



# USER GUIDE

**SMCWHSG14-G**

**EliteConnect™  
802.11g Wireless Hotspot Gateway**

**SMCWHSG14-G**

**User Guide**

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# Table of Contents

<b>1. Introduction</b> .....	<b>4</b>
1-1 Package Contents .....	4
1-2 Features .....	5
1-3 Precautions.....	5
1-4 Outlook .....	5
1-4-1 Top Panel .....	6
1-4-2 Rear Panel .....	7
1-5 Technical Specifications.....	8
1-5-1 Hardware Specifications.....	8
1-5-2 Software Specifications .....	10
<b>2. Installation</b> .....	<b>12</b>
2-1 Wall-mounting.....	12
2-2 Connecting the Antennas .....	13
2-3 Installation Requirements .....	13
2-4 Getting Start.....	15
2-5 POE Application.....	16
<b>3. Configuring the Wireless Subscriber Gateway</b> .....	<b>17</b>
3-1 Setting Wizard .....	17
3-2 Advanced Setup .....	41
3-2-1 System .....	42
3-2-2 WAN/LAN .....	45
3-2-3 Server.....	52
3-2-4 Authentication .....	54
3-2-5 RADIUS Authentication .....	57
3-2-6 Billing.....	60
3-2-7 Accounting .....	66
3-2-8 Credit Card .....	79
3-2-9 Keypad .....	86
3-2-10 Customization .....	94
3-2-11 Pass Through.....	120
3-2-12 Filtering .....	122
3-2-13 Share.....	124
3-2-14 Portal Page.....	125
3-2-15 Advertisement .....	126
3-2-16 Walled Garden .....	127

3-2-17	DDNS .....	129
3-2-18	LAN Devices .....	131
3-2-19	Syslog .....	133
3-2-20	Session Trace .....	140
3-2-21	Bandwidth.....	141
3-2-22	Secure Remote .....	142
3-2-23	SNMP .....	143
3-2-24	Wireless .....	145
3-2-25	MISCELLANEA .....	149
3-3	System Status.....	150
3-3-1	System .....	151
3-3-2	Account List.....	153
3-3-3	Account Log .....	154
3-3-4	Current User.....	155
3-3-5	DHCP Client.....	156
3-3-6	Session List.....	156
3-3-7	LAN Devices .....	157
3-4	System Tools .....	157
3-4-1	Configuration.....	158
3-4-2	Firmware Upgrade .....	159
3-4-3	Boot Code .....	161
3-4-4	System Account .....	161
3-4-5	SSL Certificate .....	166
3-4-6	Ping Command .....	167
3-4-7	Restart.....	167
3-4-8	Logout .....	167
Appendix A.	RJ-45 Connector Description .....	168
Appendix B.	Regulations/EMI Compliance.....	169

# 1. Introduction

The Wireless Subscriber Gateway is a compact intelligent gateway integrated with a four-port port-based VLAN switch. It provides Plug' Play Internet access, advanced security and network management.

The Wireless Subscriber Gateway is designed for service providers, system integrator or hotspot venue operator without backend-RADIUS-Server to have integrated solution for rapid deployment, which can start hotspot service quickly and easily and enhance service performance.

The Wireless Subscriber Gateway is an ideal solution for hotel lobbies, coffee bars, airport lounges, conference facilities and other sites that commonly host business travelers, and offers instant high-speed Internet connections. With its IP Plug and Play technology, it accepts any client configuration login, when client open browser the Wireless Subscriber Gateway immediately recognizes new end-user and redirects their browser to customized Web pages. There's no need for end-user to change any of their default network (Static IP), e-mail (SMTP Server behind firewall), or browser settings (HTTP Proxy) or load any special software to access hotspot service. It's completely Plug' Play with any browser.

## 1-1 Package Contents

Please inspect your package. The following items should be included:

### © **SMCWHSG14-G**

- One Wireless Subscriber Gateway
- Two antennas
- One AC Power Adapter for Wireless Subscriber Gateway
- One CD containing User's Manual and MIB file
- Two screws for wall-mount
- One UTP Ethernet/Fast Ethernet cable (Cat.5 Twisted-pair)

### **Optional Product:**

### © **AG-200E Account Generator Printer**

- One AC Power Adapter for mini account generator printer
- One UTP Ethernet/Fast Ethernet cable (Cat.5 Twisted-pair)
- One Account Generator Printer User's Guide

If any of the above items are damaged or missing, please contact your dealer immediately.

## 1-2 Features

- Wireless data rates up to 54Mbps
- Supports 100 Simultaneous Users
- IP Plug and Play (iPnP)
- Comprehensive security
  - 64/128-bit WEP encryption
  - WPA encryption
  - IP/URL filtering
- Intelligent Management
- Built-in AAA (Authentication/Accounting/Authorization) and Billing mechanism

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**Note:** The "PnP" Function only can be used with TCP/IP-based Network.

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## 1-3 Precautions

- Never remove or open the cover. You may suffer serious injury if you touch these parts.
- Never install the system in the wet locations.
- Use only the original fitting AC power adapter otherwise there is a danger of severe electrical shock.
- Avoid exposing the Wireless Subscriber Gateway to direct sunlight or another heat source.
- Choose a well-ventilated area to position your Wireless Subscriber Gateway.

## 1-4 Outlook

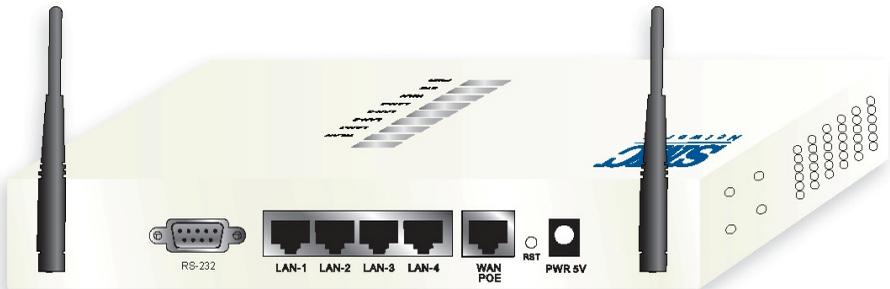
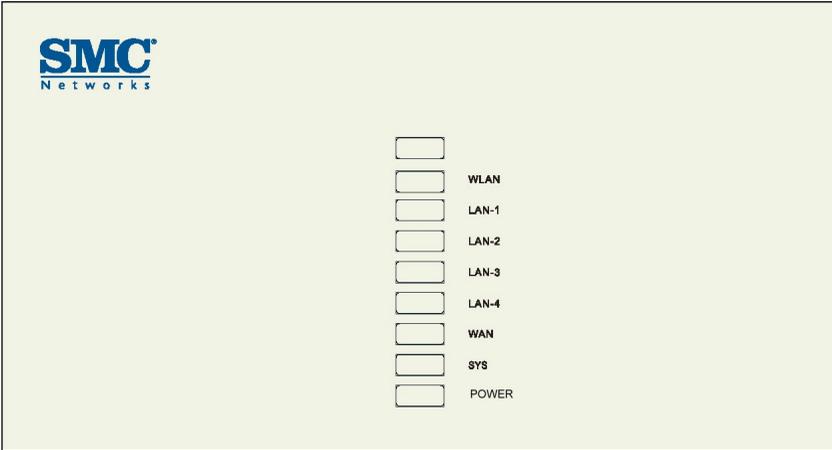


Figure 1-1 Wireless Subscriber Gateway Outlook

### 1-4-1 Top Panel

The top panel of the Wireless Subscriber Gateway is shown below.



*Figure 1-2 Wireless Subscriber Gateway Top Panel*

## LEDs Indication

LED	State	Description
POWER	Off	The Wireless Subscriber Gateway is not receiving electrical power.
	Green	The Wireless Subscriber Gateway is receiving electrical power.
SYS	Off	The Wireless Subscriber Gateway status is defective.
	Green	The Wireless Subscriber Gateway status is complete.
	Green (Blinking)	During firmware upgrades, this system LED will blink.
WAN	Off	Port has not established any network connection.
	Green	A port has established a valid 10/100Mbps network connection.
	Green (Blinking)	10/100Mbps traffic is traversing the port.
LAN-1~ LAN-4	Off	Port has not established any network connection.
	Green	A port has established a valid 10/100Mbps network connection.
	Green (Blinking)	10/100Mbps traffic is traversing the port.
WLAN	Off	The Wireless is not ready.
	Green	The Wireless Subscriber Gateway has established a valid wireless connection.
	Green (Blinking)	The Wireless connection is active.

### 1-4-2 Rear Panel

The rear panel of the Wireless Subscriber Gateway is shown below.

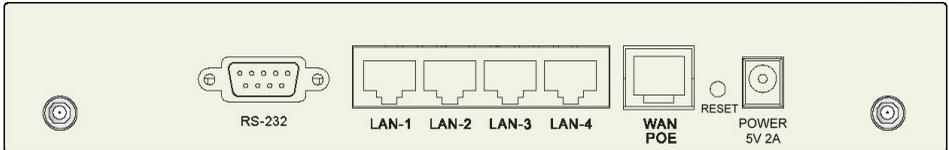


Figure 1-4 Wireless Subscriber Gateway Rear Panel

**1. RS-232:** Reserve for manufacture use.

**2. LAN (1-4):**

The rear panel supports four auto-sensing RJ-45 ports and all ports can be auto-switched to MDI-II connections. The LAN ports used for linking hosts or other network devices. The individual port can be either connected to 100BaseTX networks or 10BaseT networks. When connecting to a 100BaseTX network, the ports operate at 100Mbps in half-duplex mode or 200Mbps in full-duplex mode. When connecting to a 10BaseT network, the ports operate at 10Mbps in half-duplex mode or 20Mbps in full-duplex mode.

**3. WAN:** One Ethernet port used for linking xDSL or Cable Modem.

**4. Reset Button:**

The Wireless Subscriber Gateway has a reset button at the rear panel of the device. Use this function to reset the system back to factory defaults.

**5. Power Jack:** Used to connect the external power supply with the Wireless Subscriber Gateway.

**1-5 Technical Specifications**

**1-5-1 Hardware Specifications**

**Network Specification**

IEE802.3 10BaseT Ethernet

IEE802.3u 100BaseTX Fast Ethernet

IEE802.11g Wireless LAN

IEEE802.3af Power over Ethernet

ANSI/IEEE 802.3 NWay auto-negotiation

Wi-Fi Compatible

**Connectors**

One Printer Port (1 DB9 DTE male connector for Account Generator Printer)

Four LAN Ports (10BaseT/100BaseTX Auto cross-over)

One WAN Port (10BaseT/100BaseTX Auto cross-over)

**Encryption**

WEP (Wired Equivalent Privacy) 64/128-bit RC4

WPA (Wi-Fi Protected Access)

**External Antenna Type**

2dBi (Max) Dual detachable diversity antenna with reverse SMA

### **LED Indicators**

One POWER LED

One WAN 10/100M Link/Activity LED

Four LAN 10M/100M Link/Activity LEDs

One Wireless Link/Activity LED

One System LED

### **Power Requirement**

External Power Adapter

Input: 100-240 VAC, 50/60 Hz

Output: 5V, 2A

### **Environment Conditions**

Operating Temperature: 0 to 50°C

Storage Temperature: -10 to 60°C

Operating Humidity: 10~80% non-condensing

Storage Humidity: 10% to 90% non-condensing

### **Certifications**

FCC part 15 Class B, CE, CSA, VCCI Class B, CE / R&TTE, C-Tick

### **Dimension**

Size: 242 (L) x 130.5 (W) x 77 (H) mm

Weight: About 420g (Net)

### **Mounting**

Desktop, Wall mounted

## **1-5-2 Software Specifications**

### **Networking**

- IEEE802.3 10BaseT Ethernet
- IEEE802.3u 100BaseTX Fast Ethernet
- IEEE802.3af Power over Ethernet
- IEEE802.11b Wireless LAN
- IEEE802.11g Wireless LAN
- Supports 100 Simultaneous Users
- IP Plug and Play (iPnP)
- HTTP Proxy Support
- SMTP Server Redirection
- DHCP Server
- DHCP Relay
- Static IP WAN Client
- DHCP WAN Client
- PPPoE WAN Client
- PPTP WAN Client
- NAT
- NTP (Network Time Protocol) Support
- DDNS

### **Marketing Cooperation**

- Advertisement URL link
- Walled garden
- Customizable log-on and log-off pages
- Portal Page
- WISPr Smart Client

### **User Accounting and Authentication**

- Built-in Authentication
- Web-based Authentication
- RADIUS AAA Support (RFC 2865, 2866)
- Secondary RADIUS
- User Authentication and Accounting
- Logout Window Timer Control

## **Security and Firewall**

- Layer 2 Isolation Security
- SSL User Login page/ Configuration Page
- SSL Administration
- VPN Pass through (IPSec/PPTP)
- Customize SSL Certificate
- Pass Through IP/MAC/URL Address
- Restricted Destination Filtering IP/URL
- VPN (IPSec/PPTP) Pass through
- PPTP VPN Client
- WEP
- WPA

## **Management**

- Web-based Management Tool
- Firmware Upgrade via HTTP/TFTP
- Wizard setup for step-by-step Configuration
- Backup/Restore/Factory Default Setting
- Remote Authorized Management
- Real-time Session List
- LAN Device Management
- Syslog (System/Subscriber/LAN device)
- E-mail logs
- SNMP v1/v2 (MIB II, Private MIB)
- System Information Table
- Status Report (Daily/Monthly/System/Network)
- SSL certificate upload

## **Extra Function with optional AG-200E**

- Local Authentication
- Local Accounting
- Local Billing

## **AG-200E Account Generator (Thermal Printer)**

Interface: Ethernet

Print Width: 48mm (Paper width: 58mm)

Paper Length: 50 M

## 2. Installation

The followings are instructions for setting up the Wireless Subscriber Gateway. Refer to the illustration and follow the simple steps below to quickly install your Wireless Subscriber Gateway.

### 2-1 Wall-Mounting

The Wireless Subscriber Gateway can be wall-mounted on a wall by applying the two mounting brackets on screws.



Figure 2-1 Wall-Mounting Bracket - Bottom of Wireless Subscriber Gateway

Please refer to the following instructions for mounting a Wireless Subscriber Gateway on a wall or other surface.

1. Install two screws on a wall according to the relative positions shown below.

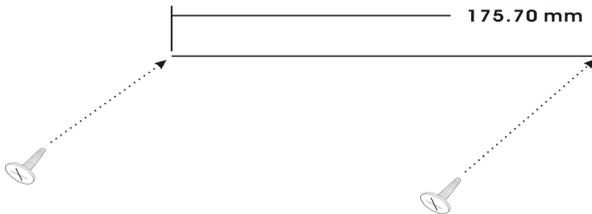
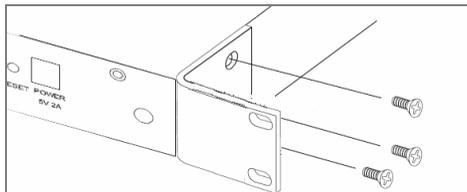


Figure 2-2

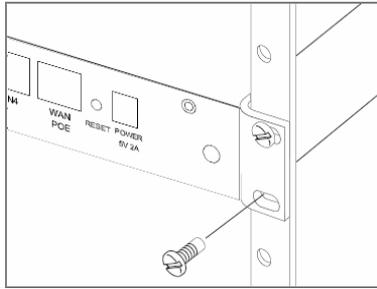
2. Hang Wireless Subscriber Gateway on the wall by sliding the two screws in the mounting brackets.

#### 2-1.1 Bracket-Mounting

1. Attach the brackets to the device using the screws provided in the mounting kits.



2. Mount the device in the rack, using three rack-mountings screws.



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**Note:** If the screws are not properly anchored, the strain of the cables connected to the Wireless Subscriber Gateway rear panel connectors could pull out the Wireless Subscriber Gateway from the wall.

---

## 2-2 Connecting the Antennas

The Wireless Subscriber Gateway provides two antenna connectors on the rear of the unit.

## 2-3 Installation Requirements

Before installing the Wireless Subscriber Gateway, make sure your network meets the following requirements.

### System Requirements

The Wireless Subscriber Gateway requires one of the following types of software:

- Windows 98 Second Edition/NT/2000/XP
- Red Hat Linux 7.3 or later version
- MAC OS X 10.2.4 or later version
- Any TCP/IP-enabled systems like Mac OS and UNIX (TCP/IP protocol installed)
- Standard phone line for xDSL modem

Or

Coaxial cable for Cable modem

- Web Browser Software (Microsoft I.E 5.0 or later version or Netscape Navigator 5.0 or later version)
- One computer with an installed 10Mbps, 100Mbps or 10/100Mbps Ethernet card
- UTP network Cable with a RJ-45 connection (Package contents)

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**Note:** Prepare twisted-pair cables with RJ-45 plugs. Use Cat.5 cable for all connections. Make sure each cable not exceed 328 feet (Approximately 100 meters).

---

### **ISP Requirements**

Verify whether your ISP use fixed or dynamic IP. If it is a fixed IP, be sure to get the IP from your ISP. For dynamic IP, which is mostly used, the PC will get the IP automatically whenever it hooks up on the modem.

#### **Dynamic IP**

- Dynamic IP Setting

#### **Fixed IP**

- Your fixed IP address for the Wireless Subscriber Gateway
- Your subnet mask for the Wireless Subscriber Gateway
- Your default gateway IP address
- Your DNS IP address

#### **PPPoE**

- Your user name from your ISP
- Your password from your ISP

#### **PPTP**

- PPTP Server IP Address from your ISP
- PPTP Local IP address from your ISP.
- PPTP Local IP subnet mask from your ISP.
- Your user name from your ISP
- Your password from your ISP

### **Your PC Requirements**

#### **The Static IP settings for the PC**

- Your PC's fixed IP address
  - Your PC's subnet mask
  - Your PC's default gateway IP address
  - Your PC's primary DNS IP address
- 

#### **Note:**

1. The gateway's default IP address setting is "192.168.2.1".
  2. The gateway's default subnet mask setting is "255.0.0.0".
- 

#### **The Dynamic IP settings for the PC**

We recommend that you leave your IP settings as automatically assigned. By default, the Wireless Subscriber Gateway is a DHCP server, and it will give your PC the necessary IP settings.

## 2-4 Getting Start

1. Place the Wireless Subscriber Gateway and AG-200E Printer on a flat work surface.
2. Connect the Ethernet cable to the Wireless Subscriber Gateway's LAN port.
3. Connect the other end of the Ethernet cable to the AG-200E Account Generator Printer's RJ45 port.
4. Ensure that your modem and computer are both switched on.
5. Use the supplied cable to connect the Wireless Subscriber Gateway's WAN port to the modem.  
Check that the Cable/xDSL Status LED lights.
6. Connect your computer to one of the 10/100 LAN ports on the Wireless Subscriber Gateway. Check that the LAN Port Status LED lights.
7. Configure the further parameters via a Web browser.

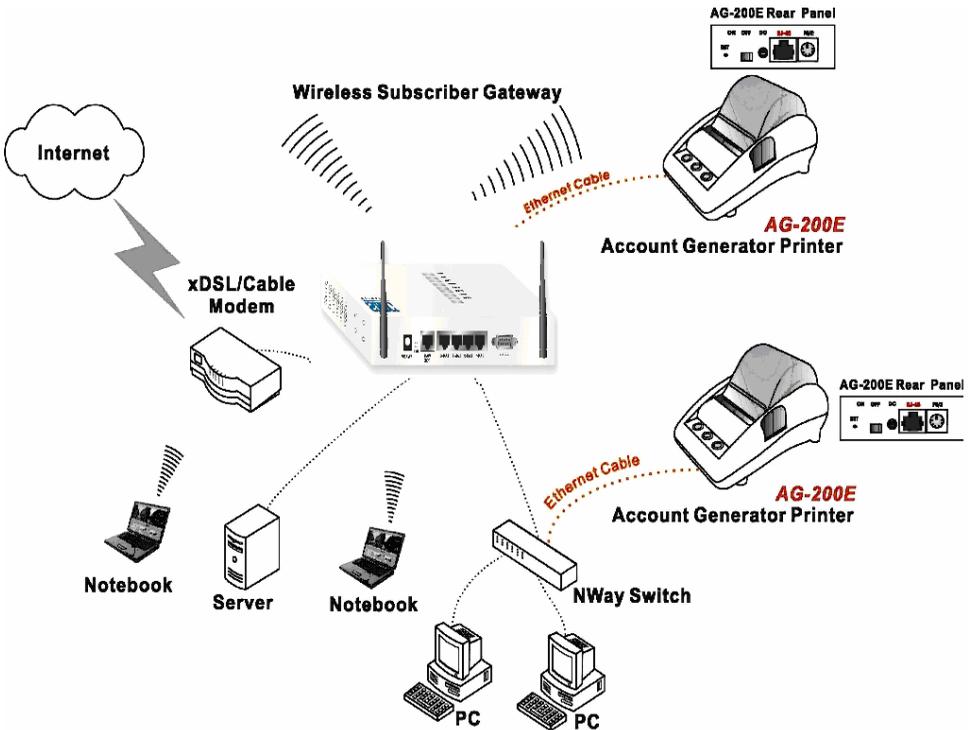


Figure 2-4 Wireless Subscriber Gateway Connection

## 2-2 POE (Power over Ethernet) Application

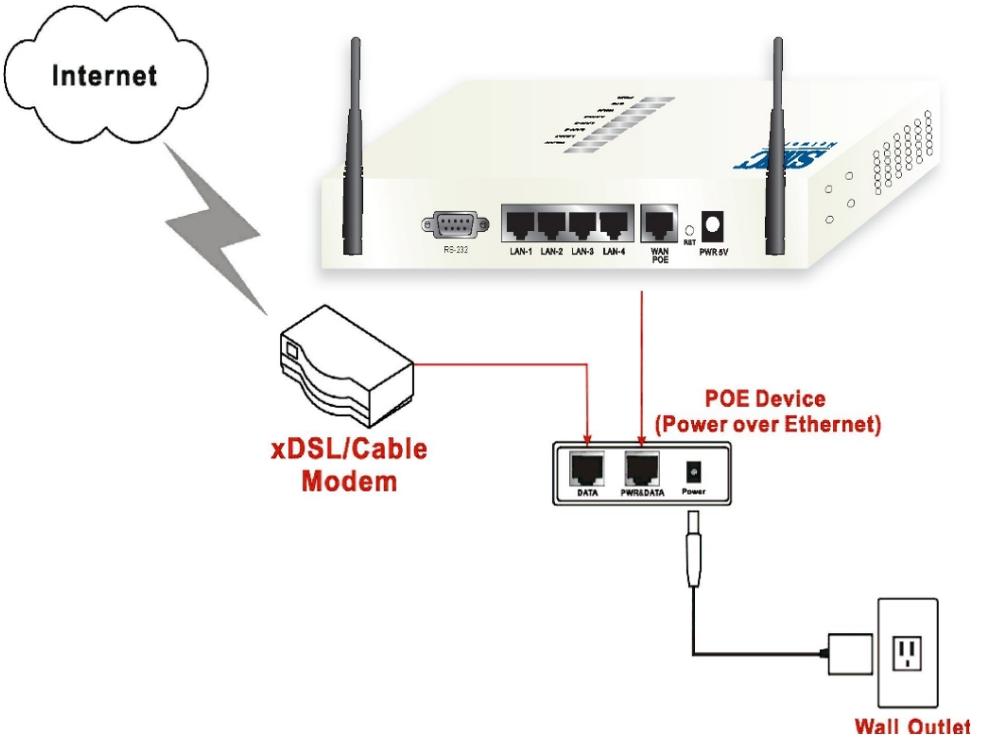


Figure 2-6 POE Connection

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**Note:** To use the WG-601's POE feature, follow the instructions for your specific POE device.

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## 3. Configuring the Wireless Subscriber Gateway

### 3-1 Setting Wizard

**Step 1:** Start your browser, and then enter the factory default IP address **192.168.2.1** in your browser's location box. Press **Enter**.

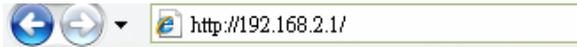


Figure 3-1 Web Browser Location Field (Factory Default)

**Step 2:** The Wireless Subscriber Gateway configuration tools menu will appear. In the Username and Password field, type the factory default user name **admin** and password **smcadmin** and click **Login**. If you are first time setting the system, the wizard setup screen will appear. You will be guided, step-by-step, through a basic setup procedure.



Figure 3-2 Configuration Tools Menu

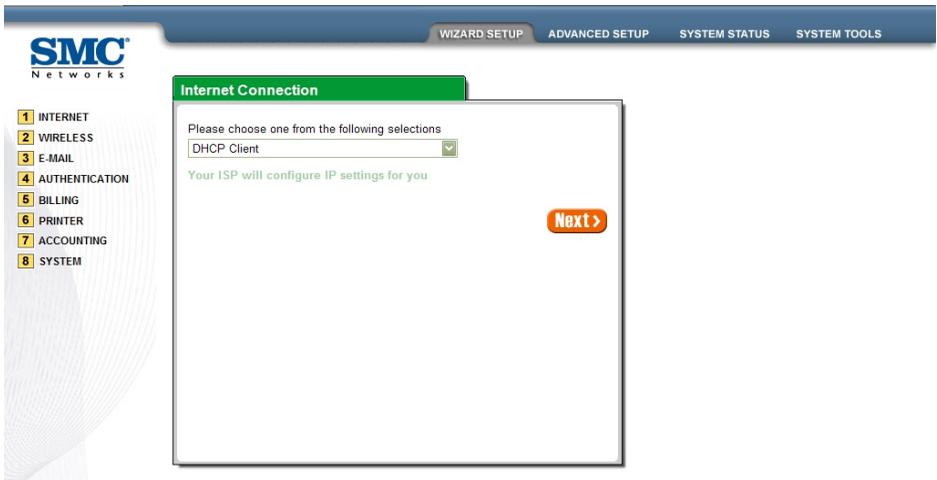


Figure 3-3 Wizard Setup Screen

## System Quick View

System			
System/Host Name		Firmware Version	1.00.04
Location Name		Domain Name	
System Time	2004/7/2 16:08:58	System Up Time	00D:00H:01M:11S
WAN MAC address	00:90:0E:00:60:C1	LAN MAC address	00:90:0E:00:60:C0
Network			
WAN Status	Not Established	WAN Type	DHCP Client
WAN IP Address	None	LAN IP Address	192.168.2.1
WAN Subnet Mask	None	LAN Subnet Mask	255.0.0.0
Default Gateway	None	DNS	
Wireless			
Wireless Service	OK	ESSID	SMC
Wireless Channel	6	Secure Mode	Disable
Traffic			
WAN	TxData:10 RxData:0 TxError:0 RxError:0		
LAN	TxData:83 RxData:77 TxError:0 RxError:0		
Wireless	TxData:2 RxData:0 TxError:0 RxError:0		

Best View with Microsoft Internet Explorer 5.0 above

**Figure 3-4 System Quick View**

**Reset**

Click on reset button to clear the username and password data.

**Note:**

- ☞ This Web agent is best viewed with IE 5.0 or Netscape 6.0 and above browsers.
- ☞ If you would like to change the password please see Step 10.
- ☞ Username and Password can consist of up to 20 alphanumeric characters and are case sensitive.
- ☞ If for some reason your password is lost or you cannot gain access to the Wireless Subscriber Gateway Configuration Program, please press the reset button to load the device to manufacturer defaults.
- ☞ If the Wireless Subscriber Gateway doesn't send packet in 5 minutes (default), the Wireless Subscriber Gateway wills logout automatically.
- ☞ Proxy needs to set disable first when administrator accesses admin UI.

### Step 3: Internet Connection Setting

Select the appropriate Internet connection type to connect to your ISP.



Internet Connection

Please choose one from the following selections

DHCP Client

Your ISP will configure IP settings for you

Next >

Figure 3-5 Internet Connection Setting Screen

- **DHCP Client**

The device can work as a DHCP client. This allows the device to obtain the IP address and other TCP/IP settings from your ISP. If your xDSL/Cable comes with this feature, please enable Use DHCP Client.



Internet Connection

Please choose one from the following selections

DHCP Client

Your ISP will configure IP settings for you

Next >

Figure 3-6 Internet Connection Setting Screen—DHCP Client Setting

- **Static IP Setting**

If **Static IP Setting** is selected, then this screen will appear. Enter the IP address information provided by your ISP.

Figure 3-7 Internet Connection Setting Screen—Static IP Setting

Item	Default	Description
IP Address	0.0.0.0	Enter the IP address provided by your ISP.
Subnet Mask	0.0.0.0	Enter the subnet mask for the IP address.
Gateway IP Address	0.0.0.0	Enter the Gateway IP Address provided by your ISP.
Primary DNS Server	Empty	Enter the primary DNS server IP address for the xDSL/Cable connection (provided by your ISP).
Secondary DNS Server	Empty	Enter the secondary DNS server IP address for the xDSL/Cable connection (provided by your ISP). If the primary DNS Server IP were not available, meanwhile, Secondary DNS Server IP would start in the same time.

● **PPPoE (Point-to-Point Protocol over Ethernet)**

If “PPPoE” is selected, then this screen will appear. Enter the username, password and other major fields.

Figure 3-8 Internet Connection Setting Screen—PPPoE Setting

Item	Default	Description
Username	Empty	Enter the user name provided by your ISP. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter the user password provided by your ISP. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1492	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1452	MSS (Maximum Segment Size) specifies maximum segment size.
Service Name	Empty	Enter the service name provided by your ISP. The service name can consist of up to 64 alphanumeric characters and is case sensitive.

Item	Default	Description
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your Wireless Subscriber Gateway to cut your connection with your ISP after a specified period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect on Demand enables your Wireless Subscriber Gateway to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
Keep alive and Redial Period		
Keep alive	Disable	This option keeps your PPPoE enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	

● **PPTP Client (Point-to-Point Tunneling Protocol)**

If “PPTP” is selected, then this screen will appear. Fill out all the information provided by your ISP.

## Internet Connection

Please choose one from the following selections

PPTP (Mostly for Europe ADSL modem users) ▼

**Your ISP requires you to input username / password / PPTP setting**

My IP Address:

My Subnet Mask:

Gateway IP address:

PPTP Server IP Address:

Username:

Password:

PPP MTU Setting:

TCP MSS Setting:

Connection ID/Name:

**Connect on Demand**      Max Idle Time:  Min.

**Keep alive**      Redial Period:  Sec.

**Next >**

Figure 3-9 Internet Connection Setting Screen—PPTP Client Setting

Item	Default	Description
My IP Address	Empty	Enter the PPTP local IP address provided by your ISP.
My Subnet Mask	Empty	Enter the PPTP local Subnet Mask IP address for the IP address (My IP Address).

Item	Default	Description
Gateway IP Address	Empty	Enter the PPTP server Gateway IP address provided by your ISP.
PPTP Server IP Address	Empty	Enter the PPTP server IP address provided by your ISP.
Username	Empty	Enter the user name provided by your ISP. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter the user password provided by your ISP. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1460	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1400	MSS (Maximum Segment Size) specifies maximum segment size.
Connection ID/Name	Empty	Enter the connection ID or connection name. The connection ID/Name can consist of up to 81 alphanumeric characters and is case sensitive.
<b>Connect on Demand and Max Idle Time</b>		
Connect on Demand	Enable	You can configure your Wireless Subscriber Gateway to cut your connection with your ISP after a specified period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect on Demand enables your Wireless Subscriber Gateway to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
<b>Keep alive and Redial Period</b>		
Keep alive	Disable	This option keeps your PPTP enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	



### Step 5: E-mail Server Setting

Wireless Subscriber Gateway allows an extra Email server parameter to forward the subscriber's E-mail.

Figure 3-11 E-mail Service Setting Screen

Item	Default	Description
Email Server Redirect	No	Disables or enables email server redirect function. To prevent some subscriber's original Email server may protect by firewall or NAT network. Wireless Subscriber Gateway provides an extra Email server parameter to forward the subscriber's Email. The Wireless Subscriber Gateway not only forwards the subscribers' E-mail via other E-mail server but also changes the SMTP header. The recipient of your E-mail sees the message as if you sent it from your local Internet Service Provide, not form the hotel or other place.
Email Server's IP address or Domain name	Empty	Before setting this field, please make sure the E-mail sever relay function is opened. Enter the email server IP address or domain name. The field must not exceed 50 characters.
SMTP Port	25	Enter the SMTP port. The SMTP port allowed range is 25 or 2500 to 2599.

Step 6: Authentication Service Setting

**1** INTERNET

**2** WIRELESS

**3** E-MAIL

**4** AUTHENTICATION

**5** BILLING

**6** PRINTER

**7** ACCOUNTING

**8** SYSTEM

### Authentication Service

Do you need to authenticate users ?

**Yes**, The users need to be authenticated before accessing the Internet

**No**, The users can access the Internet without authentication

< Back
Next >

Figure 3-12 Authentication Service Setting Screen

Item	Default	Description
Built-in Authentication/ No Authentication	No No Authentication)	<p><b>Yes—</b> Wireless Subscriber Gateway provides Built-in Authentication for service provider to build up an Internet service without any extra authentication software. If <b>Yes</b> is selected, service provider can generate the subscriber account inside Wireless Subscriber Gateway, and the system will authenticate the subscriber login according to the generated account.</p> <p><b>No—</b> Subscriber can direct access the Internet without enter username and password.</p>

## Step 7: Billing Profile Setting

The function is used to setup a billing profile. A billing profile is a description of how you want to charge your customer.

**1** INTERNET

**2** WIRELESS

**3** E-MAIL

**4** AUTHENTICATION

**5** BILLING

**6** PRINTER

**7** ACCOUNTING

**8** SYSTEM

Billing Profile

### What is your service and price plan ?

**Time to Finish**  
The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.

**Accumulation**  
The subscriber can access Internet several times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.

**Service and Price Plan**

Currency: \$  ( Number of decimals places:  )

No.	Name (max. 12 char.)	Usage time		Charge
01	<input type="text" value="30 minutes"/>	<input type="text" value="30"/>	minutes ▾	<input type="text" value="1.00"/>
02	<input type="text" value="1 hour"/>	<input type="text" value="1"/>	hours ▾	<input type="text" value="2.00"/>
03	<input type="text" value="2 hours"/>	<input type="text" value="2"/>	hours ▾	<input type="text" value="3.00"/>

Figure 3-13 Billing Profile Setting Screen

Item	Default	Description
Service	Time to Finish	<p>Options: <b>Time to Finish</b> or <b>Accumulation</b>.</p> <p><b>Time to Finish—</b> The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.</p> <p><b>Accumulation—</b> The subscriber can access Internet many times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.</p>

Item	Default	Description
Currency	\$	Enter the appropriate currency unit or currency symbol.
Number of decimals places	2	Enter the billing decimal value. The field maximum value is 3.
No	01~03	The index number of billing profile. In Wizard setup, we provide only 3 billing profile.
Name	30 minutes/ 1 hour/ 2 hours	It is the name of billing profile. The maximum allowed characters length is 12.
Usage Time	30 minutes/ 1 hour/ 2 hours	The duration of the billing period. When this period expires, user account will be discontinued.
Charge	1.00/2.00/3.00	Enter the amount of Internet service. The amount maximum value is 999999.

### Step 8: Account Generator Printer Setting

There are two different choices, one is exclusive printer (Account Generator Printer), and the other is non-exclusive printer. Exclusive printer is a portable thermal printer that is integrated with Wireless Subscriber Gateway to press one button to generate accounts and receipt immediately without PC operating. Non-exclusive printer can use the PC Web-based browser to print out user account.

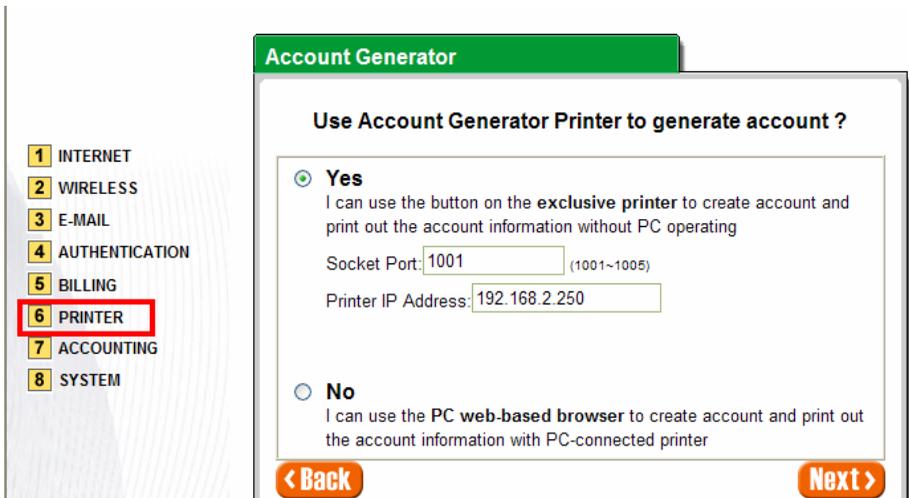


Figure 3-14 Printer Setting Screen

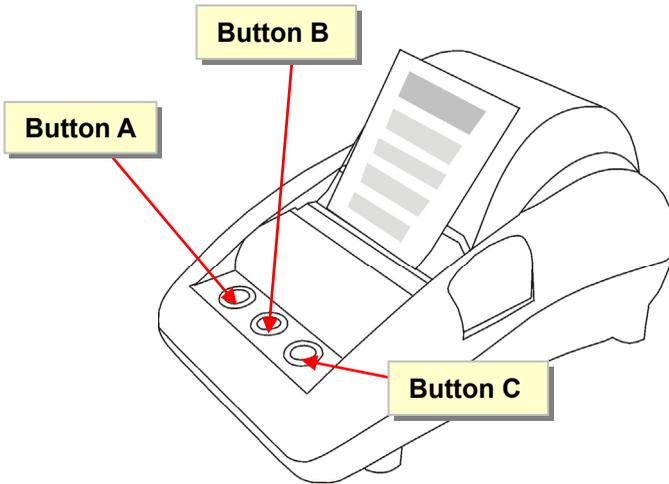


Figure 3-15 Account Generator Printer

**Step 9: Accounting Setting**

● **Three-buttons Printer Setting**

- 1 INTERNET
- 2 WIRELESS
- 3 E-MAIL
- 4 AUTHENTICATION
- 5 BILLING
- 6 PRINTER
- 7 ACCOUNTING
- 8 SYSTEM

**Account Generator**

**Three-buttons Printer Setting**

	Button	Billing Profile
Setting	Button A	(01) 30 minutes, 30 minutes, \$1.00 ▼
	Button B	(02) 1 hour, 1 hours, \$2.00 ▼
	Button C	(03) 2 hours, 2 hours, \$3.00 ▼

Printout

Number of copies to print : 1 ▼

**Customize printout text**

**I want to setup the web-based accounting now if exclusive printer cannot work**

**< Back**
**Next >**

Figure 3-16 Accounting Setting Screen (Three Buttons Printer)

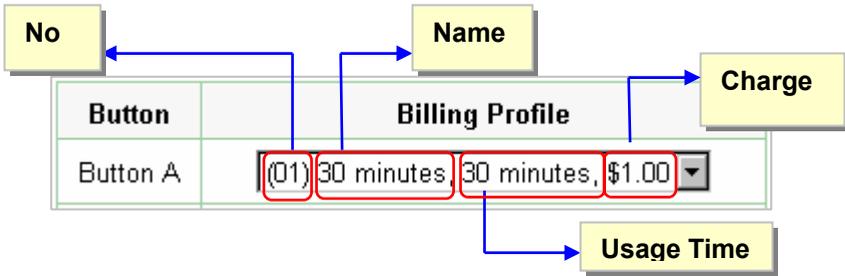


Figure 3-17 Billing Profile Setting Screen

Item	Default	Description
Button A~ C	01	Define each button's billing profile. Select one billing profile by clicking in the list box.
Printout		
Number of copies to print	1	The system allows you to print all your bills. This value is number of copies.
<b>Customize printout text</b>	This function allows you to produce custom bill based on your requirements.	
<b>I want to setup the web-based accounting now if exclusive printer cannot work</b>		
Click "I want to setup the web-based accounting now if exclusive printer cannot work" to open the "Web-based Account Generator Setting" screen to start the web-based accounting function.		

● Web-based Account Generator Setting

Account Generator

Web-based Account Generator Setting
Preview / Operate

	Button	Billing Profile
Setting	Button A	(01) 30 minutes, 30 minutes, \$1.00 ▾
	Button B	(02) 1 hour, 1 hours, \$2.00 ▾
	Button C	(03) 2 hours, 2 hours, \$3.00 ▾

Printout

Number of copies to print :  ▾

Customize printout text

Please set your password for web-based account generator

Username

Password  Confirm:

< Back

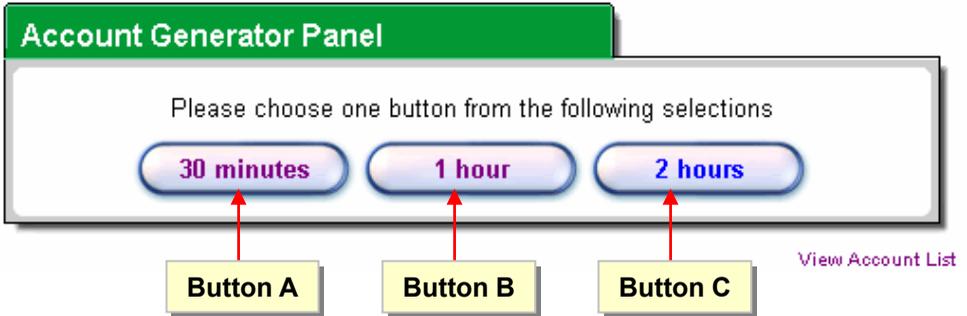
Next >

Figure 3-18 Web-based Account Generator Setting Screen

Item	Default	Description
Billing Profile (Button A~C)		Define each button's billing profile. Select one billing profile by clicking in the list box.
Printout		
Number of copies to print	1	The system allows you to print all your bills. Select one number of copies by clicking in the list box.
<a href="#">Customize printout text</a>	-	This function allows you to produce custom bill based on your requirements.
Web-based Account		
Username	account	Enter the user name for web-based account generator. The user name can consist of up to 80 alphanumeric characters and is case sensitive.

Item	Default	Description
Password	account	Enter the password for web-based account generator. The password can consist of up to 80 alphanumeric characters and is case sensitive.
Confirm	Empty	Enter the password for confirmation.

**Preview / Operate** *Click on button to preview and operate account generator panel.*



*Figure 3-19 Account Generator Panel*

Click on button to create a new account.

Welcome!

-----  
Hotspot Internet Service  
-----

Username:52n9rm36

Password:adedc933

Billing: Time to Finish

Service: 30 minutes

Unit: 1

Usage Time: 0:30:00

Total \$1.00  
-----

ESSID: Wireless

WEP:  
-----

2002/3/3 21:14:36

S/N:000001

Please start your account before

2002/3/4 09:14:36

Thank you very much !

Close

Print

*Figure 3-20 Example-Account Printout*

## View Account List

Click "View Account List" to display current account information.

ACCOUNT LIST							
List existing account's information.							<a href="#">refresh</a>
S/N	Status	Username	Usage Time	Time Created	Login Time	Expiration Time	Delete
000007	Un-used	22f68g52	0:30:00	2002/3/3 21:21:51		2002/3/4 09:21:51	<input type="checkbox"/>
000008	In-used	j4x9yt28	2:00:00	2002/3/3 21:22:28	2002/3/3 21:23:56	2002/3/3 23:23:56	<input type="checkbox"/>

[GO](#) 1 Page [Delete](#) [Delete All](#)  
First Previous Next End

Figure 3-21 Account List



Click on refresh button to update the account list page.

S/N	Status	Username	Usage Time	Time Created	Login Time	Expiration Time
-----	--------	----------	------------	--------------	------------	-----------------

The field name button in this list show that this list can be sorted in ascending/descending order according to the corresponding field name.



Select the check boxes and click 'Delete' to delete accounts.



Delete all accounts in account list.

---

**Note:** This page will refresh automatically every 5 minutes.

---

## Customize Printout Text [Customize printout text](#)

This function allows you to produce custom bill based on your requirements.

CUSTOMIZATION	
Account Printout Customization	
<input type="checkbox"/> Logo	<i>* Only for PC-connected printer</i>
Title:	<input type="text" value="Welcome!"/> (Max.=75)
Subtitle:	<input type="text" value="Hotspot Internet Service"/> (Max.=80)
Username:	<input type="text" value="Username:"/> (Max.=24)
Password:	<input type="text" value="Password:"/> (Max.=24)
<input checked="" type="checkbox"/> Billing Method:	Time To Finish <input type="text" value="Billing: Time to Finish"/> (Max.=24)
	Accumulation <input type="text" value="Billing: Accumulation"/> (Max.=24)
<input checked="" type="checkbox"/> Billing Profile:	<input type="text" value="Service:"/> (Max.=24)
<input checked="" type="checkbox"/> Purchase Unit:	<input type="text" value="Unit:"/> (Max.=24)
Usage Time:	<input type="text" value="Usage Time:"/> (Max.=24)
<input checked="" type="checkbox"/> Price:	<input type="text" value="Total"/> (Max.=24)
Tax:	<input type="text" value="Tax:"/> (Max.=24) TOTAL: <input type="text" value="Grand Total:"/> (Max.=24)
<input checked="" type="checkbox"/> ESSID:	<input type="text" value="ESSID:"/> (Max.=24)
Wireless Security	WPA: <input type="text" value="WPA:"/> (Max.=24)
	WEP: <input type="text" value="WEP:"/> (Max.=24)
<input type="checkbox"/> Additional Label 1:	<input type="text" value=""/> (Max.=24) Value: <input type="text" value=""/> (Max.=24)
<input type="checkbox"/> Additional Label 2:	<input type="text" value=""/> (Max.=24) Value: <input type="text" value=""/> (Max.=24)
<input checked="" type="checkbox"/> Print out Time:	Format: <input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/> (HH:24h hh:12h tt:AM/PM)
<input checked="" type="checkbox"/> Expiration Time:	Description: <input type="text" value="Please activate your account before"/> (Max.=24*3)
	Format: <input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/> (HH:24h hh:12h tt:AM/PM)
<input checked="" type="checkbox"/> Ending:	Accumulation: <input type="text" value="Please finish your usage time within 3 months after your first login"/> (Max.=24*4) <input checked="" type="checkbox"/>
	<input type="text" value="Thank you very much!"/> (Max.=24*10)

[Preview of PC-connected printer](#)  
[Preview of account generator printer](#)  
[Preview of Post-Paid Printout](#)

Figure 3-22 Customize Printout Text Setting Screen

 [Preview of PC-connected printer](#)

 [Preview of account generator printer](#)

 [Preview of Post-Paid Printout](#)

Click the button to displays the account on the screen as it would appear when printed.

<b>Welcome!</b>	
<b>Hotspot Internet Service</b>	
Username:	XXXXXXXX
Password:	XXXXXXXX
Billing:	Time to Finish
Service:	30 minutes
Unit:	1
Usage Time:	0:30:00
<b>Total</b>	<b>\$1.00</b>
ESSID: Wireless	
S/N:000001	2005/2/1 10:21:40
Please activate your account before	
2005/2/1 22:21:40	
<b>Thank you very much !</b>	
<input type="button" value="Close"/> <input type="button" value="Print"/>	

Figure 3-23 Example- PC-connected printer Printout (Time to Finish)

<b>Welcome!</b>	
<b>Hotspot Internet Service</b>	
Username:	XXXXXXXX
Password:	XXXXXXXX
Billing:	Accumulation
Service:	30 minutes
Unit:	1
Usage Time:	0:30:00
<b>Total</b>	<b>\$1.00</b>
ESSID: Wireless	
S/N:000001	2004/11/26 15:37:06
Please activate your account before 2004/11/27 03:37:06	
Please finish your usage time within 3 months after your first login	
<b>Thank you very much !</b>	
<input type="button" value="Close"/> <input type="button" value="Print"/>	

Figure 3-24 Example- PC-connected printer Printout (Accumulation)

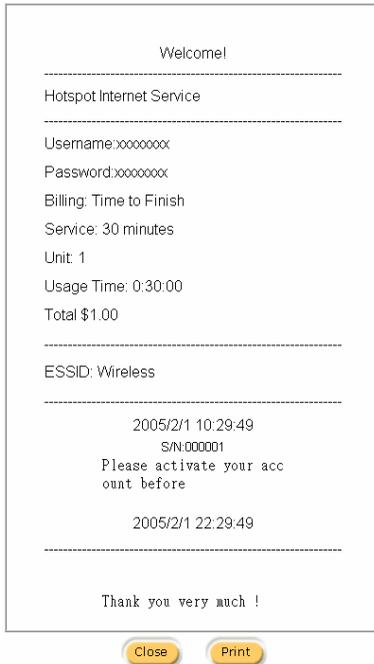


Figure 3-25 Example- Account Generator Printer Printout (Time to Finish)



Figure 3-26 Example- Account Generator Printer Printout (Accumulation)

## Example Preview

### 1.Create accounts

```

Welcome!
-----
S/N:001234
-----
Hotspot Internet Service
-----
Username:xxxxxxxx
Password:xxxxxxxx
-----
ESSID: Wireless
-----

2005/2/1 10:50:14
Please activate your acc
ount before

2005/2/1 22:50:14
-----

Thank you very much !

```

Press "ENTER "

### 2.Bill accounts

```

Welcome!
-----
S/N:001234
-----
Hotspot Internet Service
-----
Username:xxxxxxxx
Password:xxxxxxxx
Usage Time:
Billing: Time to Finish
Total $ 100.00
-----

2005/2/1 10:50:14
-----

Thank you very much !

```

Press "\*" "001234 "and "ENTER "

Close

Figure 3-27 Example-Post-paid Printout

**Step 10: System Setting**

Figure 3-28 System Setting Screen

Item	Default	Description
Username	admin	Enter the user name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	admin	Enter the user password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
Confirm	Empty	Enter the password of administrator for confirmation.
System date and time	YYYY/MM/DD HH:MM:SS	<div style="text-align: center; border: 1px solid gray; padding: 2px; margin-bottom: 5px;">Get from my Computer</div> Click <b>Get from my Computer</b> button to correct the system date and time.
Secure Administrator IP Address	All	This function allows remote user to management the device. You can specify one or any IP addresses for remote control the system.



Click the button to save the settings then the system will restart.

### 3-2 Advanced Setup

The Advanced Setting enables you to configure advanced settings related to accessing the Internet, including,

1. System
2. WAN/LAN
3. Server
4. Authentication
5. RADIUS
6. Billing
7. Accounting
8. Credit Card
9. Keypad
10. Customization
11. Pass Through
12. Filtering
13. Share
14. Portal Page
15. Advertisement
16. Walled Garden
17. DDNS
18. LAN Devices
19. Syslog
20. Session Trace
21. Bandwidth
22. Secure Remote
23. SNMP
24. Wireless
25. Account Generator



Figure 3-29 Advanced Setting Item Screen

---

**Note:** After change the settings of device, please click **apply** button to save the new settings.

---

### 3-2-1 System

Define the Wireless Subscriber Gateway System configuration.

SYSTEM								
System/Host Name	<input type="text"/>							
Domain Name	<input type="text"/>							
Location Information	Location Name: <input type="text"/> (Max.=50)							
	Address: <input type="text"/> (Max.=200)							
	City: <input type="text"/> (Max.=50)							
	State / Province: <input type="text"/> (Max.=50)							
	Zip / Postal Code: <input type="text"/> (Max.=10)							
	Country: <input type="text"/> (Max.=50)							
	Contact Name: <input type="text"/> (Max.=50)							
	Contact Telephone: <input type="text"/> (Max.=50)							
	Contact FAX: <input type="text"/> (Max.=50)							
	Contact Email: <input type="text"/> (Max.=50)							
Date/Time	Date: <input type="text" value="2005"/> / <input type="text" value="2"/> / <input type="text" value="1"/> (Year/Month/Day)							
	Time: <input type="text" value="11"/> : <input type="text" value="24"/> : <input type="text" value="13"/> (Hour : Minute : Second)							
	<input type="button" value="Get from my Computer"/> <input type="button" value="Get from NTP server"/>							
	<input type="checkbox"/> NTP Setting							
	<table border="1"><tr><td>Server IP/Domain Name</td><td><input type="text"/></td></tr><tr><td>Time Zone</td><td><input type="text" value="GMT -12:00"/></td></tr><tr><td>Update Time</td><td><input type="text" value="0"/> hours</td></tr><tr><td><input type="checkbox"/> Daylight Saving Time</td><td>Start Date: <input type="text" value="4"/> Month / <input type="text" value="1"/> Day End Date: <input type="text" value="10"/> Month / <input type="text" value="31"/> Day</td></tr></table>	Server IP/Domain Name	<input type="text"/>	Time Zone	<input type="text" value="GMT -12:00"/>	Update Time	<input type="text" value="0"/> hours	<input type="checkbox"/> Daylight Saving Time
Server IP/Domain Name	<input type="text"/>							
Time Zone	<input type="text" value="GMT -12:00"/>							
Update Time	<input type="text" value="0"/> hours							
<input type="checkbox"/> Daylight Saving Time	Start Date: <input type="text" value="4"/> Month / <input type="text" value="1"/> Day End Date: <input type="text" value="10"/> Month / <input type="text" value="31"/> Day							

Figure 3-30 System Setting Screen

<b>NAT (Network Address Translation)</b>	<input checked="" type="radio"/> <b>Enable</b> <input checked="" type="checkbox"/> IP Plug and Play <input type="radio"/> <b>Disable</b>																				
<b>User Session Limited</b>	<input checked="" type="radio"/> Enable <input type="text" value="30"/> (1~1024) <input type="radio"/> Disable																				
<b>Layer 2 Isolation Security</b>	<input checked="" type="radio"/> Enable <input type="radio"/> Disable																				
<b>Secure administrator IP addresses</b>	<input checked="" type="radio"/> <b>Any</b> <input type="radio"/> <b>Specify</b> <table border="1"> <tr><td>1</td><td><input type="text"/></td><td>~</td><td><input type="text"/></td></tr> <tr><td>2</td><td><input type="text"/></td><td>~</td><td><input type="text"/></td></tr> <tr><td>3</td><td><input type="text"/></td><td>~</td><td><input type="text"/></td></tr> <tr><td>4</td><td><input type="text"/></td><td>~</td><td><input type="text"/></td></tr> <tr><td>5</td><td><input type="text"/></td><td>~</td><td><input type="text"/></td></tr> </table>	1	<input type="text"/>	~	<input type="text"/>	2	<input type="text"/>	~	<input type="text"/>	3	<input type="text"/>	~	<input type="text"/>	4	<input type="text"/>	~	<input type="text"/>	5	<input type="text"/>	~	<input type="text"/>
1	<input type="text"/>	~	<input type="text"/>																		
2	<input type="text"/>	~	<input type="text"/>																		
3	<input type="text"/>	~	<input type="text"/>																		
4	<input type="text"/>	~	<input type="text"/>																		
5	<input type="text"/>	~	<input type="text"/>																		
<b>Multicast Pass Through</b>	<input type="radio"/> Enable <input checked="" type="radio"/> Disable																				
<b>Allow remote user to ping the device</b>	<input checked="" type="radio"/> Enable <input type="radio"/> Disable																				
<b>SSL Certificate</b>	<input checked="" type="radio"/> Default <input type="radio"/> Customer Certificate																				

Figure 3-31 System Setting Screen

Item	Default	Description
System/Host Name	Empty	The system name can consist of up to 40 alphanumeric characters.
Domain Name	Empty	The Domain name can consist of up to 80 alphanumeric characters.
Location Information	Empty	Enter your location information.
<b>Date/Time</b>		
Date (Year/Month/Day)	System Date	The system date of the Wireless Subscriber Gateway. The valid setting of year is from 2002 to 2035.
Time (Hour:Minute:Second)	System Time	The system time of the Wireless Subscriber Gateway.
<input type="button" value="Get from my Computer"/>	-	Click "Get from my Computer" button to correct the system date and time.
<input type="button" value="Get from NTP server"/>	-	Click "Get from NTP server" button to correct the system date and time.

Item	Default	Description
NTP Setting	Disable	Enables or disables NTP (Network Time Protocol) Time Server. Network Time Protocol can be utilized to synchronize the time on devices across a network. A NTP Time Server is utilized to obtain the correct time from a time source and adjust the local time.
Server IP/Domain Name	Empty	Enter the IP address/domain name of NTP server. The maximum allowed characters length is 100.
Time Zone	GMT-12:00	Select the appropriate time zone for your location.
Update Time	0 hours	Enter the number of hours for update time.
Daylight Saving Time	Disable	Enables or disables Daylight Saving Time (DST).
	Month/Day	Set the Daylight Saving Time (DST) on the Wireless Subscriber Gateway. Adjust the begin time and end time.
<b>NAT (Network Address Translation)</b>		
NAT	Enable	Enables or disables NAT Address Translation function.
User Session Limited	Enable,30	Enables or disables user session limit function. This feature provides you an ability to control a number of sessions allowed for particulars user(s) at the one time.
IP Plug and Play (iPnP Technology)	Enable	Enables or disables plug & play function. When enabled, the user needn't change their network configuration to access the Internet.
Layer 2 Isolation Security	Enable	If enable plug and play is selected, you can enable Layer 2 Isolation Security function. When the "Layer 2 Isolation Security" enabled, everyone cannot communicate with each other.
Secure administrator IP Addresses	Any	Options: Any and Specify. Administrator can specify 5 IP addresses or a range to allow remote control access from network.
Multicast Pass Through	Disable	This function allows for multiple transmissions to specific recipients at same time.
Allow remote user to ping the device	Enable	This function allows remote user to ping the Wireless Subscriber Gateway through Internet. Ping is normally used to test the physical connection between two devices, to ensure that everything is working correctly.

Item	Default	Description
SSL Certificate	Default	Option: default or customize certificate, These are two ways to create a certificate, one is purchase a certificate from a certificate authority (Ex. Verisign or Thawte), and another is creating a self-certificate (For example: Uses OpenSSL tool).

 Click **Apply** button to save the new settings.

Click **Apply** button, then Restart dialog box will appear. Click **Apply** to restart the system.

RESTART

**Do you want to restart the system ?**



Figure 3-32 Restart Dialog Box

### 3-2-2 WAN/LAN

#### WAN / LAN

<b>LAN</b>	<p style="color: green; font-weight: bold; margin: 0;">The Device IP Address and Subnet mask settings</p> <p>IP Address: <input style="width: 150px;" type="text" value="192.168.2.1"/></p> <p>Subnet Mask: <input style="width: 150px;" type="text" value="255.255.255.0"/></p>
<b>WAN MAC Address</b>	<p><input checked="" type="radio"/> Default</p> <p><input type="radio"/> Change to: <input style="width: 20px;" type="text" value="00"/> : <input style="width: 20px;" type="text" value="00"/></p>
<b>WAN Port Mode</b>	<p><input checked="" type="radio"/> <b>DHCP Client</b> ( Mostly for Cable modem users or Local Area Network )</p> <p><input type="radio"/> <b>Static IP</b> ( Mostly for a dvanced Local Area Network environment )</p> <p><input type="radio"/> <b>PPPoE</b> ( Mostly for ADSL modem users )</p> <p><input type="radio"/> <b>PPTP</b> ( Mostly for Europe ADSL modem users )</p>
	

Figure 3-33 WAN/LAN Setting Screen

 Click **Apply** button to save the new settings.

Click **Apply** button, then Restart dialog box will appear. Click **Apply** to restart the system.

## RESTART

Do you want to restart the system ?

Apply

Figure 3-34 Restart Dialog Box

## WAN / LAN

LAN	<b>The Device IP Address and Subnet mask settings</b>	
	IP Address:	<input type="text" value="192.168.2.1"/>
	Subnet Mask:	<input type="text" value="255.255.255.0"/>

### ● Device IP (LAN IP) Setting

Figure 3-35 Device IP (LAN IP) Setting

Item	Default	Description
IP Address	192.168.2.1	The internal LAN IP address of your Wireless Subscriber Server Gateway.
Subnet Mask	255.0.0.0	Enter the subnet mask for the IP address.

### ● WAN MAC Address

WAN MAC Address	<input checked="" type="radio"/> Default
	<input type="radio"/> Change to: <input type="text" value="00"/> : <input type="text" value="00"/>

Figure 3-36 WAN MAC Address Setting

Item	Description
IP Address	The default MAC address is set to the WAN physical interface on device.

### ● WAN Port Mode

WAN Port Mode	<input checked="" type="radio"/> <b>DHCP Client</b> ( Mostly for Cable modem users or Local Area Network )
	<input type="radio"/> <b>Static IP</b> ( Mostly for advanced Local Area Network environment )
	<input type="radio"/> <b>PPPoE</b> ( Mostly for ADSL modem users )
	<input type="radio"/> <b>PPTP</b> ( Mostly for Europe ADSL modem users )

Figure 3-37 WAN Port Mode Setting

### **DHCP Client**

The device can work as a DHCP client. This allows the device to obtain the IP address and other TCP/IP settings from your ISP. If your xDSL/Cable comes with this feature, please enable Use DHCP Client.



Figure 3-38 DHCP Client Setting Screen

### **Static IP**

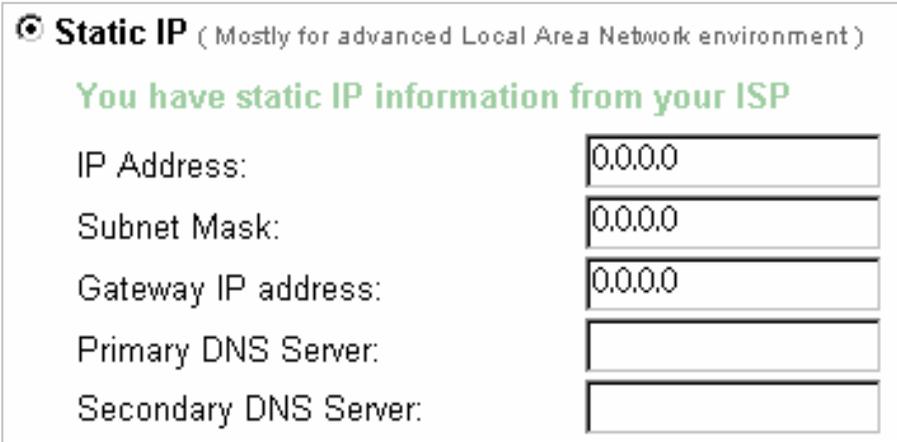


Figure 3-39 Static IP Setting Screen

Item	Description
IP Address	Enter the IP address for the xDSL/Cable connection (provided by your ISP).
Subnet Mask	Enter the subnet mask for the IP address.
Gateway IP Gateway	Enter the Gateway IP address for the xDSL/Cable connection (provided by your ISP).
Primary DNS Server	A primary DNS server IP address for the xDSL/Cable connection (provided by your ISP).
Secondary DNS Server	A secondary DNS server IP address for the xDSL/Cable connection (provided by your ISP). If the primary DNS Server IP were not available, meanwhile, Secondary DNS Server IP would start in the same time.

## PPPoE

**PPPoE** ( Mostly for ADSL modem users )

Your ISP requires you to input username / password

Username:

Password:

PPP MTU Setting:

TCP MSS Setting:

Service Name:

**Connect on Demand**      Max Idle Time:  Min.

**Keep alive**      Redial Period:  Sec.

Figure 3-40 PPPoE Setting Screen

Item	Default	Description
User Name	Empty	Enter your PPPoE account name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter your PPPoE password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1492	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1452	MSS (Maximum Segment Size) specifies maximum segment size.

Item	Default	Description
Service Name	Empty	Enter the service name provided by your ISP. The service name can consist of up to 64 alphanumeric characters and is case sensitive.
<b>Connect on Demand and Max Idle Time</b>		
Connect on Demand	Enable	You can configure your Wireless Subscriber Gateway to cut your connection with your ISP after a specified period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect on Demand enables your Wireless Subscriber Gateway to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
<b>Keep alive and Redial Period</b>		
Keep alive	Disable	This option keeps your PPPoE enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	

● PPTP

**PPTP** ( Mostly for Europe ADSL modem users )

Your ISP requires you to input username / password / PPTP setting

My IP Address:

My Subnet Mask:

Gateway IP address:

PPTP Server IP Address:

Username:

Password:

PPP MTU Setting:

TCP MSS Setting:

Connection ID/Name:

**Connect on Demand** Max Idle Time:  Min.

**Keep alive** Redial Period:  Sec.

Figure 3-41 PPTP Setting Screen

Item	Default	Description
My IP Address	Empty	A PPTP local IP address for the xDSL/Cable connection (provided by your ISP).
My Subnet Mask	Empty	Enter the PPTP local IP address for the xDSL/Cable connection.
Gateway IP Address	Empty	A PPTP local default gateway for the xDSL/Cable connection (provided by your ISP).
PPTP Server IP Address	Empty	Enter the PPTP server IP address for the xDSL/Cable connection (provided by your ISP).
Username	Empty	Enter your PPTP account name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.

Item	Default	Description
Password	Empty	Enter your PPTP password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1460	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1400	MSS (Maximum Segment Size) specifies maximum segment size.
Connection ID/Name	Empty	Enter the connection ID or connection name. The connection ID/Name can consist of up to 81 alphanumeric characters and is case sensitive.
<b>Connect on Demand and Max Idle Time</b>		
Connect on Demand	Enable	You can configure your Wireless Subscriber Gateway to cut your connection with your ISP after a specified period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect on Demand enables your Wireless Subscriber Gateway to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
<b>Keep alive and Redial Period</b>		
Keep alive	Disable	This option keeps your PPTP enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	

### 3-2-3 Server

#### SERVER

Web Server	<input checked="" type="radio"/> HTTP Port: <input type="text" value="80"/> (80,8010-8060) <input type="radio"/> HTTPS Port: <input type="text" value="443"/> (443,4430-4440) Administrator Idle-Timeout: <input type="text" value="5"/> Min(s) (1 - 1440)
DHCP Server	<input type="radio"/> DHCP Disable <input type="radio"/> DHCP Relay DHCP Server IP Address: <input type="text"/> <input checked="" type="radio"/> DHCP Server IP Pool Starting Address: <input type="text" value="192.168.2.1"/> Pool Size: <input type="text" value="253"/> (Max=253) Lease Time: <input type="text" value="300"/> (Minutes) Primary DNS Server: <input type="text" value="168.95.1.1"/> Secondary DNS Server: <input type="text"/>
Email Server Redirect	IP Address or Domain Name: <input type="text"/> SMTP Port: <input type="text" value="25"/> (25, 2500 - 2599)
<input type="button" value="Apply"/>	

Figure 3-42 Server Setting Screen

Item	Default	Description
Web Server		
HTTP Port	80	Enter the HTTP port number. The HTTP port allowed range is 80 or 8010 to 8060. For access the Wireless Subscriber Gateway system under NAT, please tab the "http://HTTP Port IP Address: Port Number".
HTTPS Port	443	Enter the HTTPS port number. The HTTPS port allowed range is 443 or 4430 to 4440. For access the Wireless Subscriber Gateway system, please tab the "https://HTTPS Port IP Address: Port Number".
Administrator Idle-Timeout	5 Minutes	The idle time out valid range is 1-1440. If the idle time out is set as 5 minutes, it means if the administrator doesn't send packet in 5 minutes, the administrator will logout automatically.

Item	Default	Description
DHCP Server	Enable	There are three types of DHCP Services. DHCP Disable—Disable the DHCP server function. DHCP Relay—Enable DHCP Relay function. DHCP Server—Enable DHCP server function.
DHCP Relay	To route DHCP through an external server, the administrator needs to enable the DHCP relay and assign a valid DHCP server IP address.	
DHCP Server IP Address	Empty	Enter the IP address of DHCP server.
DHCP Server	The Wireless Subscriber Gateway's DHCP server is turned on and running by default when you install it in your network.	
DHCP Pool Starting Address	192.168.2.2	Enter the DHCP Pool Starting IP address.
Pool Size	253	The DHCP pool size range is 1 to 512.
Lease Time	300 Minutes	The DHCP lease time. The DHCP lease time range is 1 to 71582788 minutes.
Primary DNS Server	168.95.1.1	Enter the IP address of the network's primary DNS server.
Secondary DNS Server	Empty	Enter the IP address of a second DNS server on the network.
<b>Email Server Redirect</b>	To prevent some subscriber's original Email server may protect by firewall or NAT network. Wireless Subscriber Gateway provides an extra Email server parameter to forward the subscriber's Email. The Wireless Subscriber Gateway not only forwards the subscribers' E-mail via other E-mail server but also changes the SMTP header. The recipient of your E-mail sees the message as if you sent it from your local Internet Service Provide, not form the hotel or other place. Note: Before setting this sever, please make sure the e-mail sever relay function is opened. It must not exceed 50 characters.	
IP Address or Domain Name	Empty	Enter the E-mail server IP address or domain name.
SMTP Port	25	Enter the SMTP port number for mail server. The SMTP port allowed range is 25 or 2500 to 2599.

 Click **Apply** button to save the new settings.

### 3-2-4 Authentication

#### AUTHENTICATION

<b>Authentication Type</b>	<input checked="" type="radio"/> <b>No Authentication</b> <input type="radio"/> <b>Built-in Authentication</b> <input type="radio"/> <b>User Agreement</b> <ul style="list-style-type: none"> <li><input type="radio"/> Redirect URL Link <input type="text"/> <a href="#">Code</a></li> <li><input checked="" type="radio"/> Standard User Agreement Page</li> </ul> <input type="radio"/> <b>WIFICOM</b> <small>(only for RADIUS authentication)</small> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 50%; padding: 2px;">Redirect Login Page URL:</td> <td style="padding: 2px;"><input type="text"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> Behind NAT <small>(in case the device is installed behind NAT)</small></td> <td style="padding: 2px;">NAS IP <input type="text"/></td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">SSL Port <input type="text" value="443"/></td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">Virtual SSL port <input type="text" value="0"/></td> </tr> </table>	Redirect Login Page URL:	<input type="text"/>	<input type="checkbox"/> Behind NAT <small>(in case the device is installed behind NAT)</small>	NAS IP <input type="text"/>		SSL Port <input type="text" value="443"/>		Virtual SSL port <input type="text" value="0"/>
Redirect Login Page URL:	<input type="text"/>								
<input type="checkbox"/> Behind NAT <small>(in case the device is installed behind NAT)</small>	NAS IP <input type="text"/>								
	SSL Port <input type="text" value="443"/>								
	Virtual SSL port <input type="text" value="0"/>								
<b>Current User Information Backup</b>	<input type="text" value="1"/> Min(s)(1 - 1440)								
<b>SSL Login Page</b>	<input checked="" type="radio"/> <b>Disable</b> <input type="radio"/> <b>Enable</b>								
<b>User Idle Time Out</b>	<input type="text" value="5"/> Min(s)(1 - 1440) <small>(Not function on "Time to Finish" billing mode)</small>								
<input type="button" value="Apply"/>									

Figure 3-43 Authentication Setting Screen

Item	Default	Description
Authentication Type	No Authentication	Option: No Authentication, Built-in Authentication or User Agreement.  <b>No Authentication—</b> Subscriber can direct access the Internet without enter username and password.

Item	Default	Description
Authentication Type	No Authentication	<p><b>Built-in Authentication—</b> Wireless Subscriber Gateway provides “Built-in Authentication” for service provider to build up an Internet service without any extra authentication software. If “Built-in Authentication” is selected, service provider can generate the subscriber account inside Wireless Subscriber Gateway, and the system will authenticate the subscriber login according to the generated account.</p> <p><b>User Agreement—</b> Subscriber must accept the service usage agreement before they can access the Internet.</p> <p><b>WIFICOM—</b> Wireless Subscriber Gateway provides this Authentication for WIFICOM service provider to build up an Internet service with RADIUS server. For the detail setup, please contact WiFicom. (<a href="http://www.wificom.com">http://www.wificom.com</a>)</p> <p><b>Wandering Wi-Fi—</b> Wireless Subscriber Gateway provides this Authentication for Wandering Wi-Fi service provider to build up an Internet service with RADIUS server. For the detail setup, please contact Wandering Wi-Fi. (<a href="http://wanderingwifi.com">http://wanderingwifi.com</a>)</p>
Current User Information Backup	1 Min(s)	The system provides automatically backup account information and unused account to flash ROM. This function allow administrator to adjust the backup time. The default value is 1 minute. The Current User Information Backup valid range is 1 to 1440.
Redirect Login Page URL	Empty	The input format can be <a href="http://www.yahoo.com">http://www.yahoo.com</a> . The maximum character of the URL Link is 200.
Code <b>Code</b>	Copy and paste the following HTML Code into your home page to produce	redirect subscriber login page.



### 3-2-5 RADIUS Authentication

RADIUS	
<input checked="" type="radio"/> <b>Disable</b> <input type="radio"/> <b>Enable</b>	
<input checked="" type="radio"/> <b>Time to Finish</b>	The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.
<input type="radio"/> <b>Accumulation</b>	The subscriber can access Internet several times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.
<b>Primary RADIUS Server</b>	Server IP address <input type="text"/>
	Authentication Port <input type="text" value="1812"/>
	Accounting Port <input type="text" value="1813"/>
	Shared Secret Key <input type="text"/>
<b>Secondary RADIUS Server</b>	Server IP address <input type="text"/>
	Authentication Port <input type="text" value="1812"/>
	Accounting Port <input type="text" value="1813"/>
	Shared Secret Key <input type="text"/>
Retry times when Primary fail <input type="text" value="1"/>	
Retry Frequency <input type="text" value="3"/> seconds(3~75)	
<b>Accounting Service</b>	<input type="radio"/> Disable <input checked="" type="radio"/> Enable Interim Update Time: <input type="text" value="5"/> Min(s)
<b>Authentication Method</b>	<input type="text" value="CHAP"/>
WISPr Smart Client	
<input type="checkbox"/> <b>Enable</b>	
<b>Login Mode</b>	<input checked="" type="radio"/> Directly Reply <input type="radio"/> Proxy Reply with "Redirect Login Page" URL <input type="radio"/> Proxy Reply with Specific URL <input type="text"/>
<input type="button" value="Apply"/>	

Figure 3-45 Authentication Setting Screen

Item	Default	Description
RADIUS Authentication	Disable	Option: No Authentication or RADIUS Server. <b>Disable (No Authentication) —</b> Subscriber can direct access the Internet without enter username and password. <b>Enable (RADIUS Authentication) —</b> Wireless Subscriber Gateway provides “RADIUS Authentication” for service provider to build up an Internet service with RADIUS server. If RADIUS Authentication is enabled, all subscribers’ authentication will send to RADIUS Server by RADIUS protocol (RFC 2865, 2866).
Time to Finish/ Accumulation	Enable	Service provider provides two different accounting calculate for the Internet service.
Primary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number; the authentication port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number; the accounting port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	The share secret key, the key number also has to match with the Server setting. Up to 64 characters are allowed.
Secondary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number; the authentication port number must match with the secondary RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number; the accounting port number must match with the secondary RADIUS server setting. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	The share secret key, the key number also has to match with the secondary RADIUS Server setting. Up to 64 characters are allowed.
Retry times when Primary fail	1	Specify the retry times when primary fail.

Item	Default	Description
Retry Frequency ~ Seconds	3	The field default value is 3 seconds.
Accounting Service	Enable	Enables or disables the accounting service.
Interim Update Time	5 Minutes	Specify the interim update time.
Authentication Method	CHAP	Enter the authentication method of RADIUS server.
WISPr Smart Client		
Enable	Disable	Enables or disables WISPr Smart Client roaming function.
Login Mode	Directly Reply	Options: Directly Reply, Proxy Reply with "Redirect Login Page" URL and Proxy Reply with Specific URL. The login mode information for the IPASS GIS connection. (Provided by your ISP).

### 3-2-6 Billing

The function is used to setup a billing profile. A billing profile is a description of how you want to charge your customer.

**BILLING**

**Pre-Paid**  
 The subscribers can access Internet with pre-defined usage time.

**Enable Credit Card Service**

**Time to Finish**  
 The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.

**Accumulation**  
 The subscriber can access Internet several times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.

**Post-Paid (Only for keypad application)**  
 The subscribers can access Internet without pre-defined usage time. This can be operated with an optional external PS/2 keypad which is connected with exclusive printer. The printout will only show the username/password. An account can also be terminated with the optional keypad.

---

**Billing Profile**

Currency: \$  (Number of decimals places: )

Tax Percentage:  %

No.	Active	Name(max. 12 characters)	Account Usage Time	Charge
01	<input checked="" type="checkbox"/>	<input type="text" value="30 minutes"/>	<input type="text" value="30"/> <input type="text" value="minutes"/>	<input type="text" value="1.00"/>
02	<input checked="" type="checkbox"/>	<input type="text" value="1 hour"/>	<input type="text" value="1"/> <input type="text" value="hours"/>	<input type="text" value="2.00"/>
03	<input checked="" type="checkbox"/>	<input type="text" value="2 hours"/>	<input type="text" value="2"/> <input type="text" value="hours"/>	<input type="text" value="3.00"/>
04	<input type="checkbox"/>	<input type="text" value="3 hours"/>	<input type="text" value="3"/> <input type="text" value="hours"/>	<input type="text" value="4.00"/>
05	<input type="checkbox"/>	<input type="text" value="5 hours"/>	<input type="text" value="5"/> <input type="text" value="hours"/>	<input type="text" value="5.00"/>
06	<input type="checkbox"/>	<input type="text" value="10 hours"/>	<input type="text" value="10"/> <input type="text" value="hours"/>	<input type="text" value="6.00"/>
07	<input type="checkbox"/>	<input type="text" value="1 day"/>	<input type="text" value="1"/> <input type="text" value="days"/>	<input type="text" value="10.00"/>
08	<input type="checkbox"/>	<input type="text" value="2 days"/>	<input type="text" value="2"/> <input type="text" value="days"/>	<input type="text" value="20.00"/>
09	<input type="checkbox"/>	<input type="text" value="7 days"/>	<input type="text" value="7"/> <input type="text" value="days"/>	<input type="text" value="50.00"/>
10	<input type="checkbox"/>	<input type="text" value="30 days"/>	<input type="text" value="30"/> <input type="text" value="days"/>	<input type="text" value="200.00"/>

Figure 3-46 Billing Setting Screen

Item	Default	Description
Pre-Paid	Enable	The subscribers can access Internet with pre-defined usage time.

If you change billing mode (Pre-paid→Post-paid or Post-paid→Pre-paid), the system will erase all account and disconnect all on-line users.



Figure 3-47 Message Box

Item	Default	Description
Enable Credit Card Service	Disable	Enables or disables the credit card service. Before you enable credit card service, make sure that your credit service is configured to work and the currency is American dollars. You must be converting all prices on your billing page into American dollars (U.S. dollars). For details, see section 3-2-8 Credit Service. The credit card function only supports the American dollars.

## CREDIT CARD

**Authorize.net**

Version	3.1
Merchant ID	<input type="text"/>
Merchant Password	<input type="checkbox"/> Need Password: <input type="text"/>
Merchant Transaction Key	<input type="text"/>
Payment Gateway	https:// <input type="text" value="secure.authorize.net/gateway/transact.dll"/>
<input type="checkbox"/> Email Additional Information	<input type="checkbox"/> Merchant Name: <input type="text"/> (max. 40 characters) <input type="checkbox"/> Username and Password <input type="checkbox"/> Usage Time

**iValidate.net**

Merchant ID	<input type="text"/>
Terminal ID	<input type="text"/>
Secure Server Address	https:// <input type="text" value="silverado.trivalley.com/merchant/processcc.asp"/>

**Secure Pay**

Merchant ID	<input type="text"/> (max. 7 characters)
SecurePay Address	<input type="text" value="https://www.securepay.com.au/securepay/payments/prod"/>

**Credit Card icons to be displayed on the login page**


 
 
 
 
 
 BankCard

Figure 3-48 Credit Service Setting Screen



Figure 3-49 Error Dialog Box (Credit Card Service=Enable)

Item	Default	Description
Time to Finish	Enable	The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.

Item	Default	Description
Accumulation		
Accumulation	Disable	The subscriber can access Internet many times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.
Idle Time Out	5 Min(s)	The idle time out valid range is 1-1440. If the idle time out is set as 5 minutes, it means if the account doesn't send packet in 5 minutes, the account will logout automatically.

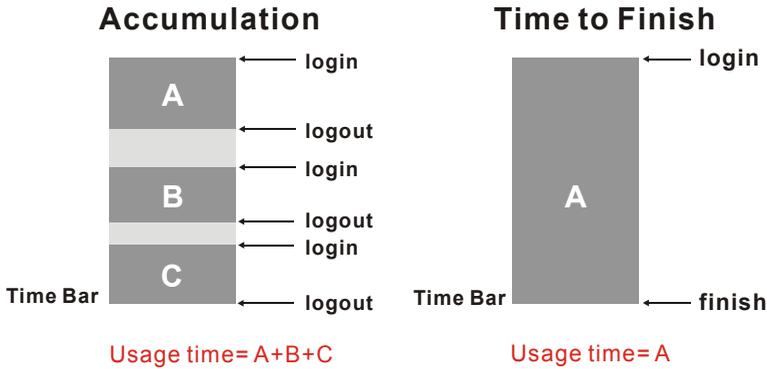


Figure 3-50 Accumulation and Time to Finish

Item	Default	Description
Post-Paid	Disable	The subscribers can access Internet without pre-defined usage time. This can be operated with an optional external PS/2 keypad that is connected with exclusive printer. The printout will only show the username/password. An account can also to be terminated with the optional keypad.
Idle Time Out	5 Min(s)	The idle time out valid range is 1-1440. If the idle time out is set as 5 minutes, it means if the account doesn't send packet in 5 minutes, the account will logout automatically.
<b>Billing Profile</b>		
Currency	\$	Enter the appropriate currency unit or currency symbol.
Number of decimals places	2	Enter the number. The field maximum value is 3.
Tax Percentage	Disable	This check box is used to indicate the taxable status of the account.
	5%	Enter the tax rate (i.e. a 5% sales tax is entered as 5).

Item	Default	Description
No.	+1~+10	The index number of billing profile. In Advanced setup, we provide 10 billing profile.
Active	-	Click on check box, active or inactive the billing profile.
Name	-	It is the name of billing profile. The maximum allowed characters length is 12.
Account Usage time	-	The duration of the billing period. When this period expires, user account will be discontinued.
Charge	-	Enter the unit rate amount (i.e. 35.00) that most of your accounts are charged for one day of service.



Figure 3-51 Pre-paid Procedure Diagram

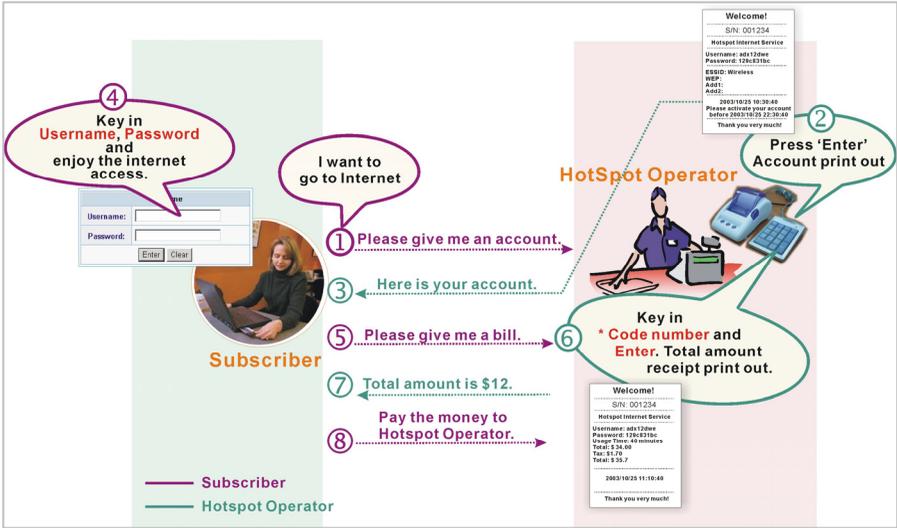


Figure 3-52 Post-paid Procedure Diagram



Click **Apply** button to save the new settings.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Billing setting screen.



Figure 3-53 Success Dialog Box

### 3-2-7 Accounting

This function allow service provider to generate the subscriber accounts.

## ACCOUNTING

Expiration	Un-used account will be deleted after <input type="text" value="12"/> hours <input type="button" value="v"/> automatically. (1~30) Accumulation account will be deleted after logged in <input type="text" value="3"/> months <input type="button" value="v"/> (1~30)
Printout	Number of copies to print : <input type="text" value="1"/> <input type="button" value="v"/>
Replenish	<input type="checkbox"/> Can be replenished by subscriber

**Three- Button Printer / Web-based Account Generator Panel** [Preview / Operate](#)

Button A	<input type="text" value="(01) 30 minutes, 30 minutes, \$1.00"/> <input type="button" value="v"/>
Button B	<input type="text" value="(02) 1 hour, 1 hours, \$2.00"/> <input type="button" value="v"/>
Button C	<input type="text" value="(03) 2 hours, 2 hours, \$3.00"/> <input type="button" value="v"/>

Print to...  Account Generator Printer  PC-Connected Printer

Use   for Discount Price Plan based on "Button Presses":   (only valid for Three-Button Printer)

**Discount Price Plan based on "Button Presses"**  Charge by levels

Level	Conditions	Button Presses	Unit Price
1	when > =	1	same as base charge
2	when > =	<input type="text" value="0"/>	<input type="text"/>
3	when > =	<input type="text" value="0"/>	<input type="text"/>
4	when > =	<input type="text" value="0"/>	<input type="text"/>
5	when > =	<input type="text" value="0"/>	<input type="text"/>
6	when > =	<input type="text" value="0"/>	<input type="text"/>
7	when > =	<input type="text" value="0"/>	<input type="text"/>
8	when > =	<input type="text" value="0"/>	<input type="text"/>
9	when > =	<input type="text" value="0"/>	<input type="text"/>
10	when > =	<input type="text" value="0"/>	<input type="text"/>

Figure 3-54 Accounting Setting Screen

Expiration	Un-used account will be deleted after <input type="text" value="12"/> hours <input type="button" value="▼"/> automatically. (1~30)
	Accumulation account will be deleted after logged in <input type="text" value="3"/> months <input type="button" value="▼"/> (1~30)
Printout	Number of copies to print : <input type="text" value="1"/> <input type="button" value="▼"/>
Replenish	<input type="checkbox"/> Can be replenished by subscriber

Figure 3-55

Item	Default	Description
Expiration		
Un-used account will be deleted after ~hours automatically	12 hours	Enter the number of hours/minutes/days. The field maximum value is 30 hours/minutes/days.
Accumulation account will be deleted after logged in ~	3 months	Enter the number and select time unit from list box. The field maximum value is 30 month/ days/ hours.
Printout		
Number of copies to print	1	The system allows you to print all your bills. Select one number of copies by clicking in the list box.
Can be replenished by subscriber	Enable	Click the check box to enable the replenish function.

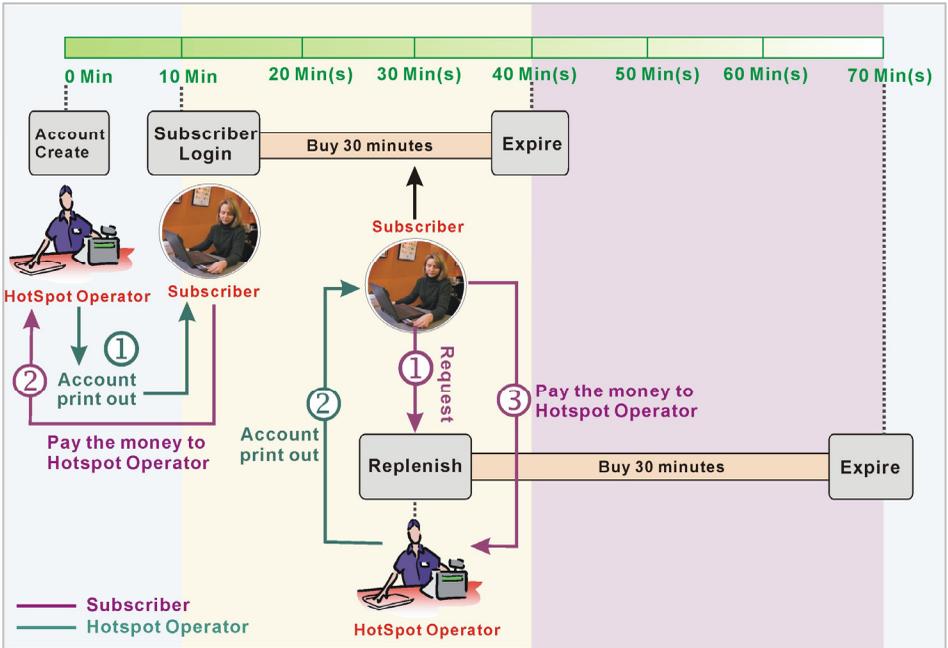


Figure 3-56 Account Process Diagram

Can be replenished by subscriber=Enable

● Three-Button Printer/ Web-based Account Generator Panel

**Three- Button Printer / Web-based Account Generator Panel**
[Preview / Operate](#)

Button A	<input type="text" value="(01) 30 minutes, 30 minutes, \$1.00"/>
Button B	<input type="text" value="(02) 1 hour, 1 hours, \$2.00"/>
Button C	<input type="text" value="(03) 2 hours, 2 hours, \$3.00"/>

Print to...  Account Generator Printer  PC-Connected Printer

Use  for Discount Price Plan based on "Button Presses":  (only valid for Three-Button Printer)

Figure 3-57 Three-Button Printer/ Web-based Account Generator Panel Setting Screen

Item	Default	Description
Button A~C	-	Define each button's billing profile. Select one billing profile by clicking in the list box.
Print to...	Account Generator Printer	Select a printer to print out your account.

Item	Default	Description
Use ~ for Discount Price Plan based on "Button Presses"	Button A, Disable	Select one button (A~C) by clicking in the list box to assign the base charge and select enable to active the discount price plan.

**Preview / Operate** Click on button to preview and operate account generator panel.



Figure 3-58 Account Generator Panel

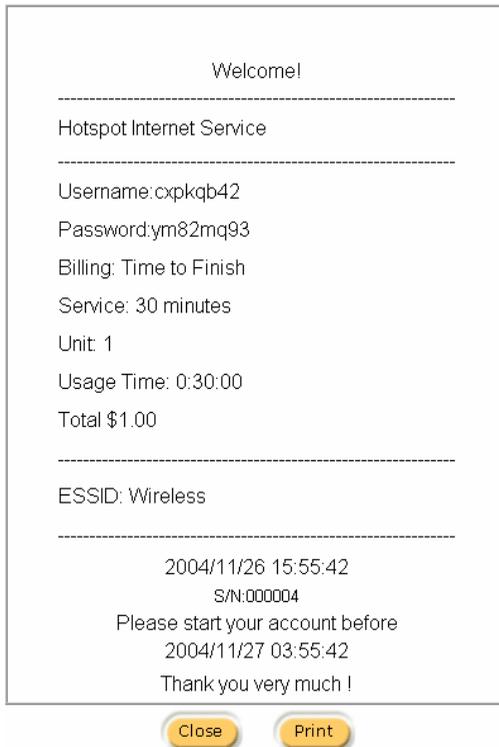


Figure 3-59 Web-based Account Generator Printout (Time to Finish)

Welcome!	
<b>Hotspot Internet Service</b>	
Username:	3m5k9r25
Password:	7uezza89
Billing:	Time to Finish
Service:	30 minutes
Unit:	1
Usage Time:	0:30:00
<b>Total</b>	<b>\$1.00</b>
ESSID:	Wireless
S/N:000006	2004/11/26 15:57:25
Please activate your account before 2004/11/27 03:57:25	
<b>Thank you very much !</b>	
<input type="button" value="Close"/> <input type="button" value="Print"/>	

*Figure 3-60 PC-connected Printer Printout (Time to Finish)*

Figure 2-64 Web-based Account Generator Printout (Accumulation)

Expiration	Un-used account will be deleted after <input type="text" value="12"/> hours automatically Accumulation account will be deleted after logged in <input type="text" value="3"/> <input type="text" value="months"/>
Printout	Number of copies to print : <input type="text" value="1"/>
Replenish	<input type="checkbox"/> Can be replenished by subscriber

Welcome!

-----

Hotspot Internet Service

-----

Username:xxxxxxxx

Password:xxxxxxxx

Billing: Accumulation

Service: 30 minutes

Unit: 1

Usage Time: 0:30:00

Total \$1.00

-----

ESSID: Wireless

Wireless: Disable

-----

2004/7/15 09:27:50  
S/N:000001

Please start your account before  
2004/7/15 21:27:50

Please finish your usage time within 3 months  
after your first login

Thank you very much !

<b>Welcome!</b>	
<b>Hotspot Internet Service</b>	
Username:	XXXXXXXX
Password:	XXXXXXXX
Billing:	Accumulation
Service:	30 minutes
Unit:	1
Usage Time:	0:30:00
<b>Total</b>	<b>\$1.00</b>
ESSID:	Wireless
S/N:000001	2004/11/29 10:09:34
<p>Please activate your account before 2004/11/29 22:09:34</p> <p>Please finish your usage time within 3 months after your first login</p> <p style="text-align: center;"><b>Thank you very much !</b></p> <p style="text-align: center;"> <input type="button" value="Close"/> <input type="button" value="Print"/> </p>	

*Figure 3-62 PC-connected Printer Printout (Accumulation)*

---

**Note:** Before configuring the accounting, you have to setting the billing profile of Web-based account generator panel.

---

**Example: If press 7 times**

- Discount Price Plan based on "Button Presses" is disabled.

Three- Button Printer / Web-based Account Generator Panel		Preview / Operate
Button A	(01) 30 minutes, 30 minutes, \$1.00	
Button B	(02) 1 hour, 1 hours, \$2.00	
Button C	(03) 2 hours, 2 hours, \$3.00	
Print to... <input checked="" type="radio"/> Account Generator Printer <input type="radio"/> PC-Connected Printer		
Use <input type="button" value="Button A"/> for Discount Price Plan based on "Button Presses": <input type="button" value="Disable"/> (only valid for Three-Button Printer)		

Figure 3-63 Example 1

**Amount: 7 x \$2.00= \$14.00**

<p>Welcome!</p> <hr/> <p>Hotspot Internet Service</p> <hr/> <p>Username: 27i28n32 Password: 5a789i35 Billing: Time to Finish Service: 1 hour Unit: 7 Usage Time: 07:00:00 Total: \$14.00</p> <hr/> <p>ESSID: Wireless</p> <p>2004/11/29 10:34:58 S/N:000011 Please activate your account before 2004/11/29 22:34:58</p> <hr/> <p>Thank you very much!</p>
---

Figure 3-64 Account Printout

- Discount Price Plan based on "Button Presses" is enabled.
- The Charge by level is disabled.

**Three- Button Printer / Web-based Account Generator Panel** Preview / Operate

Button A	(01) 30 minutes, 30 minutes, \$1.00
Button B	(02) 1 hour, 1 hours, \$2.00
Button C	(03) 2 hours, 2 hours, \$3.00

Print to...  Account Generator Printer  PC-Connected Printer

Use Button B for Discount Price Plan based on "Button Presses": Enable (only valid for Three-Button Printer)

**Discount Price Plan based on "Button Presses"**  Charge by levels

Level	Conditions	Button Presses	Unit Price
1	when > =	1	same as base charge
2	when > =	3	1.5
3	when > =	7	1
4	when > =	0	
5	when > =	0	
6	when > =	0	
7	when > =	0	
8	when > =	0	
9	when > =	0	
10	when > =	0	

Figure 3-65 Example 2

**Amount: 7 x \$ 1 = \$ 7.00**

Below is an example of the account printout.

<p>Welcome!</p> <hr style="border-top: 1px dashed black;"/> <p>Hotspot Internet Service</p> <hr style="border-top: 1px dashed black;"/> <p>Username: 2ds5ke24 Password: 8e3zte33 Billing: Time to Finish Service: 1 hour Unit: 7 Usage Time: 07:00:00 Total: \$7.00</p> <hr style="border-top: 1px dashed black;"/> <p>ESSID: Wireless</p> <p style="text-align: center;">2004/11/29 10:45:14 S/N:000012 Please activate your account before 2004/11/29 22:45:14</p> <hr style="border-top: 1px dashed black;"/> <p style="text-align: center;">Thank you very much!</p>
--

*Figure 3-66 Account Printout*

- Discount Price Plan based on "Button Presses" is enabled.
- Charge by level is enabled.

**Three- Button Printer / Web-based Account Generator Panel** Preview / Operate

Button A	(01) 30 minutes, 30 minutes, \$1.00
Button B	(02) 1 hour, 1 hours, \$2.00
Button C	(03) 2 hours, 2 hours, \$3.00

Print to...  Account Generator Printer  PC-Connected Printer

**Use** Button B **for Discount Price Plan based on "Button Presses":** Enable (only valid for Three-Button Printer)

**Discount Price Plan based on "Button Presses"**  Charge by levels

Level	Conditions	Button Presses	Unit Price
1	when > =	1	same as base charge
2	when > =	3	1.5
3	when > =	7	1
4	when > =	0	
5	when > =	0	
6	when > =	0	
7	when > =	0	
8	when > =	0	
9	when > =	0	
10	when > =	0	

Figure 3-67 Example 3

**Amount: 2 x \$2.00 + 4 x \$ 1.50+1x\$1= \$11.00**

Below is an example of the account printout.

<b>Welcome!</b>
-----
<b>Hotspot Internet Service</b>
-----
Username: v6w3xd48
Password: ir39mg84
Billing: Time to Finish
Service: 1 hour
Unit: 7
Usage Time: 07:00:00
Total: \$11.00
-----
<b>ESSID: Wireless</b>
2004/11/29 10:43:48
S/N:000013
Please activate your
account before
2004/11/29 22:43:48
-----
<b>Thank you very much!</b>

*Figure 3-68 Account Printout*

● **Discount Price Plan based on “Button Presses”**

Discount Price Plan based on “Button Presses” <input checked="" type="checkbox"/> Charge by levels			
Level	Conditions	Button Presses	Unit Price
1	when > =	1	same as base charge
2	when > =	<input type="text" value="0"/>	<input type="text"/>
3	when > =	<input type="text" value="0"/>	<input type="text"/>
4	when > =	<input type="text" value="0"/>	<input type="text"/>
5	when > =	<input type="text" value="0"/>	<input type="text"/>
6	when > =	<input type="text" value="0"/>	<input type="text"/>
7	when > =	<input type="text" value="0"/>	<input type="text"/>
8	when > =	<input type="text" value="0"/>	<input type="text"/>
9	when > =	<input type="text" value="0"/>	<input type="text"/>
10	when > =	<input type="text" value="0"/>	<input type="text"/>

Figure 3-69 Discount Price Plan Setting Screen

Item	Default	Description
Charge by levels	Enable	Enables or disables the charge by levels function.
Level	1~10	This field displays the level number of charge rate.
Conditions	When>=	The discount condition.
Button Presses	-	Enter the times of pressing button.
Unit Price	-	Enter the amount of charge level.

Apply

Click **Apply** button to save the new settings.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Accounting setting screen.



Figure 3-70 Success Dialog Box

### 3-2-8 Credit Card

Wireless Subscriber Gateway provides three credit card services (**Authorize.net**, **iValidate.net**, **Secure Pay and Paypal**) that allow service provider to authorize, process, and manage credit transactions directly from Internet.

#### CREDIT CARD

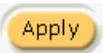
<input checked="" type="radio"/> <b>Authorize.net</b>	
Version	3.1
Merchant ID	<input type="text"/>
Merchant Password	<input type="checkbox"/> Need Password: <input type="text"/>
Merchant Transaction Key	<input type="text"/>
Payment Gateway	https://secure.authorize.net/gateway/transact.dll
<input type="checkbox"/> Email Additional Information	<input type="checkbox"/> Merchant Name: <input type="text"/> (max. 40 characters) <input type="checkbox"/> Username and Password <input type="checkbox"/> Usage Time
<input type="radio"/> <b>iValidate.net</b>	
Merchant ID	<input type="text"/>
Terminal ID	<input type="text"/>
Secure Server Address	https://www.vious.net/merchant/processcc.asp
<input type="radio"/> <b>Secure Pay</b>	
Merchant ID	<input type="text"/> (max. 7 characters)
SecurePay Address	https://www.securepay.com.au/securepay/payments/proc
<input type="radio"/> <b>PayPal</b>	
Business	<input type="text"/> (max. 127 characters)
Currency Code	U.S. Dollar <input type="button" value="v"/>
Identity Token	<input type="text"/> (max. 160 characters)
Payment Gateway	https://www.paypal.com/cgi-bin/webscr (max. 100 characters)
Credit Card icons to be displayed on the login page	
<input checked="" type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/> 	
<input type="button" value="Apply"/>	

Figure 3-71 Credit Card Setting Screen

Item	Default	Description
<b>Authorize.net</b>		
Version	3.1	This field displays the merchant version.
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 50.
Merchant Password	This is a Merchant password that you're received from your Merchant Provider.	

Item	Default	Description
Need	Disable	If your Merchant Provider need password to authorize, click the check box to enable this function.
Password	Empty	Enter your Merchant password.
Merchant Transaction Key	Empty	The Merchant Transaction Key can be obtained directly from "Authorize.net". The Merchant Transaction Key is similar to a password and is used by the Payment Gateway to authenticate transactions. The maximum character of the Merchant Transaction Key is 50.
Payment Gateway	https://secure.authorize.net/gateway/transact.dll	Enter the address of Payment Gateway.
Email Additional Information		The Email Additional Information included subscriber username and password would be sent to subscriber.
Email Additional Information	Disable	Indicates whether Email additional information should be sent to the subscriber (customer).
Merchant Name Enable/Disable	Disable	Indicates whether Merchant Name should be sent to the Email of subscriber.
Merchant Name	Empty	Enter the merchant's company name. The maximum allowed characters length is 40.
Username and Password Enable/Disable	Disable	The Email Additional Information included subscriber username and password would be sent to subscriber.
Usage Time Enable/Disable	Disable	The Email Additional Information included subscriber usage time would be sent to the subscriber.
<b>iValidate.net</b>		
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 20.
Device ID	Empty	Enter your Device ID. This is a Device Identification Number that you're received from your Merchant Provider. The maximum character of the Device ID is 20.

Item	Default	Description
Secure Server Address	https://www.vious.net/merchant/processcc.asp	Enter the secure server address.
<b>Secure Pay</b>		
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 7.
Secure Pay Address	https://www.securepay.com.au/securepay/payments/process2.asp	Enter the address of SecurePay Payment Gateway.
<b>Paypal</b>		
Business	Empty	Enter your Merchant PayPal account. This is a Merchant Identification account that you're register on PayPal. The maximum character of the Business is 127.
Currency Code	U.S. Dollar	To Drop-down the list. It's includes Australia dollar(AUD), Canadian Dollar(CAD), Euro(EUR), Pound Sterling(GBP), Japanese Yen(JPY) and U.S. Dollars (USD)
Identity Token	Empty	Enter the Identities token form merchants profile in the Paypal site. The maximum character of the Identity Token is 160.
Payment Gateway	https://www.paypal/cgi-bin/webscr	Enter the address of Payment Gateway. The maximum character of the payment gateway is 100.
<i>Note : Please leave the Administrator's Email address in Advanced/Syslog/Email portion.</i>		
Credit Card icons to be displayed on the login page	VISA	Click on check box to display credit card icon on the login page.



Click **Apply** button to save the new settings.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Accounting setting screen.

**Success!**

**The Configuration has been changed.**

**back**

*Figure 3-72 Success Dialog Box*

Please follow steps below to pay using credit card.

Step 1: Choose Credit Card service on the login page.

The image shows a login page for 'Hot Spot Internet Service'. At the top, there is a green header with the text 'Welcome'. Below this is a grey box containing the service name 'Hot Spot Internet Service'. Underneath, there are two input fields: 'Username:' and 'Password:'. Below the input fields are two buttons: 'Enter' and 'Cancel'. To the right of these buttons, the text 'Select Credit Card Service' is written in red. Below the 'Enter' and 'Cancel' buttons, there is a blue link that says 'or Click here to pay by credit card'. A red box highlights this link, and a red arrow points from a yellow 'Click' button to it. Below the link is the VISA logo, and another red arrow points from a yellow 'Click' button to it.

Figure 3-73 Login Page

Step 2: Select Service and enter payment information.

**Welcome**

Hot Spot Internet      **Currency: American Dollars**

**Please choose from the following service selection**

Service Code	Service Name	Usage Time	Charge
<input checked="" type="radio"/> 1	30 minutes	30 minutes	1.00
<input type="radio"/> 2	1 hour	1 hours	2.00
<input type="radio"/> 3	2 hours	2 hours	3.00

**How many units of Internet access would you like to purchase?**

\*Please kindly note that there will be no refund once connectivity is confirmed.  
\*Please note that the time block of selected service is based on continuous usage.

**Enter Payment Information (all info is required)** (all info is required)

<b>Credit card number:</b>	<input type="text"/>
<b>Credit card expiration date:</b>	<input type="text"/> (MMYY)
<b>Enter Email Address</b>	<input type="text"/>
<b>First Name:</b>	<input type="text"/>
<b>Last Name:</b>	<input type="text"/>
<b>Address:</b>	<input type="text"/>
<b>City:</b>	<input type="text"/>
<b>State/Province:</b>	<input type="text"/>
<b>ZIP/Postal Code:</b>	<input type="text"/>
<b>Country:</b>	<input type="text"/>
<b>Phone:</b>	<input type="text"/>

**Submit Transaction and Login**

Figure 3-74 Service & Payment Information Setting Screen (Authorize.net)

Item	Default	Description
<b>Payment Information</b>		
Credit card number	Empty	Enter your credit card number.
Credit card expiration date	Empty	Enter the credit card expiration date. The allowed format is MMYT.
Enter Email Address	Empty	Enter your email address. The system will e-mail you account information once your payment information has been successfully authorized.
First Name, Last Name.....	Empty	Enter the customer information, including name, city, country and country.

**Welcome**

**Hot Spot Internet Service**

---

**Please choose from the following service selection**

	Service Code	Service Name	Usage Time	Charge
<input checked="" type="radio"/>	1	30 minutes	30 minutes	1.00
<input type="radio"/>	2	1 hour	1 hours	2.00
<input type="radio"/>	3	2 hours	2 hours	3.00

---

**How many units of Internet access would you like to purchase?**

\*Please kindly note that there will be no refund once connectivity is confirmed.  
 \*Please note that the time block of selected service is based on continuous usage.

---

**Enter Payment Information (all info is required)** (all info is required)

<b>Credit card number:</b>	<input style="width: 100%;" type="text"/>
<b>Credit card expiration date:</b>	<input style="width: 50%;" type="text"/> (MMYY)
<b>Enter Email Address</b>	<input style="width: 100%;" type="text"/>
<b>Billing Address ZIP code</b>	<input style="width: 100%;" type="text"/>

---

**Submit Transaction and Login**

*Figure 3-75 Service & Payment Information Setting Screen (iValidate.net)*

Item	Default	Description
Payment Information		
Credit card number	Empty	Enter your credit card number.
Credit card expiration date	Empty	Enter the credit card expiration date. The allowed format is MMYY.
Enter Email Address	Empty	Enter your email address. The system will e-mail your account information once your payment information has been successfully authorized.
Billing Address ZIP code	Empty	Enter the ZIP code.

Step 3: After valid payment information has been provided, the subscriber will obtain one valid account to login or the *Figure 3-78* screen will appear.

The screenshot shows a web page with a green header bar containing the word "Welcome". Below the header, the text "Hot Spot Internet Service" is centered. A horizontal line separates this from the main content. The main content includes the heading "You may now use the Internet!" followed by a red warning: "IMPORTANT! Make a note of your username and password for logging in later. This will be your only opportunity to do so. Note upper and lowercase letters." Below this, it states "This is your account information, please keep this for your Internet Service." and lists three items: "Your username is u92tf237", "Your password is vk544d77", and "Your usage time is 00:30:00". A final line of red text says "Please activate your account before 2004/08/10 10:30:28". At the bottom, there are two buttons: "Email this webpage to myself" and "Use this account to LOGIN now".

*Figure 3-76 User Account Information*

The first screenshot shows a "Welcome" screen for "Hot Spot Internet Service" with a red error message: "Credit Card Number Fail". Below the error, it says "SORRY, your card could not be processed at this time. Please use your backspace button and try again with a different credit card. Thank you!". At the bottom are two buttons: "Try Again" and "Close".

The second screenshot is identical in layout to the first, but the error message reads: "Transactions of this market type cannot be processed on this system. SORRY, your card could not be processed at this time. Please use your backspace button and try again with a different credit card. Thank you!".

*Figure 3-77*

### 3-2-9 Keypad

#### KEYPAD

The Keypad is the optional external PS/2 numeric keypad which is connected with exclusive printer.

##### Use for Pre-Paid Billing

Keypad Hot Key	Billing Profile
+1	(01) 30 minutes, 30 minute(s), \$1.00
+2	(01) 30 minutes, 30 minute(s), \$1.00
+3	(01) 30 minutes, 30 minute(s), \$1.00
+4	(01) 30 minutes, 30 minute(s), \$1.00
+5	(01) 30 minutes, 30 minute(s), \$1.00
+6	(01) 30 minutes, 30 minute(s), \$1.00
+7	(01) 30 minutes, 30 minute(s), \$1.00
+8	(01) 30 minutes, 30 minute(s), \$1.00
+9	(01) 30 minutes, 30 minute(s), \$1.00
+0	(01) 30 minutes, 30 minute(s), \$1.00

##### Use for Post-Paid Billing

Based on

Charge by levels

Level	Conditions	Time Range	Unit Price
1	when > =	1	1.00
2	when > =	<input type="text" value="0"/>	<input type="text"/>
3	when > =	<input type="text" value="0"/>	<input type="text"/>
4	when > =	<input type="text" value="0"/>	<input type="text"/>
5	when > =	<input type="text" value="0"/>	<input type="text"/>
6	when > =	<input type="text" value="0"/>	<input type="text"/>
7	when > =	<input type="text" value="0"/>	<input type="text"/>
8	when > =	<input type="text" value="0"/>	<input type="text"/>
9	when > =	<input type="text" value="0"/>	<input type="text"/>
10	when > =	<input type="text" value="0"/>	<input type="text"/>

Apply

Figure 3-78 Keypad Setting Screen

Item	Default	Description
<b>Use for Pre-Paid Billing</b>		The system provides ten user definable hot keys through the use of the + Key plus the 1 through 0 keys across the top of the keypad.
Keypad Hot Key	+1~+0	It is the combination hot key for keypad application.
Billing Profile	-	Select the billing profile you want to assign to the combination hot key.
<b>Use for Post-Paid Billing</b>		Define the basic rate of accounts.
Base on ~	Minutes	Select the billing unit by clicking in the list box.
Charge by levels	Enable	Enables or disables the charge by levels function.
Level (1~10)	1~10	This field displays the level number of charge rate.
Time Range	0	Enter the number.
Unit Price	-	Enter the amount of charge level.

Please follow steps below to create accounts using keypad function.

● **Use for Pre-Paid Billing**

Step 1: Click the Billing in the Advanced Setup menu, select enable Pre-Paid, click **Apply**.

**BILLING**

**Pre-Paid**

The subscribers can access Internet with pre-defined usage time.

**Enable Credit Card Service**

**Time to Finish**

The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.

**Accumulation**

The subscriber can access Internet several times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.

**Post-Paid (Only for keypad application)**

The subscribers can access Internet without pre-defined usage time. This can be operated with an optional external PS/2 keypad which is connected with exclusive printer. The printout will only show the username/password. An account can also be terminated with the optional keypad.

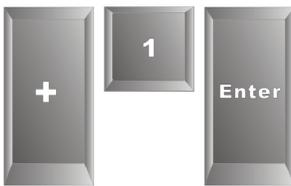
*Figure 3-79 Billing Setting Screen*

Step 2: Click the Keypad in Advanced Setup Menu, define the Billing plan of pre-paid, and click **Apply**.

KEYPAD	
The Keypad is the optional external PS/2 numeric keypad which is connected with exclusive printer.	
Use for Pre-Paid Billing	
Keypad Hot Key	Billing Profile
+1	(01) 30 minutes, 30 minute(s), \$1.00
+2	(01) 30 minutes, 30 minute(s), \$1.00
+3	(01) 30 minutes, 30 minute(s), \$1.00

Figure 3-80 Keypad's Hot Key Setting Screen

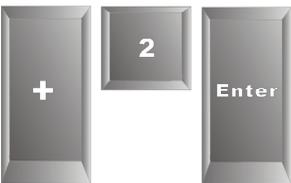
Step 3: You can use keypad to create subscriber accounts now. Press keypad hot key and then press **Enter**. A new subscriber account is generated, and the account information should be printed.



→ **The first Billing Profile  
(01) 30 minutes, 30 minute(s), \$1.00**

```

Welcome!
-----
Hotspot Internet Service
-----
Username: b4e55f35
Password: xz6g6n82
Billing: Time to Finish
Service: 30 minutes
Unit: 1
Usage Time: 00:30:00
Total: $ 1.00
Tax: $0.00
Grand Total: $ 1.00
-----
ESSID: Wireless
WEP:
2003/11/06 11:19:05
S/N: 000001
Please activate your
account before
2003/11/06 23:19:05
-----
Thank you very much!
    
```



→ **The second Billing Profile  
(02) 1 hour, 1 hour(s), \$2.00**

```

Welcome!
-----
Hotspot Internet Service
-----
Username: 7spct858
Password: jic7rp55
Billing: Time to Finish
Service: 1 hour
Unit: 1
Usage Time: 01:00:00
Total: $ 2.00
Tax: $0.00
Grand Total: $ 2.00
-----
ESSID: Wireless
WEP:
2003/11/06 11:24:58
S/N: 000002
Please activate your
account before
2003/11/06 23:24:58
-----
Thank you very much!
    
```

Figure 3-81

Step 4: Subscriber can use this account to access Internet now.

● **Use for Post-Paid Billing**

Step 1: Click the Billing in the Advanced Setup menu, select enable Post-paid, click **Apply**.

**BILLING**

**Pre-Paid**  
The subscribers can access Internet with pre-defined usage time.

**Enable Credit Card Service**

**Time to Finish**  
The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.

**Accumulation**  
The subscriber can access Internet several times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.

**Post-Paid (Only for keypad application)**  
The subscribers can access Internet without pre-defined usage time. This can be operated with an optional external PS/2 keypad which is connected with exclusive printer. The printout will only show the username/password. An account can also be terminated with the optional keypad.

Figure 3-82 Billing Setting Screen

Step 2: Click the Keypad in Advanced Setup Menu, Define the billing plan of post-paid, click **Apply**.

**Use for Post-Paid Billing**

Based on

Charge by levels

Level	Conditions	Time Range	Unit Price
1	when > =	1	<input type="text" value="2.00"/>
2	when > =	<input type="text" value="5"/>	<input type="text" value="0.80"/>
3	when > =	<input type="text" value="10"/>	<input type="text" value="0.70"/>
4	when > =	<input type="text" value="15"/>	<input type="text" value="0.60"/>
5	when > =	<input type="text" value="20"/>	<input type="text" value="0.50"/>
6	when > =	<input type="text" value="301"/>	<input type="text" value="0.40"/>
7	when > =	<input type="text" value="601"/>	<input type="text" value="0.30"/>
8	when > =	<input type="text" value="1440"/>	<input type="text" value="0.20"/>
9	when > =	<input type="text" value="2880"/>	<input type="text" value="0.10"/>
10	when > =	<input type="text" value="3000"/>	<input type="text" value="0.05"/>

Figure 3-83 Keypad's Hot Key Setting Screen

Step 3: You can use keypad to create subscriber accounts now. Press **Enter**, a new subscriber account is generated, and the account information should be printed. This account information is including serial number, username, password and account create time.

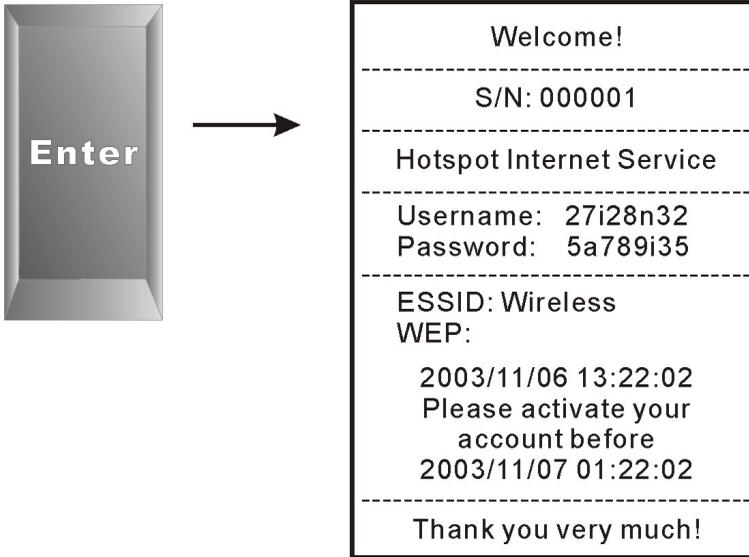


Figure 3-84

Step 4: When subscriber wants to terminate the Internet service, press \*, **serial number** and then press **Enter**, a bill should be printed.

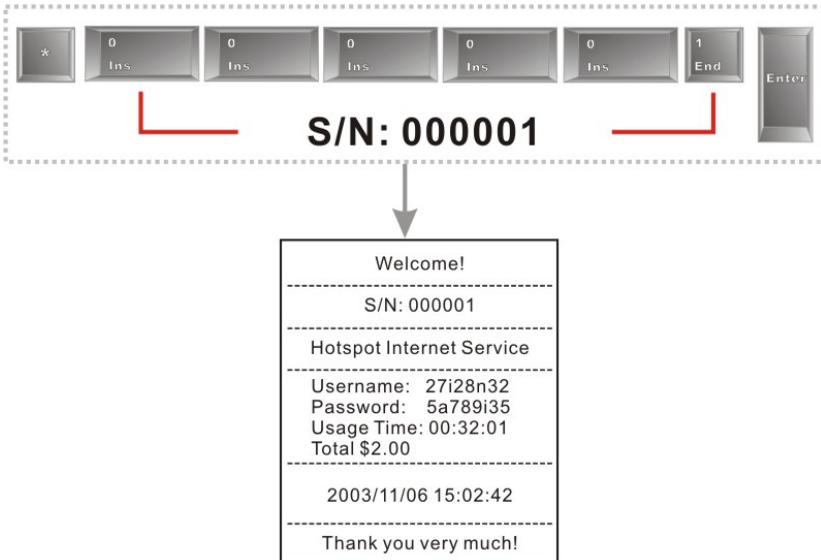


Figure 3-85

Account Generator Printer	
Status Report	
Items	Keypad Hot Key
Daily Account Report Printout 	Press <b>ABCAA</b>
Monthly Account Report Printout 	Press <b>ABCBB</b>
System Status Report Printout 	Press <b>ABCCC</b>
Network Report Printout 	Press <b>ABCAB</b>

PS/2 Keypad	
Status Report	
Items	Keypad Hot Key
Daily Account Report Printout 	Press * <b>1mmdd</b>
Monthly Account Report Printout 	Press * <b>2mm</b>
System Status Report Printout 	Press * <b>3</b>
Network Report Printout 	Press * <b>4</b>

Enter the date (MonthDate)

Figure 3-86 Keypad's Hot Key List

● Daily Account Report Printout

Daily Account				
-----				
2003/11/26				
-----				
S/N	Username	B	UN	Price
000001	bvnbc332	1	1	1.00
000002	i293qt32	1	1	1.00
000003	b4e55f56	2	1	2.00
000004	n5faixz26	1	1	1.00
000005	t877ji46	1	1	1.00
-----				
TOTAL ACCOUNTS: 5				
TOTAL PRICE: \$6.00				
-----				
2003/11/26 10:36:03				
---End---				

Press **ABCAA**

**B: Billing Profile**  
**UN: Purchase Unit**

Figure 3-87 Daily Account

● Monthly Account Report Printout

Monthly Account				
-----				
2003/11				
-----				
S/N	Username	B	UN	Price
000001	bvnbc332	1	1	1.00
000002	i293qt32	1	1	1.00
000003	b4e55f56	2	1	2.00
000004	n5faixz26	1	1	1.00
000005	t877ji46	1	1	1.00
-----				
TOTAL ACCOUNTS: 5				
TOTAL PRICE: \$6.00				
-----				
2003/11/26 10:36:03				
---End---				

Press **ABCBB**

**B: Billing Profile**  
**UN: Purchase Unit**

Figure 3-88 Monthly Account

● System Status Report Printout

Abbreviation	Current Settings
System Status	System Status
-----	-----
ITEM DESCRIPTION	ITEM DESCRIPTION
-----	-----
WAST WAN Status	WAST Not Established
WSTA Wireless Service	WSTA Fail
SYST System Up Time	SYST 01D:20H:35M:46S
-----	-----
HOST Host Name	HOST Wireless
FRMW Firmware Version	FRMW 2.00.00
WFRM Wireless Firmware Version	WFRM 1.00a
BTRM BootROM Version	BTRM 1.01
LOCA Location Name	LOCA TAIPEI
WAMA WAN MAC Address	WAMA 00-11-22-33-44-55
LAMA LAN MAC Address	LAMA 00-11-22-33-44-56
WATP WAN Type	WATP PPoE
WAIP WAN IP Address	WAIP 211.11.22.33
WASM WAN Subnet Mask	WASM 255.255.255.214
WAGW WAN Gateway	WAGW 211.22.33.44
PDNS Primary DNS	PDNS 168.95.1.1
SDNS Secondary DNS	SDNS
DHCP DHCP Service	DHCP DHCP Server
DHSP DHCP Start IP	DHSP 10.59.1.2
DHEP DHCP End IP	DHEP 10.59.1.254
DHLT DHCP Leased Time	DHLT 1440
EMAIL Redirect Email Server	EMAIL 211.22.33.66/PORT25
SSID Wireless ESSID	SSID Wireless
WCHA Wireless Channel	WCHA 6
WWEF Wireless WEP	WWEF Mandatory
-----	-----
Printout Date and Time	2002/08/28 14:39:07
---END---	---END---

Press **ABCCC**

Figure 3-89 System Status Report Printout

● Network Report Printout

Abbreviation Network	Current Settings Network
----- ITEM DESCRIPTION ----- WAST WAN Status WSTA Wireless Service SYST System Up Time ----- WATD WAN Tx Data WARD WAN Rx Data WATE WAN Tx Error WARE WAN Rx Error LATD LAN Tx Data LARD LAN Rx Data LATE LAN Tx Error LARE LAN Rx Error WLTD Wireless Tx Data WLRD Wireless Rx Data WLTE Wireless Tx Error WLRE Wireless Rx Error ----- Printout Date and Time ---END---	----- ITEM DESCRIPTION <b>Press ABCAB</b> ----- WAST Not Established WSTA Fail SYST 01D:20H:35M:46S ----- WATD 1234567890 WARD 1234567890 WATE 1234567890 WARE 1234567890 LATD 1234567890 LARD 1234567890 LATE 1234567890 LARE 1234567890 WLTD 1234567890 WLRD 1234567890 WLTE 1234567890 WLRE 1234567890 ----- 2002/08/28 14:39:07 ---END---

Figure 3-90 Network Report Printout

### 3-2-10 Customization

#### ● Login Page

The Wireless Subscriber Gateway provides three different login page formats, including standard, redirect, advanced and frame format.

#### Standard

For some service providers, they may hope to have a customize subscriber's login page to the users. This function helps them to realize the ideal. The page elements are including login page title, background color, subtitle etc.

### CUSTOMIZATION

<b>Login Page</b>	Logo	Information Window	Account Printout	Credit Card	User Agreement Page
-------------------	------	--------------------	------------------	-------------	---------------------

Please choose from the following login page types

**Standard**

Please enter the customizable message on the **standard** login page

<input type="checkbox"/> Logo	
Title	<input type="text" value="Welcome"/> (Max. 80 characters)
Subtitle	<input type="text" value="Hot Spot Internet Service"/> (Max. 80 characters)
Username	<input type="text" value="Username"/> (Max. 20 characters)
Password	<input type="text" value="Password"/> (Max. 20 characters)
Enter Button	<input type="text" value="Enter"/> (Max. 20 characters)
Cancel Button	<input type="text" value="Cancel"/> (Max. 20 characters)
<input type="checkbox"/> Footnote	<input type="text" value="Please contact us if you have any questio"/> (Max. 240 characters)
<input checked="" type="checkbox"/> Copyright	<input type="text" value="Copyright (c) 2004-2015 All Rights Reserv"/> (Max. 80 characters)
Background Color	<input type="text" value="FFFFFF"/> <a href="#">View Color Grid</a>

[Standard Login Page Preview](#)

Figure 3-91 Standard Login Page Customization Setting Screen

Item	Default	Description
Logo	Disable	Select the check box to display service provider's logo.
Title	Welcome	Enter the title name of subscriber login page. The maximum allowed characters length is 80.
Subtitle	Hot Spot Internet Service	Enter the subtitle name of subscriber login page. The maximum allowed characters length is 80.
Footnote	Disable	Allow the administrator to input the footnote such like "Pleas Contact to our Customer Service Center, EXT 141". The maximum character of the footnote is 240.

Item	Default	Description
Copyright	Enable	The copyright is allowed the administrator to input a paragraph in the subscriber login page for copyright information. The maximum character of the copyright is 80.
Background Color	FFFFFF	The background text color can be specified color. For the specified text color format please views the color grid. The allowed format is Hexadecimal.



Figure 3-92 Login Page Screen

Before you add logo to the login page, please make sure the logo image file is defined. For details, see section 3-2-10 Customization->Logo.



Figure 3-93 Error Dialog Box

## **Redirect**

This allow service provider to redirect the subscriber's browser to a specified home page.

 <b>Redirect</b>	Redirect Login Page URL: <input type="text"/>	<a href="#">Code</a>
--	---	----------------------

*Figure 3-94 Redirect Login Page Setting Screen*

Copy and paste the following HTML Code into your home page to produce redirect subscriber login page.

Redirect Login Page Code
<pre>&lt;html&gt; &lt;body style="font-family: Arial" bgcolor="#FFFFFF"&gt; &lt;form method="post" action="http://1.1.1.1/login.cgi" name="apply"&gt; &lt;div align="center"&gt; &lt;table cellSpacing="0" borderColorDark="#FFFFFF" cellPadding="4" width="50%" bgColor="#F7F7F7" border="1"&gt; &lt;tr&gt; &lt;td align="center" width="100%" bgColor="#d7d7d7" colSpan="2"&gt; &lt;font size="2"&gt;&lt;b&gt;Welcome&lt;/b&gt;&lt;/font&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td align="right" width="35%" bgColor="#eaeaea"&gt; &lt;font color="#000080" size="2"&gt;&lt;b&gt;Username:&lt;/b&gt;&lt;/font&gt; &lt;/td&gt; &lt;td width="65%"&gt; &lt;input type="text" name="username" size="25"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td align="right" width="35%" bgColor="#eaeaea"&gt; &lt;font color="#000080" size="2"&gt;&lt;b&gt;Password:&lt;/b&gt;&lt;/font&gt; &lt;/td&gt; &lt;td width="65%"&gt; &lt;input type="password" name="password" size="25"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td align="center" width="100%" colspan="2"&gt; &lt;input type="submit" name="apply" value="Enter" style="font-family: Arial"&gt; &lt;input type="reset" name="clear" value="Clear" style="font-family: Arial"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;/div&gt; &lt;/form&gt; &lt;/body&gt; &lt;/html&gt;</pre>
<a href="#">Close</a>

*Figure 3-95 Redirect Login Page Code Screen*

**Advanced**

This function allow user to design login page of Wireless Subscriber Gateway.

<input checked="" type="radio"/> <b>Advanced</b>	Welcome Slogan	<input type="text"/>
	Page Background	<input checked="" type="radio"/> None <input type="radio"/> Background Color <input type="text" value="FFFFFF"/> <a href="#">View Color Grid</a>
	Article	<input type="text"/>
	Article Text Color	<input type="text" value="000000"/> <a href="#">View Color Grid</a>
	Article Background Color	<input checked="" type="radio"/> None <input type="radio"/> <input type="text" value="FFFFFF"/> <a href="#">View Color Grid</a>
	Information	<input type="text"/>
	Comments	<input type="text"/>

Figure 3-96 Advanced Login Page Setting Screen

Item	Default	Description
Welcome Slogan	Welcome	The maximum allowed characters length is 80.
Page Background	None	The page background can be none or specified color. For the background color format please views the color grid. The allowed format is Hexadecimal.
Article	Empty	The article is allowed the administrator to input a paragraph in the subscriber login page for advisement or announcement. The maximum character of the article is 1024.
Article Text Color	000000	The article text color can be specified color. For the specified text color format please views the color grid. The allowed format is Hexadecimal.
Article Background Color	None	The article background can be specified color. For the background color format please views the color grid. The allowed format is Hexadecimal.
Information	Empty	Allow the administrator to input the text information such like address, telephone number and fax information. The maximum character of the information is 80.
Comments	Empty	Allow the administrator to input the text comments such like "Pleas Contact to our Customer Service Center, EXT 141". The maximum character of the comment is 80.

Browser Set Background Colors by RGB					
000000	000033	000066	000099	0000CC	0000FF
003300	003333	003366	003399	0033CC	0033FF
006600	006633	006666	006699	0066CC	0066FF
009900	009933	009966	009999	0099CC	0099FF
00CC00	00CC33	00CC66	00CC99	00CCCC	00CCFF
00FF00	00FF33	00FF66	00FF99	00FFCC	00FFFF
330000	330033	330066	330099	3300CC	3300FF
333300	333333	333366	333399	3333CC	3333FF
336600	336633	336666	336699	3366CC	3366FF
339900	339933	339966	339999	3399CC	3399FF
33CC00	33CC33	33CC66	33CC99	33CCCC	33CCFF
33FF00	33FF33	33FF66	33FF99	33FFCC	33FFFF
660000	660033	660066	660099	6600CC	6600FF
663300	663333	663366	663399	6633CC	6633FF
666600	666633	666666	666699	6666CC	6666FF
669900	669933	669966	669999	6699CC	6699FF
66CC00	66CC33	66CC66	66CC99	66CCCC	66CCFF
66FF00	66FF33	66FF66	66FF99	66FFCC	66FFFF

Figure 3-97 Color Grid

**Frame**

If “Frame” is selected the subscriber login page will be separate into Top Frame and Bottom Frame. Bottom Frame is a default format for username and password input, Top Frame is allowed to be specified a URL to link.

**www.caesarpark.com**

<input checked="" type="radio"/> <b>Frame</b>	Top Frame	URL: <input type="text" value="www.caesarpark.com"/>
	Bottom Frame	This frame will show the standard login page

Figure 3-98 Frame Login Page Setting Screen

Item	Default	Description
Top Frame URL Link	Empty	The input format can be http://www.yahoo.com. The maximum character of the URL Link is 200.
Bottom Frame	-	This frame will show the standard login page.

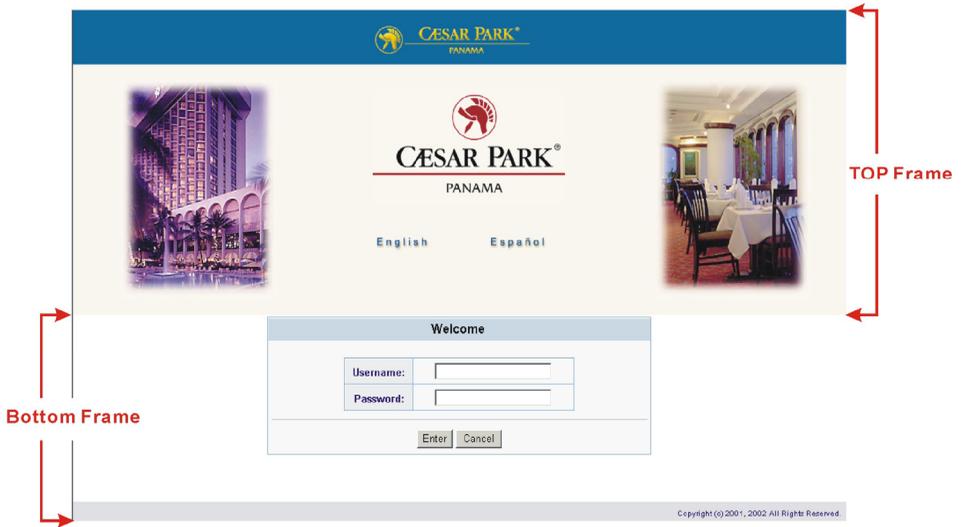


Figure 3-99 Example-Login Page Screen

● **Logo**

This function allows service provider to upload the customer's logo image file which can be shown on the standard login page and account printout of PC-connected printer.

**CUSTOMIZATION**

Login Page	<b>Logo</b>	Information Window	Account Printout	Credit Card	User Agreement Page
------------	-------------	--------------------	------------------	-------------	---------------------

This function allows to upload the customer's logo image file which can be shown on the standard login page and account printout of PC-connected printer.

File Path:

Maximum file size is **60 kbytes** and recommended dimension is about 200x50 pixels

**No logo file.**

Figure 3-100 Logo Setting Screen

Item	Default	Description
File Path	Empty	Enter the file pathname of the logo file in the File Path field.
<input type="button" value="Apply"/>		Click <b>Apply</b> button to save the logo file to system.
<input type="button" value="Delete"/>		Click <b>Delete</b> button to delete the logo file.

## CUSTOMIZATION

Login Page	Logo	Information Window	Account Printout	Credit Card	User Agreement Page
This function allows to upload the customer's logo image file which can be shown on the standard login page and account printout of PC-connected printer.					
File Path: <input type="text"/> <input type="button" value="浏览..."/> <input type="button" value="Apply"/>					
Maximum file size is 60 kbytes and recommended dimension is about 200x50 pixels					
					
<input type="button" value="Delete"/>					

Figure 3-101 Logo Setting Screen



**SMCWHSG14-G**

Username :

Password :

Version 1.00.01a

---

Figure 3-102 Login Page

● **Information Window**

This function allow service provider can decide whether they want an “Information Window” pop-up on subscriber PC when authenticate successful or not and specified text of information window. Subscriber can type “http://1.1.1.1/info” to open the information window again or enter “http://1.1.1.1/logout” to logout immediately if accumulation billing selected.

### CUSTOMIZATION

Login Page	Logo	<b>Information Window</b>	Account Printout	Credit Card	User Agreement Page
------------	------	---------------------------	------------------	-------------	---------------------

Information window is a pop-up window that is presented to subscribers with their browser once after subscriber login successfully. The subscriber can type http://1.1.1.1/info to open this window again.

**Display Information Window once after a subscriber logs in successfully**

Information Window Type	<input type="radio"/> Redirect <input checked="" type="radio"/> Pop up <input checked="" type="checkbox"/> Allow to close the pop up window
-------------------------	--

**Information Window Contents**

Window Name	<input type="text" value="Information Window"/> (Max. 30 character)
Main message	<input type="text" value="You can use Internet now!"/> (Max. 30 character)
Message Description	<input type="text" value="This is an information window to sho"/> (Max. 150 character)
Time count label	Standard for pre-defined usage time
	<input type="text" value="Remaining Usage"/> (Max. 30 character)
	Post-Paid Billing
<input type="checkbox"/> Warning/Alarm message	<input type="text" value="Connecting Usage"/> (Max. 30 character)
	<input type="text" value="If you don't want to continue using In"/> (Max. 150 character)
<input type="checkbox"/> Notice Message	Notice Text 1
	<input type="text" value="Notice!"/> (Max. 150 character)
	Notice Text 2
	<input type="text" value="If you are going to use VPN connect"/> (Max. 150 character)
	Notice Text 3
	<input type="text"/> (Max. 150 character)

[Preview](#)

Apply

*Figure 3-103 Example-Login Page Screen*



Figure 3-104 Example-Login Page Screen



Figure 3-105 Information Window

Billing Type=Time to Finish

Can be replenished by subscriber=Disable



Figure 3-106 Information Window

Billing Type=Time to Finish

Can be replenished by subscriber=Enable



Figure 3-107 Information Window

Billing Type=Accumulation

Can be replenished by subscriber=Disable



Figure 3-108 Information Window

Billing Type=Accumulation

Can be replenished by subscriber=Enable



Figure 3-109 Information Window

Super Subscriber Account (Default username="super" & password="super")



Figure 3-110 Logout Successfully Dialog Box  
Billing Type=Accumulation

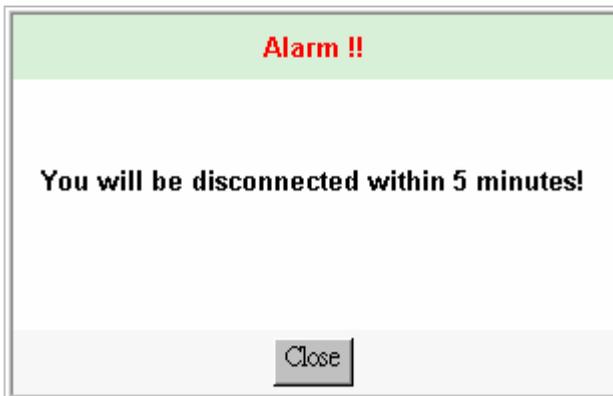


Figure 3-111 Alarm Dialog Box1

● **Account Printout**

This function allow service provider to specified text of account printout.

CUSTOMIZATION					
Login Page	Logo	Information Window	Account Printout	Credit Card	User Agreement Page
<input type="checkbox"/>	Logo	<i>* Only for PC-connected printer</i>			
	Title:	<input type="text" value="Welcome!"/>		(Max.=75)	
	Subtitle:	<input type="text" value="Hotspot Internet Service"/>		(Max.=60)	
	Username:	<input type="text" value="Username:"/>		(Max.=24)	
	Password:	<input type="text" value="Password:"/>		(Max.=24)	
<input checked="" type="checkbox"/>	Billing Method:	Time To Finish	<input type="text" value="Billing: Time to Finish"/>	(Max.=24)	
		Accumulation	<input type="text" value="Billing: Accumulation"/>	(Max.=24)	
<input checked="" type="checkbox"/>	Billing Profile:	<input type="text" value="Service:"/>		(Max.=24)	
<input checked="" type="checkbox"/>	Purchase Unit:	<input type="text" value="Unit:"/>		(Max.=24)	
	Usage Time:	<input type="text" value="Usage Time:"/>		(Max.=24)	
<input checked="" type="checkbox"/>	Price:	<input type="text" value="Total"/>		(Max.=24)	
	Tax:	<input type="text" value="Tax:"/>	TOTAL: <input type="text" value="Grand Total:"/>	(Max.=24)	
<input checked="" type="checkbox"/>	ESSID:	<input type="text" value="ESSID:"/>		(Max.=24)	
	Wireless Security	WPA	<input type="text" value="WPA:"/>	(Max.=24)	
		WEP	<input type="text" value="WEP:"/>	(Max.=24)	
<input type="checkbox"/>	Additional Label 1:	<input type="text" value=""/>	Value: <input type="text" value=""/>	(Max.=24)	
<input type="checkbox"/>	Additional Label 2:	<input type="text" value=""/>	Value: <input type="text" value=""/>	(Max.=24)	
<input checked="" type="checkbox"/>	Print out Time:	Format:	<input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/>	(HH:24h hh:12h tt:AM/PM)	
		Description:	<input type="text" value="Please activate your account before"/>	(Max.=24x3)	
<input checked="" type="checkbox"/>	Expiration Time:	Format:	<input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/>	(HH:24h hh:12h tt:AM/PM)	
		Accumulation:	<input type="text" value="Please finish your usage time within 3 months after your first login"/>	(Max.=24x4)	
<input checked="" type="checkbox"/>	Ending:	<input type="text" value="Thank you very much !"/>			
<p> <input type="button" value="Preview of PC-connected printer"/> <input type="button" value="Preview of account generator printer"/> <input type="button" value="Preview of Post-Paid Printout"/> <input type="button" value="Apply"/> </p>					

Figure 3-112 Account Printout Customization Setting Screen

Apply

Click **Apply** button to save the new settings.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Account Printout Customization setting screen.



Figure 3-113 Success Dialog Box

<b>Welcome!</b>	
<b>Hotspot Internet Service</b>	
Username:	x000000x
Password:	x000000x
Billing:	Time to Finish
Service:	30 minutes
Unit:	1
Usage Time:	0:30:00
<b>Total</b>	<b>\$1.00</b>
ESSID:	Wireless
S/N:000001	2004/11/29 14:32:58
Please activate your account before 2004/11/30 02:32:58	
<b>Thank you very much !</b>	
<input type="button" value="Close"/>	<input type="button" value="Print"/>

Figure 3-114 PC-connected Printer Printout



Figure 3-115 Account Generator Printer Printout

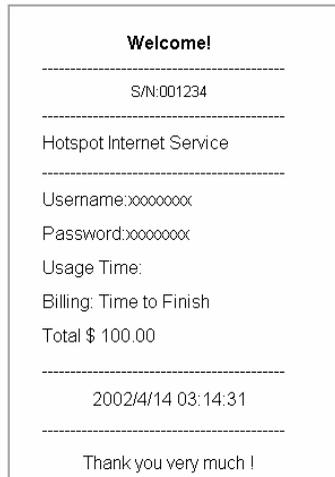
## Example Preview

### 1. Create accounts



Press "ENTER"

### 2. Bill accounts



Press "\*" "001234" and "ENTER"



Figure 3-116 Account Generator Printer Printout

- **Credit Card**

**Standard Login Page**

This function allow service provider to customize the additional credit card message for the standard login page.

<b>Standard Login Page</b>	<b>Customize the additional credit card message for the standard login page</b>			
	<table><tr><td>Credit Card Message</td><td><input type="text" value="or Click here to pay by credit card"/></td></tr><tr><td></td><td>(Max:80 characters)</td></tr></table> <p style="text-align: right;"><a href="#">Preview of Standard Login Page</a></p>	Credit Card Message	<input type="text" value="or Click here to pay by credit card"/>	
Credit Card Message	<input type="text" value="or Click here to pay by credit card"/>			
	(Max:80 characters)			

Figure 3-117 Credit Customization Setting Screen

<b>Welcome</b>	
<b>Hot Spot Internet Service</b>	
<hr/>	
<b>Username:</b>	<input type="text"/>
<b>Password:</b>	<input type="password"/>
<hr/>	
<input type="button" value="Enter"/> <input type="button" value="Cancel"/>	
<p><a href="#">or Click here to pay by credit card</a></p> 	
<p><b>Please contact us if you have any question</b></p>	

Figure 3-118 Standard Login Page  
(Enable Credit Card Service=enable)

- ▶ SYSTEM
- ▶ WAN / LAN
- ▶ SERVER
- ▶ AUTHENTICATION
- ▶ RADIUS
- ▶ BILLING
- ▶ ACCOUNTING
- ▶ CREDIT CARD
- ▶ KEYPAD
- ▶ CUSTOMIZATION
- ▶ PASS THROUGH
- ▶ FILTERING
- ▶ SHARE
- ▶ PORTAL PAGE
- ▶ ADVERTISEMENT
- ▶ WALLED GARDEN
- ▶ DDNS
- ▶ LAN DEVICES
- ▶ SYSLOG
- ▶ WIRELESS

## BILLING

**Pre-Paid**

The subscribers can access Internet with pre-defined usage time.

**Enable Credit Card Service**

**Time to Finish**

The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.

**Accumulation**

The subscriber can access Internet several times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.

**Post-Paid** (Only for keypad application)

The subscribers can access Internet without pre-defined usage time. This can be operated with an optional external PS/2 keypad which is connected with exclusive printer. The printout will only show the username/password. An account can also to be terminated with the optional keypad.

*Figure 3-119 Billing Setting Screen*

## Service Selection Page

This function allow service provider to customize the additional credit card message for the standard login page.

Service Selection Page	
<b>Customize the message for the service selection page</b>	
Service Selection Message	<input type="text" value="Please choose from the following service selection"/> <small>(Max. 80 characters)</small>
Purchase Unit Message	<input type="text" value="How many units of Internet access would you like to"/> <small>(Max. 80 characters)</small>
Notification Message 1	<input type="text" value="Please kindly note that there will be no refund once"/> <small>(Max. 160 characters)</small>
Notification Message 2	<input type="text" value="Please note that the time block of selected service"/> <small>(Max. 160 characters)</small>
Notification Message 3	<input type="text"/> <small>(Max. 160 characters)</small>
Enter Payment Information	<input type="text" value="Enter Payment Information (all info is required)"/> <small>(Max. 160 characters)</small>
Enter Credit Card Number	<input type="text" value="Credit card number:"/> <small>(Max. 80 characters)</small>
Enter Credit Card expiration date	<input type="text" value="Credit card expiration date:"/> <small>(Max. 80 characters)</small>
<input type="checkbox"/> Card Verification Value	<input type="text" value="Credit Card Code:"/> <small>(Max. 40 characters)</small>
Enter Email Address	<input type="text" value="Enter Email Address"/> <small>(Max. 80 characters)</small>
Submit Button	<input type="text" value="Submit Transaction and Login"/> <small>(Max. 40 characters)</small>
<b>Additional Customer Data</b> Merchants may provide additional customer information with a transaction, based on their respective requirements.	
<input type="checkbox"/> Customer ID	<input type="text" value="Customer ID:"/> <small>(Max. 40 characters)</small>
<input checked="" type="checkbox"/> First/Last Name	<input type="text" value="First Name:"/> <small>(Max. 20 characters)</small> <input type="text" value="Last Name:"/> <small>(Max. 20 characters)</small>
<input type="checkbox"/> Company	<input type="text" value="Company:"/> <small>(Max. 40 characters)</small>
<input checked="" type="checkbox"/> Address	<input type="text"/>
<input checked="" type="checkbox"/> City	<input type="text" value="City:"/> <small>(Max. 40 characters)</small>
<input checked="" type="checkbox"/> State/Province	<input type="text" value="State/Province:"/> <small>(Max. 40 characters)</small>
<input checked="" type="checkbox"/> ZIP/Postal Code	<input type="text" value="ZIP/Postal Code:"/> <small>(Max. 40 characters)</small>
<input checked="" type="checkbox"/> Country	<input type="text" value="Country:"/> <small>(Max. 40 characters)</small>
<input checked="" type="checkbox"/> Phone	<input type="text" value="Phone:"/> <small>(Max. 40 characters)</small>
<input type="checkbox"/> Fax	<input type="text" value="Fax:"/> <small>(Max. 40 characters)</small>

[Preview of Service Selection Page](#)

Figure 3-120 Service Selection Page Setting Screen (Authorize.net)

<b>Service Selection Page</b>	<b>Customize the message for the service selection page</b>	
	Service Selection Message	<input type="text" value="Please choose from the following service selection"/> (Max. 80 characters)
	Purchase Unit Message	<input type="text" value="How many units of Internet access would you like to"/> (Max. 80 characters)
	Notification Message 1	<input type="text" value="Please kindly note that there will be no refund once"/> (Max. 160 characters)
	Notification Message 2	<input type="text" value="Please note that the time block of selected service"/> (Max. 160 characters)
	Notification Message 3	<input type="text"/> (Max. 160 characters)
	Enter Payment Information	<input type="text" value="Enter Payment Information (all info is required)"/> (Max. 160 characters)
	Enter Credit Card Number	<input type="text" value="Credit card number:"/> (Max. 80 characters)
	Enter Credit Card expiration date	<input type="text" value="Credit card expiration date:"/> (Max. 80 characters)
	<input type="checkbox"/> Card Verification Value	<input type="text" value="Credit Card Code:"/> (Max. 40 characters)
	Enter Email Address	<input type="text" value="Enter Email Address"/> (Max. 80 characters)
	Submit Button	<input type="text" value="Submit Transaction and Login"/> (Max. 40 characters)
<b>Additional Customer Data</b>		
Merchants may provide additional customer information with a transaction, based on their respective requirements.		
<input type="checkbox"/> First/Last Name	<input type="text" value="First Name"/> <input type="text" value="Last Name"/> (Max. 20 characters) (Max. 20 characters)	
<input checked="" type="checkbox"/> Billing Address ZIP code	<input type="text" value="Billing Address ZIP code"/> (Max. 40 characters)	
<a href="#">Preview of Service Selection Page</a>		

Figure 3-121 Service Selection Page Setting Screen (iValidate.net)

<b>Service Selection Page</b>	<b>Customize the message for the service selection page</b>	
	Service Selection Message	<input type="text" value="Please choose from the following service selection"/> <small>(Max. 80 characters)</small>
	Purchase Unit Message	<input type="text" value="How many units of Internet access would you like to"/> <small>(Max. 80 characters)</small>
	Notification Message 1	<input type="text" value="Please kindly note that there will be no refund once"/> <small>(Max. 160 characters)</small>
	Notification Message 2	<input type="text" value="Please note that the time block of selected service"/> <small>(Max. 160 characters)</small>
	Notification Message 3	<input type="text"/> <small>(Max. 160 characters)</small>
	Enter Payment Information	<input type="text" value="Enter Payment Information (all info is required)"/> <small>(Max. 160 characters)</small>
	Enter Credit Card Number	<input type="text" value="Credit card number:"/> <small>(Max. 80 characters)</small>
	Enter Credit Card expiration date	<input type="text" value="Credit card expiration date:"/> <small>(Max. 80 characters)</small>
	<input type="checkbox"/> Card Verification Value	<input type="text" value="Credit Card Code:"/> <small>(Max. 40 characters)</small>
	Enter Email Address	<input type="text" value="Enter Email Address"/> <small>(Max. 80 characters)</small>
	Submit Button	<input type="text" value="Submit Transaction and Login"/> <small>(Max. 40 characters)</small>
 <a href="#">Preview of Service Selection Page</a>		

Figure 3-122 Service Selection Page Setting Screen (Secure Pay)

## Welcome

### Hot Spot Internet Service

Please choose from the following service selection

	Service Code	Service Name	Usage Time	Charge
<input checked="" type="radio"/>	1	30 minutes	30 minutes	1.00
<input type="radio"/>	2	1 hour	1 hours	2.00
<input type="radio"/>	3	2 hours	2 hours	3.00

How many units of Internet access would you like to purchase?  ▾

\*Please kindly note that there will be no refund once connectivity is confirmed.

\*Please note that the time block of selected service is based on continuous usage.

Enter Payment Information (all info is required) (all info is required)

**Credit card number:**

**Credit card expiration date:**  (MMYY)

**Enter Email Address**

**First Name:**

**Last Name:**

**Address:**

**City:**

**State/Province:**

**ZIP/Postal Code:**

**Country:**

**Phone:**

**Submit Transaction and Login**

Figure 3-123 Service Selection Page (Authorize.net)

## Welcome

### Hot Spot Internet Service

Please choose from the following service selection

	Service Code	Service Name	Usage Time	Charge
<input checked="" type="radio"/>	1	30 minutes	30 minutes	1.00
<input type="radio"/>	2	1 hour	1 hours	2.00
<input type="radio"/>	3	2 hours	2 hours	3.00

How many units of Internet access would you like to purchase?  ▾

\*Please kindly note that there will be no refund once connectivity is confirmed.

\*Please note that the time block of selected service is based on continuous usage.

**Enter Payment Information (all info is required)** (all info is required)

**Credit card number:**

**Credit card expiration date:**  (MMYY)

**Enter Email Address**

**Billing Address ZIP code**

**Submit Transaction and Login**

Figure 3-124 Service Selection Page (iValidate.net)

## Welcome

### Hot Spot Internet Service

Please choose from the following service selection

	Service Code	Service Name	Usage Time	Charge
<input checked="" type="radio"/>	1	30 minutes	30 minutes	1.00
<input type="radio"/>	2	1 hour	1 hours	2.00
<input type="radio"/>	3	2 hours	2 hours	3.00

How many units of Internet access would you like to purchase?  ▾

\*Please kindly note that there will be no refund once connectivity is confirmed.

\*Please note that the time block of selected service is based on continuous usage.

**Enter Payment Information (all info is required)** (all info is required)

**Credit card number:**

**Credit card expiration date:**  (MMYY)

**Enter Email Address**

**Submit Transaction and Login**

Figure 3-125 Service Selection Page (SecurePay)

## Successful Page

<b>Successful Page</b>	<b>Customize the message for the successful page</b>	
	Successful Message	<input type="text" value="You may now use the Internet !"/> (Max. 80 characters)
	Notification Message 1	<input type="text" value="IMPORTANT! Make a note of your username and password for lo"/> (Max. 160 characters)
	Notification Message 2	<input type="text"/> (Max. 160 characters)
	Account Information	<input type="text" value="This is your account information, please keep this for your Internet S"/> (Max. 160 characters)
	Username	<input type="text" value="Your username is"/> (Max. 80 characters)
	Password	<input type="text" value="Your password is"/> (Max. 80 characters)
	Usage Time	<input type="text" value="Your usage time is"/> (Max. 80 characters)
	Expiration Time	<input type="text" value="Please activate your account before"/> (Max. 80 characters) <b>Format:</b> <input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/> ( HH:24h hh:12h tt:AM/PM )
Submit Button	<input type="text" value="Use this account to LOGIN now"/> (Max. 40 characters)	
 <a href="#">Preview of Successful Page</a>		

Figure 3-126 Successful Page Setting Screen

Welcome	
Hot Spot Internet Service	
You may now use the Internet !	
<b>IMPORTANT! Make a note of your username and password for logging in later. This will be your only opportunity to do so. Note upper and lowercase letters.</b>	
This is your account information, please keep this for your Internet Service.	
Your username is <b>WXY3dg54</b>	
Your password is <b>32JIKew2</b>	
Your usage time is <b>30 minutes</b>	
Please activate your account before <b>2004/10/10 10:38:05</b>	
Email this webpage to myself	Use this account to LOGIN now

Figure 3-127 Example-Successful Page

### Fail Page

This function allow service provider to customize the message for the fail page.

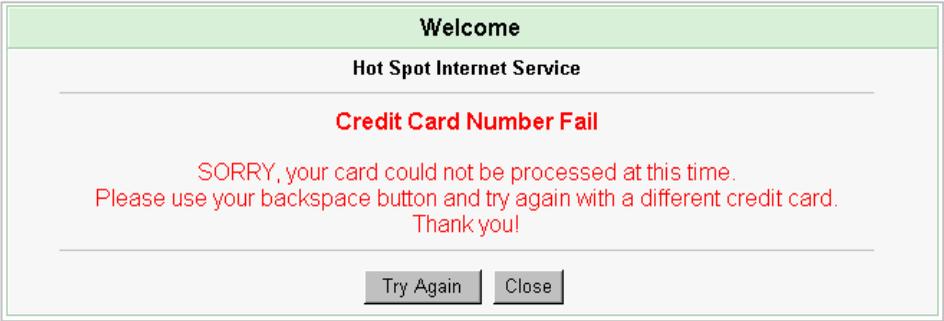
Fail Page	Customize the message for the fail page
Notification Message 1	<input type="text" value="SORRY, your card could not be processed at this time."/> (Max. 160 characters)
Notification Message 2	<input type="text" value="Please use your backspace button and try again with a different credi"/> (Max. 160 characters)
Notification Message 3	<input type="text" value="Thank you!"/> (Max. 160 characters)
Try Again Button	<input type="text" value="Try Again"/> (Max. 40 characters)
Close Button	<input type="text" value="Close"/> (Max. 40 characters)

 [Preview of Fail Page](#)

Figure 3-128 Fail Page Setting Screen



Click **Apply** button to save the new settings.



*Figure 3-129 Fail Page*

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Credit Card Customization setting screen.



*Figure 3-130 Success Dialog Box*

- **User Agreement Page**

This function allow user to design user agreement page of Internet Subscriber Server.

**CUSTOMIZATION**

Login Page	Logo	Information Window	Account Printout	Credit Card	<b>User Agreement Page</b>
Title	<input type="text" value="User Agreement Page"/> (Max. 100 characters)				
Title Text Color	<input type="text" value="000000"/> <a href="#">View Color Grid</a>				
Article	<input type="text"/> (Max. 5000 characters)				
Article Text Color	<input type="text" value="000000"/> <a href="#">View Color Grid</a>				
Article Background Color	<input type="text" value="FFFFFF"/> <a href="#">View Color Grid</a>				
Page Background Color	<input type="text" value="FFFFFF"/> <a href="#">View Color Grid</a>				
Agree Button	<input type="text" value="Agree"/> (Max. 50 characters)				
Disagree Button	<input type="text" value="Do not agree"/> (Max. 50 characters)				
 <a href="#">Standard User Agreement Page Preview</a>					
<input type="button" value="Apply"/>					

Figure 3-131 User Agreement Page Setting Screen

User Agreement Page
<input type="button" value="Agree"/> <input type="button" value="Do not agree"/>

Figure 3-132 User Agreement Page

### 3-2-11 Pass Through

This function allow administrator to set some special devices pass through the Wireless Subscriber Gateway system. Because some network devices might be constructed under the Wireless Subscriber Gateway. However these devices needn't be checked and authorized. The Wireless Subscriber Gateway provides a pass through list and the administrator can control which devices can be pass through with authentication.

## PASS THROUGH

Pass Through: Disable ▾

Pass Through Destination allows the subscribers to access specified Internet websites without authentication, which is useful to promote selected services. Pass Through Subscriber is useful for VIP users without authentication. Pass Through LAN device is also useful for devices that do not have a web browser (cash registers, for example) or that are connected with LAN port (wireless access points, for example).

**Please enter new pass through for destination** (up to 50 entries)

URL or Website:

Start / End IP Address:  ~

**Please enter new pass through for subscribers or LAN devices** (up to 50 entries)

Start / End IP Address  ~

IP Address:  Subnet Mask:

MAC address:  Mask: FF-FF-FF-FF-FF-FF ▾

Add to List

**Pass Through List**

No.	Active	Address List	Type	Delete
<span>Delete All</span>				

Apply

Figure 3-133 Pass through Setting Screen

Item	Default	Description
Pass Through	Disable	Enables or disables the pass through function.
<b>Destination URL/IP Address Pass Through</b>		
<input checked="" type="radio"/> URL or Website: <input type="text"/>		
URL or Website	Empty	Enter the URL Page; please use this format such like "http://www.yahoo.com". The maximum character of the URL Page is 50.
<input checked="" type="radio"/> Start / End IP Address: <input type="text"/> ~ <input type="text"/>		
Start IP Address	Empty	Enter the start IP address of you wants pass through.
End IP Address	Empty	Enter the end IP address of you wants pass through.
<b>Subscriber IP/MAC Address or LAN Device Pass Through</b>		
<input checked="" type="radio"/> Start / End IP Address: <input type="text"/> ~ <input type="text"/>		
Start IP Address	Empty	Enter the start IP address of you wants pass through.
End IP Address	Empty	Enter the end IP address of you wants pass through.
<input checked="" type="radio"/> IP Address: <input type="text"/> Subnet Mask: <input type="text"/>		
IP Address	Empty	Enter the IP address of you wants pass through.
Subnet Mask	Empty	Enter the subnet mask of you wants pass through.
<input checked="" type="radio"/> MAC address: <input type="text"/> Mask: <input type="text" value="FF-FF-FF-FF-FF-FF"/>		
MAC Address	Empty	Enter the MAC address of you wants pass through.
Mask	Empty	Enter the subnet mask of you wants pass through.
Pass Through List	Display the pass through Information of Wireless Subscriber Gateway.	
No.	-	The index number of pass through address.
Active	Disable	Click on check box, active or inactive the pass through address.
Address List	-	Display the pass through address(s).
Type	-	Display the type of pass through address.
Delete	Disable	Select the check boxes and click ' <b>Delete</b> ' to delete the pass through address(s).

Click **Add to List** button to add a new entry.

Click **Apply** button to save the new settings.

Click **Delete All & Apply** button to delete all entries.

---

**Note:** The priority of "pass through" is higher than "Filtering".

---

### 3-2-12 Filtering

Filtering allows the system administrator to have a list of restricted destinations, which is useful to block specified Internet websites or Intranet areas.

## FILTERING

Filtering: Disable

Filtering allows the system administrator to have a list of restricted destinations, which is useful to block specified Internet websites or Intranet areas.

**HTTP Message to display when a website is blocked**

**Please enter new restricted destination** (up to 50 entries)

URL or Website:

Start / End IP Address:  ~

IP Address:  Subnet Mask:

**Restricted Destination List**

No.	Active	Address List	Delete
			<input type="button" value="Delete All"/>

Figure 3-134 Filtering Setting Screen

Item	Default	Description
Filtering	Disable	Enables or disables filtering function.
HTTP Message to display when a website is blocked	The Web Site is blocked by System	Enter the http message. The maximum character of the HTTP message is 200.

**Warning !!**

**This Web Site is blocked by System**

Figure 3-135 Error Dialog Box

Item	Default	Description
Restrict Destination		
<input checked="" type="radio"/> URL or Website: <input type="text"/>		
URL or Website	Empty	Enter the URL Page of you wants to filter; please use this format such like "http://www.yahoo.com". The maximum character of the URL Page is 50.
<input checked="" type="radio"/> Start / End IP Address: <input type="text"/> ~ <input type="text"/>		
Start IP Address	Empty	Enter the start IP address of you wants to filter.
End IP Address	Empty	Enter the end IP address of you wants to filter.
<input checked="" type="radio"/> IP Address: <input type="text"/> Subnet Mask: <input type="text"/>		
IP Address	Empty	Enter the destination IP address of you wants to filter.
Subnet Mask	Empty	Enter the destination subnet mask.
No	-	The index number of filtering address.
Active	Disable	Click on check box, active or inactive the filtering address.
Address List	-	Display the filtering address(s).
Delete	Disable	Select the check boxes and click ' <b>Delete</b> ' to delete the filtering address(s).

Click **Add to List** button to add a new entry.

Click **Apply** button to save the new settings.

Click **Delete All & Apply** button to delete all entries.

---

**Note:** The priority of "pass through" is higher than "Filtering".

---

### 3-2-13 Share

This feature allows sharing the network devices after subscriber successful login.

## SHARE

Share LAN resource: Disable

This feature allows to share the network resource after subscriber successful login.

**Please enter new sharing LAN resource** (up to 50 entries)

Resource Name	Resource IP Address	Resource MAC Address	Interface
<input type="text"/>	<input type="text"/>	<input type="text"/>	Wired <span style="font-size: small;">▼</span>

Add to List

**Share Resource List**

No.	Active	Resource Name	IP Address	MAC address	Interface	Delete

Delete All

Apply

Figure 3-136 Share Device Setting Screen

Item	Default	Description
Share LAN resource	Disable	Enables or disables share LAN resource function.
Resource Name	Empty	Enter the device name. The maximum character of the resource name is 30.
Resource IP Address	Empty	Enter the IP address of device in the format "xxx.xxx.xxx.xxx".
Resource MAC Address	Empty	Enter the MAC address of device. For input the device MAC address, please use this format such like "0050BA8D2296".
Interface	Wired	Select the interface.
Share LAN resource List		
No.	-	The index number of share LAN device.
Active	Disable	Click on check box, active or inactive the share LAN device.
Resource Name	-	Display the device name.
IP Address	-	Display the IP address of device.
MAC Address	-	Display the MAC address of device.
Interface	-	Display the interface of device.
Delete	Disable	Select the check boxes and click <b>Delete</b> to delete the share device(s).

**Note:**

1. You must use the “**Search IP**” method to search for a device on the network. Please follow steps below to search your device.
  - ☞ Click **Start**, and then click **Search**.
  - ☞ Click **Computers or People**.
  - ☞ Click “**A computer on the network**”.
  - ☞ In Computer, type the IP address of the device you want to find. Click **Search**.
2. The function support only Unicast and IP Protocol.

 Click **Add to List** button to add a new entry.

 Click **Apply** button to save the new settings.

 Click **Delete All & Apply** button to delete all entries.

**3-2-14 Portal Page**

This feature allows redirecting subscriber’s browser to a specified portal page after successful login.



PORTAL PAGE	
This feature allows to redirect subscriber's browser to a specified portal page after successful login.	
URL Link	<input type="text"/>
	

Figure 3-137 Portal Page Setting Screen

Item	Default	Description
URL Link	Empty	Enter the URL Link page. The input format can be “http://www.yahoo.com”. The maximum character of the URL Link is 200.

 Click **Apply** button to save the new settings.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Portal Page setting screen.



<b>Success!</b>
<b>The Configuration has been changed.</b>


Figure 3-138 Success Dialog Box

### 3-2-15 Advertisement

The system allow service provider to input 10 URL links for advertisement link purpose.

ADVERTISEMENT	
This feature allows ISP to specify the advertisement URL link. The advertisement Web page will show on the browser when the subscribers start Network access.	
<b>Frequency</b>	<input checked="" type="radio"/> One Time Only <input type="radio"/> Every <input type="text" value="0"/> Min(s)
<b>Sequence</b>	<input checked="" type="radio"/> Randomly <input type="radio"/> Orderly (From 1 to 10)
<b>URL Link 1</b>	<input type="text"/>
<b>URL Link 2</b>	<input type="text"/>
<b>URL Link 3</b>	<input type="text"/>
<b>URL Link 4</b>	<input type="text"/>
<b>URL Link 5</b>	<input type="text"/>
<b>URL Link 6</b>	<input type="text"/>
<b>URL Link 7</b>	<input type="text"/>
<b>URL Link 8</b>	<input type="text"/>
<b>URL Link 9</b>	<input type="text"/>
<b>URL Link 10</b>	<input type="text"/>
<input type="button" value="Apply"/>	

Figure 3-139 Advertisement URL Link Setting Screen

Item	Default	Description
Frequency	One Time Only	One Time Only—One Time Only means to send the advertisement link once after the subscriber Login. Every~Min(s)—The field means to send the advertisement link every interval minutes. The value range is 1 to 60 (minutes).
Sequence	Randomly	Randomly—Display the advertisement page in the random order. From 1 to 10 —Display the advertisement page in the order as setting.
URL Link 1~10	Empty	This function allows the administrator to input ten different websites in the table for advertisement. And these 10 websites will display to the subscribers at random when the subscribers login in the Wireless Subscriber Gateway system. The input format can be “http://www.yahoo.com”. The maximum character of the URL Link # is 200.

Click **Apply** button to save the new settings.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Advertisement URL Link setting screen.



Figure 3-140 Success Dialog Box

### 3-2-16 Walled Garden

We prepare ten URL links that allows subscriber to access the specific Web pages even they didn't have a username or password. It's free trying and can use for advertisement.

**WALL GARDEN**

This feature allows subscribers to access the specific Web pages even they didn't have a username or password. We provide ten URL links to use for free trying and can use for advertisement.

Link 1	Name: <input type="text" value="Yahoo"/>	<input type="text" value="Yahoo"/>
	URL: <input type="text" value="www.yahoo.com"/>	<input type="text" value="www.yahoo.com"/>
Link 2	Name: <input type="text" value="MSN"/>	<input type="text" value="MSN"/>
	URL: <input type="text" value="www.msn.com"/>	<input type="text" value="www.msn.com"/>
Link 3	Name: <input type="text" value="Microsoft"/>	<input type="text" value="Microsoft"/>
	URL: <input type="text" value="www.microsoft.com"/>	<input type="text" value="www.microsoft.com"/>
Link 4	Name: <input type="text"/>	<input type="text"/>
	URL: <input type="text"/>	<input type="text"/>
Link 5	Name: <input type="text"/>	<input type="text"/>
	URL: <input type="text"/>	<input type="text"/>
Link 6	Name: <input type="text"/>	<input type="text"/>
	URL: <input type="text"/>	<input type="text"/>
Link 7	Name: <input type="text"/>	<input type="text"/>
	URL: <input type="text"/>	<input type="text"/>
Link 8	Name: <input type="text"/>	<input type="text"/>
	URL: <input type="text"/>	<input type="text"/>
Link 9	Name: <input type="text"/>	<input type="text"/>
	URL: <input type="text"/>	<input type="text"/>
Link 10	Name: <input type="text"/>	<input type="text"/>
	URL: <input type="text"/>	<input type="text"/>

Figure 3-141 Walled Garden

**Welcome**

**Hot Spot Internet Service**

---

**Username:**

**Password:**

---

Name

Yahoo

MSN

Microsoft

*Figure 3-142 Login Page*

Item	Description
Link 1~10	
Name	The name is allowed user to set the prompt string in user customize login page. The maximum allowed characters length is 80.
URL 1~10	The input format can be "http://www.yahoo.com". The maximum character of the Link# is 200.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Walled Garden setting screen.

Success!

The Configuration has been changed.

*Figure 3-143 Success Dialog Box*

### 3-2-17 DDNS

The DDNS service (Dynamic Domain Name Service), an IP Registry provides a public central database where information such as email addresses, host names, IP addresses etc. can be stored and retrieved. This solves the problems if your DNS server uses an IP associated with dynamic IP addresses. When the ISP assigns the Wireless Subscriber Gateway a new IP, the Wireless Subscriber Gateway must inform the DDNS server the change of this IP so that the server can update its IP-to-DNS entry. Once the IP-to-DNS table in the DDNS server is updated, the DNS name for your web server (i.e., xyz.dyndns.org) is still usable.

DDNS												
Force to update every <input type="text" value="1"/> day(s) when WAN IP address keeps no change												
No.	Active	Settings <input type="button" value="Update Status Now"/>										
01	<input type="checkbox"/>	<p><b>Status: N/A</b></p> <table border="1"><tr><td>Service Provider</td><td><input type="text" value="dyndns.org (www.dyndns.org)"/></td></tr><tr><td>Registered Host Name</td><td><input type="text"/> <small>(for example: xyz.dyndns.org)</small></td></tr><tr><td>Login Name</td><td><input type="text"/> <small>(max. 23 characters)</small></td></tr><tr><td>Password</td><td><input type="text"/> <small>(max. 23 characters)</small></td></tr><tr><td>Email Address</td><td><input type="text"/> <small>(optional)</small></td></tr></table> <p><input type="checkbox"/> Wildcards (optional)</p>	Service Provider	<input type="text" value="dyndns.org (www.dyndns.org)"/>	Registered Host Name	<input type="text"/> <small>(for example: xyz.dyndns.org)</small>	Login Name	<input type="text"/> <small>(max. 23 characters)</small>	Password	<input type="text"/> <small>(max. 23 characters)</small>	Email Address	<input type="text"/> <small>(optional)</small>
Service Provider	<input type="text" value="dyndns.org (www.dyndns.org)"/>											
Registered Host Name	<input type="text"/> <small>(for example: xyz.dyndns.org)</small>											
Login Name	<input type="text"/> <small>(max. 23 characters)</small>											
Password	<input type="text"/> <small>(max. 23 characters)</small>											
Email Address	<input type="text"/> <small>(optional)</small>											
02	<input type="checkbox"/>	<p><b>Status: N/A</b></p> <table border="1"><tr><td>Service Provider</td><td><input type="text" value="dyndns.org (www.dyndns.org)"/></td></tr><tr><td>Registered Host Name</td><td><input type="text"/> <small>(for example: xyz.dyndns.org)</small></td></tr><tr><td>Login Name</td><td><input type="text"/> <small>(max. 23 characters)</small></td></tr><tr><td>Password</td><td><input type="text"/> <small>(max. 23 characters)</small></td></tr><tr><td>Email Address</td><td><input type="text"/> <small>(optional)</small></td></tr></table> <p><input type="checkbox"/> Wildcards (optional)</p>	Service Provider	<input type="text" value="dyndns.org (www.dyndns.org)"/>	Registered Host Name	<input type="text"/> <small>(for example: xyz.dyndns.org)</small>	Login Name	<input type="text"/> <small>(max. 23 characters)</small>	Password	<input type="text"/> <small>(max. 23 characters)</small>	Email Address	<input type="text"/> <small>(optional)</small>
Service Provider	<input type="text" value="dyndns.org (www.dyndns.org)"/>											
Registered Host Name	<input type="text"/> <small>(for example: xyz.dyndns.org)</small>											
Login Name	<input type="text"/> <small>(max. 23 characters)</small>											
Password	<input type="text"/> <small>(max. 23 characters)</small>											
Email Address	<input type="text"/> <small>(optional)</small>											
03	<input type="checkbox"/>	<p><b>Status: N/A</b></p> <table border="1"><tr><td>Service Provider</td><td><input type="text" value="dyndns.org (www.dyndns.org)"/></td></tr><tr><td>Registered Host Name</td><td><input type="text"/> <small>(for example: xyz.dyndns.org)</small></td></tr><tr><td>Login Name</td><td><input type="text"/> <small>(max. 23 characters)</small></td></tr><tr><td>Password</td><td><input type="text"/> <small>(max. 23 characters)</small></td></tr><tr><td>Email Address</td><td><input type="text"/> <small>(optional)</small></td></tr></table> <p><input type="checkbox"/> Wildcards (optional)</p>	Service Provider	<input type="text" value="dyndns.org (www.dyndns.org)"/>	Registered Host Name	<input type="text"/> <small>(for example: xyz.dyndns.org)</small>	Login Name	<input type="text"/> <small>(max. 23 characters)</small>	Password	<input type="text"/> <small>(max. 23 characters)</small>	Email Address	<input type="text"/> <small>(optional)</small>
Service Provider	<input type="text" value="dyndns.org (www.dyndns.org)"/>											
Registered Host Name	<input type="text"/> <small>(for example: xyz.dyndns.org)</small>											
Login Name	<input type="text"/> <small>(max. 23 characters)</small>											
Password	<input type="text"/> <small>(max. 23 characters)</small>											
Email Address	<input type="text"/> <small>(optional)</small>											

Figure 3-144 DDNS Setting Screen

Item	Default	Description
Force to update every ~day(s) when WAN IP address keeps no change	1 day	Enter a number in the field to set the force update interval (in days).
No	01~03	The index number of a DDNS account.
Active	Disable	Click on check box, active or inactive the DDNS record.
<b>Update Status Now</b>	Click the <b>Update Status Now</b> button to do manual update.	
Settings	Enter the account information of DDNS Server.	
Status	YY/MM/DD HH:MM:SS:	Display the update date, time and status. The Status area shows the update time and current state of the DDNS Client.  N/A—DDNS Client service not installed. Update Successfully—DDNS Client service installed; service running. Update Fail—DDNS Client service installed; service not running.
Service Provider	Dyndns.org (www.dyndns.org)	Select a DDNS service provider by clicking in the list box. Note: Before configuring the DDNS settings, you have to register a dynamic domain at one of the dynamic domain service providers' list box.
Registered Host Name	Empty	Enter the host name of DDNS server. The maximum character of the registered host name is 100.
Login Name	Empty	Enter the user name of DDNS server.
Password	Empty	Enter the user password of DDNS server.
Email Address	Empty	Enter your email address. The DDNS Server will e-mail you important information once your Internet Name has been successfully registered.
Wildcards (optional)	Disable	Enable this function to be able to use *.mydomain.dyndns.org and not only mydomain.dyndns.org.



Click **Apply** button to save the new settings.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to DDNS setting screen.



Figure 3-145 Success Dialog Box

### 3-2-18 LAN Devices

Administrator can direct remote control to LAN Devices via the Wireless Subscriber Gateway implemented the feature.

LAN DEVICES							
Detecting time: <input type="text" value="5"/> Min(s)							
No.	Device Name	Virtual Port (5900~6910) (60001~60050)	Device IP Address	Device Server Port	Device MAC Address	Application	Interface
1	Ethernet Switch	60001	192.168.100.123	80	00900B002537	TCP	Wired
2	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
3	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
4	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wireless
5	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
6	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
7	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
8	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
9	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
10	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
47	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
48	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
49	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
50	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired

**Notice:** The system does not support FTP

Figure 3-146 LAN Devices Setting Screen

Item	Default	Description
Polling Interval	5 Min.	The default value is 5 minutes. The Polling Interval valid range is 1 to 1440.

Item	Default	Description
Device Name	Empty	The LAN device name. The maximum character of the device name is 20.
Virtual Port	0	The virtual port number valid range is 60001 to 60050 or 5900 to 5910.
Device IP Address	Empty	Enter the IP address of LAN device in the format "xxx.xxx.xxx.xxx"
Device Server Port	0	Enter the server port of LAN device.
Device MAC Address	Empty	The MAC address of LAN device. For input the device MAC address, please use this format such like "0050BA8D2296".
Application	TCP	Select one protocol type of LAN device by clicking in the list box.
Interface	Wired	Select one interface of LAN device by clicking in the list box.



Click **Delete All** button to delete all entries.



Click **Apply** button to save the new settings.

---

**Note:** The system does not support FTP.

---

### 3-2-19 Syslog

The function allows the device to transmit event messages to your syslog server or your email address for monitoring and troubleshooting.

- **Syslog Setting**

## SYSLOG

Syslog	Log Settings	
<b>Send to Syslog Server</b>	<input checked="" type="radio"/> <b>Disable</b> <input type="radio"/> <b>Enable</b>	
	<input type="checkbox"/> Syslog Server on LAN:	Server IP Address: <input style="width: 100px;" type="text"/> Server MAC Address: <input style="width: 100px;" type="text"/>
	<input type="checkbox"/> Syslog Server on WAN:	Server 1 IP Address: <input style="width: 100px;" type="text"/> Server 2 IP Address: <input style="width: 100px;" type="text"/>
	<input type="button" value="Apply"/>	
<b>Send to Email</b>	<input checked="" type="radio"/> <b>Disable</b> <input type="radio"/> <b>Enable</b>	
	Email Server:	IP Address or Domain Name: <input style="width: 150px;" type="text"/> SMTP Port: <input style="width: 50px;" type="text" value="25"/> <input type="checkbox"/> E-mail (SMTP) server needs to check my account Username: <input style="width: 80px;" type="text"/> Password: <input style="width: 80px;" type="text"/>
	Email From:	Name: <input style="width: 100px;" type="text"/> Email Address: <input style="width: 200px;" type="text"/>
	Email To:	Email Address 1: <input style="width: 150px;" type="text"/> Email Address 2: <input style="width: 150px;" type="text"/>
	<input type="button" value="Apply"/>	

Figure 3-147 Syslog Setting Screen

Item	Default	Description
Syslog	Disable	Enables or disables the syslog server function.
<b>Syslog on LAN</b>		
Server IP Address	Empty	Enter syslog server's IP address. The Wireless Subscriber Gateway will send all of its logs to the specified syslog server.
Server MAC Address	Empty	Enter the syslog server's MAC address. The Wireless Subscriber Gateway will send all of its logs to the specified syslog server.

Item	Default	Description
<b>Syslog on WAN</b>		
Server 1 IP Address	Empty	Enter IP address of first syslog server.
Server 2 IP Address	Empty	Enter IP address of second syslog server.
<b>Send to Email</b>	Disable	Enables or disables the send to e-mail function.
<b>E-mail Server</b>		
IP Address or Domain Name	Empty	Enter the SMTP server IP address or domain name. The maximum allowed characters length is 50.
SMTP Port	25	The SMTP port allowed range is 25 or 2500 to 2599.
E-mail (SMTP) Server needs to check my account	Disable	If your SMTP server requires authentication before accepting e-mail, click on check box. These values (username and password) are supplied by your network administrator, SMTP server provider or ISP.
Username	Empty	Enter the username for the SMTP server. The maximum allowed characters length is 64.
Password	Empty	Enter the password for the SMTP server
<b>Email From</b>		
Name	Empty	Enter the name you would like to appear in the "message from" field of your outgoing message. The maximum allowed characters length is 20.
Email Address	Empty	Enter your e-mail address. This is the address others will use to send email to Email Address 1/Email Address 2.
<b>Email To</b>		
Email Address 1	Empty	Enter your first e-mail address to receive the logs.
Email Address 2	Empty	Enter your second e-mail address to receive the logs.

Apply

Click **Apply** button to save the new settings.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Syslog setting screen.



Figure 3-148 Success Dialog Box

● Log Categories

**SYSLOG**

Syslog      Log Settings

**System**

Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	System Information	A log including the system information will be sent according to specified interval time	60 minute(s)
<input type="checkbox"/>	<input type="checkbox"/>	System Boot Notice	Once system reboots, the log will be sent	When system reboot
<input type="checkbox"/>	<input type="checkbox"/>	System Manager Activity Information	A log will be sent if system manager (Administrator, Supervisor or Account Manager) login to or logout from the device	When system manager login or logout

**Subscriber**

Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	Wireless Association Information	A log including wireless users information will be sent according to specified interval time	60 minute(s)
<input type="checkbox"/>	<input type="checkbox"/>	Logged-in Users	A login users information will be sent according to specified interval time	60 minute(s)

**Proprietary Accounting**

Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	Account Created	A log will be sent once after an account is created	When an account is created
<input type="checkbox"/>	<input type="checkbox"/>	Account Activated	A log will be sent once after an account is activated	When an account is activated
<input type="checkbox"/>	<input type="checkbox"/>	Subscriber Trace	A log including subscribers login/logout time will be sent once after subscriber logout	When subscriber logout

**Billing**

Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	Billing Log	A log would be sent after a billing log is created	When log created

**LAN Devices Management Category**

Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	LAN Devices Information	A log including current LAN Devices Status will be sent according to specified interval time	60 minute(s)
<input type="checkbox"/>	<input type="checkbox"/>	LAN Devices Alarm	A log will be sent if one of the LAN Devices detected result is "Fail"	When device fail

Figure 3-149 Log Settings Screen

Item	Interval Time	Description
Syslog	Disable	Click on check box, send log information to your syslog server.
Email	Disable	Click on check box, send log information to your e-mail address.

Item	Interval Time	Description
<b>System</b>		
Syslog Information	60 minutes	<p>The log included system information would be sent according to specified interval time.</p> <p><b>Format:</b>            (Id, Mac Address) (System Uptime, 0 days 00h:04m:00s)            (Location Name, Location Name) (WAN, FrameTxOK, FrameRxOK, FrameTxError, FrameRxError) (LAN, FrameTxOK, FrameRxOK, FrameTxError, FrameRxError)            (Wireless, FrameTxOK, FrameRxOK, FrameTxError, FrameRxError)</p>
System Boot Notice	When System reboot	<p>If device have been rebooted, the log would be sent.</p> <p><b>Format:</b> (Id, MAC Address) (System Up)</p>
System Manager Activity Information	When system manager login or logout	<p>A log will be sent if system manager (Administrator, Supervisor or Account Manager) login to or logout from the device.</p> <p><b>Format:</b>            (Id, Mac Address) (System Account Activity Information, Username, User IP, Status)</p> <p><b>Username:</b> Administrator   Supervisor   Accounting Operator</p> <p><b>Status:</b> Login   Logout   Idle Time Out</p>
<b>Subscriber</b>		
Wireless Association Information	60 minutes	<p>A log included wireless associated users information would be sent according to specified interval time.</p> <p><b>Format:</b>            (Id, Mac Address) (Wireless Association Information, Number of associated users, Start Number, End number) (Signal strength, Signal quality, Connection speed, MAC address)(...)(...)(...)</p>

Item	Interval Time	Description
Logged-in Users	60 minutes	<p>A log included logged-in users information would be sent according to specified interval time.</p> <p><b>Format:</b> (Id, Mac Address) (Logged-in Users, Type, Number of logged-in users, Start Number, End number) (Username, User IP, User MAC, Interface, Login time, RxData count, TxData count)(...)(...)</p> <p><b>Type:</b> Dynamic   Super   User agreement   No Authentication If the type of Logged-in user is Super Subscriber, Username will be "*****". If the build-in account mode is disabled, Username is "Anonymous".</p>
<b>Proprietary Accounting</b>		
Account Created	When an account is created.	<p>A log would be sent if account were created.</p> <p><b>Format:</b> (Id, Mac Address) (Account Create, Type, S/N, Username, Unit, Account usage time, Billing profile information)</p> <p><b>Type:</b> TimeToFinish   Accumulation   PostPaid <b>Billing profile information:</b> [index, name] <b>Account usage time:</b> 00:59:59 (example)</p>
Account Activated	When an account is activated	<p>A log would be sent if account were activated.</p> <p><b>Format:</b> (Id, Mac Address) (Account Activate, username, user IP, user MAC, Interface)</p>
Subscriber Trace	When subscriber logout	<p>A log including subscriber's login or logout time will be sent once after subscriber logout.</p> <p><b>Format:</b> (Id, MAC Address) (Subscriber Trace, Type, Event, S/N, Username, User IP, User MAC, Interface, Login time, Logout time, Usage Time, Time Left, RxData count, TxData count)</p> <p><b>Type:</b> TimeToFinish   Accumulation   PostPaid   Super <b>Event:</b> Finished   Replenished   Logout   Idle-Timeout   Account Expired   Deleted</p> <p>If the type of Subscriber Trace is Super, the Username will be "*****", and S/N will be "*****".</p> <p><b>Usage time:</b> 00:59:59 (example)</p>

### Subscriber Trace Relationship

Type	Event	Time Left
TimeToFinish	Finished	00:00:00
TimeToFinish	Replenished	00:12:00 to S/Nxxxxxx
TimeToFinish	Deleted	00:12:00
Accumulation	Finished	00:00:00
Accumulation	Replenished	00:12:00 to S/Nxxxxxx
Accumulation	Logout	00:48:00
Accumulation	Idle-Timeout	00:48:00
Accumulation	Deleted	00:48:00
Accumulation	Account Expired	00:48:00
PostPaid	Logout	*****
PostPaid	Idle-Timeout	*****
PostPaid	Deleted	*****
PostPaid	Finished	*****
PostPaid	Account Expired	*****
Super	Idle-Timeout	*****
Super	Deleted	*****

Item	Interval Time	Description
<b>Billing</b>		
Billing Log	When log created	<p>A log would be sent after a billing log is created.</p> <p><b>Format:</b> (Id, MAC Address) (Billing Log, Type, S/N, Username, Billing profile information, Units, Usage time, Bill, Payment)</p> <p><b>Type:</b> TimeToFinish   Accumulation   PostPaid</p> <p><b>Billing profile name:</b> [Name]</p> <p><b>Usage time:</b> "00:59:59" (example)</p> <p><b>Billing profile information:</b> [index, name]</p> <p><b>Payment:</b> Cash   Credit Card</p> <p>"Credit Card" does not support "PostPaid".</p> <p>If Type is "PostPaid", the billing profile information and Units will be "*".</p>

Item	Interval Time	Description
<b>LAN Devices Management Category</b>		
LAN Devices Information	60 minutes	A log including current LAN Devices Status will be sent according to specified interval time. <b>Format:</b> (Id, MAC Address) (LAN Devices Information, Number of devices, Start Number, End number) (Device name, Status)(...)(...)
LAN Devices Alarm	When device fail	A log will be sent if one of the LAN Devices detected results is "Fail". <b>Format:</b> (Id, MAC Address) (LAN Device Alarm, Device name, <b>FAIL</b> )



Click **Apply** button to save the new settings.

Click **Apply** button, the success dialog box appears. Click on **Back** to return to Logs setting screen.



Figure 3-150 Success Dialog Box

### 3-2-20 Session Trace

Session Trace is an intelligent function to help service provider to trace every user's access behavior. When "session trace" is enable , the system will collect information such like destination IP, destination port, source IP, source MAC, source port by every user and send the collected information in text format file to specified TFTP server.

#### SESSION TRACE

Session Trace

Primary TFTP Server IP Address

Secondary TFTP Server IP Address

Send Session Trace log file every  minutes. (5~1440)  
(Note: Session Trace log file will be sent also when collected 50 logs)

Figure 3-151 Session Trace Setting Screen

Item	Default	Description
Session Trace	Disable	Disables or enables session trace function.
Primary TFTP Server IP Address	Empty	Enter the IP address of the primary TFTP server.
Secondary TFTP Server IP Address	Empty	Enter the IP address of the second TFTP server.
Send Session Trace log file every~ minutes.	10 minutes	The field means to send the session trace log file every interval minutes. The value range is 5 to 1440 (minutes).

### 3-2-21 Bandwidth

The function enables administrator to limit bandwidth usage on a per user basis (MAC address). That prevents users from consuming a disproportionately large amount of bandwidth so every user gets a fair share of the available bandwidth.

#### BANDWIDTH

**Bandwidth Management:**

The function enables administrator to limit bandwidth usage on a per user basis (MAC address). That prevents users from consuming a disproportionately large amount of bandwidth so every user gets a fair share of the available bandwidth.

**Please setup the maximum Upstream/Downstream bandwidth**

Maximum Upstream     Kbps (64~5120)

Maximum Downstream     Kbps (64~5120)

Figure 3-152 Bandwidth Setting Screen

Item	Default	Description
Bandwidth	Disable	Enables or disables Bandwidth Management.
Maximum Upstream	64Kbps	Specify the amount of upstream bandwidth.
Maximum Downstream	128Kbps	Specify the amount of downstream bandwidth.

### 3-2-22 Secure Remote

This feature allows you to create a secure connection to a remote site or back end system with VPN PPTP Client. If “Secure Remote” is enabled, the RADIUS packet/ syslog will be transferred to this secure connection.

#### SECURE REMOTE

**Secure Remote** Disable

This feature allows you to create a secure connection to a remote site or back end system with VPN PPTP Client. When this feature is enable, the RADIUS packet/syslog will be transferred to this secure connection.

PPTP Client

Auto-connect at Start-up (Always connect)

PPTP Server IP address:

Username:

Password:

**Status**

**VPN Tunnel:** Offline

**Client IP:**

Figure 3-153 Secure Remote Setting Screen

Item	Default	Description
Auto-connect at Start-up (Always connect)	Disable	Enable the check box to automatically establish the PPTP connection.
PPTP Server IP address	Empty	Enter the PPTP server IP address provided by your ISP.
Username	Empty	Enter the user name provided by your ISP. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter the user password provided by your ISP. The password can consist of up to 80 alphanumeric characters and is case sensitive.
<input type="button" value="Start connection"/>		Click on Start/Stop connection button to start/stop PPTP connection.
<input type="button" value="refresh"/>		Click on refresh button to update the status.
VPN Tunnel		Display the status.
Client IP		Display the IP address.

### 3-2-23 SNMP

The SNMP Agent Configuration screen enables you to access to your device via Simple Network Management Protocol. If you are not familiar with SNMP, please consult your Network Administrator or consult SNMP reference material. You must first enable SNMP on the SNMP Agent Configuration screen.

#### SNMP

SNMP: Disable

SNMP Port: 161 ( 161 or 16100 ~ 16199 )

Trap Port: 162 ( 162 or 16200 ~ 16299 )

No	Community Name	NMS Address	Privileges	Status
1	<span style="border: 1px solid black; padding: 2px;">public</span>	<span style="border: 1px solid black; padding: 2px;">ANY</span>	<span style="border: 1px solid black; padding: 2px;">Read</span>	<span style="border: 1px solid black; padding: 2px;">Valid</span>
2	<span style="border: 1px solid black; padding: 2px;">private</span>	<span style="border: 1px solid black; padding: 2px;">ANY</span>	<span style="border: 1px solid black; padding: 2px;">Write</span>	<span style="border: 1px solid black; padding: 2px;">Valid</span>
3	<span style="border: 1px solid black; padding: 2px;"></span>	<span style="border: 1px solid black; padding: 2px;">ANY</span>	<span style="border: 1px solid black; padding: 2px;">Read</span>	<span style="border: 1px solid black; padding: 2px;">Invalid</span>
4	<span style="border: 1px solid black; padding: 2px;"></span>	<span style="border: 1px solid black; padding: 2px;">ANY</span>	<span style="border: 1px solid black; padding: 2px;">Read</span>	<span style="border: 1px solid black; padding: 2px;">Invalid</span>
5	<span style="border: 1px solid black; padding: 2px;"></span>	<span style="border: 1px solid black; padding: 2px;">ANY</span>	<span style="border: 1px solid black; padding: 2px;">Read</span>	<span style="border: 1px solid black; padding: 2px;">Invalid</span>

Apply

Figure 3-154 SNMP Setting Screen

Item	Default	Description
SNMP	Disable	Disables or enables the SNMP management.
SNMP Port	161	If the SNMP enables, also allowed to specific the SNMP port number via NAT. The allowed SNMP port numbers are 161 (default), 16100-16199 and Trap port numbers are 162 (default), 16200-16299. This Port setting is useful for remote control via NAT network.
Trap Port	162	
<b>Configuration</b>		
Community Name	public/private	Every unit with SNMP enable must be configured to recognize one or more community names up to 20 characters. The default setting for the community of entry 1 is “public” and for the entry 2 is “private” and others are empty.
NMS Address	ANY	The address of the NMS. The default settings for the NMS Networking are “ANY”.

Item	Default	Description
Privileges	Read/Write	Choose "Read", "Write", "Trap Recipients" and "All" for different privileges. The default setting of the entry 2 is "write" and others are "read".
Status	Valid/Invalid	Chosen "Valid" or "Invalid". The default setting of entry 1, 2 are valid and others are invalid.

### 3-2-24 Wireless

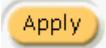
WIRELESS	
General Settings	ESSID: <input type="text" value="Wireless"/>
	Channel: <input type="text" value="0"/>
	Security: <input checked="" type="radio"/> <b>Disable</b>
	<input type="radio"/> <b>WPA</b>
	Group Key Rekeying: per <input type="text" value="86400"/> seconds
	<input checked="" type="radio"/> Use WPA with Pre-shared Key
	Pre-shared Key: <input type="text"/> (8-63 characters)
	<input type="radio"/> Use WPA with RADIUS Server
	Server IP: <input type="text"/>
	Authentication Port: <input type="text" value="1812"/>
	Shared Secret Key: <input type="text"/>
	<input type="radio"/> <b>WEP</b>
	Use Static WEP
	Encryption: <input checked="" type="radio"/> 64 bit <input type="radio"/> 128 bit
	Mode: <input type="text" value="HEX"/>
	WEP Key:
	<input checked="" type="radio"/> 1. <input type="text" value="0000000000"/>
	<input type="radio"/> 2. <input type="text" value="0000000000"/>
	<input type="radio"/> 3. <input type="text" value="0000000000"/>
	<input type="radio"/> 4. <input type="text" value="0000000000"/>
	Note: You have to restart the system to apply the WEP settings
<p style="color: red;">Do not change any setting below unless you make sure you understand all the meaning of setting. , You can press "DEFAULT" to restore the wireless factory default setting once you made setting changed to cause wireless not work</p>	
Beacon Interval	<input type="text" value="100"/> (msec, range:20~999, default:100)
RTS Threshold	<input type="text" value="2347"/> (range:1~2347, default:2347)
Fragmentation Threshold	<input type="text" value="2432"/> (range:256~2432, default:2432, even number only)
Preamble Type	<input type="radio"/> Short Preamble <input checked="" type="radio"/> Long Preamble <input type="radio"/> Dynamic Preamble
Authentication Method	<input checked="" type="radio"/> Open System <input type="radio"/> Shared Key <input type="radio"/> Both
<input type="button" value="Default"/> <input type="button" value="Apply"/>	

Figure 3-155 Wireless Setting Screen

Item	Default	Description
General Settings		
ESSID	Wireless	The ESSID is the unique name that is shared among all points in a wireless network. It is case sensitive and must not exceed 32 characters.
Channel	6	Select the channel ID for wireless connection.
Security	Disable	Select disable to allow wireless station to communicate with the device without any data encryption. Select enable to enable WPA or WEP data encryption.
WPA Encryption	Wi-Fi Protected Access Encryption	
Pre-shared Key	Empty	Enter a pre-shared key from 8 to 63 case sensitive ASCII characters.
Group Key Re-Keying	86400 Seconds	Enter a number in the field to set the force re-keying interval.
Use WPA with Pre-shared Key	Enable	
Pre-Shared Key	Empty	Enter a pre-shared key from 8 to 63 case sensitive ASCII characters.
Use WPA with RADIUS	Disable	
Server IP	Empty	Enter the RADIUS server IP address or domain name. The maximum allowed characters length is 15.
Authentication Port	1812	Enter the authentication port number. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	Enter the RADIUS secret key
WEP Encryption	Wired Equivalent Privacy Encryption	
Encryption	64 bit	The Wireless Subscriber Gateway supports 64-bit or 128 bit WEP encryption.
Mode	HEX	Options: HEX (Hexadecimal) and ASCII (American Standard Code for Information Interchange).

Item	Default	Description
WEP Key	1	<p>This selects which of the Keys the Wireless Subscriber Gateway uses when it transmits. You can change the selected encryption key every now and then to increase the security of your network.</p> <p>Note: You have to configure all WEP keys (1~4), and select one of the four WEP key.</p> <p>Enter 5 characters (case sensitive) for ASCII 64-bit WEP Key.</p> <p>Enter 10 characters (case sensitive) for Hex 64-bit WEP Key.</p> <p>Enter 13 characters (case sensitive) for ASCII 128-bit WEP Key.</p> <p>Enter 26 characters (case sensitive) for Hex 128-bit WEP Key.</p>
802.1x	Disable	Enables or disables the 802.1x function.
Encryption	64 bit	The Wireless Subscriber Gateway supports 64-bit or 128 bit 802.1x encryption.
Re-key Time	86400 Seconds	Enter a number in the field to set the force re-keying interval.
Server IP	Empty	Enter the RADIUS server IP address or domain name. The maximum allowed characters length is 15.
Authentication Port	1812	Enter the authentication port number. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	Enter the RADIUS secret key.
Beacon Interval	200	This value valid range is 1 to 1000 indicates the frequency interval of the beacon.
RTS Threshold	2347	This value valid range is 256-2342. This setting determines the packet size at which the Wireless Subscriber Gateway issues a request to send (RTS) before sending the packet. A low RTS Threshold setting can be useful in areas where many client devices are associating with the Wireless Subscriber Gateway, or in areas where the clients are far apart and can detect only the Wireless Subscriber Gateway and not each other.

Item	Default	Description
Fragmentation Threshold	2432	This setting determines the size at which packets are fragmented. Enter a setting ranging from 256 to 2432 bytes. Use a low setting in areas where communication is poor or where there is a great deal of radio interference.
Preamble Type	Long Preamble	The preamble type is a section of data at the head of a packet that contains information the Wireless Subscriber Gateway and client devices need when sending and receiving packets. The setting menu allows you to select a long, short or dynamic preamble type.
Authentication Method	Open System	<p>Select open system, shared Key or both.</p> <p><b>Open System</b>—Allows any device to authenticate and then attempt to communicate with the Wireless Subscriber Gateway. Using open authentication, any wireless device can authenticate with the Wireless Subscriber Gateway, but the device can only communicate if its WEP keys match the Wireless Subscriber Gateway. Devices not using WEP do not attempt to authenticate with a Wireless Service Gateway that is using WEP.</p> <p><b>Shared Key</b>—During shared key authentication, the Wireless Subscriber Gateway sends an unencrypted challenge text string to any device attempting to communicate with the Wireless Subscriber Gateway. The device-requesting authentication encrypts the challenge text and sends it back to the Wireless Subscriber Gateway. If the challenge text is encrypted correctly, the Wireless Subscriber Gateway allows the requesting device to authenticate. Both the unencrypted challenge and the encrypted challenge can be monitored, however, which leaves the Wireless Subscriber Gateway open to attack from an intruder who calculates the WEP key by comparing the unencrypted and encrypted text strings. Because of this weakness, shared key authentication can be less secure than open authentication.</p> <p><b>Both</b>—With this setting wireless stations can communicate with or without data encryption.</p>



Click **Apply** button to save the new settings.

Click **Apply** button, the restart dialog box appears. Click on **Apply** to restart the system.

## RESTART

Do you want to restart the system ?

Apply

Figure 3-156 Restart Dialog Box

Default

This operation will load the default manufacturer configuration to the system. All this page (Wireless) configuration setup will be replaced by default settings.

### 3-2-25 Account Generator

## ACCOUNT GENERATOR

Account Generator:

Socket Port:  (1001~1005)

Encryption:  Disable  
 Enable

Secret Key :  (max.8 characters)

Ethernet Thermal Printer IP Address :

1.	<input type="text" value="192.168.2.250"/>
2.	<input type="text"/>
3.	<input type="text"/>
4.	<input type="text"/>
5.	<input type="text"/>
6.	<input type="text"/>
7.	<input type="text"/>
8.	<input type="text"/>
9.	<input type="text"/>
10.	<input type="text"/>

Apply

Figure 3-157 Account Generator Printer Setting Screen

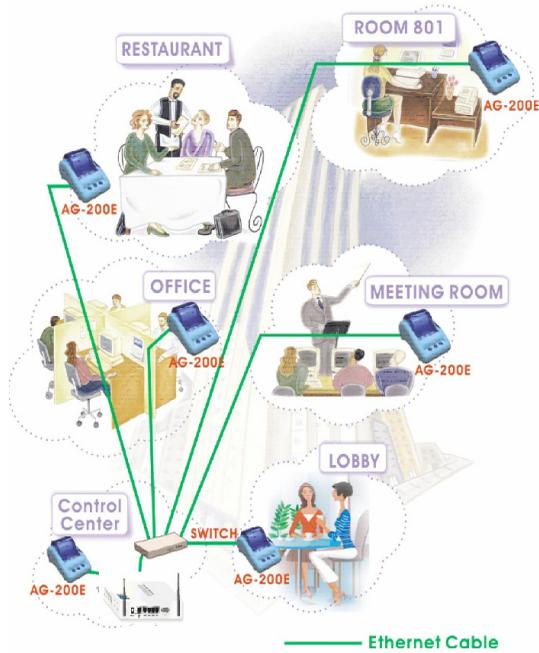


Figure 3-158 Application

### 3-3 System Status

Display Wireless Subscriber Gateway system basic status, including,

1. System
2. Account List
3. Account Log
4. Current User
5. DHCP Clients
6. Session List
7. LAN Devices

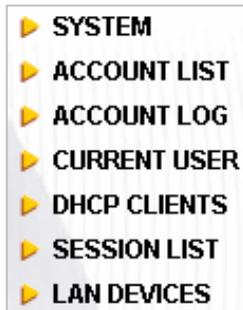


Figure 3-159 System Status Item Screen

### 3-3-1 System

The System Information Menu displays current system basic information including the service connection message, host name, LAN, WAN, DHCP Configuration, DNS, E-mail Redirection, SSL Certificate, network traffic Information and the system firmware version number.

#### SYSTEM

Display the detailed system information		
<b>Service</b>	Internet Connection	<b>OK</b>
	Wireless Service	<b>OK</b>
<b>System</b>	System Name	
	Domain Name	
	Firmware Version	1.02.08
	Wireless Version	1.2.8
	Bootrom Version	1.02
	WAN MAC Address	00:90:0E:00:9B:CC
	LAN MAC Address	00:90:0E:00:9B:CB
	System Time	2005/4/28 16:48:50
System Up Time	<b>00D:00H:22M:24S</b>	
<b>LAN IP</b>	IP Address	<b>192.168.2.1</b>
	Subnet Mask	<b>255.255.255.0</b>
<b>WAN IP</b>	WAN Port Mode	<b>Static IP</b>
	IP Address	192.168.100.191
	Subnet Mask	255.255.255.0
	Gateway IP address	192.168.100.254
<b>DNS</b>	Primary DNS Server	168.95.1.1
	Secondary DNS Server	
<b>DHCP</b>	DHCP Status	Server
	Start IP Address	<b>192.168.2.2</b>
	End IP Address:	<b>192.168.2.254</b>
	Lease Time	300
<b>Wireless</b>	ESSID	Wireless
	Channel	6
	Secure Mode	Disable
<b>E-Mail</b>	192.168.100.3	

Figure 3-160 System Status Screen

<b>Network Traffic</b>	WAN Traffic	Tx Data: 470774 Rx Data: 2471580 Tx Error: 0 Rx Error: 0
	LAN Traffic	Tx Data: 4334455 Rx Data: 856411 Tx Error: 0 Rx Error: 0
	Wireless Traffic	Tx Data: 2 Rx Data: 0 Tx Error: 0 Rx Error: 0
<b>Location Information</b>	Location	
	Address	
	City	
	State	
	Zip	
	Country	
	Contact Name	
	Contact Telephone	
	Contact FAX	
Contact Email		
<b>SSL Certificate</b>	Country	00
	State	Local State
	Local City	Local City
	Organization	Local Group
	Organization Unit	Local Host
	Common Name	1.1.1.1
	Email Address	mail@1.1.1.1

Figure 3-161 System Status Screen

### 3-3-2 Account List

You can display a list of all the account information on this device. This table includes the username, password, usage time, time created, login time, expiration time and status.

ACCOUNT LIST							
List existing account's information.							<a href="#">refresh ↻</a>
S/N	Status	Username	Usage Time	Time Created	Login Time	Expiration Time	Delete
000001	Un-used	ha92hk46	0:30:00	2005/2/14 13:44:46		2005/2/15 01:44:46	<input type="checkbox"/>
000002	Un-used	ubvnp552	1:00:00	2005/2/14 13:44:51		2005/2/15 01:44:51	<input type="checkbox"/>
000003	Un-used	gpgxgf54	2:00:00	2005/2/14 13:44:54		2005/2/15 01:44:54	<input type="checkbox"/>
000004	Un-used	38b6qm57	2:00:00	2005/2/14 13:44:57		2005/2/15 01:44:57	<input type="checkbox"/>
000005	In-used	yfp23n33	2:00:00	2005/2/14 13:45:03	2005/2/14 13:45:40	2005/2/14 15:45:40	<input type="checkbox"/>

1 Page Delete Delete All  
First Previous Next End

Figure 3-162 Account List



Click on refresh button to update the account list page.

S/N	Status	Username	Usage Time	Time Created	Login Time	Expiration Time
-----	--------	----------	------------	--------------	------------	-----------------

Click the column button to sort the column in ascending/descending order.



Select the check boxes and click 'Delete' to delete the accounts.



Delete all accounts in account list.

---

---

**Note:** This page will refresh automatically every 5 minutes.

---

---

### 3-3-3 Account Log

The account log shows the accounts' log information.

ACCOUNT LOG								
List account's log.						<a href="#">Export</a>	<a href="#">Clear Log</a>	<a href="#">refresh</a>
S/N	Username	Time Created	Login Time	Usage Time	Charge	Payment Info	Status	
000001	ha92hk46	2005/2/14 13:44:46		0:30:00	1.00	Cash	Un-used	
000002	ubwnp552	2005/2/14 13:44:51		1:00:00	2.00	Cash	Un-used	
000003	gpgxgf54	2005/2/14 13:44:54		2:00:00	3.00	Cash	Un-used	
000004	38b6qm57	2005/2/14 13:44:57		2:00:00	3.00	Cash	Un-used	
000005	yfp23n33	2005/2/14 13:45:03	2005/2/14 13:45:40	2:00:00	3.00	Cash	In-used	

Page ◀ First   Previous   Next   End ▶

Figure 3-163 Account Log

#### Export

This allow you to export the account logs to a text file format. (export.log)

[Clear Log](#)

Click on **Clear Log** to remove all account log entries.

[refresh](#)

Click on refresh button to update the account log page.

Username

Time Created

Login Time

Usage Time

Charge

Status

Click the column button to sort the column in ascending/descending order.

### 3-3-4 Current User

Display the current logged-in subscribers' status. It allow service provider to disconnect any subscribers.

List current user's information such as IP address and MAC address. [refresh](#)

No.	Type	Username	IP Address	MAC Address	Disconnect
1	Dynamic	yfp23n33	192.168.100.192	00:0C:6E:56:56:6E	<input type="checkbox"/>

**Disconnect** **Disconnect All**

**GO**  Page First Previous Next End

Figure 3-164 Current User List

**CURNET USER** [refresh](#)

NO.	Type	Username	IP Address	MAC Address	Disconnect
1	Superuser	super	192.168.100.192	00:0C:6E:56:56:6E	<input type="checkbox"/>

**Disconnect** **Disconnect All**

**GO**  Page First Previous Next End

Figure 3-165 Current User List (super account)

**CURNET USER** [refresh](#)

NO.	Type	IP Address	MAC Address
1	Non_Auth	192.168.100.192	00:0C:6E:56:56:6E

**GO**  Page First Previous Next End

Figure 3-166 Current User List (No Authentication)



Click on refresh button to update the current user list page.

Type	Username	IP Address	MAC Address
------	----------	------------	-------------

Click the column button to sort the column in ascending/descending order.



Select the check boxes and click 'Disconnect' to disconnect accounts.



Disconnect all accounts in current user list.

### 3-3-5 DHCP Clients

The DHCP client table shows the current DHCP users on the LAN.

#### DHCP CLIENTS

DHCP Client's Information, including assigned IP address and MAC address.		
No.	MAC Address	IP Address
1	00:20:2D:4B:86:DE	192.168.2.2
2	00:C0:CA:19:7D:58	192.168.2.3

Figure 3-167 Current User Screen

### 3-3-6 Session List

The remote site administrator could monitor the real time usage status of Wireless Subscriber Gateway via this page.

SESSION LIST							
List of sessions of Network events. Incoming and outgoing packet information, including source IP address, destination IP address, and port number.							
»GO 1 Page		« First ◀ Previous Next ▶ End »					
No.	TCP/UDP	Client IP	Client Port	Port Fake	Remote IP	Remote Port	Idle
1	TCP	192.168.100.192	4672	50013	207.46.106.94	1863	25
2	TCP	192.168.100.192	4717	50046	207.46.108.47	1863	128
»GO 1 Page		« First ◀ Previous Next ▶ End »					

Figure 3-168 Session List Screen

### 3-3-7 LAN Devices

You can manage all devices by clicking on device name to access device's Web-based interface.

**LAN DEVICE**

We detect below listed devices to check if alive every **5 min**.  
You can manage below listed devices by clicking device name to access its Web-based UI.

NO.	Device Name	Status	Virtual Port (5900~5910) (60001~60050)	Device IP Address	Device Server Port	Device MAC Address	Application	Interface
1	<a href="#">Ethernet Switch</a>	OK	60001	192.168.100.123	80	00:90:0E:00:25:37	TCP	Wired

**Click**

**Username:**

**Password:**

(c) 2000-2003 All Rights Reserved.

Figure 3-170 Example- Ethernet Switch Management Screen

### 3-4 System Tools

This allows service provider or administrator to process Firmware upgrade, change password and backup or restore configuration.

1. Configuration
2. Firmware
3. Boot Code
4. System Account
5. SSL Certificate
6. Ping Command
7. Restart
8. Logout



Figure 3-171 System Tools Item

### 3-4-1 Configuration

Use the Configuration item to save, restore or reset configuration parameters of the Wireless Subscriber Gateway.

**CONFIGURATION**

This feature can backup the system configuration from this device to your PC or restore your stored system configuration to this device.

**Backup**

Click Backup to backup the system configuration from this device to your computer or to the remote TFTP server.

Remote TFTP Server IP Address:

File Name:

**Restore**

To restore your stored system configuration to this device.

Local PC File Path:

Remote TFTP Server IP Address:

File Name:

**Reset the system back to factory defaults**

Keep subscriber profile

Figure 3-172 Configuration Setting Screen

Item	Default	Description
Backup		Click it to save the system configuration to your computer. (export.cfg)
Remote TFTP Server IP Address	Empty	Enter the IP address of TFTP Server.
File Name	Empty	Enter the file name in the File Name field.
Restore		Click it to restore your system configuration.
Local PC File Path	Empty	Enter the file pathname of the system configuration file in the Local PC File Path field.
Remote TFTP Server IP Address	Empty	Enter the IP address of TFTP Server.
File Name	Empty	Enter the file name in the File Name field.
Reset the system back to factory defaults		Erase all setting and back to factory setting.
Keep subscriber profile	Disable	Click the keep subscriber profile to change all the parameters into factory setting but still reserve the subscriber profiles.

### 3-4-2 Firmware Upgrade

The Firmware Upgrade menu loads updated firmware to be permanent in flash ROM. The download file should be a binary file from factory; otherwise the agent will not accept it. After downloading the new firmware, the agent will automatically restart it.

- **Manual Firmware Upgrade**

## FIRMWARE

<b>Manual Firmware Upgrade</b>	Scheduled Firmware Upgrade
--------------------------------	----------------------------

To upgrade the firmware, click **Browse** to locate the firmware file or use remote TFTP server and click **Apply**.

Local PC File Path

Remote TFTP Server IP Address  File Name

Figure 3-173 Manual Firmware Upgrade Setting Screen

Item	Default	Description
<b>This allow administrator to upgrade the firmware via HTTP.</b>		
Local PC File Path	Empty	Enter the file name and location in the Local PC File Path field.
<b>This allows administrator use TFTP server to upgrade firmware.</b>		
Remote TFTP Server IP Address	Empty	Enter the IP address of TFTP Server.
File Name	Empty	Enter the file name in the File Name field.

**Note:**

1. Before downloading the new firmware, users must save the configuration file for restore configuration parameters of the device.
2. Do not turn the power off during the upgrade process. This will damage the unit.

- **Scheduled Firmware Upgrade**

Scheduled Firmware Upgrade is a program that enables an automatic upgrade to the latest firmware version through the TFTP server.

### FIRMWARE

Manual Firmware Upgrade

Scheduled Firmware Upgrade

This feature allows you to upgrade the system firmware on a regular (hourly / daily / weekly) basis automatically.

**Disable**  
 **Enable**

TFTP Server IP	<input type="text"/>	
File Synchronization	<input type="text"/>	<a href="#">View Sample File</a>
Frequency	<input checked="" type="radio"/> Weekly <input type="radio"/> Daily <input type="radio"/> Hourly <input type="text" value="Sunday"/> <input type="text" value="00"/> Hour <input type="text" value="00"/> Min.	

*Figure 3-174 Scheduled Firmware Upgrade Setting Screen*

Item	Default	Description
Disable/Enable	Disables or enables the scheduled firmware upgrade function.	
TFTP Server IP	Empty	Enter the IP address of TFTP Server.
File Synchronization	Empty	Enter the file name and location in the File Synchronization field.
<a href="#">View Sample File</a>		Click the button to display synchronization file example.
Frequency	Weekly	Set the firmware upgrade time. The default value is "Weekly".

### Synchronization Check File Sample Code

Version=1.00.00  
 Filename=wg602.bin

*Figure 3-175 Synchronization File Sample Code*

---

**Note:** Do not turn the power off during the upgrade process. This will damage the unit.

---

### 3-4-3 Boot Code

BOOT CODE	
To upgrade the Boot Code, click <b>Browse</b> to locate the file and click <b>Apply</b>	
Local PC file Path	<input type="text"/> <input type="button" value="Browse.."/>
<input type="button" value="Apply"/>	

Figure 3-176 Boot Code Upgrade Setting Screen

### 3-4-4 System Account

Use the System Account screen to change the system accounts.

SYSTEM ACCOUNT	
<b>Administrator Account</b>	
Administrator can fully control this system and modify all settings.	
Username:	<input type="text" value="admin"/>
Password:	<input type="password" value="*****"/>
Confirm:	<input type="text"/>
<b>Web-based Accounting Manager</b>	
Web-based accounting manager can operate the proprietary web-based accounting system.	
Username:	<input type="text" value="account"/>
Password:	<input type="password" value="*****"/>
Confirm:	<input type="text"/>
<b>Supervisor Account</b>	
Supervisor can only view system status and change password.	
Username:	<input type="text" value="supervisor"/>
Password:	<input type="password" value="*****"/>
Confirm:	<input type="text"/>
<b>Super Subscriber Account</b>	
Super subscriber is a built-in subscriber account for system test or premium usage.	
Super Subscriber	<input type="text" value="Disable"/>
Idle Time Out	<input type="text" value="5"/> Min(s)(1 - 1440)
Username:	<input type="text" value="super"/>
Password:	<input type="password" value="*****"/>
Confirm:	<input type="text"/>
<input type="button" value="Apply"/>	

Figure 3-177 System Account Setting Screen

Item	Description
Username	The username can consist of up to 20 alphanumeric characters and is sensitive.
Password	The password can consist of up to 20 alphanumeric characters and is sensitive.
Confirm	The password for confirmation.
Super Subscriber	Disables or enables the super account function.
Idle Time Out	The user idle time out valid is 1 to 1440 minutes. If the idle time out is set as 5 minutes, it means if the account doesn't send packet in 5 minutes, the account will logout automatically.

● **Administrator Account**

Step 1: Start your Web browser and enter the factory default IP address **192.168.2.1** in your browser's location box. Press Enter.



Figure 3-178 Web Browser Location Field (Factory Default)

Step 2: The Wireless Subscriber Gateway configuration main menu will appear. Enter **admin** (default) as the Username and **smcadmin** (default) as the password and click **Login**. If you are first time setting the system, the wizard setup screen will appear

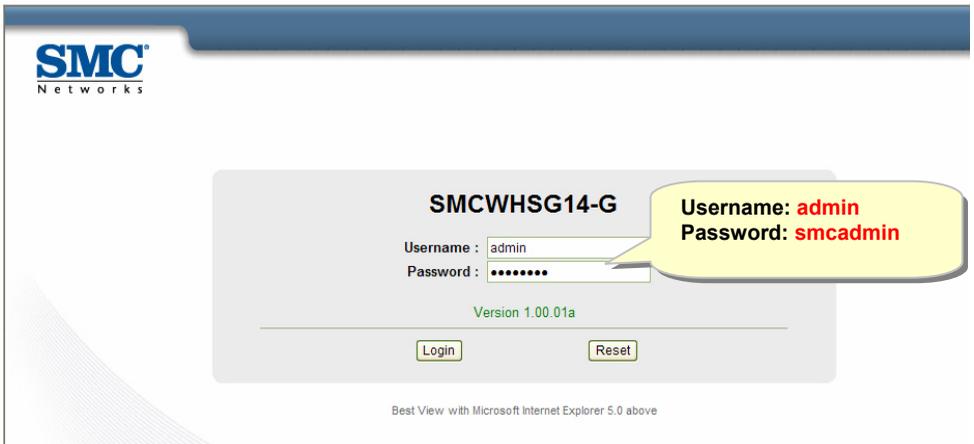


Figure 3-179 Administrator Account Login Screen (First Time)

Or

### System Quick View

System				refresh
System/Host Name		Firmware Version	1.00.04	
Location Name		Domain Name		
System Time	2004/7/2 16:08:58	System Up Time	00D:00H:01M:11S	
WAN MAC address	00:90:0E:00:60:C1	LAN MAC address	00:90:0E:00:60:C0	
Network				
WAN Status	<b>Not Established</b>	WAN Type	DHCP Client	
WAN IP Address	None	LAN IP Address	192.168.2.1	
WAN Subnet Mask	None	LAN Subnet Mask	255.0.0.0	
Default Gateway	None	DNS		
Wireless				
Wireless Service	OK	ESSID	SMC	
Wireless Channel	6	Secure Mode	Disable	
Traffic				
WAN	TxData:10 RxData:0 TxError:0 RxError:0			
LAN	TxData:83 RxData:77 TxError:0 RxError:0			
Wireless	TxData:2 RxData:0 TxError:0 RxError:0			
				refresh

Best View with Microsoft Internet Explorer 5.0 above

Figure 3-180 System Quick View

- **Web-Based Accounting Manager**

Step 1: Start your Web browser and enter the factory default IP address **192.168.2.1** in your browser's location box. Press Enter.



Figure 3-181 Web Browser Location Field (Factory Default)

Step 2: The Wireless Subscriber Gateway configuration main menu will appear. Enter **account** as the Username and **account** as the password and click **Login**

Figure 3-182 Web-Based Accounting Manager Login Screen

**SMCWHSG14-G**

Username :

Password :

Version 1.00.01a

Step 3: After a valid user name and password have been provided, the account Generator Panel homepage will appear.

**Account Generator Panel**

Please choose one button from the following selections

[Logout](#) [View Account List](#)

Figure 3-183 Account Generator Panel

- **Supervisor Account**

Step 1: Start your Web browser and enter the factory default IP address **192.168.2.1** in your browser's location box. Press Enter.



Figure 3-184 Web Browser Location Field (Factory Default)

Step 2: The Wireless Subscriber Gateway configuration main menu will appear. Enter **supervisor** as the Username and **supervisor** as the password and click **Login**.



Figure 3-185 Supervisor Account Login Screen

Step 3: After a valid user name and password have been provided, the Wireless Subscriber Gateway configuration homepage will appear.

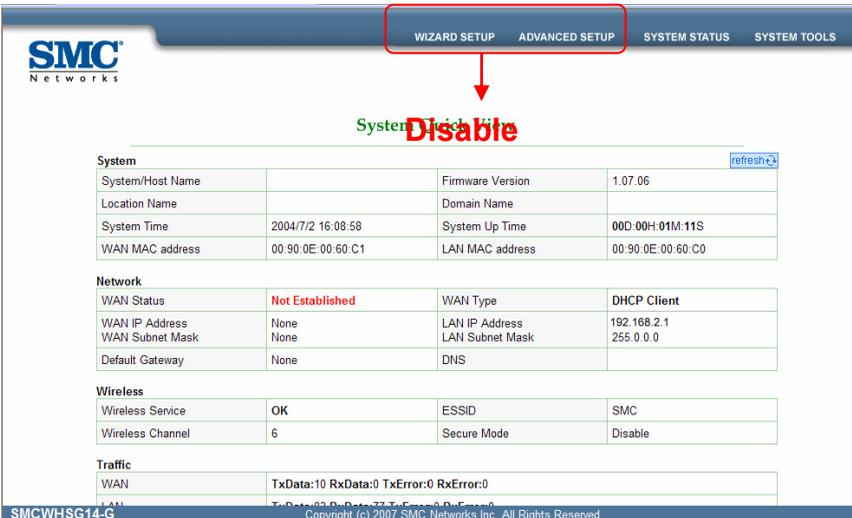


Figure 3-186 System Status Screen

● **Super Subscriber Account**

Start your Web Browser; a subscriber login page will appear. Enter **super** as the Username and **super** as the password and click **Enter**, you can use Internet now.

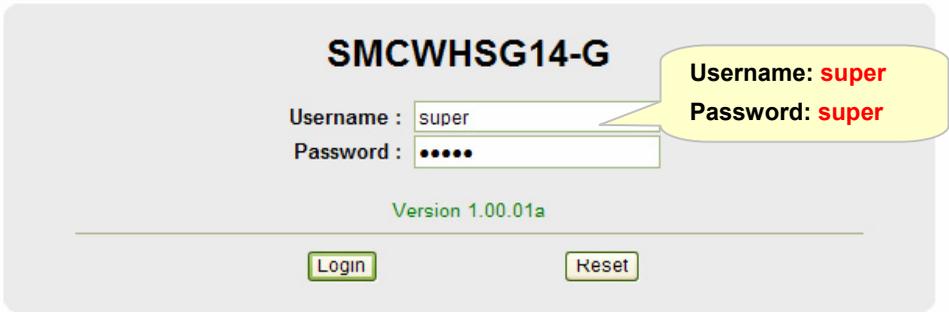


Figure 3-187 Subscriber Login Page

**3-4-5 SSL Certificate**

The function allows you to download the registered CA certificate into the Wireless Subscriber Gateway.

<b>SSL CERTIFICATE</b>	
This feature allows you to download the registered CA certificate into this device.	
Password for Private Key:	<input type="text"/>
Certificate File:	<input type="text"/> Browse..
Private Key File:	<input type="text"/> Browse..
<input type="button" value="Apply"/>	

Figure 3-188 SSL Certificate Download Setting Screen

---

**Note:** The password field must be the same as the CA's registered password.

---

### 3-4-6 Pin Command

The Ping function can check the Wireless Subscriber Gateway networking connective or not.

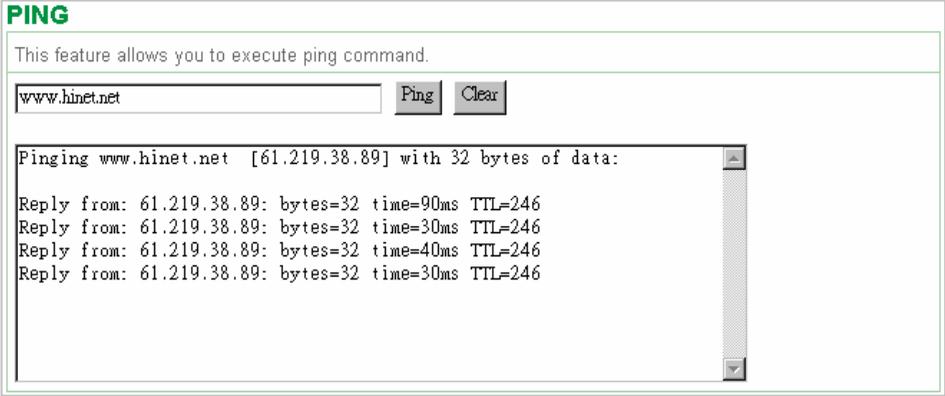


Figure 3-189 Ping Command Screen

Item	Description
IP or URL	Enter the IP address or the URL link.

### 3-4-7 Restart

If your Wireless Subscriber Gateway is not operating correctly, you can choose this option to display the restart Wireless Subscriber Gateway screen. Clicking the apply button restart the Wireless Subscriber Gateway, with all of your settings remaining intact.



Figure 3-190 Restart Screen

### 3-4-8 Logout

If you would like to leave the configuration page, please click apply to exit.



Figure 3-191 Logout Screen

## Appendix A Signal Connection Arrangements

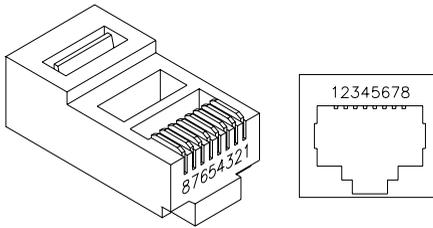
### **RJ-45 Ethernet Port**

The Wireless Subscriber Gateway RJ-45 Ethernet port can connect to any networking devices that use a standard LAN interface, such as a Hub/Switch Hub or Router. Use unshielded twisted-pair (UTP) or shield twisted-pair (STP) cable to connect the networking device to the RJ-45 Ethernet port.

Depending on the type of connection, 10Mbps or 100Mbps, use the following Ethernet cable, as prescribed.

**10Mbps:** Use EIA/TIA-568-100-Category 3, 4 or 5 cable.

**100Mbps:** Use EIA/TIA-568-100-Category 5 cable.



*Figure A-1 RJ-45 Connector and Cable Pins*

---

**Note:** To prevent loss of signal, make sure that the length of any twisted-pair connection does not exceed 100 meters.

---

## Appendix B Regulations/EMI Compliance

### FCC Regulatory Statement

Part 15-Class B compliant device

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including that which may cause undesired operation.

This equipment has been test and found to comply with the limits for a computing device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. The equipment and the receiver should be connected the outlets on separate circuits.
4. Consult the dealer or an experienced radio/television technician for help.

Changes or modification not expressly approved be the party responsible for compliance could void the user's authority to operate the equipment.

Corporate Headquarters

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**TECHNICAL SUPPORT**

From U.S.A. and Canada (24 hours a day, 7 days a week)  
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**DUTCH**

Technische ondersteuningsinformatie beschikbaar op [www.smc.com](http://www.smc.com)

**PORTUGUES**

Informações sobre Suporte Técnico em [www.smc.com](http://www.smc.com)

**SWEDISH**

Information om Teknisk Support finns tillgängligt på [www.smc.com](http://www.smc.com)

**INTERNET**

E-mail address: [techsupport@smc.com](mailto:techsupport@smc.com)

**Driver updates**

[http://www.smc.com/index.cfm?action=tech\\_support\\_drivers\\_downloads](http://www.smc.com/index.cfm?action=tech_support_drivers_downloads)

**World Wide Web**

<http://www.smc.com/>

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