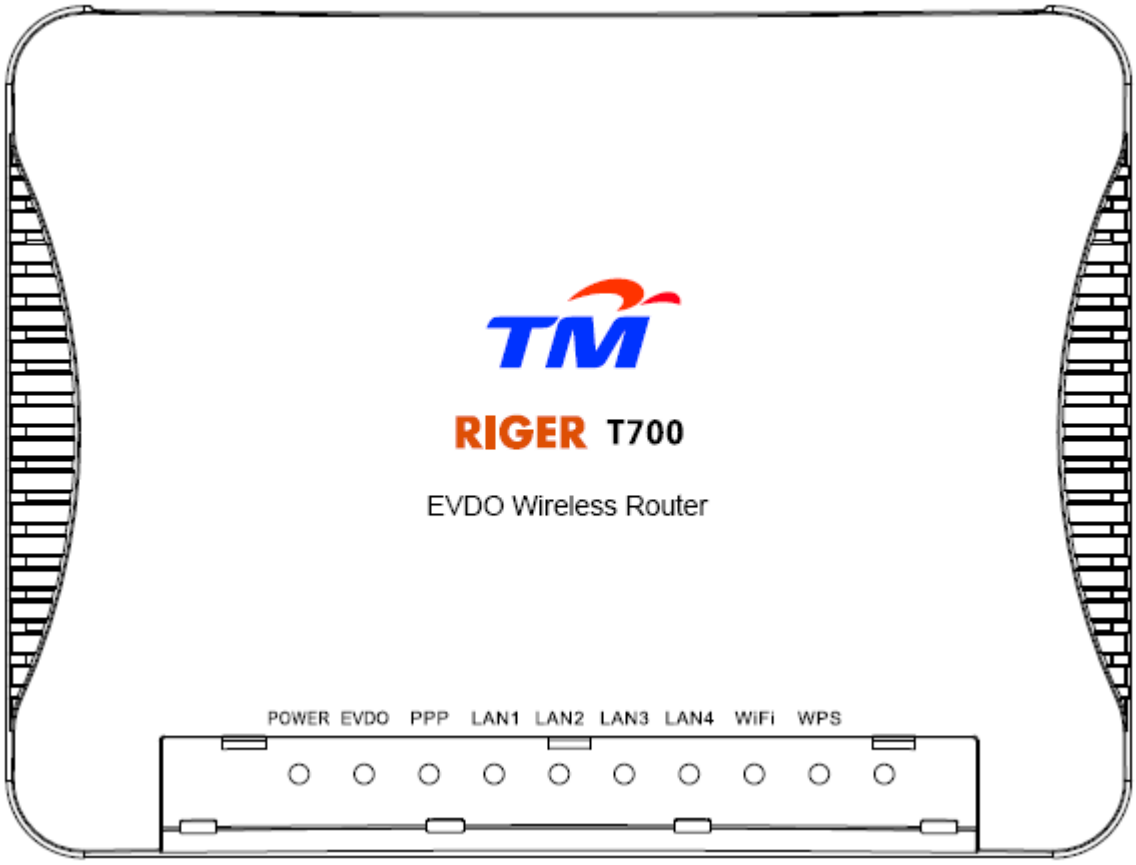
T700

EVDO Wireless Router

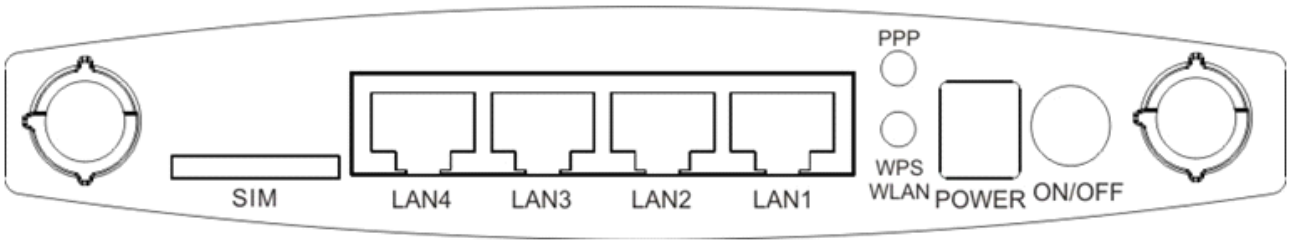
User Manual

V1.1

EVDO Router T700 Terminal Front Side



EVDO Router T700 Terminal back side



CONTENTS

CHAPTER 1 NOTICE

1. Do not disassemble T700 EVDO Wireless Router equipment.
2. Please keep away T700 EVDO Wireless Router away from heating zone.
3. Moisture-proof.
4. Avoid children to swallow or to use without adult's supervision.
5. Avoid direct sunlight.
6. Keep environmental ventilation.
7. Keep plug dry, please unplug if abnormal situation happens (Smoking, abnormal sound or peculiar smell）

CHAPTER 2 Product Introduction

2.1 Product Brief

EVDO Wireless Router T700 is a convenient, flexible, standard SOHO Internet access gateway device， it can connect the internal information-based device to the wireless or wire line networks and provide anticipated application.

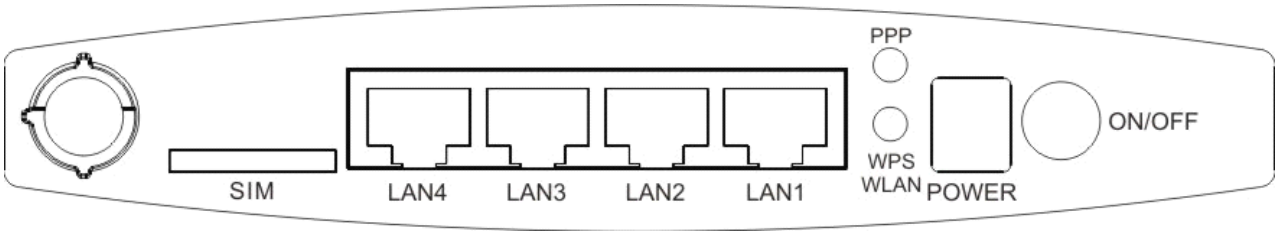
2.2 Features

1. You can configure and monitor the T700 EVDO Wireless Router by computer webpage.
2. T700 EVDO Wireless Router supports auto-dial up, allow you to access internet more convenient.
3. NAT, DHCP function can help you to configure the network and let you enjoy your internet trip.
4. Firewall function can keep your network safe.
5. MAC, URL filter function can customize the internet security policy under your personal requirement.
6. Internal network terminal wireless access function can realize the sharing of internet access.
7. USB 2.0 EVDO wireless internet access.
8. Wireless switch function.

2.3 Packing List

Name	Quantity
T700 EVDO Wireless Router	1
English User Guide	1
Power Transformer	1
Installation Disc	1
Network Cable	2
USB Cable	1
Warranty Card	1

2.4 Panel and Usage



From left to right, the introduction of interface is as follows：

1. SIM：Connect EVDO SIM card.

2. LAN1, LAN2, LAN3, LAN4：Connect PC or other network peripheral equipment.
3. PPP：Dial-up manually to connect the network.
4. WPS (WiFi Protected Setup): Facilitate the achievement of the automatic configuration and wireless connectivity (The terminal device need have the same function).
WLAN：Users can quickly switch on/off the internal wireless network access.
5. POWER：Electric power connection.
6. SWITCH：The electricity switch of T700 EVDO Wireless Router.

2.5 T700 EVDO Wireless Router Hardware Requirement

Hardware Requirement：

- Processor：Pentium® MMX 233
- Minimum Memory：64MB.
- Minimum hard disc remaining space: 20MB.

Operation System：

- Windows® Me
- Windows® 98 SE
- Windows® 2000
- Windows® XP
- Windows® Vista
- Windows® 7
- Linux

2.6 Usage Explanation

Users can finish the advanced function configuration under the instruction of User's guide，the main functions are listed as below:

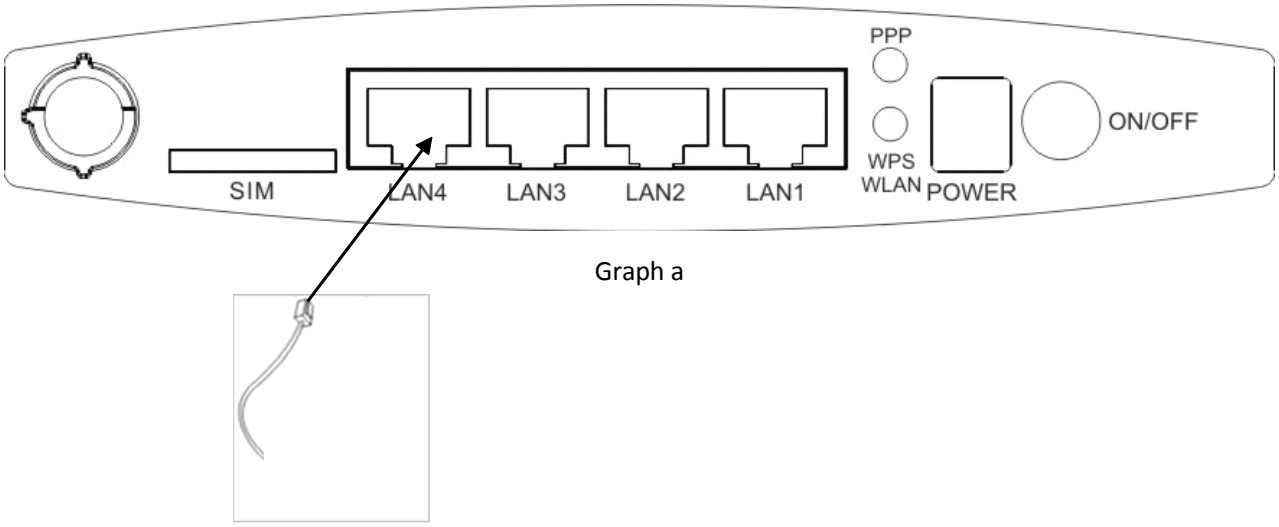
- ✓operation mode
- ✓The setting of network including WAN, LAN, DHCP terminal list, VPN Pass-through, advanced router configuration, QoS quality service.
- ✓Wireless network setting including normal setting, advanced setting, security setting, WPS, terminal list.
- ✓Firewall including MAC/IP/Port filter, Virtual Server, DMZ, System security setting.
- ✓System Management including user's management, software upgrade, setting management, status, statistical data, system instruction, system record, EVDO status.

CHAPTER 3 Installation

3.1 Hardware Connection

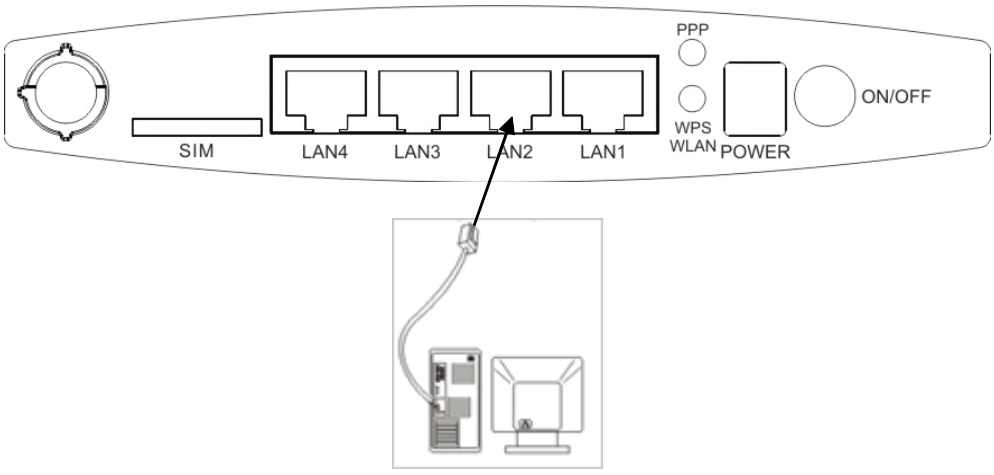
Explanation：

1. The Sketch map between Cable broadband user's access line and Local Router.



Graph a

2. By using the complimentary cable to realize the connection between LAN1-LAN3 of T700 EVDO Wireless Router and the network card of terminal device. Look at graph b.



Graph b

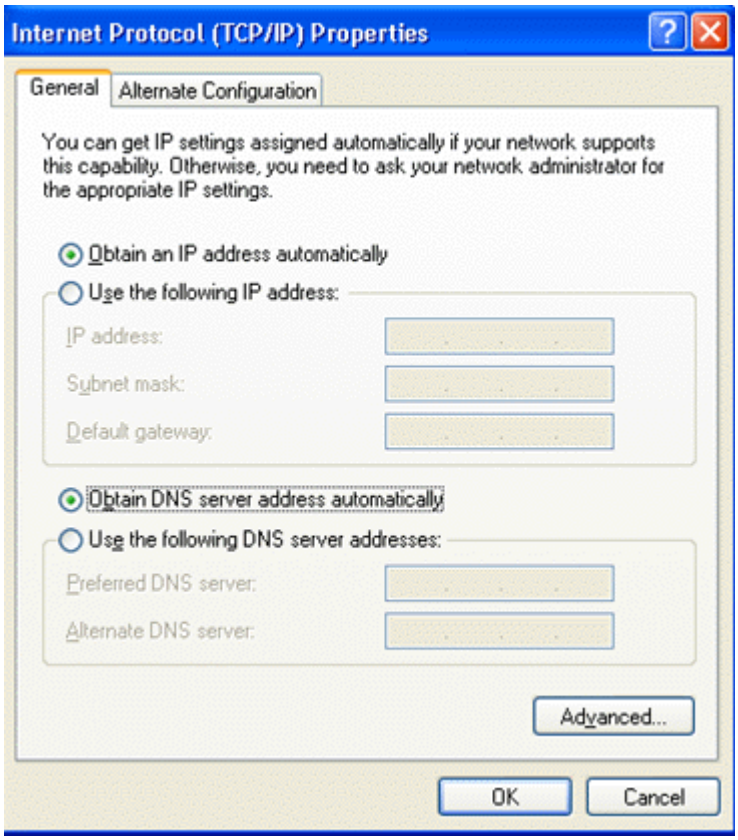
3.2 Default Setting

The login id of administrator is tmadmin， password is tmadmin.

Wireless SSID is StreamyxMobility_xxxx， no password.

3.3 Computer Setting

The default setting of IP is：192.168.1.1, subnet mask：255.255.255.0. You can configure the internet setting by WEB browser or use T700 EVDO Wireless Router as DNS server. Before the setting, you only need to set the properties of TCP/IP as "automatically obtain IP address and DNS address", look at graph 3.1



Graph3.1

CHAPTER 4 Setting Preparation

4.1 Preparation before Setting

1. Maintain the connection of hardware, refer to 3.1
2. Make sure the setting of PC is right, refer to 3.3

4.2 Login

1. Open the browser, input **http://192.168.1.1**, press enter and then the login interface pop up, look at graph 4.1.
2. Input"**Modem Username**"（**"tmuser"**）,"**Modem Password**"（**"tmuser"**）, click "Login" and enter the admin page,look at graph 4.2.
3. Input"**Modem Username**"（**"tmadmin"**）,"**Modem Password**"（**"tmadmin"**）, click "Login" and enter the admin page,look at graph 4.3.

Graph4.1

Graph 4.2

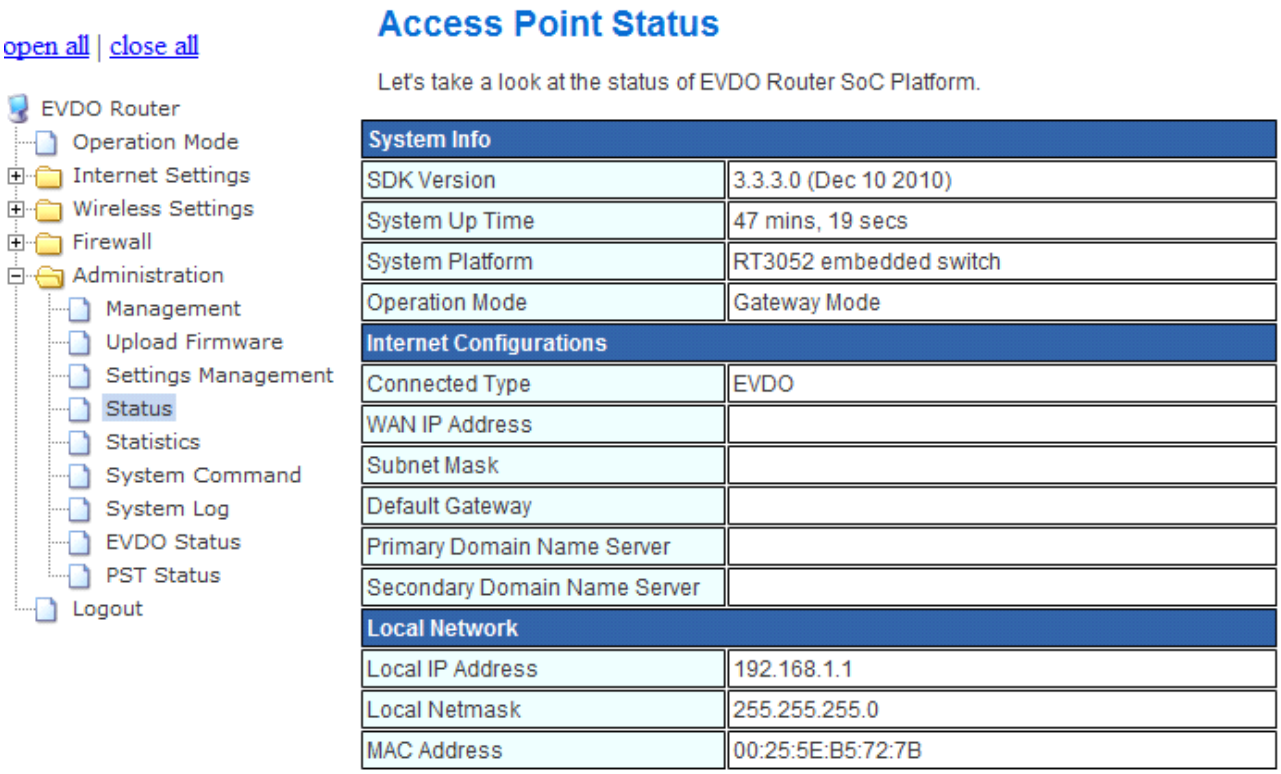
Graph 4.3

Web Smart config - TM EVDO:

Simple configuration web for tmuser, includes User Account and Wireless Configuration.

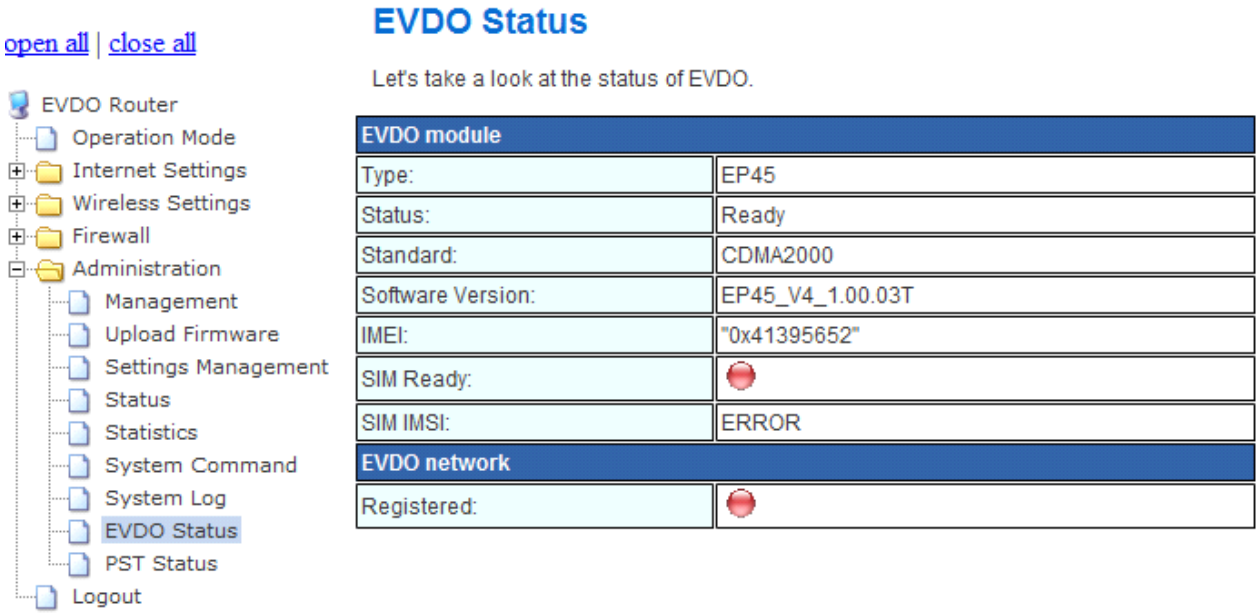
4.3 Check Status Info

Click“Administration->Status”Menu， check the normal info of device, look at graph 4.4,



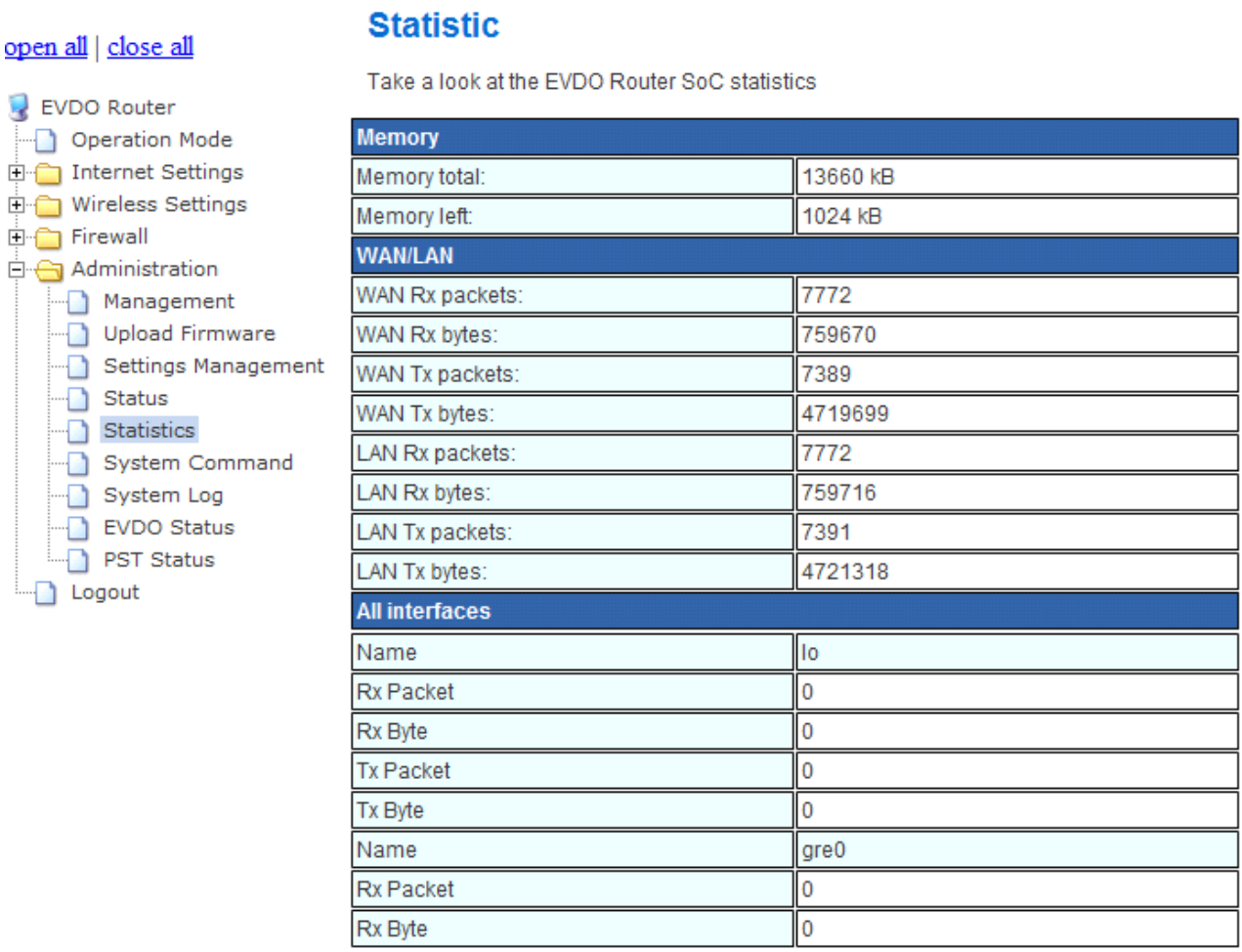
Graph 4.4

Click“Administration->EVDO Status”Menu， check the EVDO status of EVDO internet module, look at graph 4.5



Graph4.5

Click“Administration->Statistics”Menu， check the memory status and data traffic, look at graph4.6


open all | close all
EVDO Router
Operation Mode
Internet Settings
Wireless Settings
Firewall
Administration
Management
Upload Firmware
Settings Management
Status
Statistics
System Command
System Log
EVDO Status
PST Status
Logout
Statistic
Take a look at the EVDO Router SoC statistics
Memory
Memory total: 13660 kB
Memory left: 1024 kB
WAN/LAN
WAN Rx packets: 7772
WAN Rx bytes: 759670
WAN Tx packets: 7389
WAN Tx bytes: 4719699
LAN Rx packets: 7772
LAN Rx bytes: 759716
LAN Tx packets: 7391
LAN Tx bytes: 4721318
All interfaces
Name lo
Rx Packet 0
Rx Byte 0
Tx Packet 0
Tx Byte 0
Name gre0
Rx Packet 0
Rx Byte 0

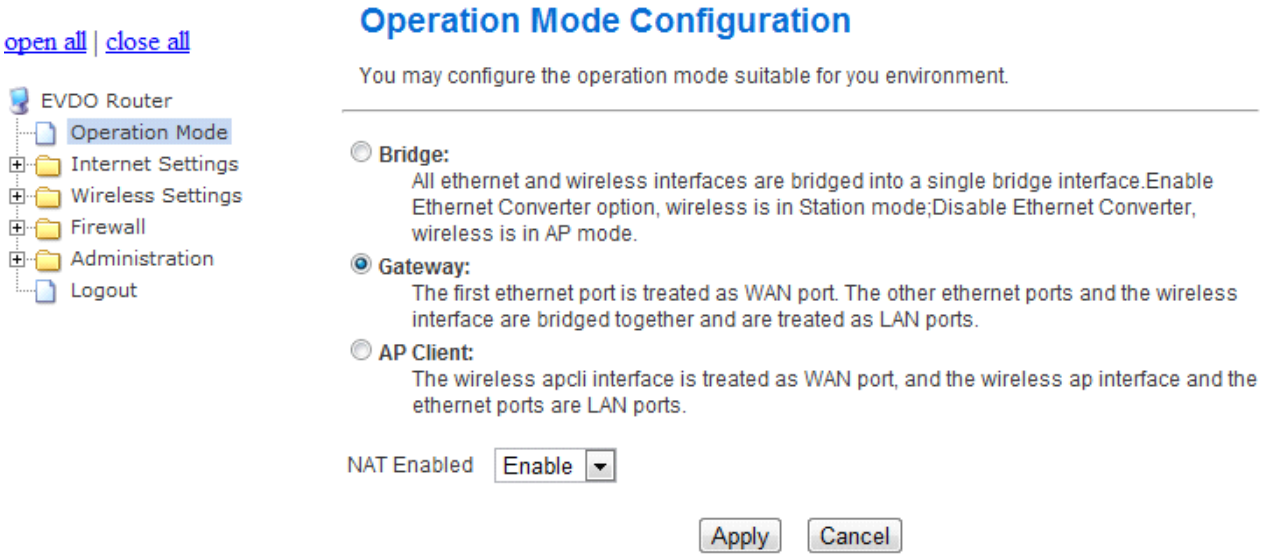
Graph 4.6

CHAPTER 5 Network Setting

Note： All the setting will be effective only after click “Apply”.

5.1 The Setting of Operation Mode

After login (refer to 4.2，click menu“Operation Mode” and enter the broadband setting page, look at graph 5.1.



Graph 5.1

Bridge: All ethernet and wireless interface are bridged into a single bridge interface br0.

Gateway: The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interfaces are bridged together and are treated as LAN ports. In EVDO mode, PORT 0 is Lan port. Please set NAT Enabled enable.

AP Client: The wireless apcli interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports. Please set NAT Enabled enable.

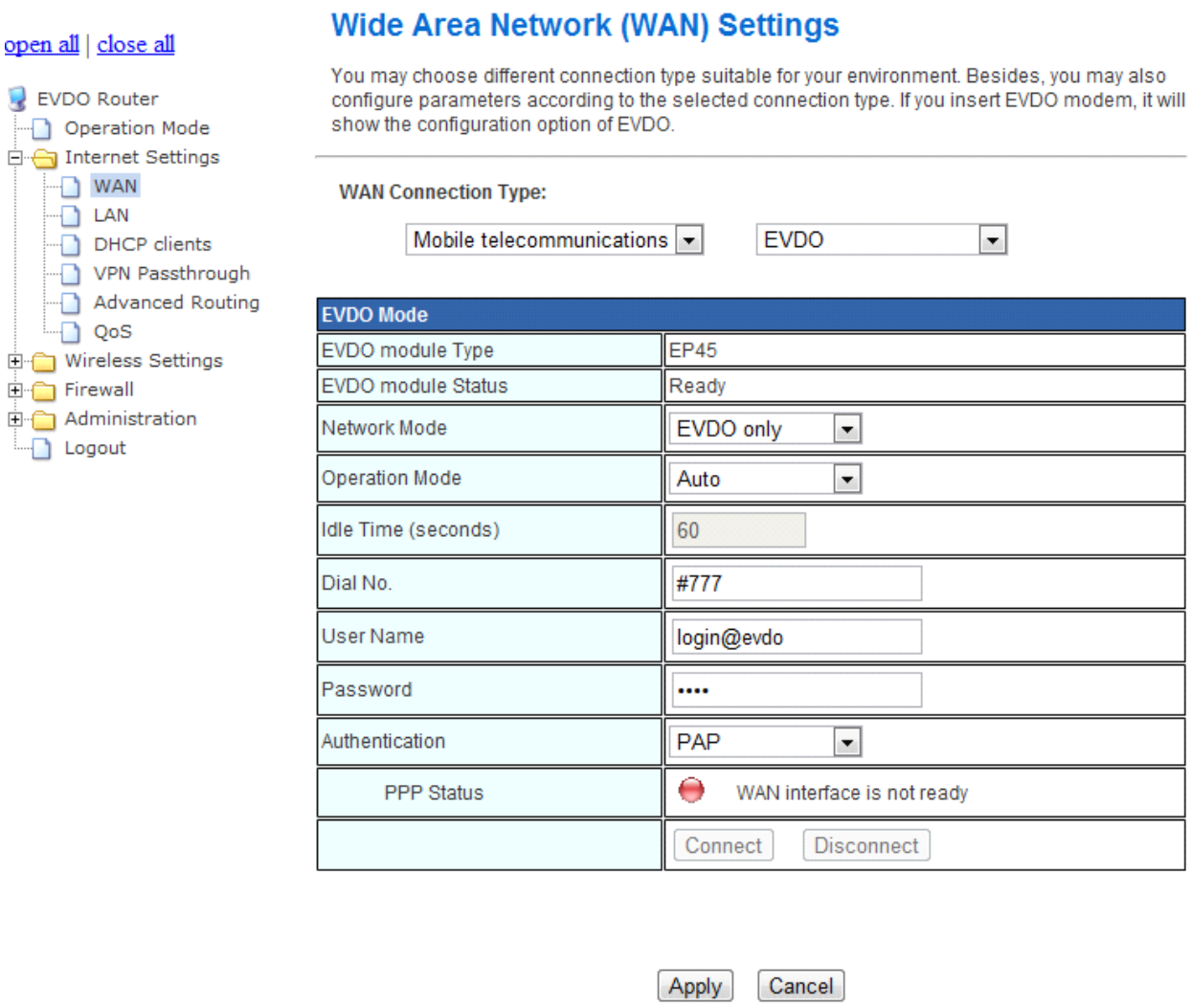
5.2 WAN Setting

The WAN online mode can select mobile communication network or Ethernet.

Notice: In Ethernet mode, PORT 0 is Wan port;

In EVDO mode, PORT 0 is Lan port;

5.2.1 Mobile Telecommunication Network Connection Setting



Graph 5.2

Network Selection： “Hybrid”means the EVDO Signal is the first choice, otherwise you can also choose CDMA 1x network,

“EVDO Only”means selecting EVDO network only,

“CDMA 1x Only”means selecting CDMA 1x network only,

Connect method：“Auto” means the system will auto dialup after system restart.

“Manual”means the dialup will be activated only by click “connect” button.

“On Demand”means the dial up will be activated after data follow is generated.

“latency time of Auto network disconnection”： in the “On Demand”mode, setting the maximal to no flow time, the PPP will be broken after the configured no flow time.

Access Point name: The APN need to be configured if TD-SCDMA or WCDMA is in use, The APN needn’t to be configured if CDMA2000 is in use.

Dialup Number: The EVDO network dialup number in PPP method. Input local telecom operators’ number. For example, China Mobile dial up number：*98*1#；China Telecom dial up number：#777；China Unicom dial up number：*99#；

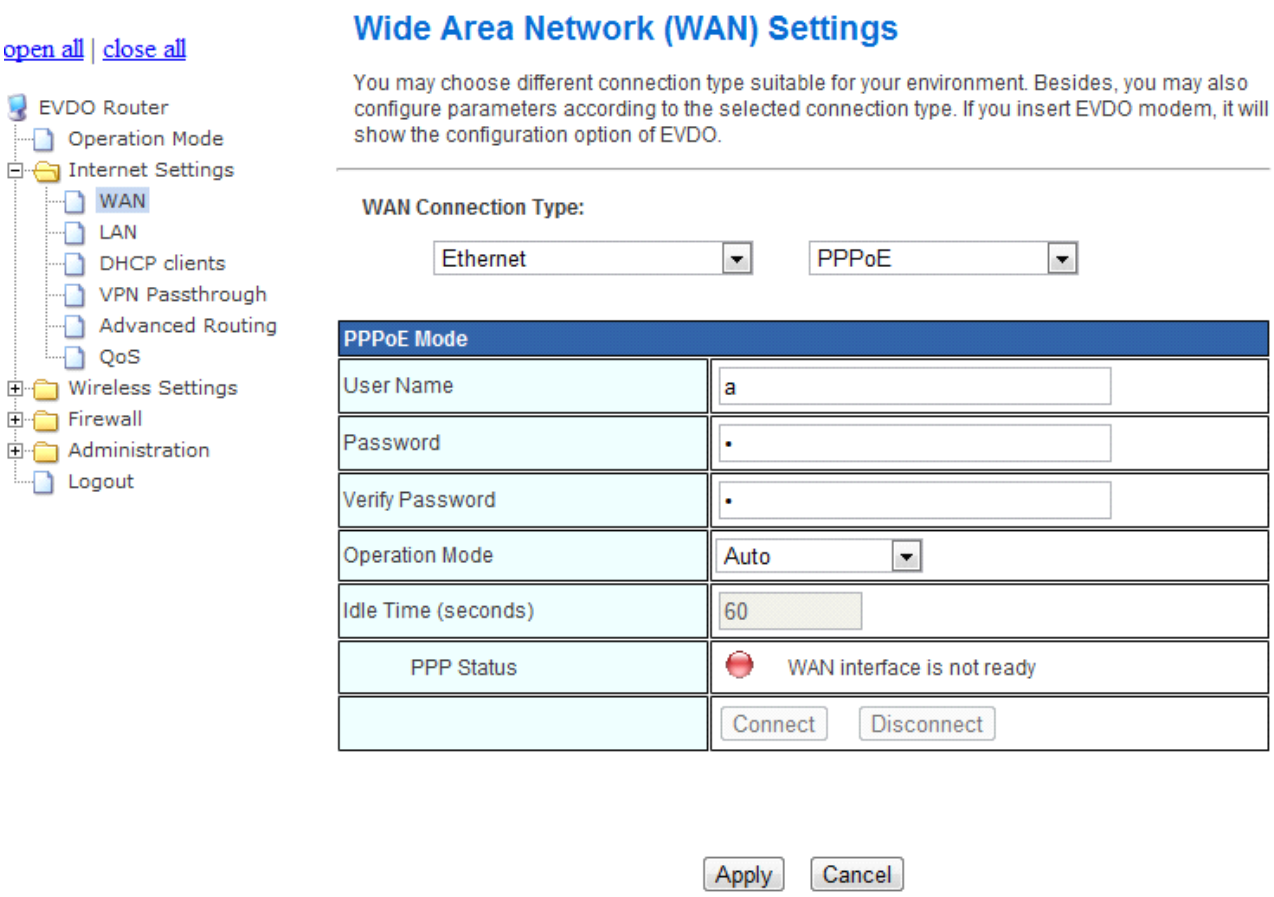
User name and password ： For example, in China Telecom CDMA2000, user name and password is ：

ctnet@mycdma.cn and vnet.mobi； In the other standard, please configure by case.

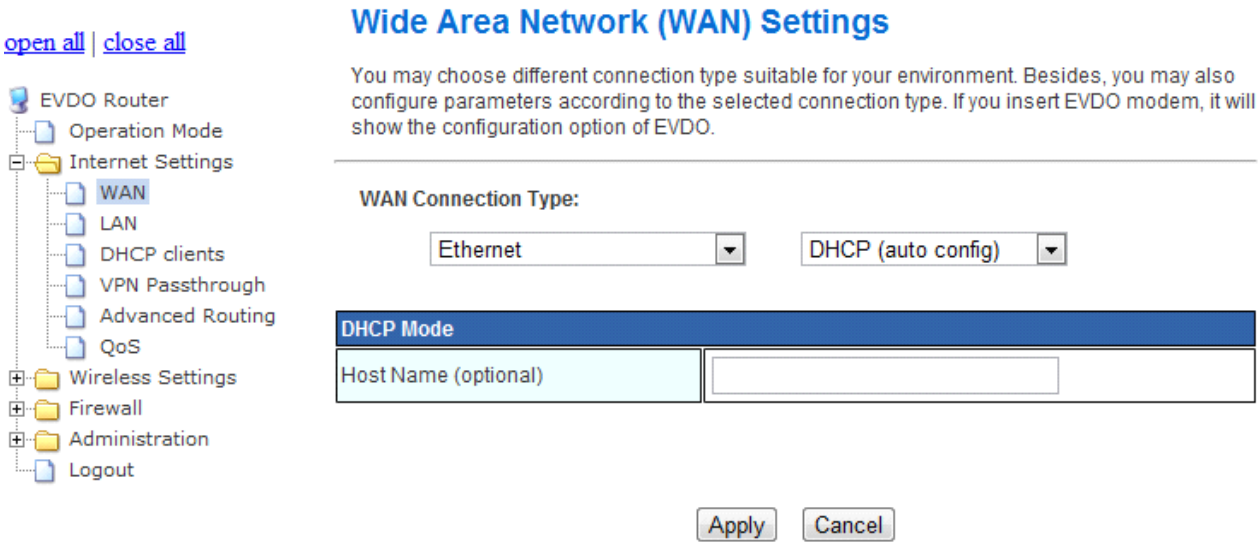
PPP Status： Display the current PPP status, online time and the PPP disconnection reason.

5.2.2 Ethernet Connection Setting

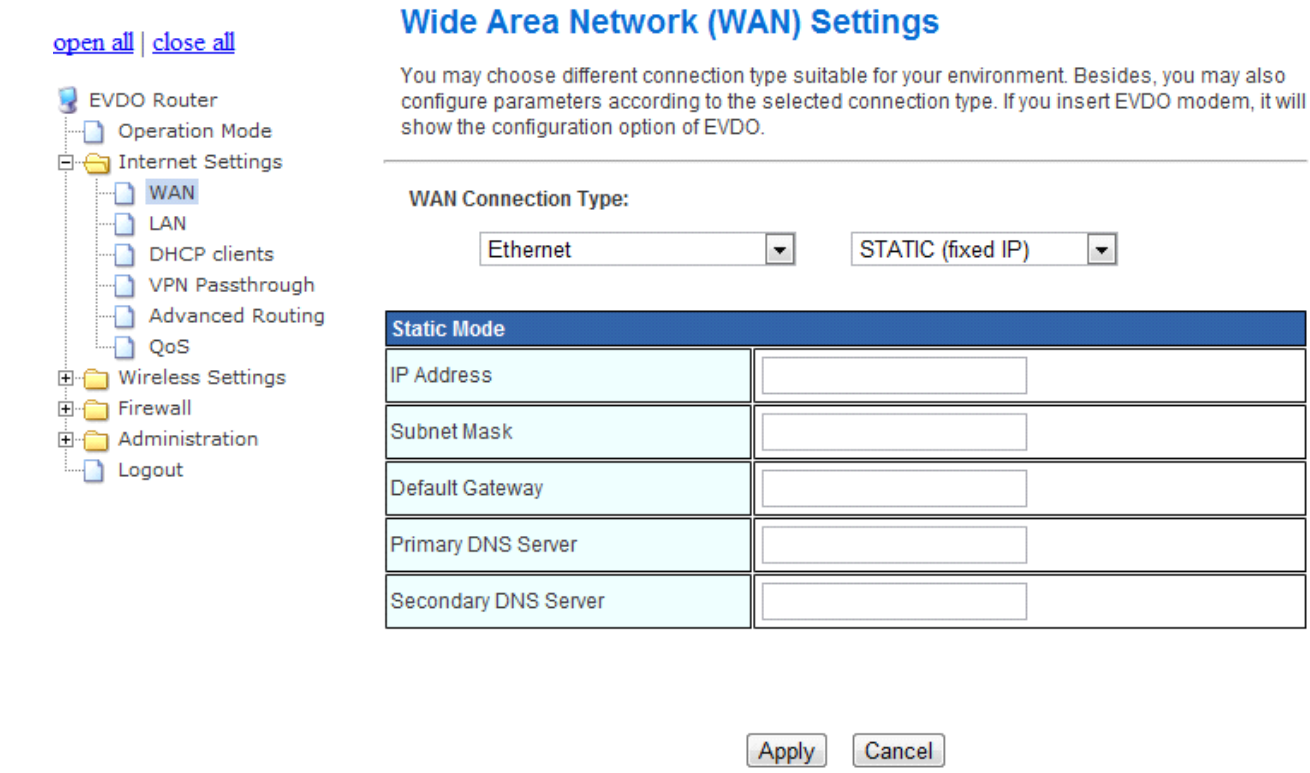
Ethernet connection mode: PPPoE、 DHCP (auto config), Static (fixed IP), L2TP, PPTP.



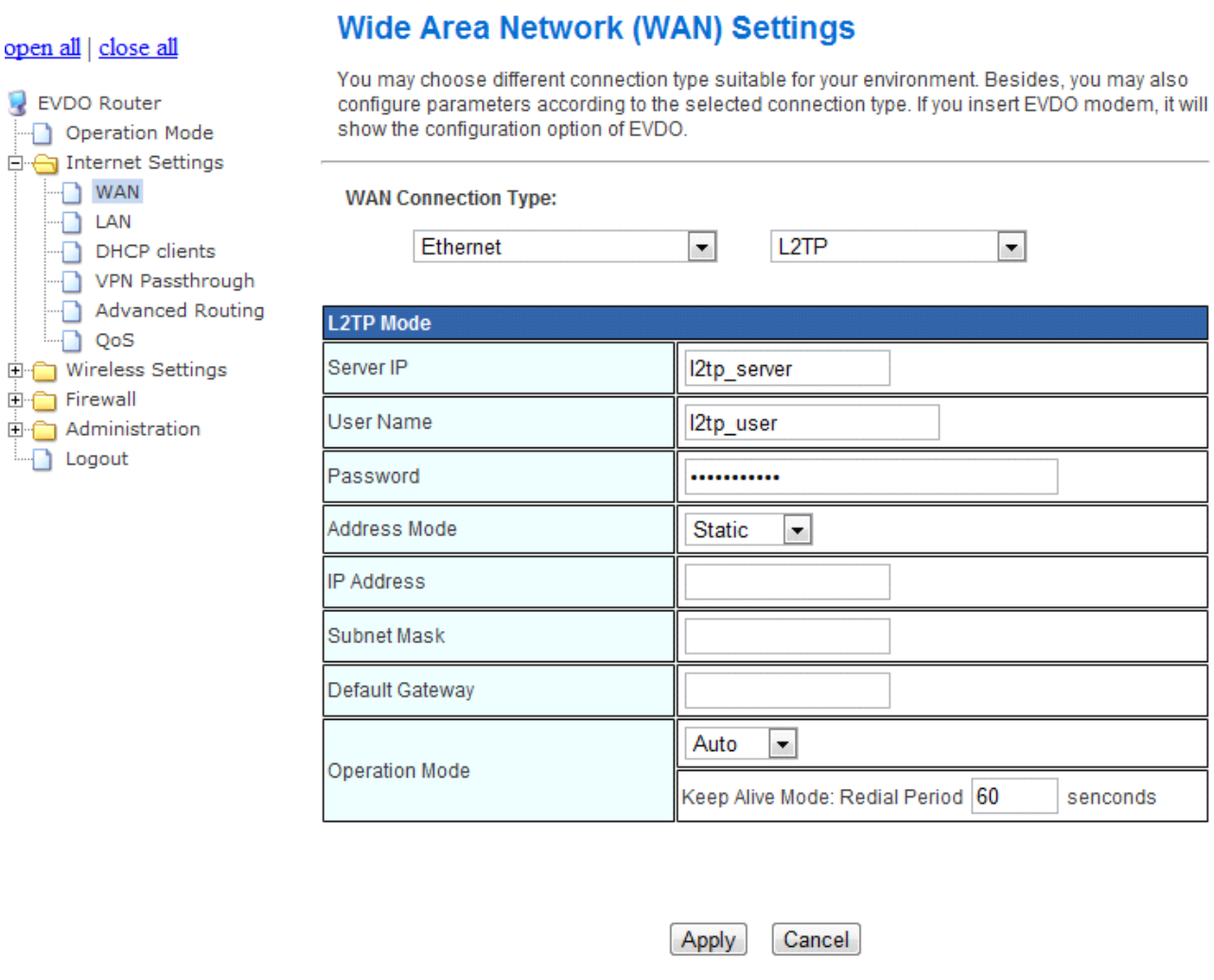
Graph5.3



Graph5.4


open all | close all
EVDO Router
Operation Mode
Internet Settings
WAN
LAN
DHCP clients
VPN Passthrough
Advanced Routing
QoS
Wireless Settings
Firewall
Administration
Logout
Wide Area Network (WAN) Settings
You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type. If you insert EVDO modem, it will show the configuration option of EVDO.
WAN Connection Type:
Ethernet
STATIC (fixed IP)
Static Mode
IP Address
Subnet Mask
Default Gateway
Primary DNS Server
Secondary DNS Server
Apply
Cancel

Graph 5.5


open all | close all
EVDO Router
Operation Mode
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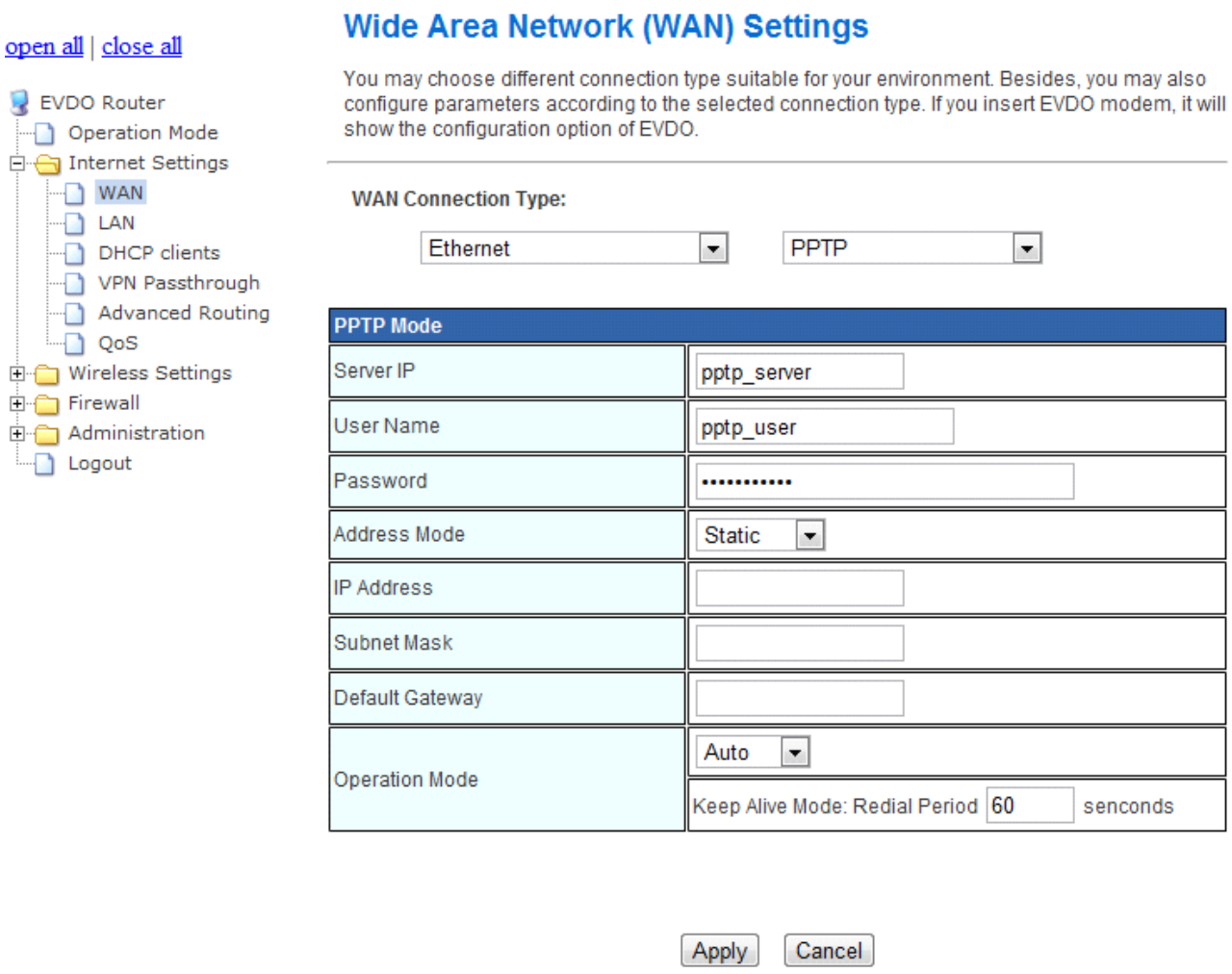
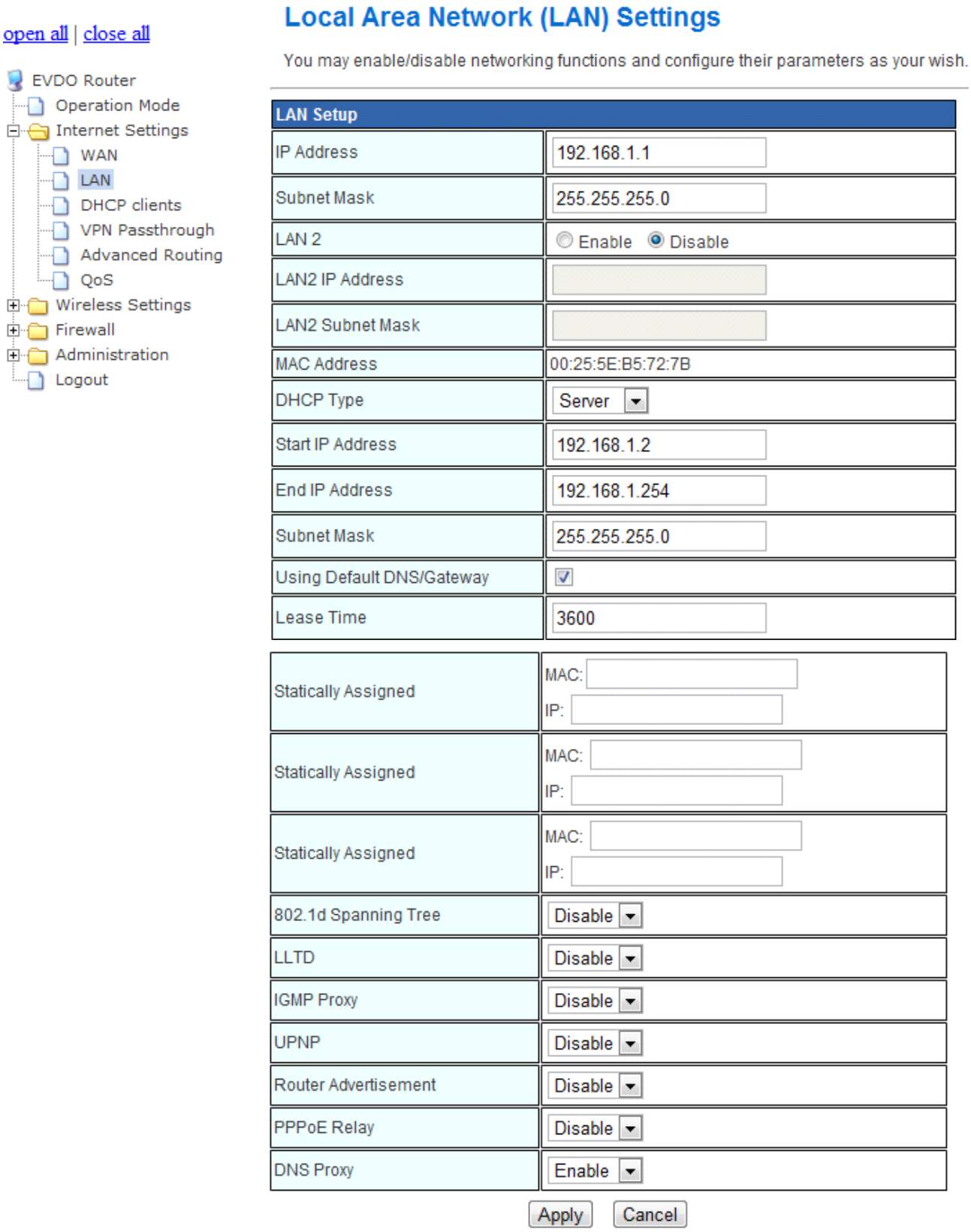
Wireless Settings
Firewall
Administration
Logout
Wide Area Network (WAN) Settings
You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type. If you insert EVDO modem, it will show the configuration option of EVDO.
WAN Connection Type:
Ethernet
L2TP
L2TP Mode
Server IP
l2tp_server
User Name
l2tp_user
Password
Address Mode
Static
IP Address
Subnet Mask
Default Gateway
Operation Mode
Auto
Keep Alive Mode: Redial Period
60
senconds
Apply
Cancel

Graph 5.6



Graph 5.7

5.3 LAN Setting



Graph 5.8

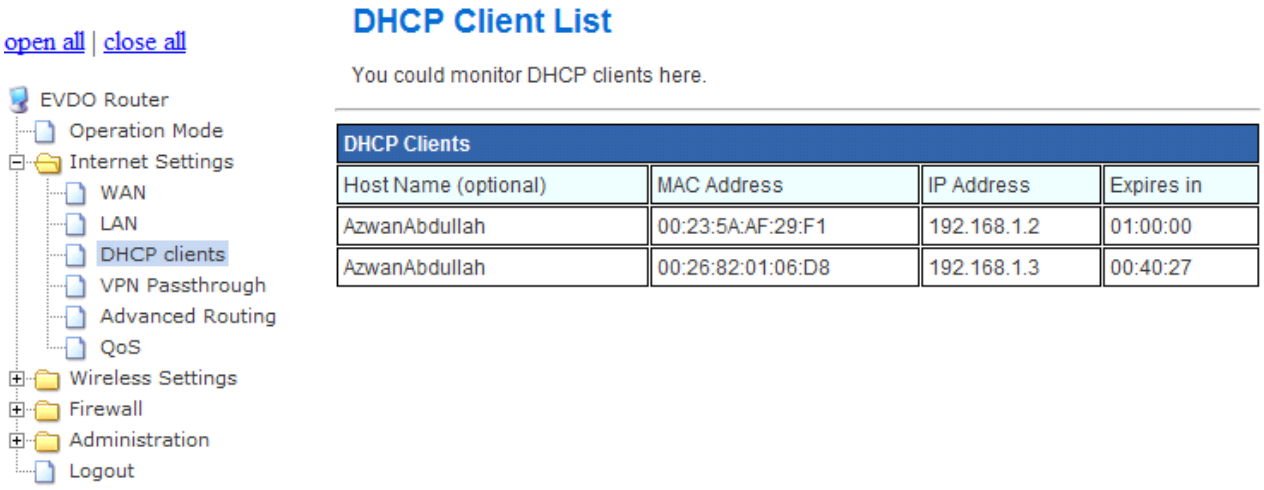
DHCP Setting： Start DHCP service,configure Start IP address, End IP address, Subnet mask, Lease time.

DNS Setting： Suggest to select “use default DNS Server/Gateway”and make ppp to search DNS Server and

Gateway IP automatically. You can also choose setting up the DNS server and default gateway manually.
802.1d Spanning tree：Avoid the bridging loop and maintain the redundant pathway.
LLTD：Discovery the link layer topology，get the equipment location in network topology.
IGMP Proxy：Intercept the IGMP requirement of terminal client and process the requirement，then send the processed requirement to up layer router.
UPnP：Universal plug-and-play，a right-peer network connecting system that applying in PC and intelligent device.
Router Advertisement：Router advertisement.
PPPoE relay：PPPOE forward.
DNS Proxy：DNS forward block.

5.4 DHCP Clients

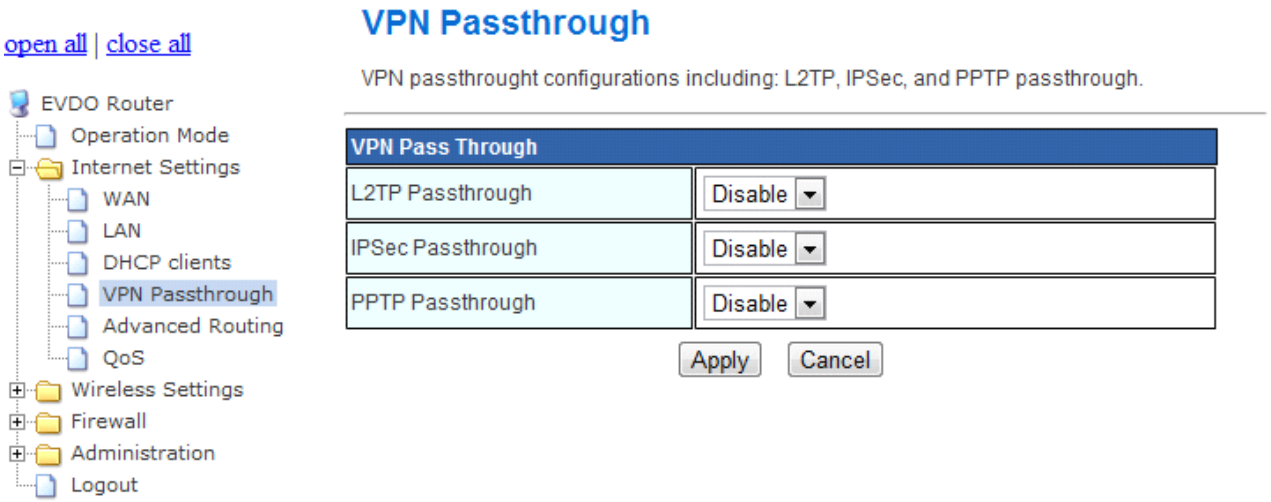
The information of the host that connect to DHCP.



GRAPH 5.9

5.5 VPN Pass-through

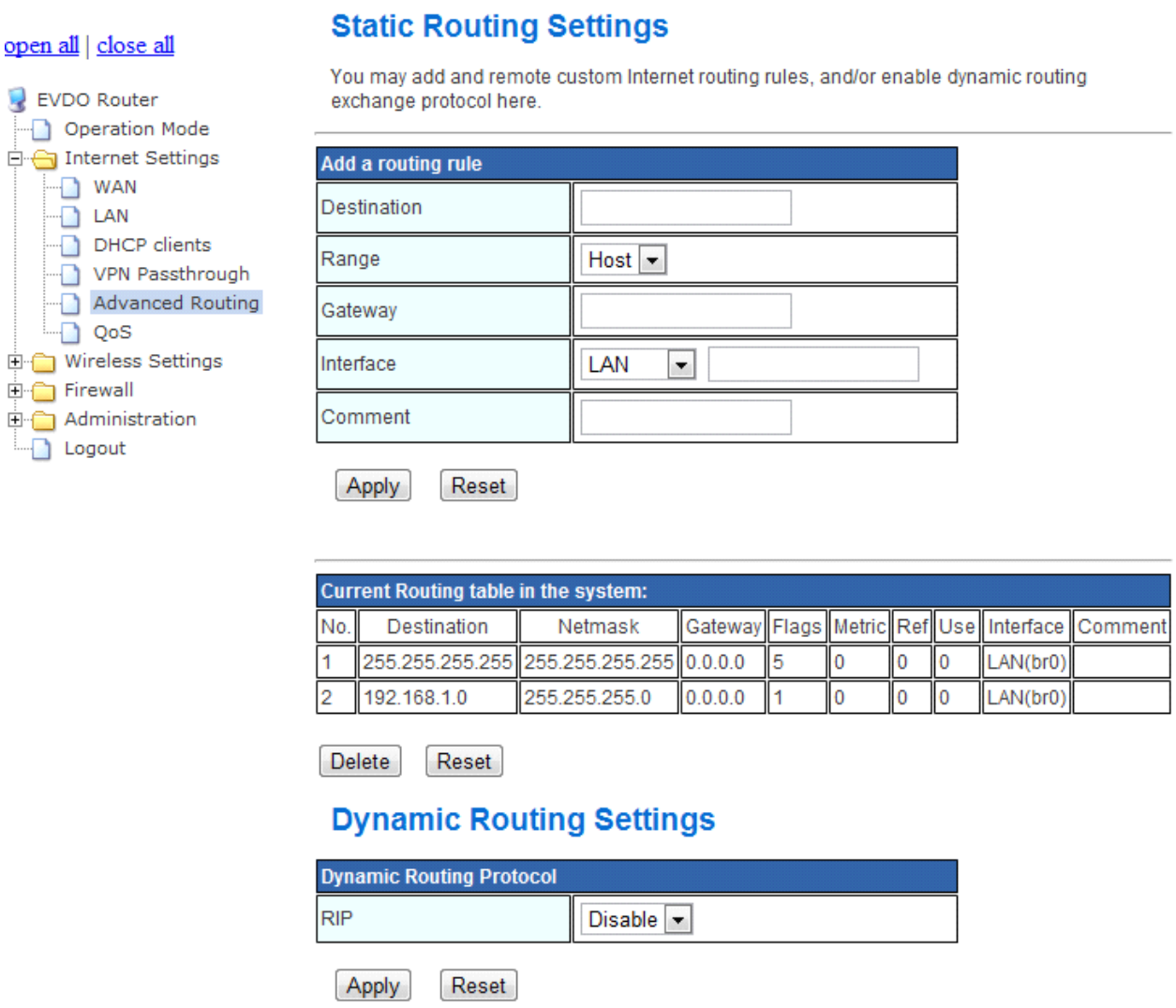
Users can start the NAT Pass-through of IPSec, PPTP and L2TP protocols.



Graph 5.10

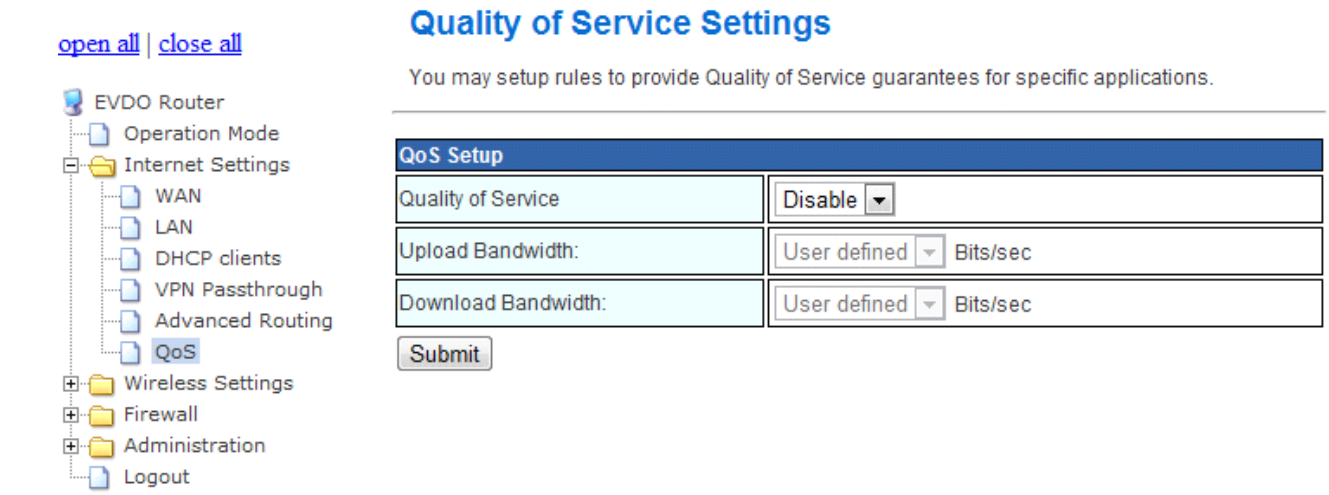
5.6 Advanced Routing Setting

Users can set the static routing rule and the dynamic routing protocol, check the current setting rule. The dynamic route can use RIP protocol.



GRAPH 5.11

5.7 QoS Quality of Service



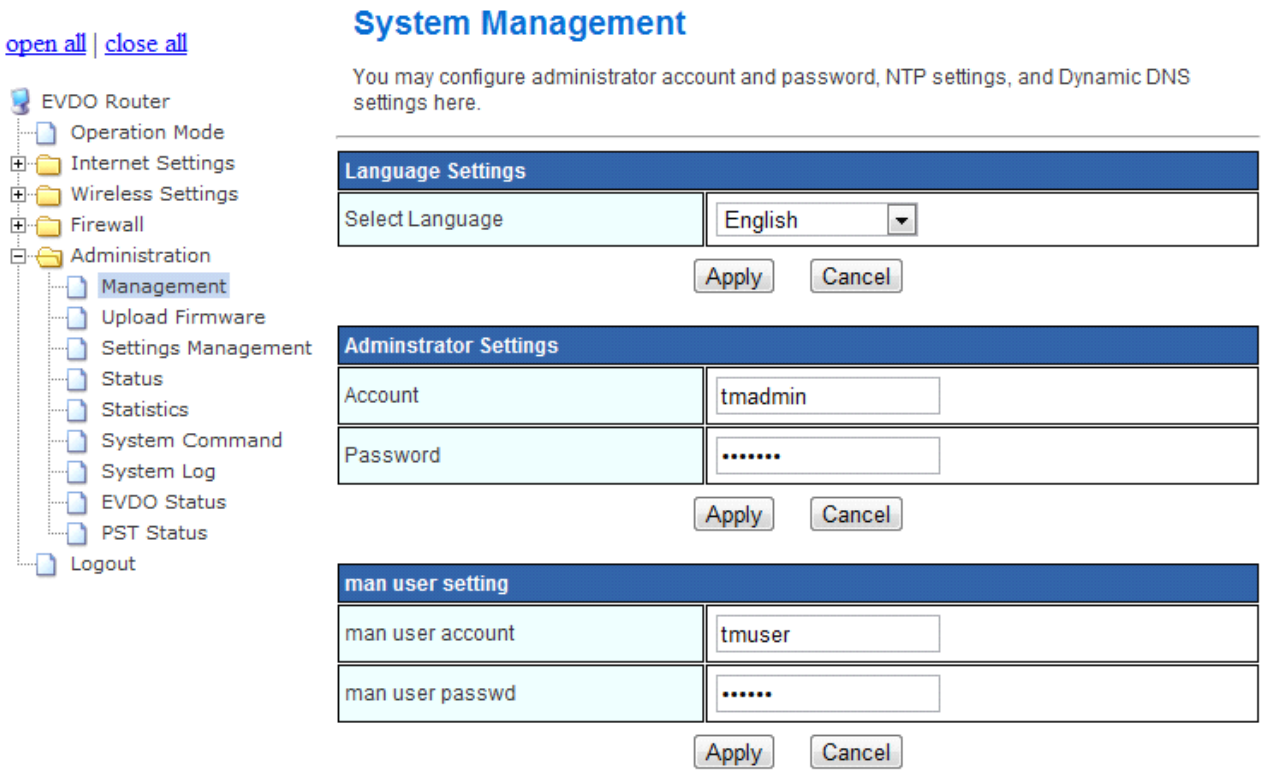
Graph 5.12

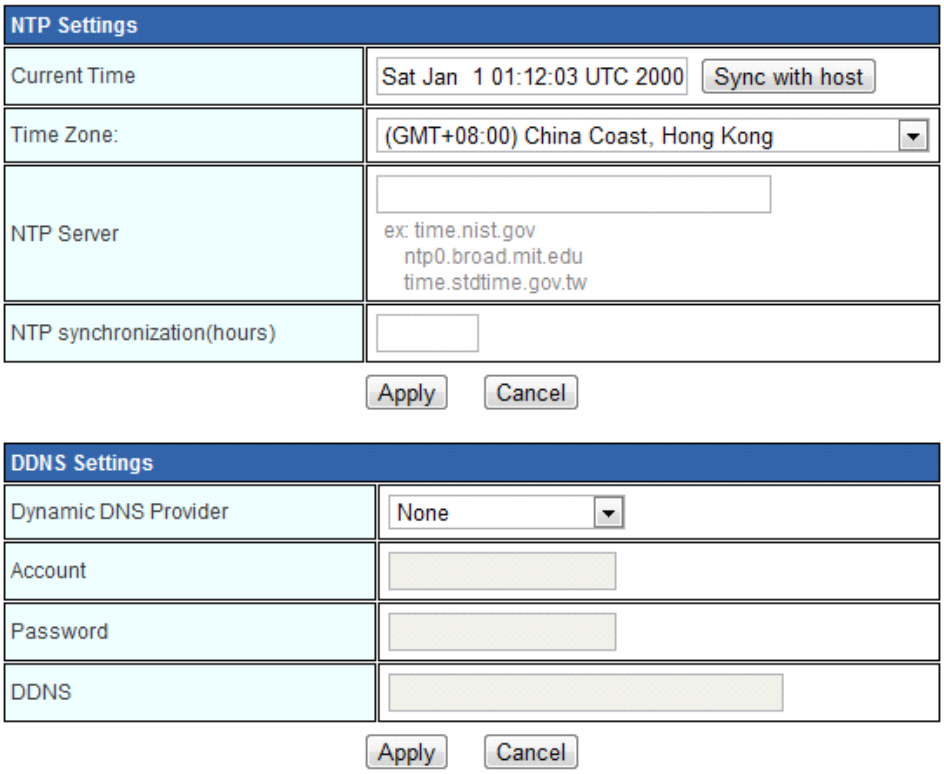
After Set up “select”QoS，set up the upload bandwidth and download bandwidth, click “submit”，then the QoS group will be displayed. User can load system by default or creat new QoS rule.

5.8 Time Management and Dynamic Domain Setting

User can select synchronization with the host or input the time server address.，select the correct time. Look at Graph 5.13.

Dynamic domain service can provide the setting of DNS server that can provide the variable address.




NTP Settings
Current Time
Sat Jan 1 01:12:03 UTC 2000
Sync with host
Time Zone:
(GMT+08:00) China Coast, Hong Kong
NTP Server
ex: time.nist.gov
ntp0.broad.mit.edu
time.stdtime.gov.tw
NTP synchronization(hours)
Apply
Cancel
DDNS Settings
Dynamic DNS Provider
None
Account
Password
DDNS
Apply
Cancel

Graph 5.13

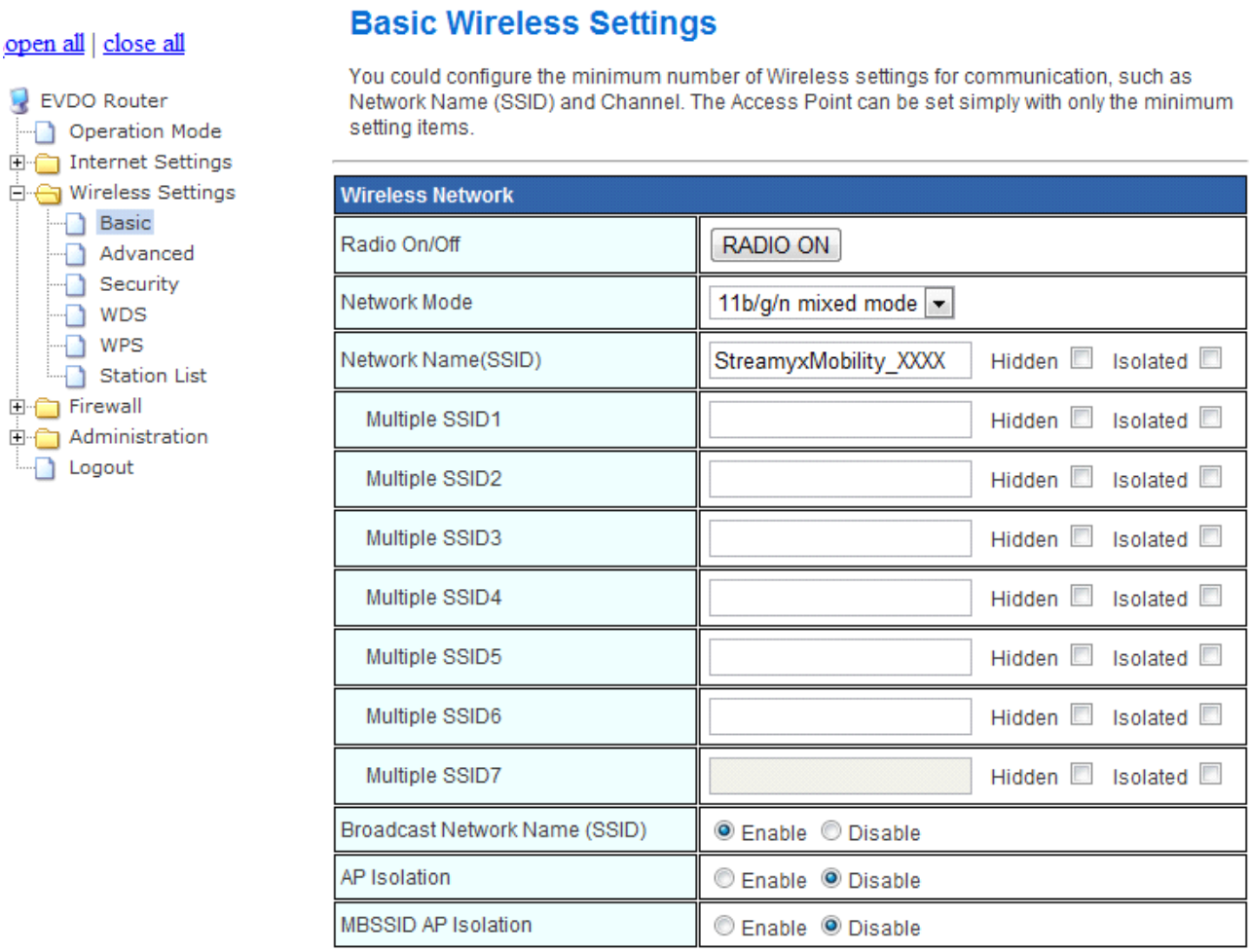
CHAPTER 6 Wireless Network setting

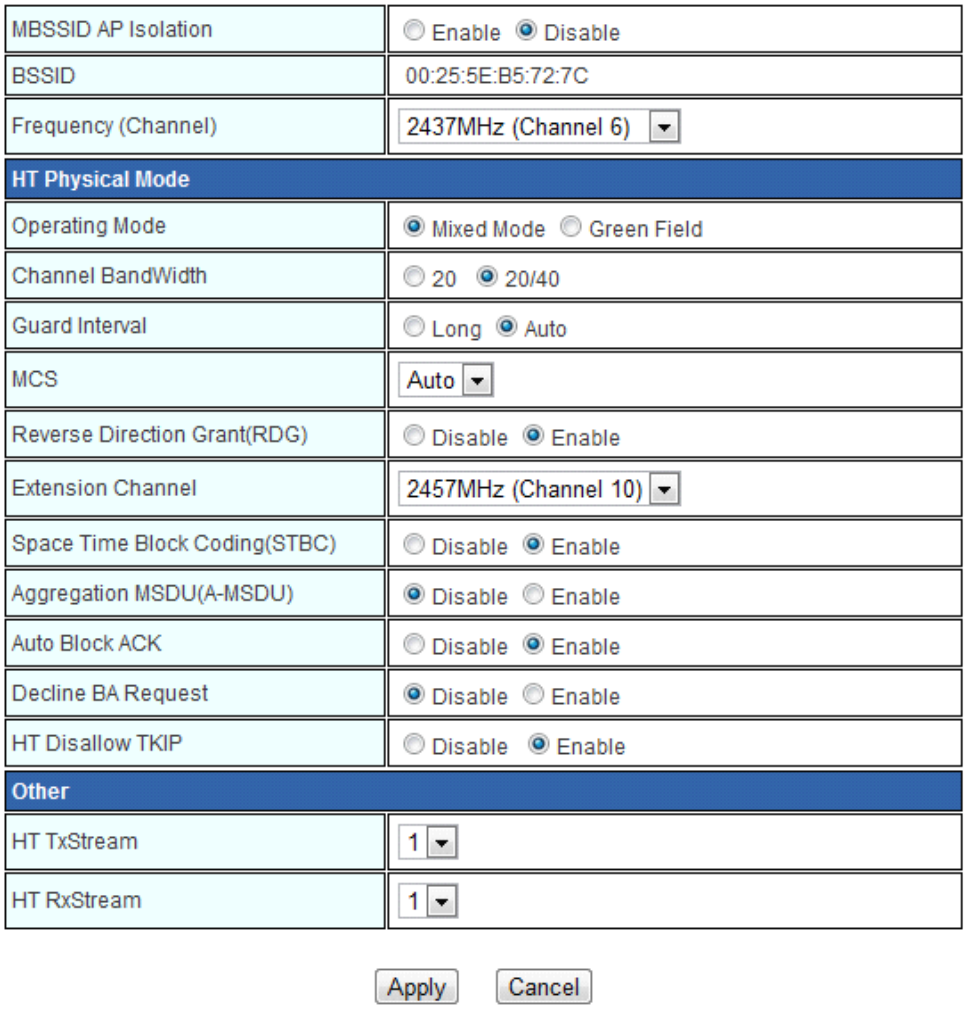
6.1 AP Mode Setting

If the operation mode is configured as "**Gateway**", then the wireless network module will be AP mode.

6.1.1 Basic Setting

Click menu "Wireless network setting->basic setting" and enter the wireless setting page, look at graph 6.1





Graph 6.1

Click “basic setting configure” and set the basic wireless parameter.

Broadcast network name：If you choose stop then the wireless name(SSID)will be hidden.

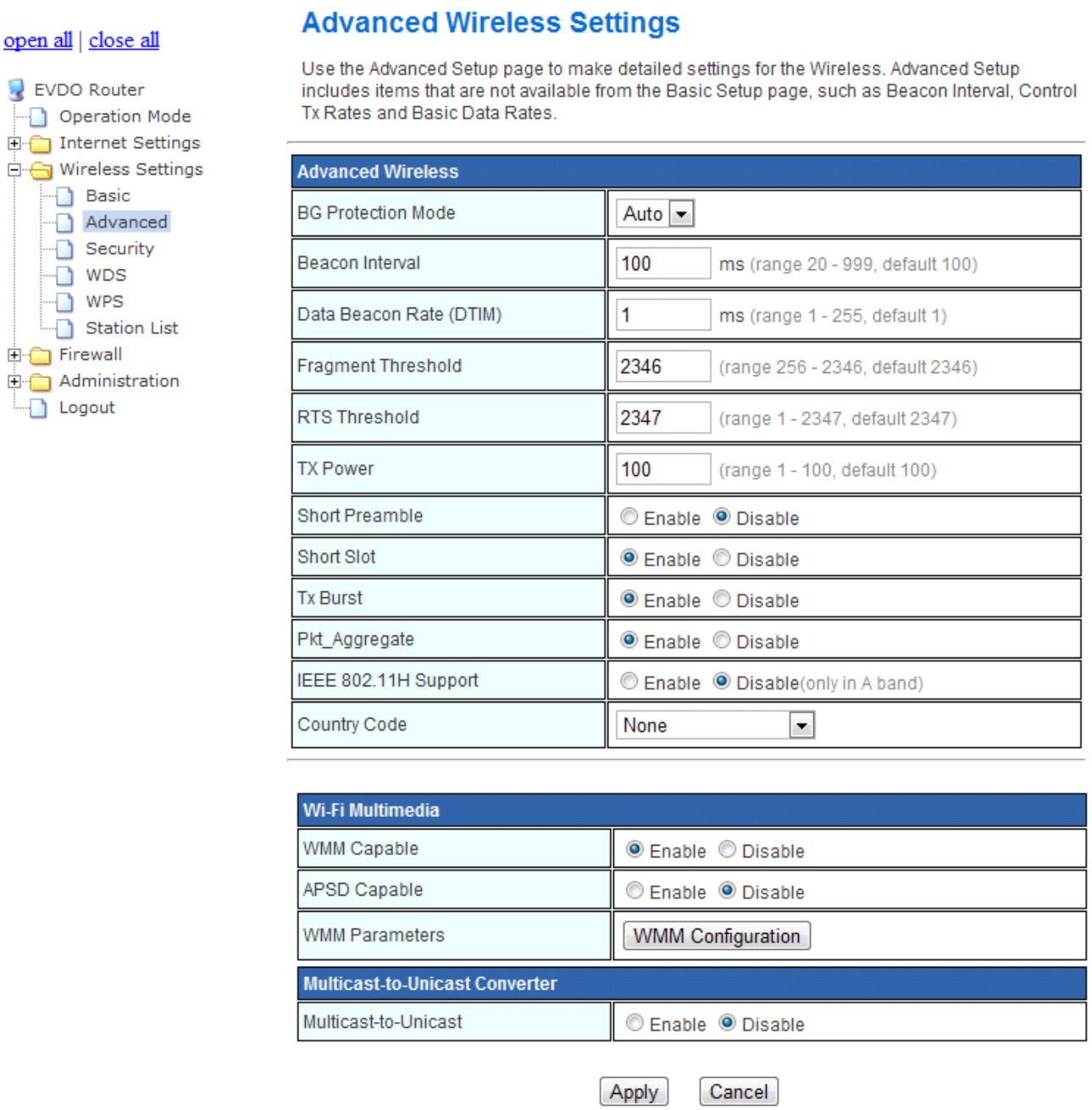
Network mode：including 5 modes, 802.11b，802.11g，802.11n，802.11b/g adaptive and 802.11b/g/n adaptive.

Network name（SSID） (service set identifier)：The wireless users will be permitted to visit LAN only if they make their wireless network name (SSID) and T700 equipment name(SSID) the same. Support multi-SSID，users can make the wireless terminal login the network in different ways by the needs and implement of the rating isolation management to the wireless access.

Channel: Select wireless channel.

AP Isolation/MBSSID AP Isolation：The terminals can visit each other if several terminals login the AP at the same time.

6.1.2 Advanced Setting



Graph 6.2

Please do not modify the setting only if users can deeply understand the WIFI technology.

6.1.3 Safe Mode

Certification model are:

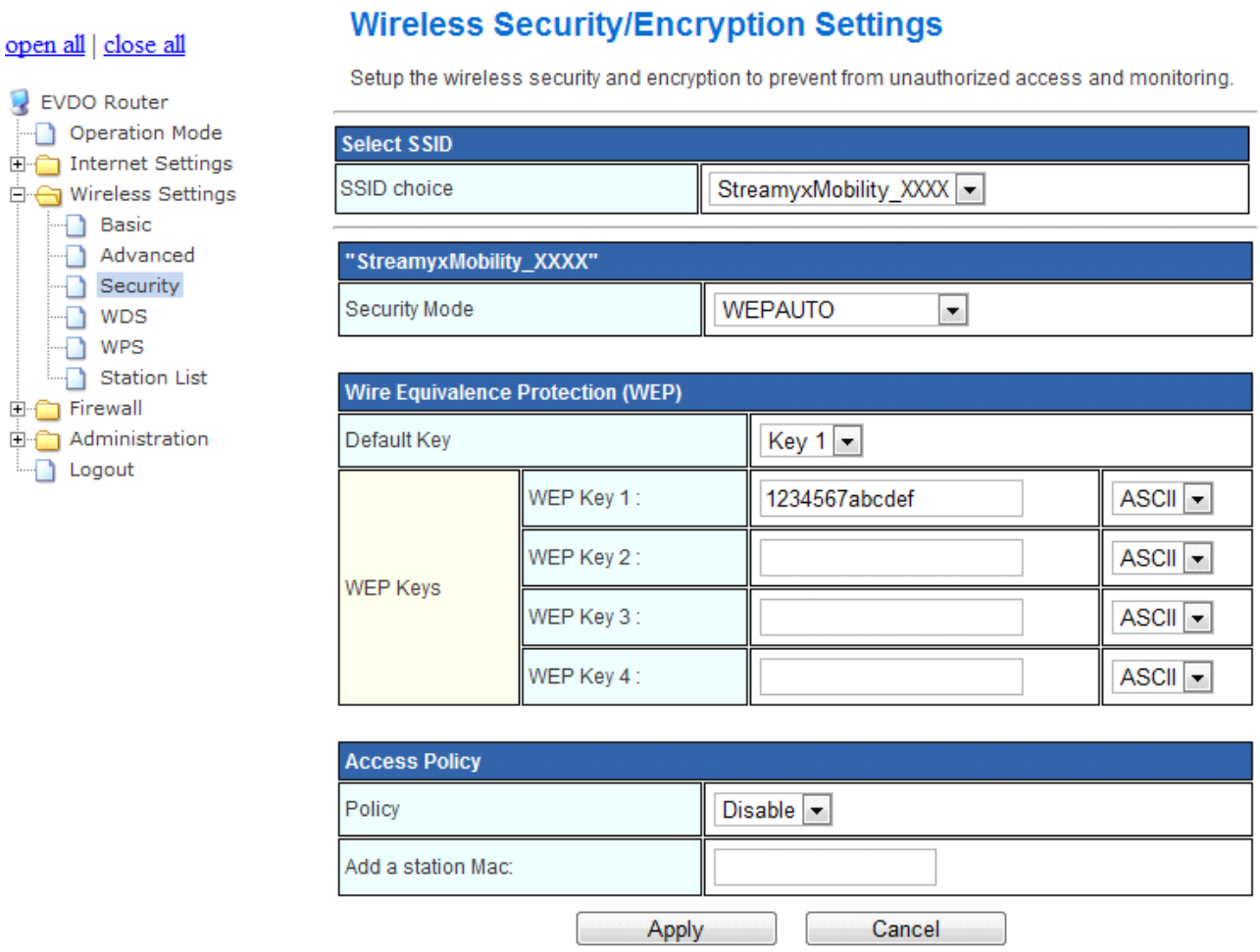
Open, Shared, 802.1x,WPA,WPA-PSK,WPA2,WPA-PSK, WPA2/WPA mixture, WPA2/WPA –PSK mixture.

Shared encryption

Don’t choose “Disable”WEP encryption mode, the WEP encryption option will be displayed.

Encryption strength: 128 or 64.

Access password ：Wireless user can't login the target wireless AP if the user's Encryption Key is not same with AP's key.



Graph 6.3

- **802.1x certification**

  Select"802.1x"and enter802.1x certification page.

  802.1x certification need a Radius server. You can input Radius server, IP address, port and password.

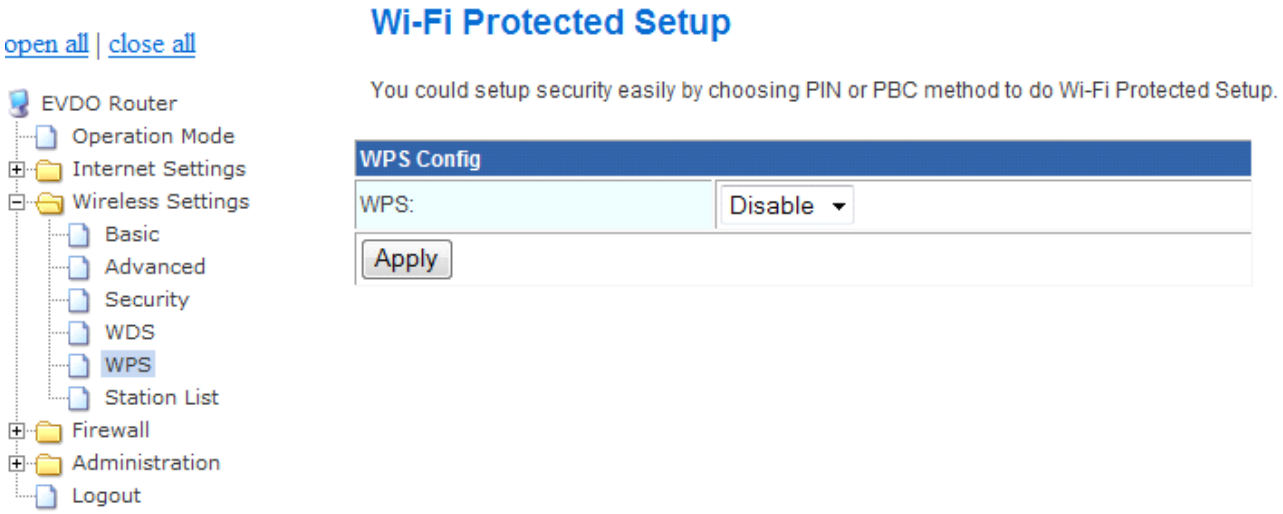
  Look at graph 6.4

Graph 6.4

6.1.4 WPS

WPS“activate”，the WPS setting menu will display. Users can set WPS by inputting PIN or PBC button on router. Long press WPS button and then Reset OOB.

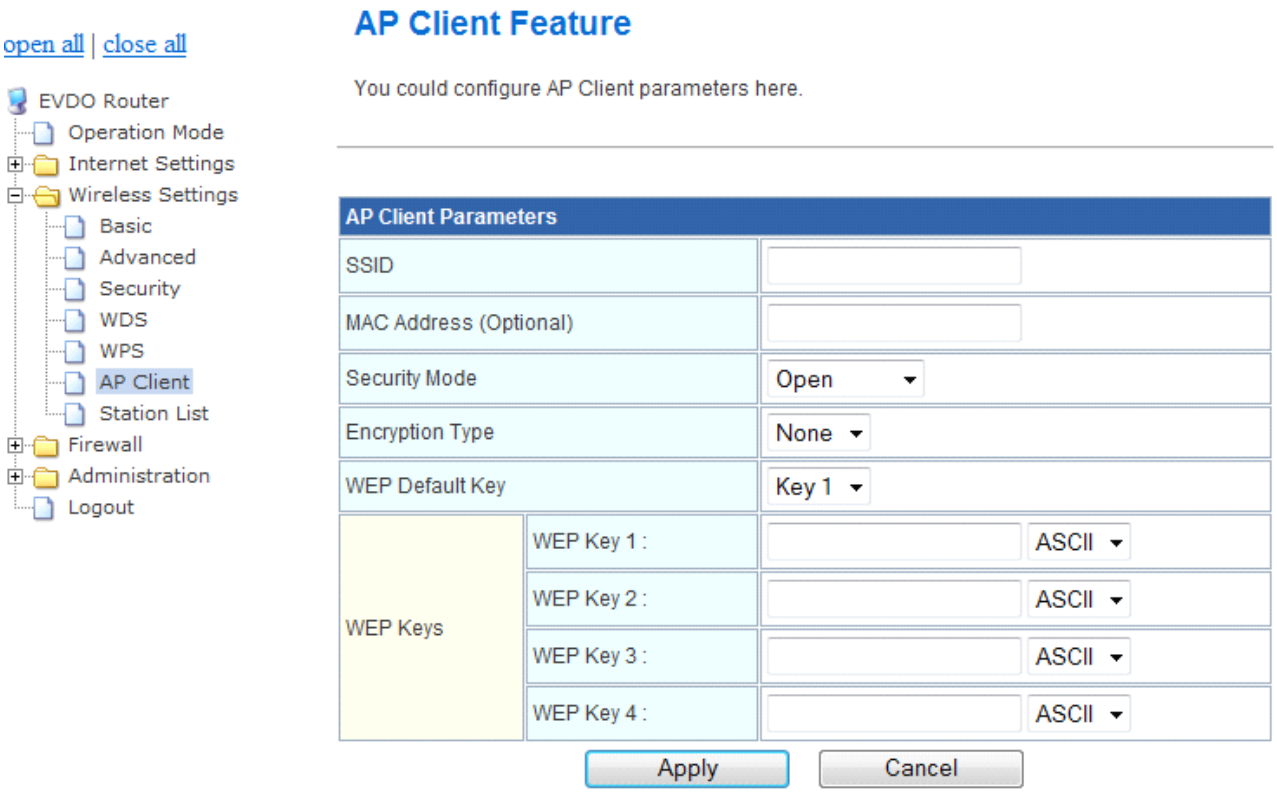
If users want to use PIN mode to connect with STA, the PIN of AP must be the same as PIN of STA.



Graph 6.5

6.1.5 AP Client

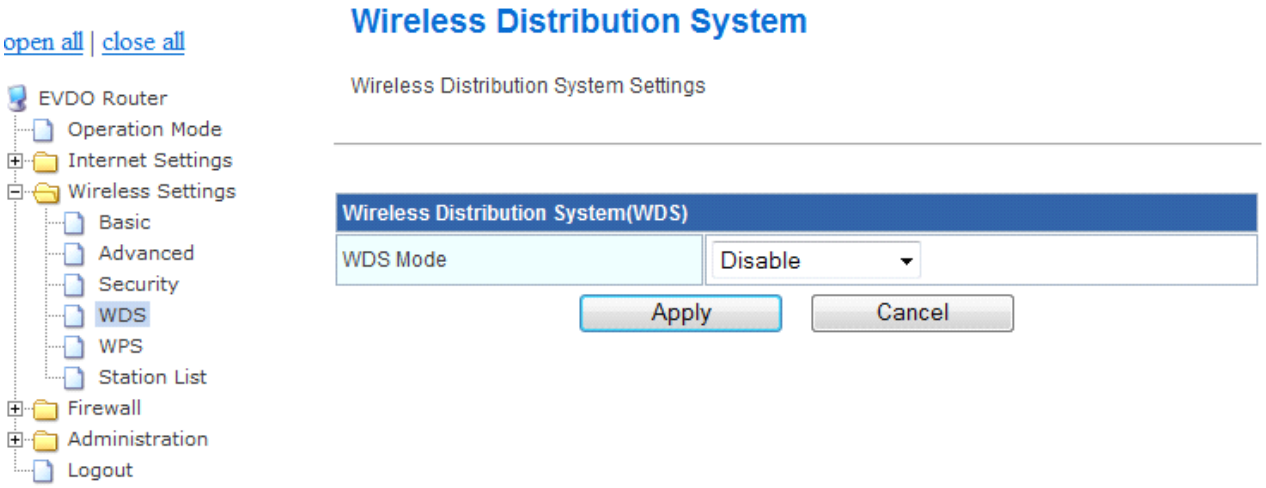
If the operation mode is configured as "**AP Client**", then the AP client fuction will be opened.
Notice： To make AP client function works normal, the MAC address of wireless interface of the router and the relevant router must both be configured as the number which is the multiple of 4.



Graph 6.6

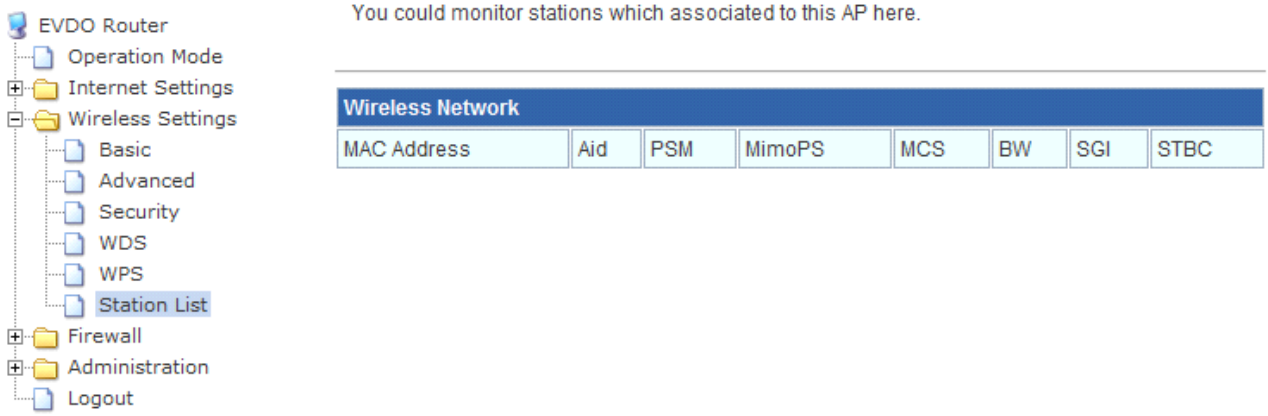
6.1.6 WDS

Please configure the operation mode as "**Gateway**".
WDS"enable"， the WDS setting menu will display.
In Lazy mode, the APs can be connected automatically.
In Bridge mode, this AP is just as bridge, other clients can't see the client connected with this AP.
In repeater mode, you need to set the MAC address of the wireless interface of the AP which you want to connect with.



Graph 6.7

6.1.7 Station list



Graph 6.8

CHAPTER 7 Security setting

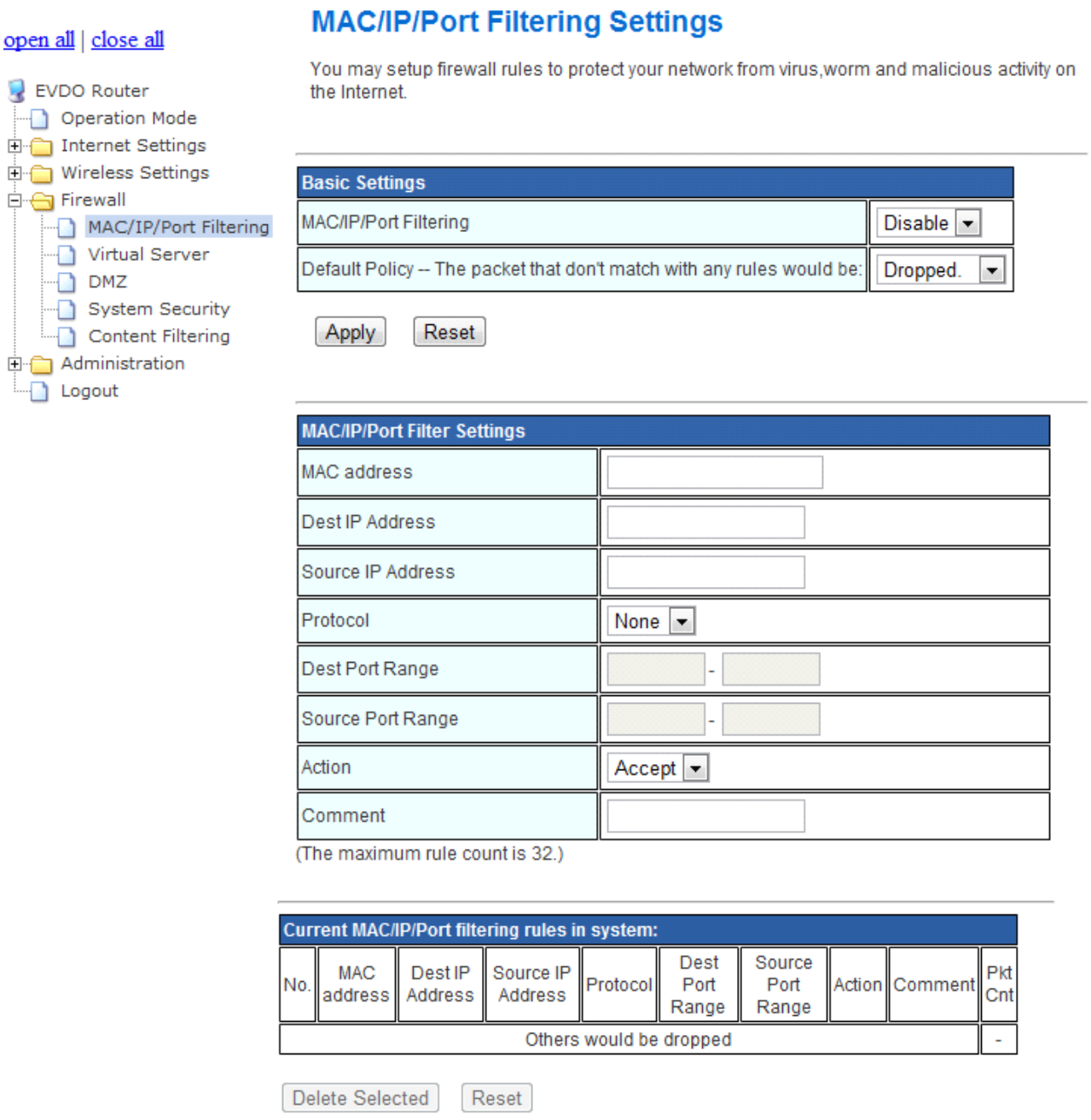
7.1 MAC/IP/Port Filter Setting

Select“Firewall”， click“MAC/IP/Port filter setting”.

Filter the data of specific MAC address device,

Filter the data of specific IP or source IP address device and filter certain packet of protocol.

Filter the data of device in specific port number range.



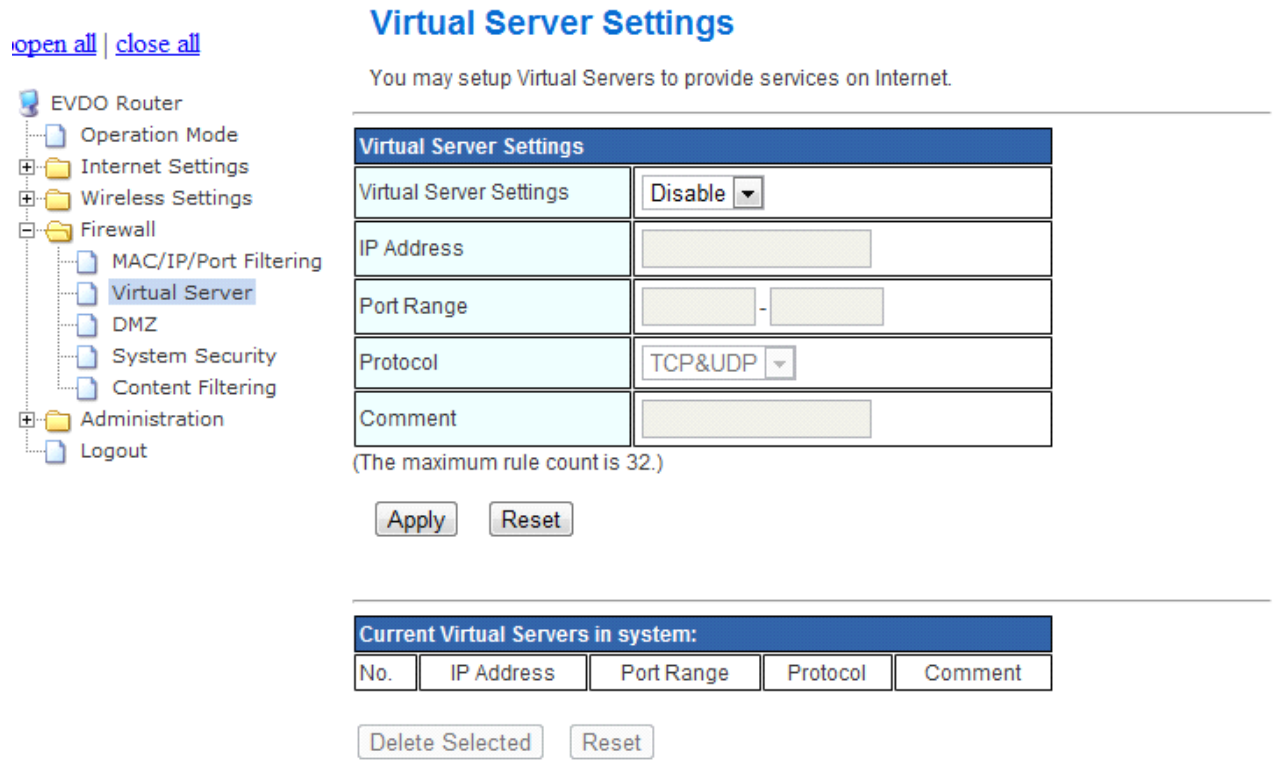
Graph7.1

URL filter page， users can filter URL by setting up this page.

Graph7.2

7.2 Fictitious Server

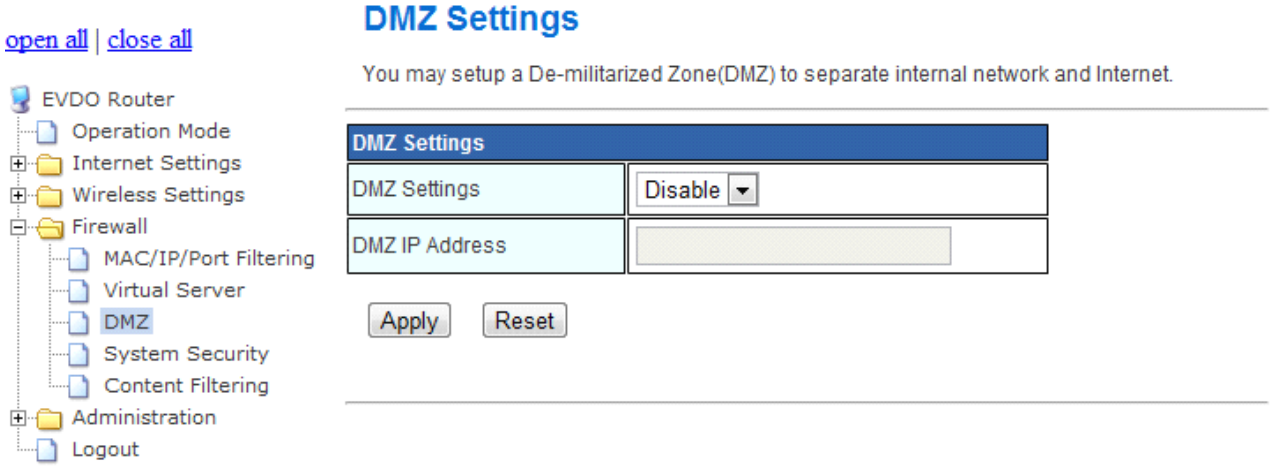
Users can setup fictitious server on this page. Setup server in LAN and activate fictitious server. Nominate port number and IP address and protocol; make it available to the extranet host.



Graph 7.3

7.3 DMZ

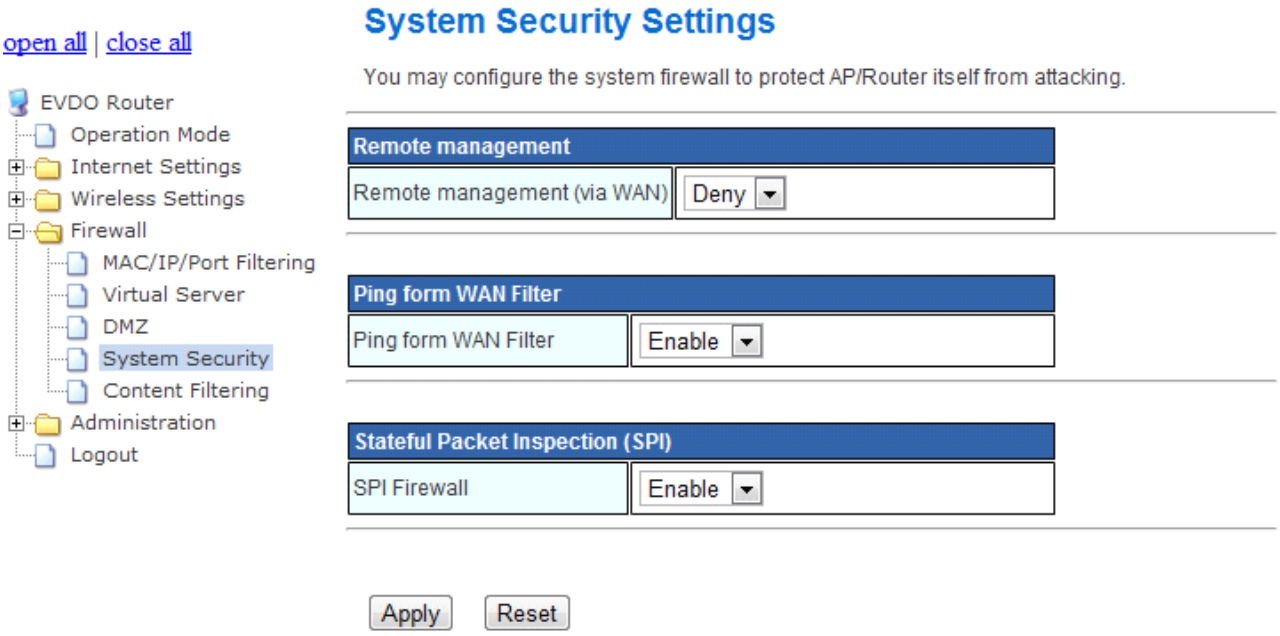
Users can setup isolation zone between extranet and intranet, to avoid the invasion.



Graph 7.4

7.4 System Security Setting

Users can configure the remote control, filter WAN ping packets, packet filter testing, start or forbidden.



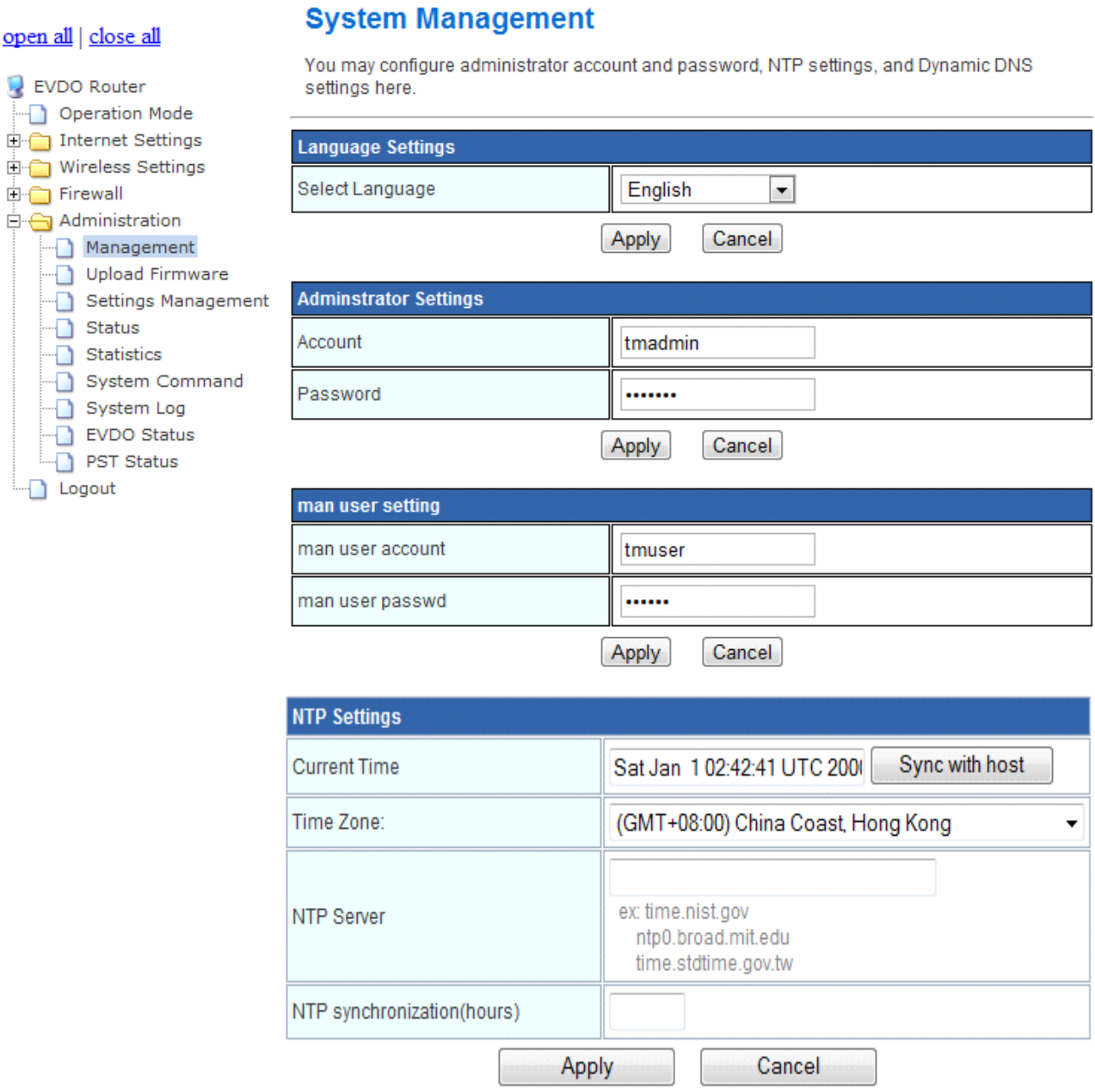
Graph 7.5

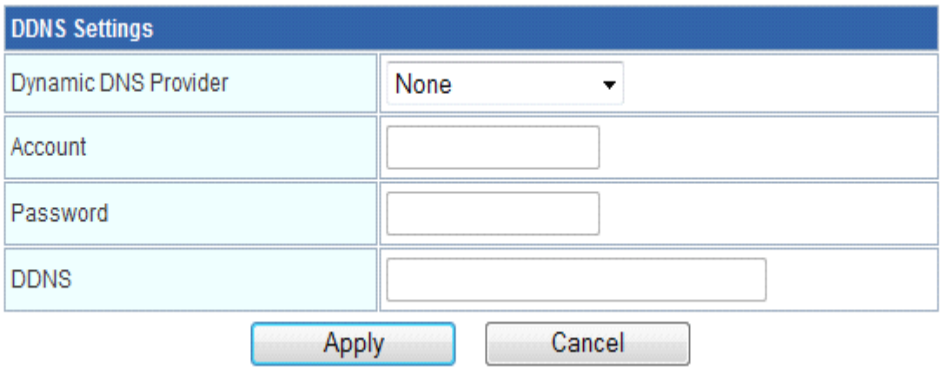
CHAPTER 8 System Management

8.1 Language and Administrator Setting

Users can choose English or Simply Chinese.

Users can change account and password in Administrator setting page.

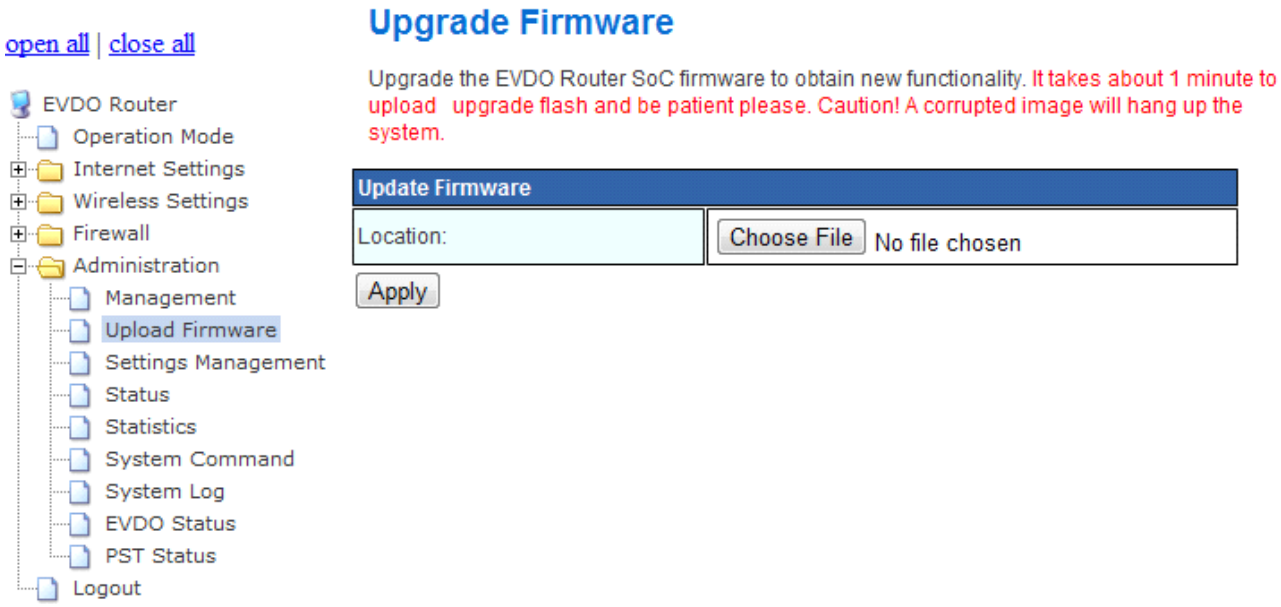




Graph 8.1

8.2 Software Upgrade

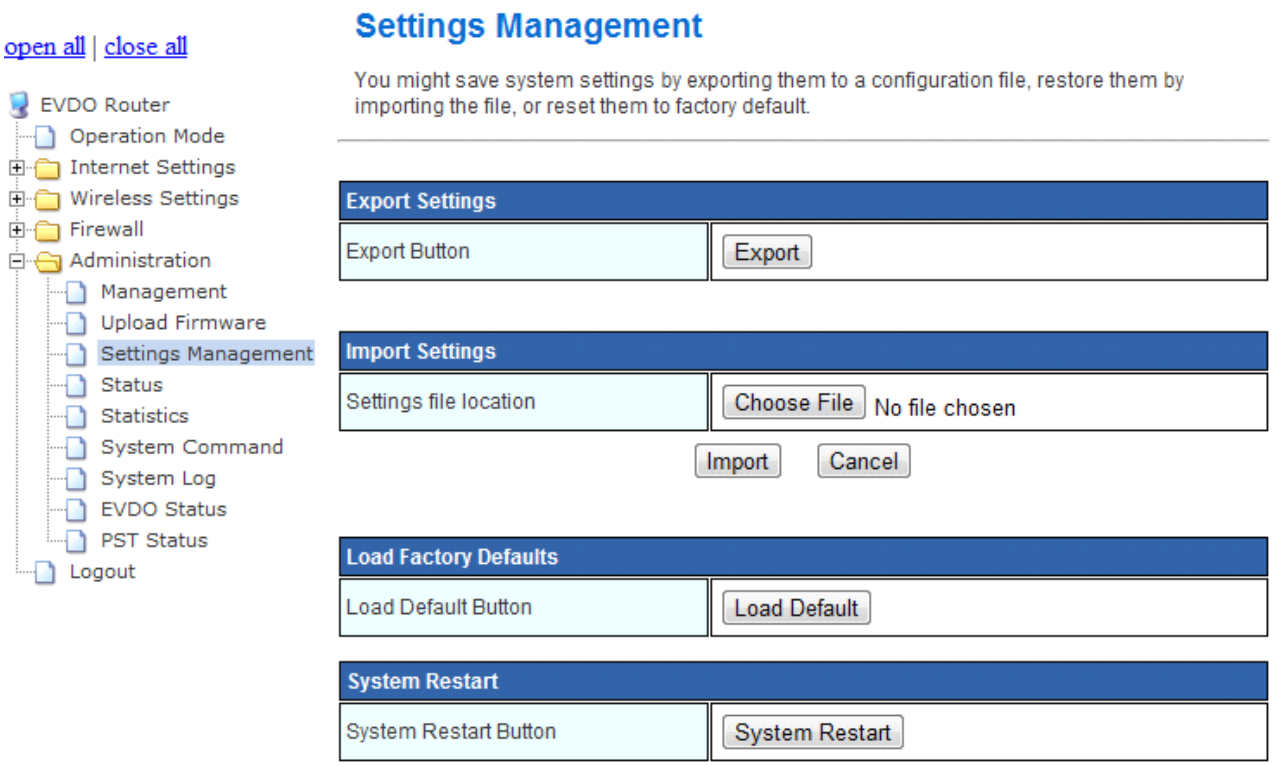
After selecting the target file, click “confirm” and then upgrade start.



Graph 8.2

8.3 Setting Management

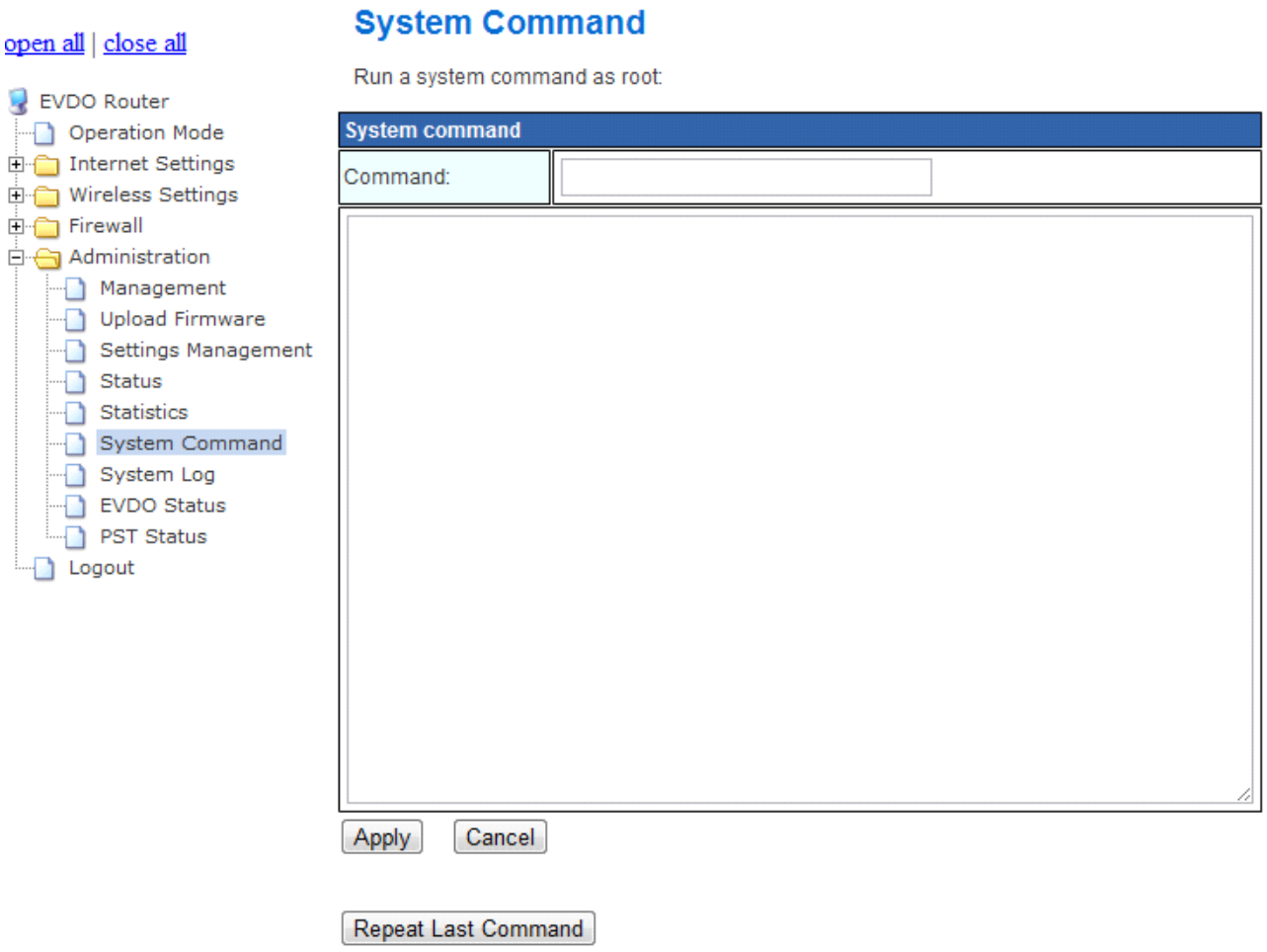
Users can export current router setting file or import existing setting file to router. Press restore default then the router will be back to initial settings. Press restart button then the system will close and start again.


open all | close all
EVDO Router
Operation Mode
Internet Settings
Wireless Settings
Firewall
Administration
Management
Upload Firmware
Settings Management
Status
Statistics
System Command
System Log
EVDO Status
PST Status
Logout
Settings Management
You might save system settings by exporting them to a configuration file, restore them by importing the file, or reset them to factory default.
Export Settings
Export Button
Export
Import Settings
Settings file location
Choose File
No file chosen
Import
Cancel
Load Factory Defaults
Load Default Button
Load Default
System Restart
System Restart Button
System Restart

Graph 8.3

8.4 System Instruction

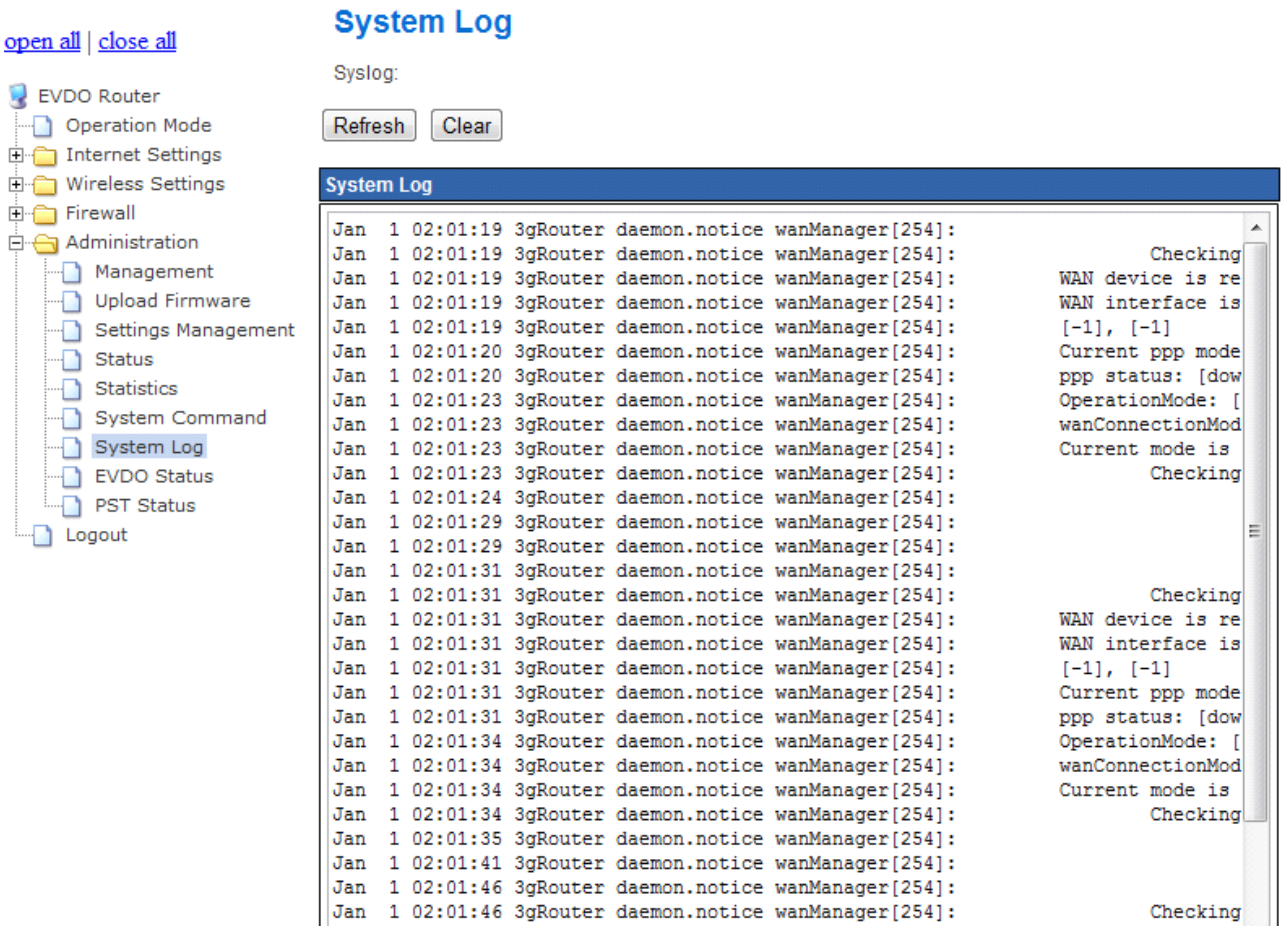
User can input command in this page and then the command will be executed under shell.



Graph 8.4

8.5 System Information

User can trace the syslog in this page and check the fault cause.



Graph 8.5

CHAPTER 9 FAQ

9.1 Login Failure

9.1.1 Line and Equipment Inspect

1. Check the power light is open or not, if not, please confirm the electricity and adaptor are correctly connected or not.
2. Check LAN1-LAN3 light is open or not, if not, please confirm whether Ethernet cable is correctly connected or straight / cross cable is correctly selected.
3. If users are using EVDO connection, please confirm EVDO dial up is in use. Besides, please confirm the parameters of "network/EVDO setting"are correct.
   (Notice: if EVDO internet is selected, please reset the router; if EVDO internet setting is changed but ppp is not up, wait the dialup of router. Please do not unplug EVDO modem during router is working. Please repeat above process if necessary.)

If above requirement is well comply, the line and router should be in shape, please check PC and equipment setting.

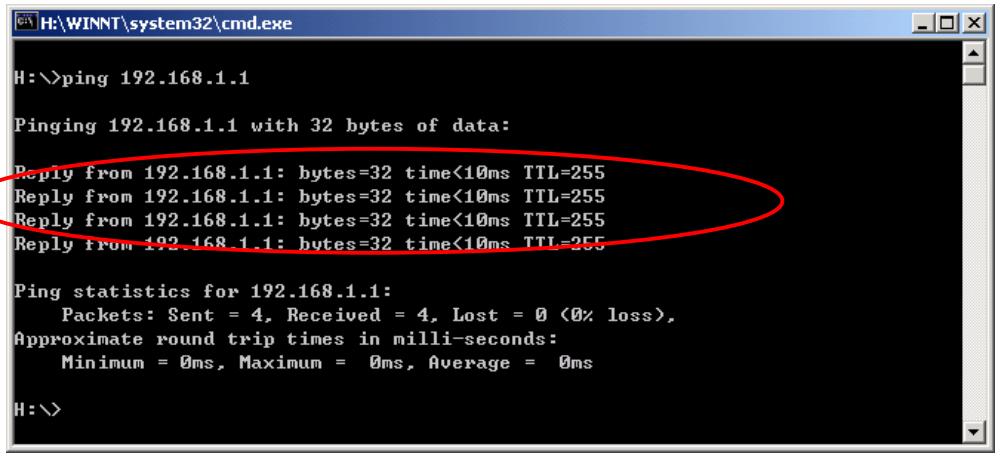
9.1.2 Setting Inspect

Below will introduce the setting inspect of built-in dial-up in Windows 2000.The inspect on the other dialup method and operation system is similar.

1. Enter the device manager to check the PC card is properly installed.
2. Check the setting of PC card; make sure the network connection setting is configured as "automatically obtain IP address". refer to 3.3
3. Try to execute "ping 192.168.1.1"， observe the reaction. If "time out", please recheck the Ethernet connection and IP setting.
4. If the connection is successful, please try to ping a extranet address, for example "ping 202.96.209.133".
   - If the ping is successful, we can make sure that the setting of router is ok, please continue to check the problem refer to step 5.
   - If the ping is unsuccessful, please check the setting is correct or not by step 6.
5. Please try to ping extranet URL address，for example"ping www.google.com".
   - If the ping is successful，that means the network setting is ok, please check PC side setting, for example the security level is too high or the installation of anti-virus firewall.
   - If the ping is unsuccessful, please check the setting of PC card, refer to 3.3.

Note 1：The way to input command in Windows2000 is：click "run" in Windows start menu, input "cmd" in the pop up window and enter, the Open Command Window will pop up.

Note 2: The standard of successful connection is that the return showed as below after the ping command is executed. See graph 9.1.



Graph 9.1

6. If only the ping to extranet IP is unsuccessful, please try to focus on the correction of device settings.
7. Please refer to 5.1 for the connection setting.

Make sure above parameters are correctly saved, then the users can surf the internet.

CHAPTER 10 Technical Specifications

Machine at full speed maximum power consumption：<20W
Power adapter input：12V, 0.7A
Weight：342g
Operating temperature ：0℃-40℃
Operating humidity：20%~90%（non-condensing）
Size：196mm * 142mm * 30mm (without antenna)
Machine power：12V

CHAPTER 11 Environmental Protection Instruction

1. The company promises that the product is in full compliance with the EU ROHS environmental protection directives.
2. That some of the device from a technological or economic point of view, there is no alternative, so the use of leaded materials, but these materials are exempted from environmental protection in the EU. Within the framework of the list, parts list is as follows:

The name and content of Products, toxic and hazardous substances or elements

Part Name	Toxic and hazardous substances or elements					
	Lead (Pb)	Mercury (Hg)	Cadmium （Cd)	hexavalent chromium (Cr6+)	pbb (PBB)	pbde (PBDE)
circuit module	×	O	O	O	O	O
Adapter	×	O	O	O	O	O
the antenna and its connection components	×	O	O	O	O	O

O：Indicates that the toxic and harmful substances in the part of all homogeneous materials are less than the content of the restrictions imposed in the SJ/T11363-2006 standard

×：Indicates that the toxic and hazardous substance exceeds the restrictions imposed by the standard requirements SJ/T11363-2006 at least in this part of the content of a homogeneous material.

Note：1）If the product sold have built-in antenna, there is no the antenna and its connecting components，If the product is only USB-powered products, there is no adapter. 2）The lead contained in circuit module is mainly inDischarge tube, transistors, diodes, transistors, SMD resistors and capacitors, high-frequency converter . The lead contained in adapter is mainly in PIN feet and plug metal parts. The lead contained in antenna and its connecting components is in metal part.

3. The products can be environmentally friendly used in the period of 10 years.
   Conditions for environmental protection use period ： -20℃～50℃, No acid or other hazardous gas environments.

4. Unless mark the other special mark, this 10 years mark cover the whole Environmental Use period. Some parts may have a different environmental protection use period (for example, batteries, power adapter) attached.