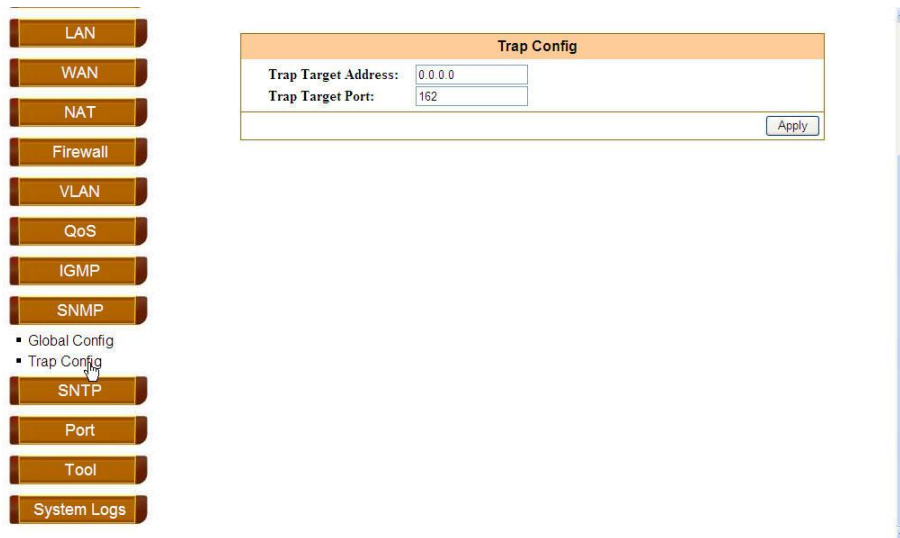
You can choose **IGMP disable/snooping/proxy** on this page. You also can enable fast leave function.

IGMP status will display on this page.

## 12. SNMP

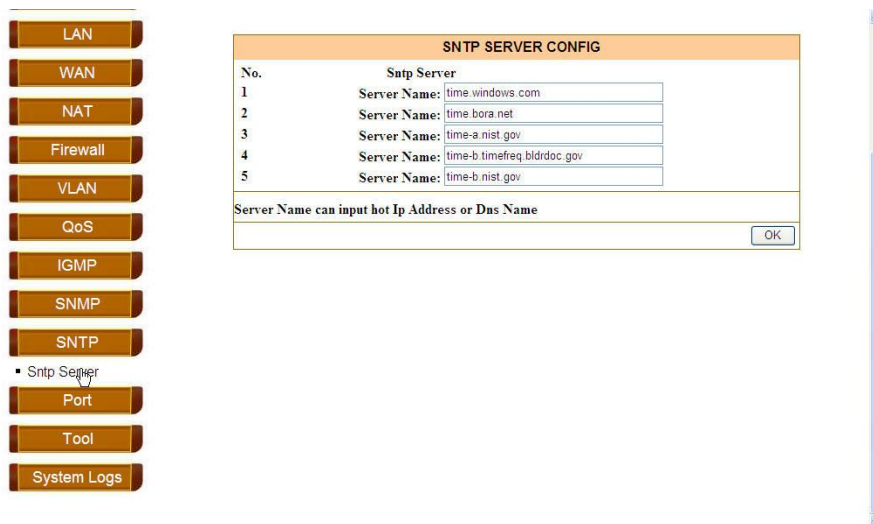
To enable SNMP, select **Enable** option of **SNMP Mode**. Fix other blanks with the corresponding value you want to set, then click **Apply**.

**Note:** The community and port should be consistent with SNMP client.



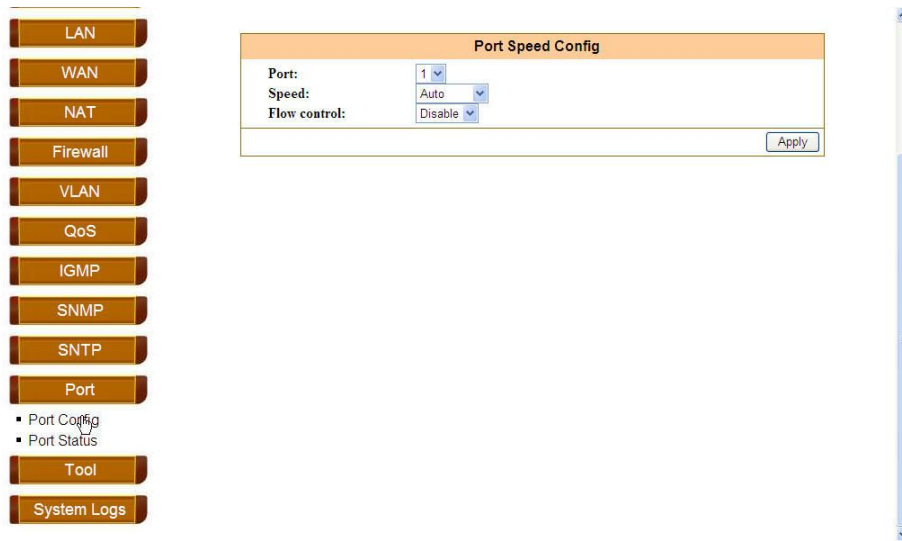
On this page, you can set **Trap Target Address** and **Trap Target Port**.

### 13. SNTP

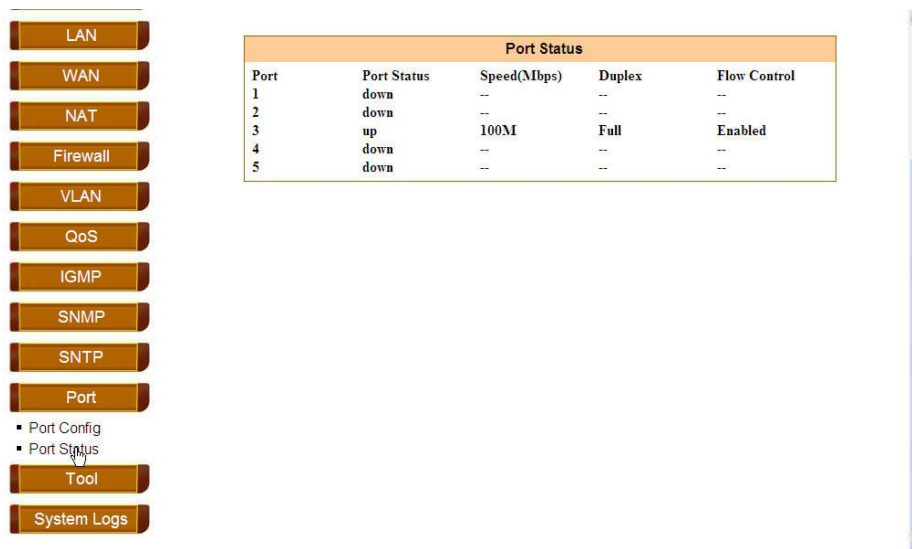


On this page, you can set 5 SNTP server here. Your smart router will update the **Network Time** automatically when internet connection is OK. You can check the **Network Time** on the **Status** page.

### 14. Port Configuration



You can set **Speed** and **Flow control** for each port on this page. Then the status should display on **Port Status** page.



This page shows the link status and speed information of this router.

## 15. System Logs

The screenshot displays a web interface for a network device. On the left, a vertical menu contains buttons for LAN, WAN, NAT, Firewall, VLAN, QoS, IGMP, SNMP, SNTP, Port, Tool, and System Logs. The 'System Logs' button is highlighted, and a mouse cursor is positioned over a small 'Log' icon below it. The main content area is titled 'System Logs' and contains a scrollable list of log entries. Each entry consists of a timestamp and a description of the event. At the bottom of the log area, there are navigation buttons: 'Clean' and 'Refresh'.

Timestamp	Event Description
129: 1900年1月1日 上午 08:11:10	=> Factory Default
130: 1900年1月1日 上午 08:00:00	=> Reboot by:USER
131: 1900年1月1日 上午 08:00:56	=> Factory Default
132: 1900年1月1日 上午 08:00:00	=> Reboot by:USER
133: 1900年1月1日 上午 08:00:17	=> Factory Default
134: 1900年1月1日 上午 08:00:00	=> Reboot by:USER
135: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER
136: 1900年1月1日 上午 08:00:00	=> Reboot by:MONITOR
137: 1900年1月1日 上午 08:00:06	=> Factory Default
138: 1900年1月1日 上午 08:00:00	=> Reboot by:USER
139: 1900年1月1日 上午 08:00:06	=> Factory Default
140: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER
141: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER
142: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER
143: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER
144: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER
145: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER
146: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER
147: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER
148: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER
149: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER
150: 1900年1月1日 上午 08:00:00	=> Reboot by:POWER

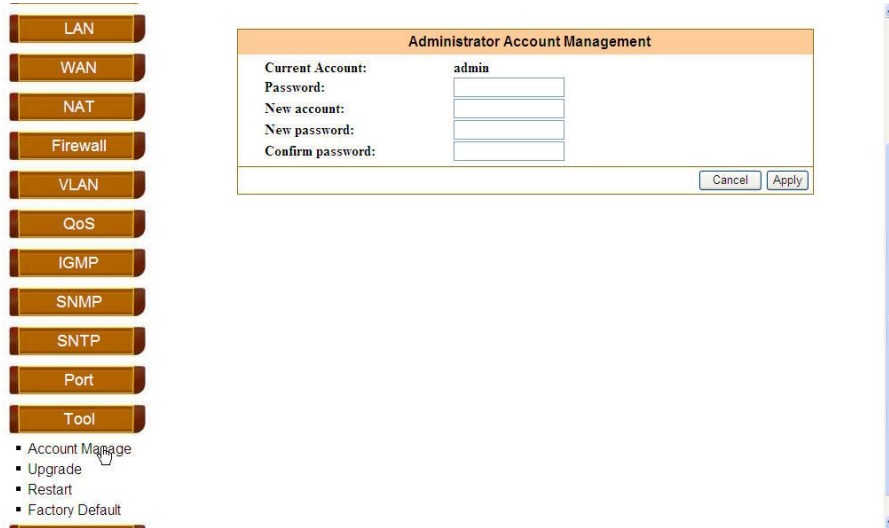
This page shows system logs, such as reboot, clean, factory default setting logs.



## Chapter 5: System Administration

This chapter guides you to managing, upgrading and trouble shooting your Smart Router.

### 16. Tool

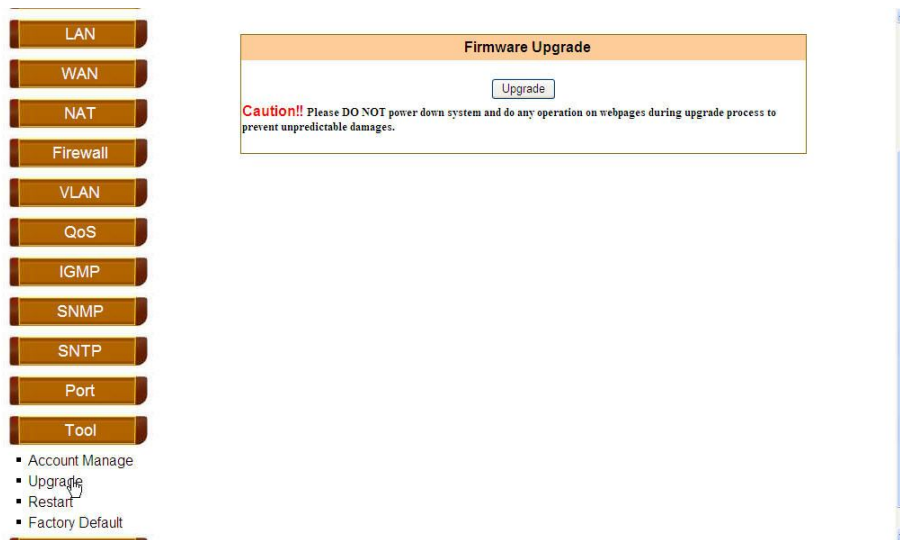


The screenshot shows a sidebar menu on the left with buttons for LAN, WAN, NAT, Firewall, VLAN, QoS, IGMP, SNMP, SNTP, Port, and Tool. The Tool button is selected, and a sub-menu is visible with options: Account Manage, Upgrade, Restart, and Factory Default. The main content area is titled "Administrator Account Management" and contains the following fields:

Current Account:	admin
Password:	<input type="password"/>
New account:	<input type="text"/>
New password:	<input type="password"/>
Confirm password:	<input type="password"/>

At the bottom right of the form are "Cancel" and "Apply" buttons.

Change your account on this page.

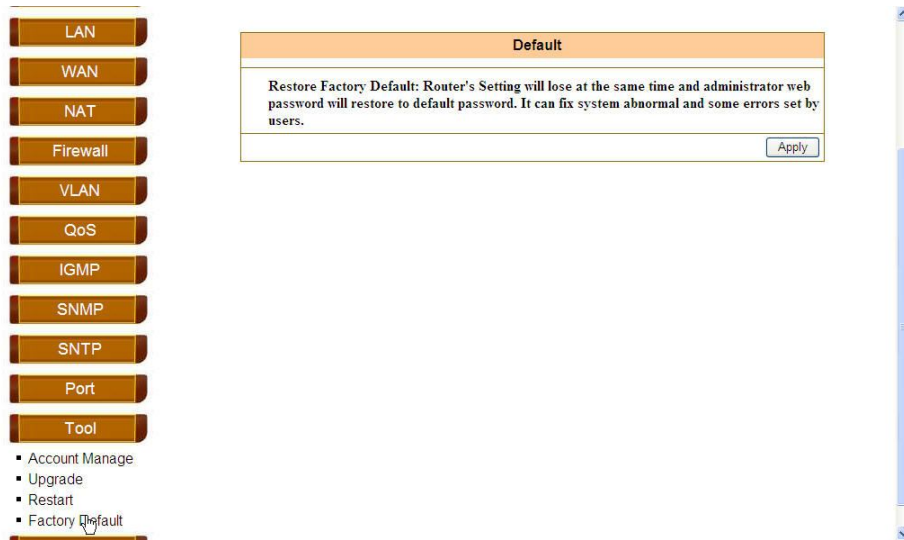


The screenshot shows the same sidebar menu as above, with the Tool button selected and the sub-menu open. The main content area is titled "Firmware Upgrade" and contains an "Upgrade" button. Below the button is a red "Caution!!" message: "Please DO NOT power down system and do any operation on webpages during upgrade process to prevent unpredictable damages."

Upgrade new firmware on this page. Click **Upgrade** and select the firmware to upgrade.



Click **OK** to restart your smart router.



Click **Apply** to restore factory default settings.

Note: You also can restore factory default settings by hardware button. Press the button for 5 seconds and release it. The system will restore factory default settings.

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