



# USER GUIDE

**SMCWHSG14-G**

**EliteConnect™  
802.11g Wireless Hotspot Gateway**

SMCWHSG14-G

User Guide

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## 1. Introduction

The Wireless Hotspot 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 Hotspot 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 Hotspot 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 Hotspot 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 Hotspot Gateway
- Two antennas
- One AC Power Adapter for Wireless Hotspot 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 Hotspot Gateway to direct sunlight or another heat source.
- Choose a well-ventilated area to position your Wireless Hotspot Gateway.

## 1-4 Outlook

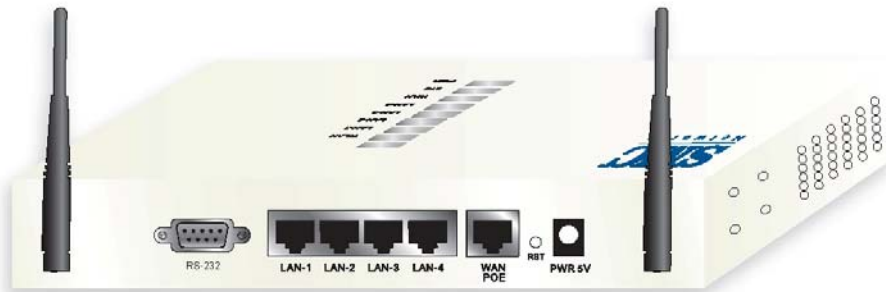
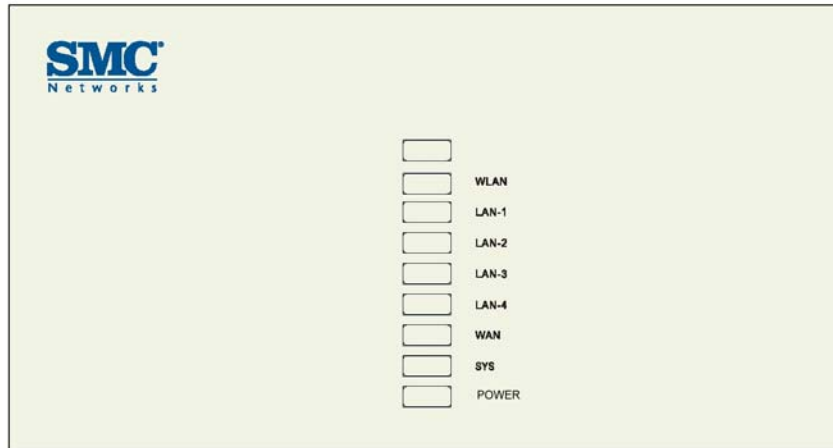


Figure 1-1 Wireless Hotspot Gateway Outlook

#### 1-4-1 Top Panel

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



*Figure 1-2 Wireless Hotspot Gateway Top Panel*

## LEDs Indication

| LED             | State            | Description   |
|-----------------|------------------|---|
| POWER           | Off              | The Wireless Hotspot Gateway is not receiving electrical power.           |
|                 | Green            | The Wireless Hotspot Gateway is receiving electrical power.               |
| SYS             | Off              | The Wireless Hotspot Gateway status is defective.                         |
|                 | Green            | The Wireless Hotspot 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~<br>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 Hotspot 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 Hotspot Gateway is shown below.

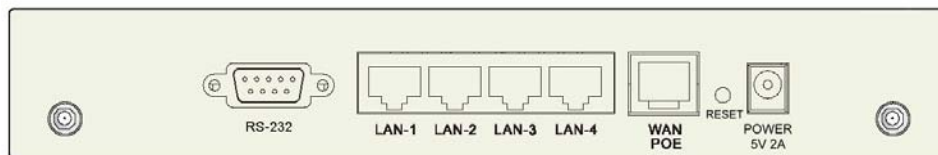


Figure 1-4 Wireless Hotspot Gateway Rear Panel

**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 Hotspot 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 Hotspot Gateway.

**1-5 Technical Specifications**

**1-5-1 Hardware Specifications**

**Network Specification**

IEEE802.3 10BaseT Ethernet

IEEE802.3u 100BaseTX Fast Ethernet

IEEE802.11g 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 Hotspot Gateway. Refer to the illustration and follow the simple steps below to quickly install your Wireless Hotspot Gateway.

### 2-1 Wall-Mounting

The Wireless Hotspot 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 Hotspot Gateway

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

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

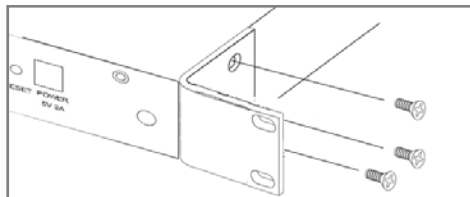


Figure 2-2

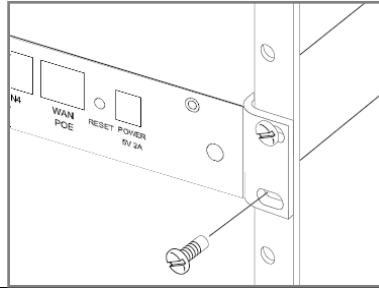
2. Hang Wireless Hotspot Gateway on the wall by sliding the two screws in the mounting brackets.

#### 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.



---

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

---

## 2-2 Connecting the Antennas

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

## 2-3 Installation Requirements

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

### System Requirements

The Wireless Hotspot 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)

---

**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 Hotspot Gateway
- Your subnet mask for the Wireless Hotspot 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 "255.255.0.0".
- 

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

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

## 2-4 Getting Start

1. Place the Wireless Hotspot Gateway and AG-200E Printer on a flat work surface.
2. Connect the Ethernet cable to the Wireless Hotspot 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 Hotspot 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 Hotspot Gateway. Check that the LAN Port Status LED lights.
7. Configure the further parameters via a Web browser.

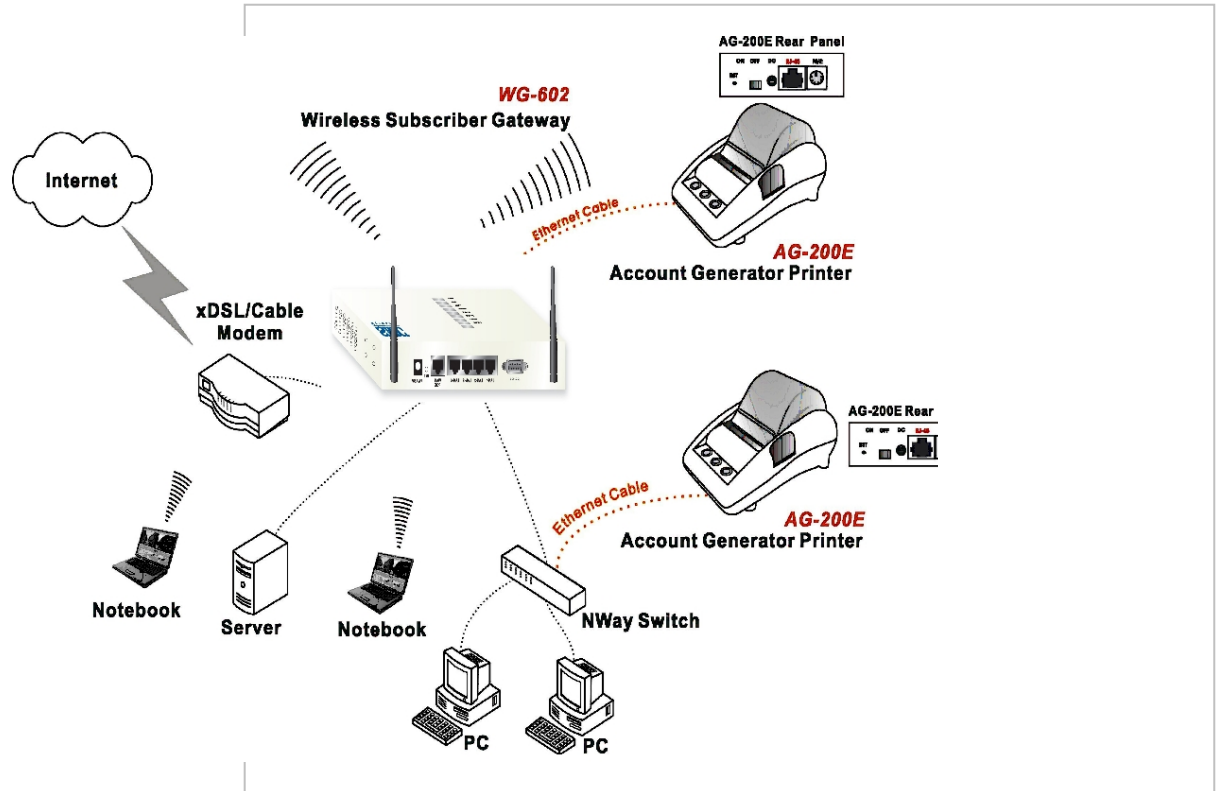


Figure 2-4 Wireless Hotspot Gateway Connection

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

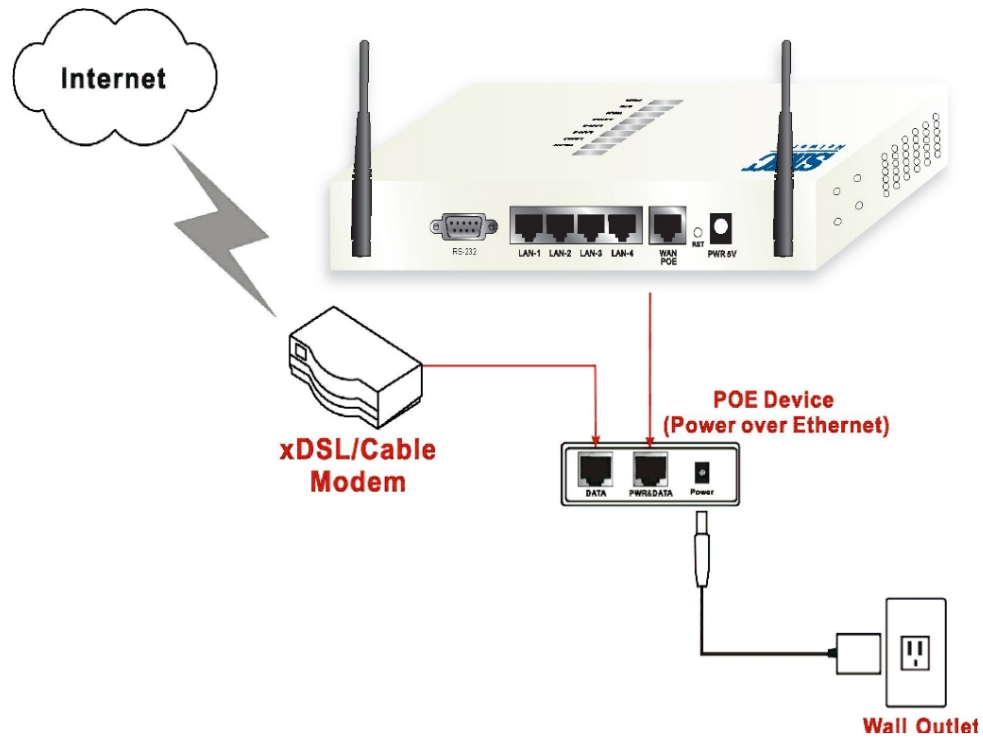


Figure 2-6 POE Connection

**Note:** To use the SMCWHSG14-G's POE feature, follow the instructions for your specific POE device.

### 3. Configuring the Wireless Hotspot 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 Hotspot 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.

Username: **admin**  
Password: **smcadmin**

SMCWHSG14-G

Username : admin

Password : .....

Version 1.00.01a

Login Reset

SMC Networks

WIZARD SETUP ADVANCED SETUP SYSTEM STATUS SYSTEM TOOLS

Internet Connection

Please choose one from the following selections

DHCP Client

Your ISP will configure IP settings for you

Next >

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

## System Quick View

| System <span style="float: right;"><a href="#">refresh</a></span> |                   |                  |                   |
|---|-------------------|------------------|-------------------|
| 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   |

[refresh](#)

Best View with Microsoft Internet Explorer 5.0 above

Figure 3-4 System Quick View



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 Hotspot Gateway Configuration Program, please press the reset button to load the device to manufacturer defaults.
- ☞ If the Wireless Hotspot Gateway doesn't send packet in 5 minutes (default), the Wireless Hotspot 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.

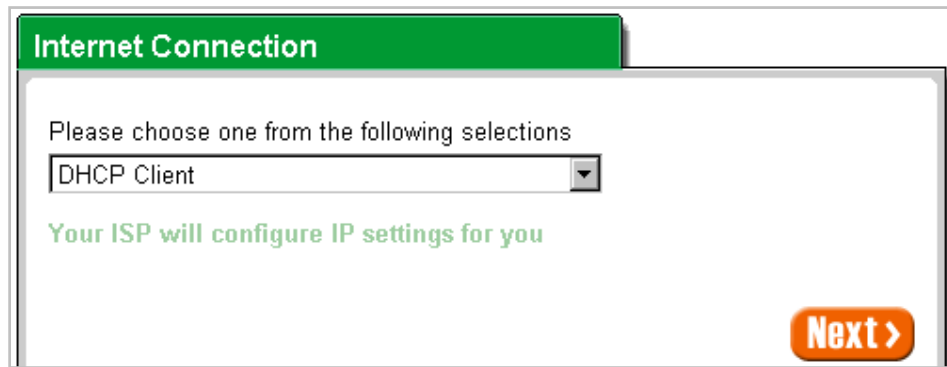
The screenshot shows a web-based configuration interface. At the top, there is a green header bar with the text "Internet Connection". Below this, the text "Please choose one from the following selections" is displayed. Underneath is a dropdown menu with "DHCP Client" selected. Below the dropdown, the text "Your ISP will configure IP settings for you" is shown in green. In the bottom right corner, there is an orange button with the text "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.

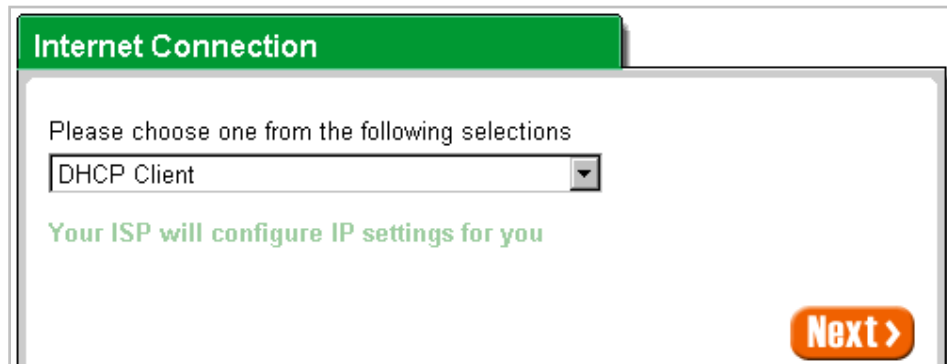
This screenshot is identical to Figure 3-5, showing the "Internet Connection" setting screen with "DHCP Client" selected in the dropdown menu.

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 Hotspot 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 Hotspot 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.   |
| Connect on Demand and Max Idle Time |            |   |
| Connect on Demand                   | Enable     | You can configure your Wireless Hotspot 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 Hotspot 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 PPTP enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.   |
| Redial Period                       | 30 Seconds |   |

#### Step 4: Wireless Setting

This page allows you to define ESSID, Channel ID and WEP/WPA encryption for wireless connection.

The image shows a web-based configuration interface for wireless settings. On the left is a vertical sidebar with eight menu items, each with a yellow square icon and a number: 1 INTERNET, 2 WIRELESS (highlighted with a red border), 3 E-MAIL, 4 AUTHENTICATION, 5 BILLING, 6 PRINTER, 7 ACCOUNTING, and 8 SYSTEM. The main content area has a green header bar labeled 'Wireless Settings'. Below this, there are two configuration fields: 'ESSID:' with a text input containing 'Wireless' and '(Case Sensitive)' to its right, and 'Channel:' with a dropdown menu showing '6' and '(Leave default if you don't know what to choose)' to its right. At the bottom of the main area are two orange buttons: '< Back' on the left and 'Next >' on the right.

Figure 3-10 Wireless Setting Screen

| Item    | Default  | Description   |
|---------|----------|---|
| 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        | Enter the channel ID for wireless connection.   |

### Step 5: E-mail Server Setting

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

Figure 3-11 E-mail Service Setting Screen

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

**E-mail Service**

Do you provide E-mail server for SMTP redirect service ?

☒ No

☐ Yes , I allow guests to send e-mail as usual even if their configured mail server is unavailable or behind a corporate firewall

Please enter E-mail (SMTP) server's IP address or Domain name

SMTP Port: 25

< Back      Next >

| 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 Hotspot Gateway provides an extra Email server parameter to forward the subscriber's Email. The Wireless Hotspot 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/<br>No Authentication | No<br>(No Authentication) | <p><b>Yes—</b><br/>Wireless Hotspot 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 Hotspot Gateway, and the system will authenticate the subscriber login according to the generated account.</p> <p><b>No—</b><br/>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: 2 )

| No. | Name (max. 12 char.) | Usage time | Charge |
|-----|----------------------|------------|--------|
| 01  | 30 minutes           | 30 minutes | 1.00   |
| 02  | 1 hour               | 1 hours    | 2.00   |
| 03  | 2 hours              | 2 hours    | 3.00   |

< Back

Next >

Figure 3-13 Billing Profile Setting Screen

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

| 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/<br>1 hour/<br>2 hours | It is the name of billing profile. The maximum allowed characters length is 12.                  |
| Usage Time                | 30 minutes/<br>1 hour/<br>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 Hotspot 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.

**Account Generator**

**Use Account Generator Printer to generate account ?**

☒ **Yes**  
I can use the button on the **exclusive printer** to create account and print out the account information without PC operating

Socket Port:  (1001~1005)

Printer IP Address:

☐ **No**  
I can use the **PC web-based browser** to create account and print out the account information with PC-connected printer

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

Figure 3-14 Printer Setting Screen

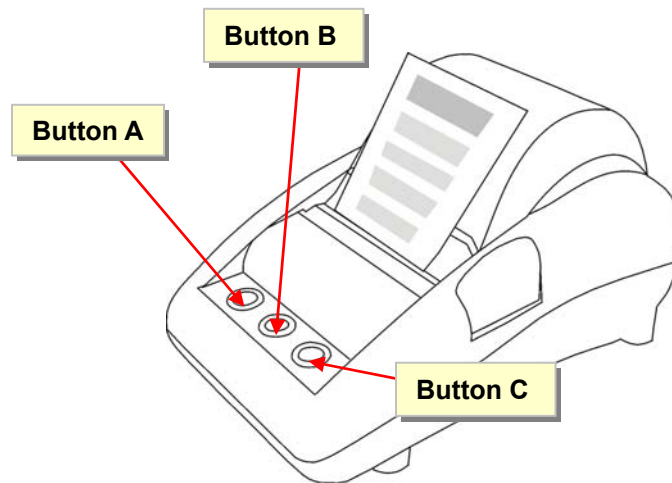


Figure 3-15 Account Generator Printer

### 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)

No

Diagram illustrating the Billing Profile Setting Screen interface. The screen displays a table with columns: Button, Name, Charge, and Usage Time. The 'Button' column shows 'Button A'. The 'Name' column shows '(01)'. The 'Charge' column shows '30 minutes'. The 'Usage Time' column shows '30 minutes, \$1.00'. The interface includes yellow boxes and arrows indicating navigation or editing options.

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.                |
| Customize printout text  | This function allows you to produce custom bill based on your requirements. |   |
| I want to setup the web-based accounting now if exclusive printer cannot work  |   |   |
| 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.

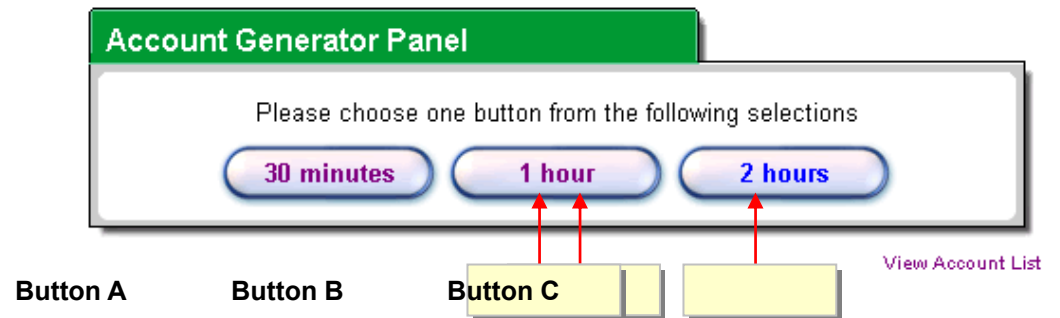


Figure 3-19 Account Generator Panel

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 !

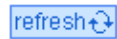
*Figure 3-20 Example-Account Printout*

## View Account List

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

| ACCOUNT LIST  |         |          |            |                      |                      |                      |   |
|---|---------|----------|------------|----------------------|----------------------|----------------------|---|
| List existing account's information.  |         |          |            |                      |                      |                      | <a href="#">refresh</a>                           |
| SN  | Status  | Username | Usage Time | Time Created         | Login Time           | Expiration Time      | Delete  |
| 000007  | Un-used | 22f68g52 | 0:30:00    | 2002/3/3<br>21:21:51 |                      | 2002/3/4<br>09:21:51 | <input type="checkbox"/>                          |
| 000008  | In-used | j4x9yt28 | 2:00:00    | 2002/3/3<br>21:22:28 | 2002/3/3<br>21:23:56 | 2002/3/3<br>23:23:56 | <input type="checkbox"/>                          |
| <a href="#">GO</a> <input type="text" value="1"/> Page                                  |         |          |            |                      |                      |                      | <a href="#">Delete</a> <a href="#">Delete All</a> |
| <a href="#">First</a> <a href="#">Previous</a> <a href="#">Next</a> <a href="#">End</a> |         |          |            |                      |                      |                      |   |

Figure 3-21 Account List



Click on refresh button to update the account list page.

| SN | 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.=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"/> (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, B:AM/PM) |   |
| <input checked="" type="checkbox"/> Expiration Time: | Description:  | <input type="text" value="Please activate your account before"/> (Max.=24x5)                                  |
|  | Format:   | <input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/> (HH:24h, hh:12h, B: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 !"/> (Max.=24x10)   |   |

[Preview of PC-connected printer](#)

[Preview of account generator printer](#)

[Preview of Post-Paid Printout](#)

Apply

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.

40



| Welcome!  |   |
|---|---|
| Hotspot Internet Service  |   |
| 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>  |   |
|  |  |

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



| Welcome!  |   |
|---|---|
| Hotspot Internet Service  |   |
| 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>  |   |
|  |  |

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

Welcome!

Hotspot Internet Service

Username:xxxxxxxx

Password:xxxxxxxx

Billing: Time to Finish

Service: 30 minutes

Unit: 1

Usage Time: 0:30:00

Total \$1.00

ESSID: Wireless

2005/2/1 10:29:49  
S/N:000001  
Please activate your account before  
2005/2/1 22:29:49

Thank you very much !

Close
Print

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

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 !

Close
Print

## 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 account before

2005/2/1 22:50:14

---

Thank you very much !

### 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 "ENTER "

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<br>HH:MM:SS | <div>Get from my Computer</div> <p>Click <b>Get from my Computer</b> button to correct the system date and time.</p>              |
| 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. |

**FINISH**

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

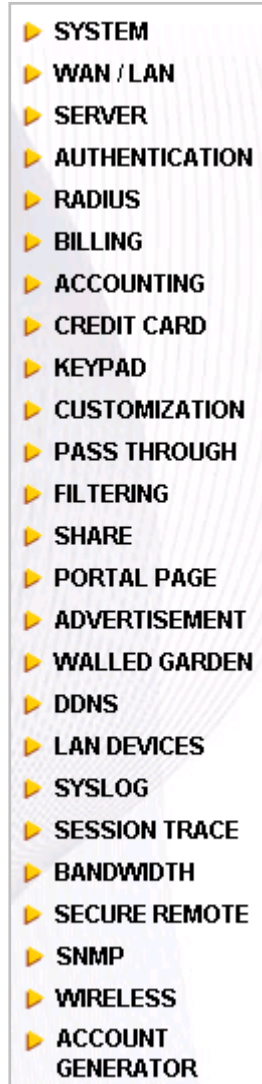


Figure 3-29 Advanced Setting Item Screen

---

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

---

### 3-2-1 System

Define the Wireless Hotspot 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   |
|                      | 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><br><input checked="" type="checkbox"/> IP Plug and Play<br><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><br><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 Hotspot Gateway. The valid setting of year is from 2002 to 2035. |
| Time (Hour:Minute:Second)                           | System Time | The system time of the Wireless Hotspot 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 Hotspot Gateway. Adjust the begin time and end time.  |
| NAT (Network Address Translation)    |           |  |
| 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 Hotspot 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



|   |   |
|---|---|
| LAN   | <p>The Device IP Address and Subnet mask settings</p> <p>IP Address: <input type="text" value="192.168.2.1"/></p> <p>Subnet Mask: <input type="text" value="255.255.255.0"/></p>  |
| WAN MAC Address   | <p><input checked="" type="radio"/> Default</p> <p><input type="radio"/> Change to: <input type="text" value="00"/> : <input type="text" value="00"/> : <input type="text" value="00"/> : <input type="text" value="00"/> : <input type="text" value="00"/> : <input type="text" value="00"/></p>   |
| WAN Port Mode   | <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 ? |  |
| <div>Apply</div>                    |  |

Figure 3-34 Restart Dialog Box

## WAN / LAN

|     |  |               |
|-----|--|---------------|
| LAN | The Device IP Address and Subnet mask settings |               |
|     | IP Address:                                    | 192.168.2.1   |
|     | Subnet Mask:                                   | 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"/> : <input type="text" value="00"/> : <input type="text" value="00"/> : <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.

☒ **DHCP Client** ( Mostly for Cable modem users or Local Area Network )

Figure 3-38 DHCP Client Setting Screen

### **Static IP**

☒ **Static IP** ( Mostly for advanced Local Area Network environment )

**You have static IP information from your ISP**

IP Address:

Subnet Mask:

Gateway IP address:

Primary DNS Server:

Secondary DNS Server:

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 Hotspot 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 Hotspot 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.   |
| Connect on Demand and Max Idle Time |            |   |
| Connect on Demand                   | Enable     | You can configure your Wireless Hotspot 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 Hotspot 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 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

☒ HTTP Port: 80 (80, 8010-8060)

☐ HTTPS Port: 443 (443, 4430-4440)

Administrator Idle-Timeout: 5 Min(s) (1 - 1440)

DHCP Server

☐ DHCP Disable

☐ DHCP Relay

DHCP Server IP Address:

☒ DHCP Server

IP Pool Starting Address: 192.168.2.1

Pool Size: 253 (Max=253)

Lease Time: 300 (Minutes)

Primary DNS Server: 168.95.1.1

Secondary DNS Server:

Email Server Redirect

IP Address or Domain Name:


SMTP Port: 25 (25, 2500 - 2599)

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 Hotspot 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 Hotspot 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.<br>DHCP Disable—Disable the DHCP server function.<br>DHCP Relay—Enable DHCP Relay function.<br>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 Hotspot 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 Hotspot Gateway provides an extra Email server parameter to forward the subscriber's Email. The Wireless Hotspot 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  |   |                          |                      |   |   |                          |   |                                       |  |
|---|---|--------------------------|----------------------|---|---|--------------------------|---|---------------------------------------|--|
| Authentication Type   | <p> <input checked="" type="radio"/> <b>No Authentication</b><br/> <input type="radio"/> <b>Built-in Authentication</b><br/> <input type="radio"/> <b>User Agreement</b> </p> <p> <input type="radio"/> Redirect URL Link <input type="text"/> <a href="#">Code</a><br/> <input checked="" type="radio"/> Standard User Agreement Page         </p> <p> <input type="radio"/> <b>WIFICOM</b> <small>(only for RADIUS authentication)</small> </p> <table border="1"> <tr> <td>Redirect Login Page URL:</td> <td><input type="text"/></td> </tr> <tr> <td> <input type="checkbox"/> Behind NAT <small>(In case the device is installed behind NAT)</small> </td> <td>           NAS IP <input type="text"/><br/>           SSL Port <input type="text"/> 443<br/>           Virtual SSL port <input type="text"/> 0         </td> </tr> </table> <p> <input type="radio"/> <b>Wandering Wi-Fi</b> <small>(only for RADIUS authentication)</small> </p> <table border="1"> <tr> <td>Redirect Login Page URL:</td> <td><input type="text"/> <a href="#">Code</a></td> </tr> <tr> <td>Policy when Radius Server unreachable</td> <td> <input checked="" type="radio"/> Default deny<br/> <input type="radio"/> Allow access<br/> <input type="radio"/> Deny access         </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"/><br>SSL Port <input type="text"/> 443<br>Virtual SSL port <input type="text"/> 0 | Redirect Login Page URL: | <input type="text"/> <a href="#">Code</a> | Policy when Radius Server unreachable | <input checked="" type="radio"/> Default deny<br><input type="radio"/> Allow access<br><input type="radio"/> Deny access |
| 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"/><br>SSL Port <input type="text"/> 443<br>Virtual SSL port <input type="text"/> 0   |                          |                      |   |   |                          |   |                                       |  |
| Redirect Login Page URL:  | <input type="text"/> <a href="#">Code</a>   |                          |                      |   |   |                          |   |                                       |  |
| Policy when Radius Server unreachable   | <input checked="" type="radio"/> Default deny<br><input type="radio"/> Allow access<br><input type="radio"/> Deny access  |                          |                      |   |   |                          |   |                                       |  |
| Current User Information Backup   | <input type="text"/> 1 Min(s) (1 - 1440)  |                          |                      |   |   |                          |   |                                       |  |
| SSL Login Page  | <input checked="" type="radio"/> <b>Disable</b><br><input type="radio"/> <b>Enable</b>  |                          |                      |   |   |                          |   |                                       |  |
| User Idle Time Out  | <input type="text"/> 5 Min(s) (1 - 1440)<br><small>(Not function on "Time to Finish" billing mode)</small>  |                          |                      |   |   |                          |   |                                       |  |
| <div>Apply</div>  |   |                          |                      |   |   |                          |   |                                       |  |

*Figure 3-43 Authentication Setting Screen*

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

| Item                            | Default   | Description  |
|---------------------------------|---|--|
| Authentication Type             | No Authentication   | <p><b>Built-in Authentication—</b><br/>Wireless Hotspot 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 Hotspot Gateway, and the system will authenticate the subscriber login according to the generated account.</p> <p><b>User Agreement—</b><br/>Subscriber must accept the service usage agreement before they can access the Internet.</p> <p><b>WIFICOM—</b><br/>Wireless Hotspot 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><br/>Wireless Hotspot 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<br><b>Code</b>             | Copy and paste the following HTML Code into your home page to produce redirect subscriber login page. |  |

Copy and paste the following HTML Code into your home page to produce user agreement login page.

Redirect Page Sample Code

```
<html>
<body>
<center>
<table width="100%" border="0">
<tr>
<td align="right" width="45%">
<form method="post" action="http://1.1.1.1/agree.cgi" name="agree">
<input type="submit" name="agree" value="Agree">
</form>
</td>
<td width="10%">&nbsp;  </td>
<td width="45%">
<form method="post" action="http://1.1.1.1/disagree.cgi" name="disagree">
<input type="submit" name="disagree" value="Do not agree">
</form>
</td>
</tr>
</table>
</center>
</body>
</html>
```

Close

Figure 3-44 Preview Redirect Login Page Code

| Item               | Default   | Description                                     |
|--------------------|-----------|---|
| SSL Login Page     | Disable   | Enables or disables SSL security of login page. |
| User Idle Time Out | 5 Minutes | The user idle time out valid range is 1-1440.   |

Apply

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

### 3-2-5 RADIUS Authentication

**RADIUS**

☒ **Disable**  
☐ **Enable**

☒ **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.

|                              |                     |                                   |
|------------------------------|---------------------|-----------------------------------|
| <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

Retry Frequency  seconds(3~75)

**Accounting Service**

☐ Disable  
☒ Enable  
Interim Update Time:  Min(s)

**Authentication Method**

**WISPr Smart Client**

☐ **Enable**

**Login Mode**

☒ Directly Reply  
☐ Proxy Reply with "Redirect Login Page" URL  
☐ Proxy Reply with Specific URL

Apply

Figure 3-45 Authentication Setting Screen

| Item                             | Default | Description   |
|----------------------------------|---------|---|
| RADIUS Authentication            | Disable | Option: No Authentication or RADIUS Server.<br><b>Disable (No Authentication) —</b><br>Subscriber can direct access the Internet without enter username and password.<br><b>Enable (RADIUS Authentication) —</b><br>Wireless Hotspot 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/<br>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<br>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 to be terminated with the optional keypad.

**Billing Profile**  
Currency: \$ ( Number of decimals places: 2 )  
☐ Tax Percentage: 5 %

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

Apply

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.

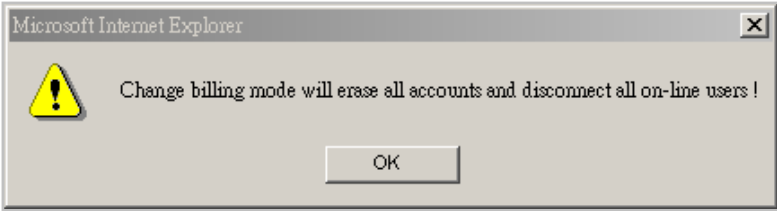


Figure 3-47 Message Box

| 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)<br><input type="checkbox"/> Username and Password<br><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

Apply

Figure 3-48 Credit Service Setting Screen

Error !!

Please Set Credit Card Setting First !

back

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. |

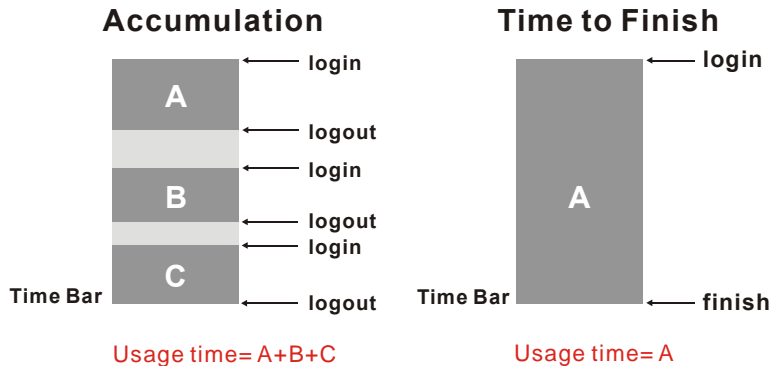


Figure 3-50 Accumulation and Time to Finish

| 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. |

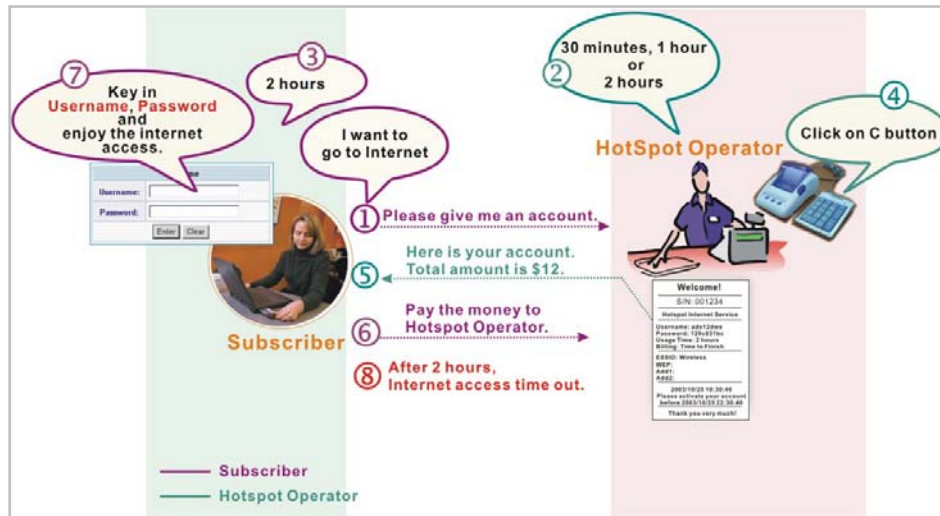


Figure 3-51 Pre-paid Procedure Diagram

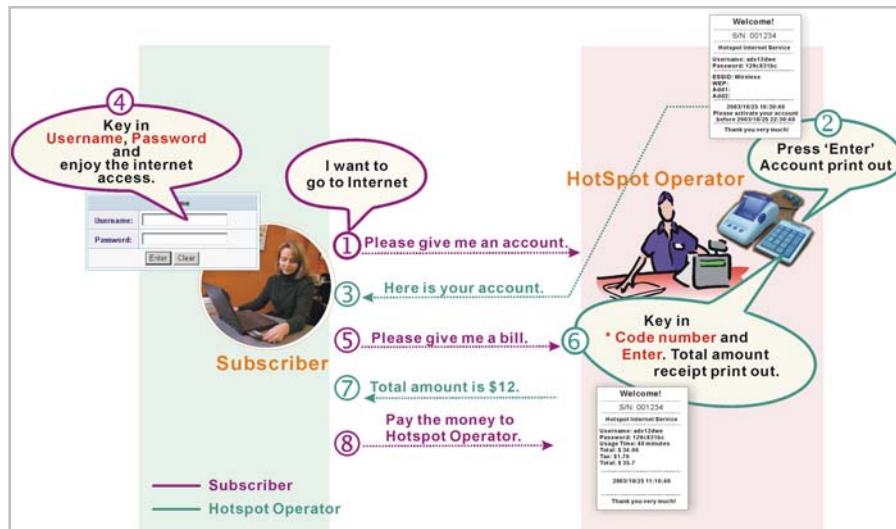


Figure 3-52 Post-paid Procedure Diagram



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.

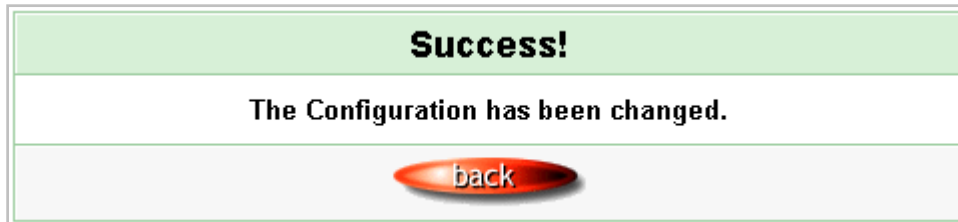


Figure 3-53 Success Dialog Box

### 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)<br>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" value=""/> |
| 3     | when > =   | <input type="text" value="0"/> | <input type="text" value=""/> |
| 4     | when > =   | <input type="text" value="0"/> | <input type="text" value=""/> |
| 5     | when > =   | <input type="text" value="0"/> | <input type="text" value=""/> |
| 6     | when > =   | <input type="text" value="0"/> | <input type="text" value=""/> |
| 7     | when > =   | <input type="text" value="0"/> | <input type="text" value=""/> |
| 8     | when > =   | <input type="text" value="0"/> | <input type="text" value=""/> |
| 9     | when > =   | <input type="text" value="0"/> | <input type="text" value=""/> |
| 10    | when > =   | <input type="text" value="0"/> | <input type="text" value=""/> |

Apply

Figure 3-54 Accounting Setting Screen

|            |  |
|------------|--|
| Expiration | Un-used account will be deleted after <input type="text" value="12"/> hours <input type="button" value="v"/> automatically. (1~30)<br>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  |

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.   |



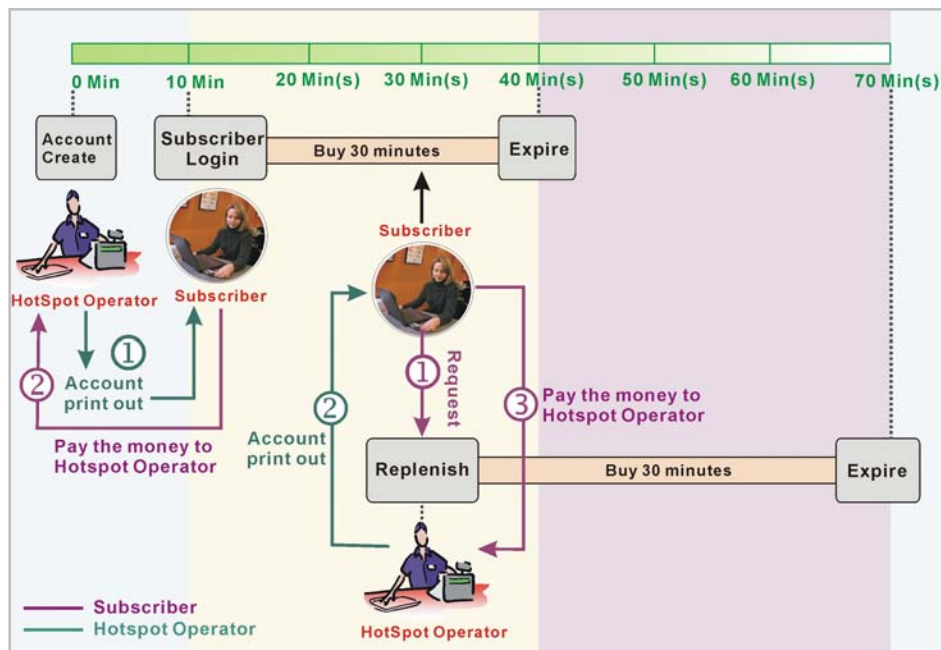


Figure 3-56 Account Process Diagram

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  | (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   | Button A  for Discount Price Plan based on "Button Presses": <input type="button" value="Disable"/> (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,<br>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.

### Account Generator Panel

Please choose one button from the following selections

30 minutes
1 hour
2 hours

[View Account List](#)

Figure 3-58 Account Generator Panel

Welcome!

---

Hotspot Internet Service

---

Username:cxpkqb42  
Password:ym82mq93  
Billing: Time to Finish  
Service: 30 minutes  
Unit: 1  
Usage Time: 0:30:00  
Total \$1.00

---

ESSID: Wireless

---

2004/11/26 15:55:42  
S/N:000004  
Please start your account before  
2004/11/27 03:55:42  
Thank you very much !

Close
Print

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

| Welcome!  |                     |
|---|---------------------|
| Hotspot Internet Service  |                     |
| 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 3-64 Web-based Account Generator Printout (Accumulation)

|            |  |
|------------|--|
| Expiration | Un-used account will be deleted after <input type="text" value="12"/> hours automatically<br>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 !



| Welcome!  |   |
|---|---|
| Hotspot Internet Service  |   |
| 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   |
| Please activate your account before 2004/11/29 22:09:34                           |   |
| Please finish your usage time within 3 months after your first login              |   |
| <b>Thank you very much !</b>  |   |
|  |  |

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... ☒ Account Generator Printer ☐ PC-Connected Printer

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

Figure 3-63 Example 1

Amount: 7 x \$2.00= \$14.00

Welcome!

---

Hotspot Internet Service

---

Username: 27i28n32  
Password: 5a789i35  
Billing: Time to Finish  
Service: 1 hour  
Unit: 7  
Usage Time: 07:00:00  
Total: \$14.00

---

ESSID: Wireless

2004/11/29 10:34:58  
S/N:000011  
Please activate your  
account before  
2004/11/29 22:34:58

---

Thank you very much!

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.

|  |
|--|
| Welcome!   |
| -----  |
| Hotspot Internet Service   |
| -----  |
| Username: 2ds5ke24<br>Password: 8e3zte33<br>Billing: Time to Finish<br>Service: 1 hour<br>Unit: 7<br>Usage Time: 07:00:00<br>Total: \$7.00 |
| -----  |
| ESSID: Wireless  |
| <br>2004/11/29 10:45:14<br>S/N:000012<br>Please activate your<br>account before<br>2004/11/29 22:45:14                                     |
| -----  |
| Thank you very much!   |

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.

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

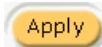
*Figure 3-68 Account Printout*

● 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.                    |



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.

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



3-2-8 Credit Card

Wireless Hotspot 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

Authorize.net

Version

3.1

Merchant ID

Merchant Password

☐ Need Password:

Merchant Transaction Key

Payment Gateway

https://secure.authorize.net/gateway/transact.dll

☐ Email Additional Information

☐ Merchant Name: 

(max. 40 characters)

☐ Username and Password

☐ Usage Time

iValidate.net

Merchant ID

Terminal ID

Secure Server Address

https://www.vious.net/merchant/processcc.asp

Secure Pay

Merchant ID

(max. 7 characters)

SecurePay Address

https://www.securepay.com.au/securepay/payments/proc

PayPal

Business

(max. 127 characters)

Currency Code

U.S. Dollar

Identity Token


(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


☒ 

☐ 

☐ 

☐ 

☐ 

☐ 

☐ BankCard

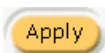
Apply

Figure 3-71 Credit Card Setting Screen

| Item              | Default   | Description  |
|-------------------|---|--|
| Authorize.net     |   |  |
| 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. |  |

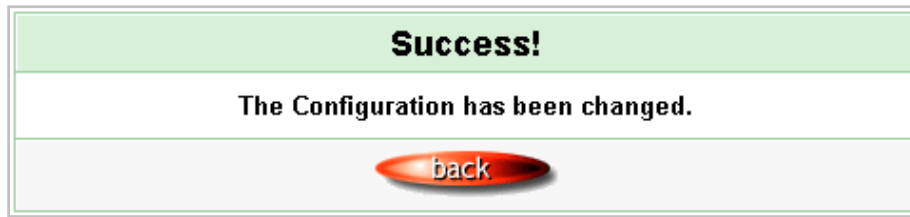
| Item                                 | Default   | Description   |
|--------------------------------------|---|---|
| Need                                 | Disable   | If your Merchant Provider need password to authorize, click the check box to enable this function.  |
| Password                             | 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.



*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 screenshot shows a web interface for 'Hot Spot Internet Service'. At the top is a green header with the word 'Welcome'. Below it is a section titled 'Hot Spot Internet Service' containing a login form with 'Username:' and 'Password:' labels and corresponding input fields. Below the form are 'Enter' and 'Cancel' buttons. To the right of these buttons is the text 'Select Credit Card Service' in red. Below the 'Enter' button is a blue link that says 'or Click here to pay by credit card', which is enclosed in a red rounded rectangle. To the right of this link is a yellow button labeled 'Click' with a red arrow pointing to the link. Below the link is a Visa logo, and to its right is another yellow button labeled 'Click' with a red arrow pointing to the logo.

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 | 1.00   |
| <input type="radio"/>            | 2            | 1 hours    | 2.00   |
| <input type="radio"/>            | 3            | 2 hours    | 3.00   |

**How many units of Internet access would you like to purchase?** 1 ▼

\*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 3-74 Service & Payment Information Setting Screen (Authorize.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 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)

Credit card number:

Credit card expiration date:

(MMYY)

Enter Email Address

Billing Address ZIP code

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.

Welcome

Hot Spot Internet Service

You may now use the Internet !

**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.**

This is your account information, please keep this for your Internet Service.

Your username is **u92tf237**

Your password is **vk544d77**

Your usage time is **00:30:00**

Please activate your account before **2004/08/10 10:30:28**

Email this webpage to myself    Use this account to LOGIN now

Figure 3-76 User Account Information

Welcome

Hot Spot Internet Service

**Credit Card Number Fail**

**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!**

Try Again    Close

Welcome

Hot Spot Internet Service

**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!**

Try Again    Close

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 minutes

☒ Charge by levels

| Level | Conditions | Time Range | Unit Price |
|-------|------------|------------|------------|
| 1     | when > =   | 1          | 1.00       |
| 2     | when > =   | 0          |            |
| 3     | when > =   | 0          |            |
| 4     | when > =   | 0          |            |
| 5     | when > =   | 0          |            |
| 6     | when > =   | 0          |            |
| 7     | when > =   | 0          |            |
| 8     | when > =   | 0          |            |
| 9     | when > =   | 0          |            |
| 10    | when > =   | 0          |            |

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 to 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.

+

1

Enter

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!

+

2

Enter

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 to 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          | 2.00       |
| 2     | when > =   | 5          | 0.80       |
| 3     | when > =   | 10         | 0.70       |
| 4     | when > =   | 15         | 0.60       |
| 5     | when > =   | 20         | 0.50       |
| 6     | when > =   | 301        | 0.40       |
| 7     | when > =   | 601        | 0.30       |
| 8     | when > =   | 1440       | 0.20       |
| 9     | when > =   | 2880       | 0.10       |
| 10    | when > =   | 3000       | 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.

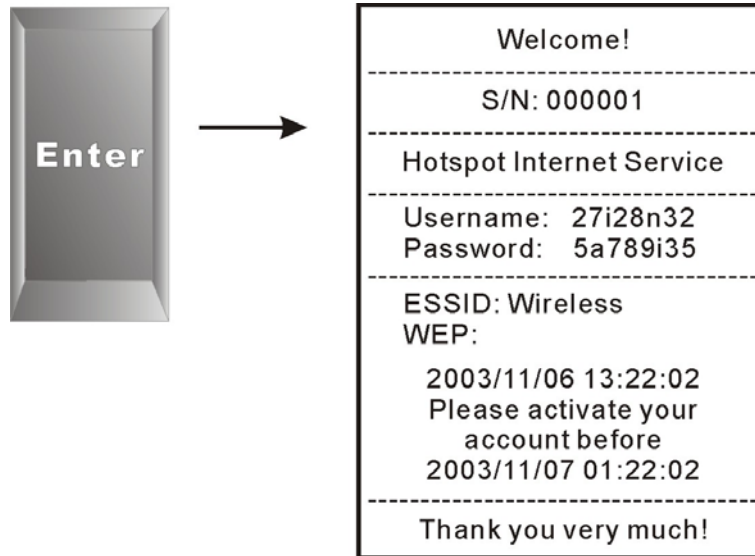


Figure 3-84

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

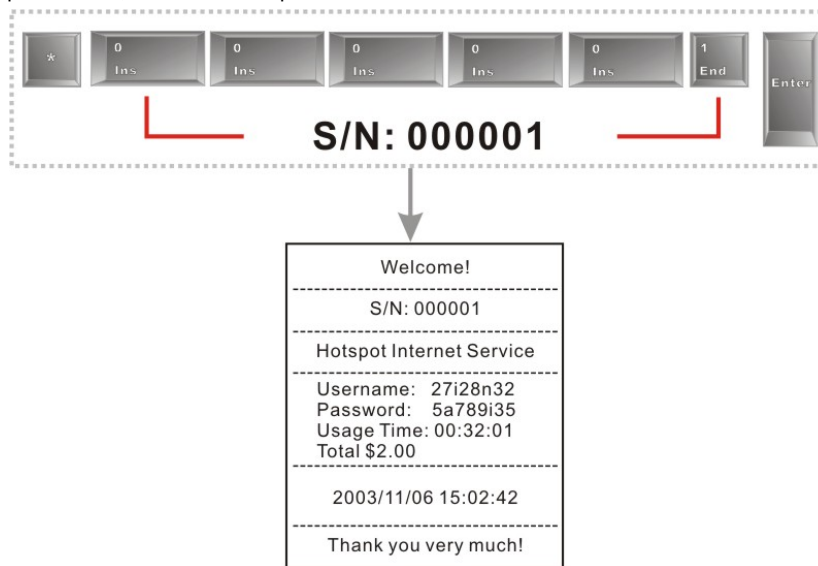


Figure 3-85

| 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                     |                      |
|---------------------------------|----------------------|
| 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>     |

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             |           |   |    |       |
| Press <b>ABCBB</b>  |           |   |    |       |
| 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---           |           |   |    |       |

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

Figure 3-90 Network Report Printout

3-2-10 Customization

● Login Page

The Wireless Hotspot 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

Login Page

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

☐ Logo

Title

Welcome (Max. 80 characters)

Subtitle

Hot Spot Internet Service (Max. 80 characters)

Username

Username (Max. 20 characters)

Password

Password (Max. 20 characters)

Enter Button

Enter (Max. 20 characters)

Cancel Button

Cancel (Max. 20 characters)

☐ Footnote

Please contact us if you have any question (Max. 240 characters)

☒ Copyright

Copyright (c) 2004-2015 All Rights Reserved (Max. 80 characters)

Background Color

FFFFFF [View Color Grid](#)

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 "Please 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.                 |

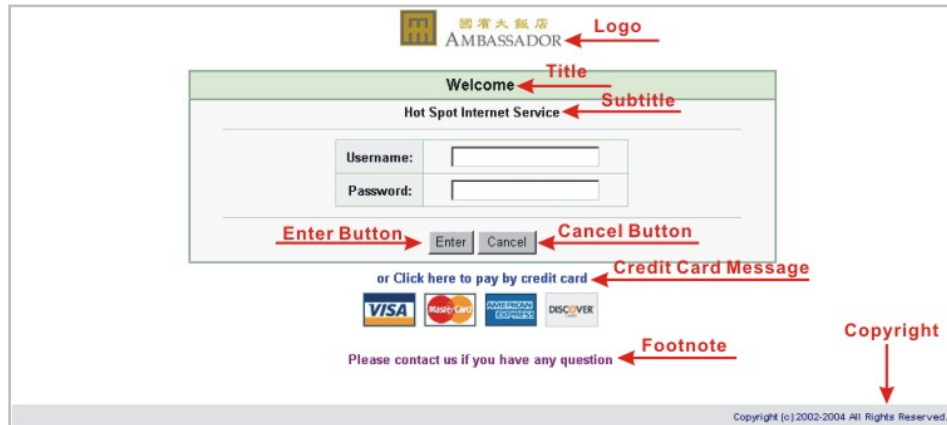


Figure 3-92 Login Page Screen

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="#d7f0d7" 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;/table&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 Hotspot Gateway.

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





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.   |

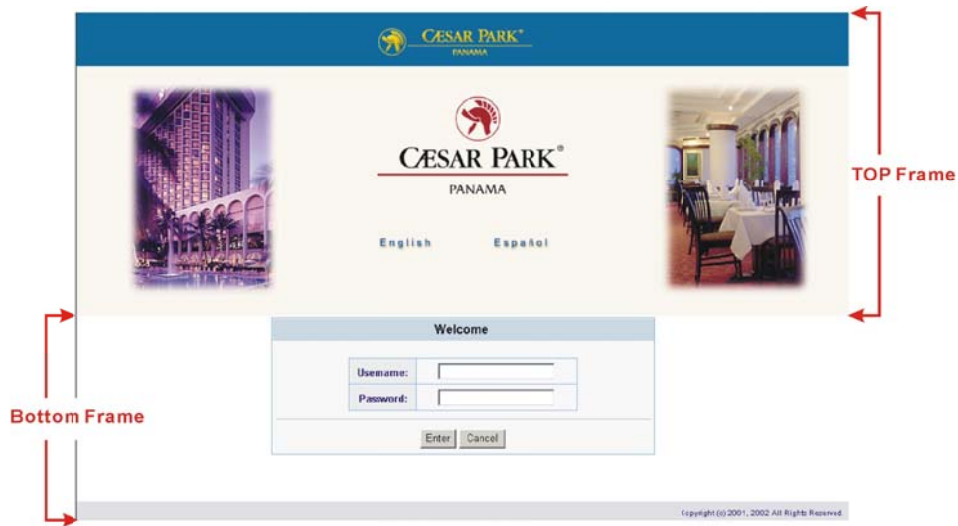


Figure 3-99 Example-Login Page Screen

#### ● 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  | 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="Browse.."/> <input type="button" value="Apply"/>  |      |                    |                  |             |                     |
| 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 | <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




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 | Information Window   | 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. |      |  |                  |             |                     |
| <input checked="" type="checkbox"/> Display Information Window once after a subscriber logs in successfully  |      |  |                  |             |                     |
| Information Window Type  |      | <input type="radio"/> Redirect<br><input checked="" type="radio"/> Pop up <input checked="" type="checkbox"/> Allow to close the pop up window   |                  |             |                     |
| <b>Information Window Contents</b>   |      |  |                  |             |                     |
| Window Name  |      | Information Window (Max. 30 character)   |                  |             |                     |
| Main message   |      | You can use Internet now! (Max. 30 character)  |                  |             |                     |
| Message Description  |      | This is an information window to sho (Max. 150 character)  |                  |             |                     |
| Time count label   |      | Standard for pre-defined usage time<br><input type="text"/> Remaining Usage (Max. 30 character)<br><input type="text"/> Post-Paid Billing<br><input type="text"/> Connecting Usage (Max. 30 character)                             |                  |             |                     |
| <input type="checkbox"/> Warning/Alarm message   |      | <input type="text"/> If you don't want to continue using In (Max. 150 character)   |                  |             |                     |
| <input type="checkbox"/> Notice Message  |      | Notice Text 1<br><input type="text"/> Notice! (Max. 150 character)<br>Notice Text 2<br><input type="text"/> If you are going to use VPN connect (Max. 150 character)<br>Notice Text 3<br><input type="text"/> (Max. 150 character) |                  |             |                     |
|  <a href="#">Preview</a>  |      |  |                  |             |                     |
| <input type="button" value="Apply"/>   |      |  |                  |             |                     |

Figure 3-103 Example-Login Page Screen



Figure 3-104 Example-Login Page Screen

| Information Window  |
|---|
| <p><b>You can use Internet now!</b></p> <p>This is an information window to show the usage and notice. You can type http://1.1.1.1/info to open this window again without VPN connection.</p> |
| <p><b>Remaining Usage</b> <span>hh:mm:ss</span></p>   |
| <p>If you don't want to continue using Internet, please remember to logout. Just click the 'Logout' button.</p>   |
| <p><b>Notice!</b></p> <p>If you are going to use VPN connection now, please close the message window before you run VPN connection.</p>   |

Figure 3-105 Information Window

Billing Type=Time to Finish

Can be replenished by subscriber=Disable

| Information Window  |
|---|
| <p><b>You can use Internet now!</b></p> <p>This is an information window to show the usage and notice. You can type http://1.1.1.1/info to open this window again without VPN connection.</p> |
| <p><b>Remaining Usage</b> <span>hh:mm:ss</span></p>   |
| <p>If you don't want to continue using Internet, please remember to logout. Just click the 'Logout' button.</p>   |
| <p><b>Notice!</b></p> <p>If you are going to use VPN connection now, please close the message window before you run VPN connection.</p>   |
| <p><b>Replenish</b></p>   |

Figure 3-106 Information Window

Billing Type=Time to Finish

Can be replenished by subscriber=Enable

| Information Window  |
|---|
| <p><b>You can use Internet now!</b></p> <p>This is an information window to show the usage and notice. You can type http://1.1.1.1/info to open this window again without VPN connection.</p> |
| <p><b>Remaining Usage</b> <span>hh:mm:ss</span></p>   |
| <p>If you don't want to continue using Internet, please remember to logout. Just click the 'Logout' button.</p>   |
| <p><b>Notice!</b></p> <p>If you are going to use VPN connection now, please close the message window before you run VPN connection.</p>   |
| <p><b>Logout</b></p>  |

Figure 3-107 Information Window

Billing Type=Accumulation

Can be replenished by subscriber=Disable

| Information Window  |
|---|
| <p><b>You can use Internet now!</b></p> <p>This is an information window to show the usage and notice. You can type http://1.1.1.1/info to open this window again without VPN connection.</p> |
| <p><b>Remaining Usage</b> <span>hh:mm:ss</span></p>   |
| <p>If you don't want to continue using Internet, please remember to logout. Just click the 'Logout' button.</p>   |
| <p><b>Notice!</b></p> <p>If you are going to use VPN connection now, please close the message window before you run VPN connection.</p>   |
| <p><b>Replenish</b> <span style="float: right;"><b>Logout</b></span></p>  |

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")

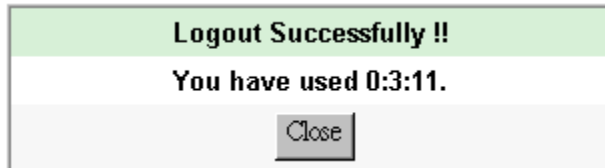


Figure 3-110 Logout Successfully Dialog Box  
Billing Type=Accumulation

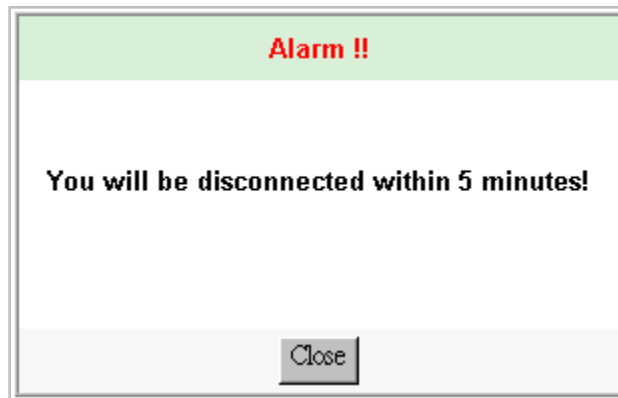


Figure 3-111 Alarm Dialog Box1

● 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)<br>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)<br>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:   | <input type="text" value="Please activate your account before"/> (Max.=24x3)<br>Format: <input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/> (HH:24h hh:12h tt:AM/PM)<br><input type="text" value="Please finish your usage time within 3 months after your first login"/> (Max.=24x4)<br>Accumulation: <input type="text" value="login"/> (Max.=24x4) |
| <input checked="" type="checkbox"/> Ending:  | <input type="text" value="Thank you very much !"/> (Max.=24x10)   |
| <div><a href="#">Preview of PC-connected printer</a><br/><a href="#">Preview of account generator printer</a><br/><a href="#">Preview of Post-Paid Printout</a></div> <div>Apply</div> |   |

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.

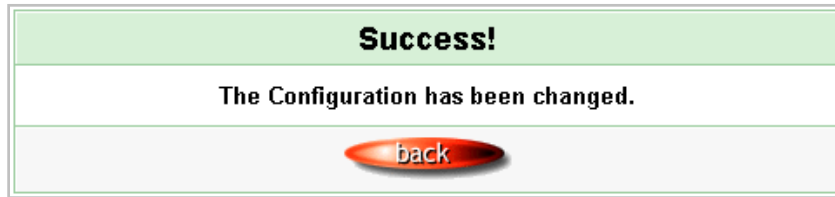


Figure 3-113 Success Dialog Box

| Welcome!  |                                      |
|---|--------------------------------------|
| Hotspot Internet Service                                |                                      |
| 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  | 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

Welcome!

---

Hotspot Internet Service

---

Username:xxxxxxxx

Password:xxxxxxxx

Billing: Time to Finish

Service: 30 minutes

Unit: 1

Usage Time: 0:30:00

Total \$1.00

---

ESSID: Wireless

---

2004/11/29 14:35:27

S/N:000001

Please activate your account before

2004/11/30 02:35:27

Thank you very much !

Figure 3-115 Account Generator Printer Printout

## Example Preview

### 1.Create accounts

**Welcome!**

---

S/N:001234

---

Hotspot Internet Service

---

Username:xxxxxxxx

Password:xxxxxxxx

---

ESSID: Wireless

WEP:

---

2002/4/14 03:14:31

Please start your account before

2002/4/14 15:14:31

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

---

2002/4/14 03:14:31

---

Thank you very much !

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> |   |
|   | Credit Card Message   | <div>or Click here to pay by credit card</div> <div>(Max:80 characters)</div> |
| <div> <a href="#">Preview of Standard Login Page</a></div> |   |   |

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/>  |                          |
| <div>Enter Cancel</div>  |                          |
| <hr/>  |                          |
| <div>or Click here to pay by credit card</div>   |                          |
| <div>   </div> |                          |
| <div>Please contact us if you have any question</div>  |                          |

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

|   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>▶ SYSTEM</li> <li>▶ WAN / LAN</li> <li>▶ SERVER</li> <li>▶ AUTHENTICATION</li> <li>▶ RADIUS</li> <li>▶ <b>BILLING</b></li> <li>▶ ACCOUNTING</li> <li>▶ CREDIT CARD</li> <li>▶ KEYPAD</li> <li>▶ CUSTOMIZATION</li> <li>▶ PASS THROUGH</li> <li>▶ FILTERING</li> <li>▶ SHARE</li> <li>▶ PORTAL PAGE</li> <li>▶ ADVERTISEMENT</li> <li>▶ WALLED GARDEN</li> <li>▶ DDNS</li> <li>▶ LAN DEVICES</li> <li>▶ SYSLOG</li> <li>▶ WIRELESS</li> </ul> | <b>BILLING</b>  |   |
|   | <input checked="" type="radio"/> <b>Pre-Paid</b><br>The subscribers can access Internet with pre-defined usage time.  |   |
|   | <input type="checkbox"/> <b>Enable Credit Card Service</b>  |   |
|   | <input 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 checked="" 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.                                       |
|   | <input type="radio"/> <b>Post-Paid</b> (Only for keypad application)<br>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"/><br>(Max. 80 characters)                          |
| Purchase Unit Message  | <input type="text" value="How many units of Internet access would you like to"/><br>(Max. 80 characters)                         |
| Notification Message 1   | <input type="text" value="*Please kindly note that there will be no refund once"/><br>(Max. 160 characters)                      |
| Notification Message 2   | <input type="text" value="*Please note that the time block of selected service"/><br>(Max. 160 characters)                       |
| Notification Message 3   | <input type="text"/><br>(Max. 160 characters)  |
| Enter Payment Information  | <input type="text" value="Enter Payment Information (all info is required)"/><br>(Max. 160 characters)                           |
| Enter Credit Card Number   | <input type="text" value="Credit card number:"/><br>(Max. 80 characters)   |
| Enter Credit Card expiration date  | <input type="text" value="Credit card expiration date:"/><br>(Max. 80 characters)  |
| <input type="checkbox"/> Card Verification Value   | <input type="text" value="Credit Card Code:"/><br>(Max. 40 characters)   |
| Enter Email Address  | <input type="text" value="Enter Email Address"/><br>(Max. 80 characters)   |
| Submit Button  | <input type="text" value="Submit Transaction and Login"/><br>(Max. 40 characters)  |
| <b>Additional Customer Data</b><br>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:"/><br>(Max. 40 characters)  |
| <input checked="" type="checkbox"/> First/Last Name  | <input type="text" value="First Name:"/><br>(Max. 20 characters) <input type="text" value="Last Name:"/><br>(Max. 20 characters) |
| <input type="checkbox"/> Company   | <input type="text" value="Company:"/><br>(Max. 40 characters)  |
| <input checked="" type="checkbox"/> Address  | <input type="text"/>   |
| <input checked="" type="checkbox"/> City   | <input type="text" value="City:"/><br>(Max. 40 characters)   |
| <input checked="" type="checkbox"/> State/Province   | <input type="text" value="State/Province:"/><br>(Max. 40 characters)   |
| <input checked="" type="checkbox"/> ZIP/Postal Code  | <input type="text" value="ZIP/Postal Code:"/><br>(Max. 40 characters)  |
| <input checked="" type="checkbox"/> Country  | <input type="text" value="Country:"/><br>(Max. 40 characters)  |
| <input checked="" type="checkbox"/> Phone  | <input type="text" value="Phone:"/><br>(Max. 40 characters)  |
| <input type="checkbox"/> Fax   | <input type="text" value="Fax:"/><br>(Max. 40 characters)  |

[Preview of Service Selection Page](#)

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

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

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

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

\*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?** 1 ▼

\*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? 1

\*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:

Enter Email Address

Submit Transaction and Login

Figure 3-125 Service Selection Page (SecurePay)

## Successful Page


|   |  |  |
|---|--|--|
| Successful Page   | Customize the message for the successful page                                      |  |
|   | Successful Message   | <input type="text" value="You may now use the Internet !"/><br>(Max. 80 characters)  |
|   | Notification Message 1   | <input type="text" value="IMPORTANT! Make a note of your username and password for lo"/><br>(Max. 160 characters)  |
|   | Notification Message 2   | <input type="text"/><br>(Max. 160 characters)  |
|   | Account Information  | <input type="text" value="This is your account information, please keep this for your Internet s"/><br>(Max. 160 characters)   |
|   | Username   | <input type="text" value="Your username is"/><br>(Max. 80 characters)  |
|   | Password   | <input type="text" value="Your password is"/><br>(Max. 80 characters)  |
|   | Usage Time   | <input type="text" value="Your usage time is"/><br>(Max. 80 characters)  |
|   | Expiration Time  | <input type="text" value="Please activate your account before"/><br>(Max. 80 characters)<br><b>Format:</b> <input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/><br>( HH:24h hh:12h tt:AM/PM ) |
| Submit Button   | <input type="text" value="Use this account to LOGIN now"/><br>(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."/><br>(Max. 160 characters)                 |
| Notification Message 2 | <input type="text" value="Please use your backspace button and try again with a different credi"/><br>(Max. 160 characters) |
| Notification Message 3 | <input type="text" value="Thank you!"/><br>(Max. 160 characters)  |
| Try Again Button       | <input type="text" value="Try Again"/><br>(Max. 40 characters)  |
| Close Button           | <input type="text" value="Close"/><br>(Max. 40 characters)  |


 [Preview of Fail Page](#)

Figure 3-128 Fail Page Setting Screen



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

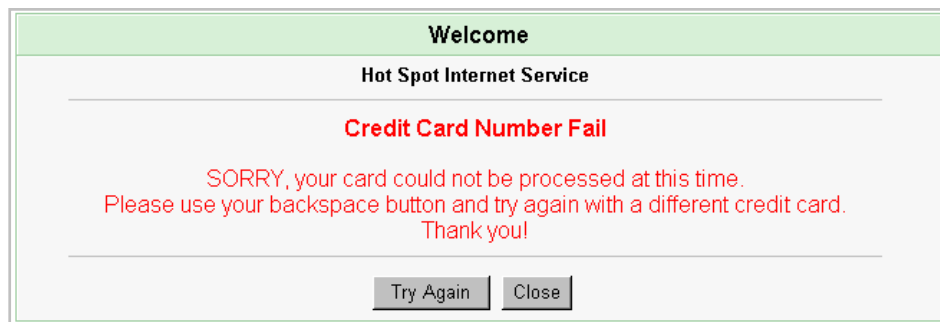


Figure 3-129 Fail Page

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

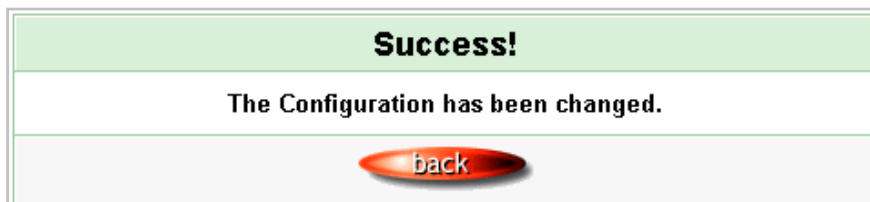


Figure 3-130 Success Dialog Box

● **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  |      | <div>User Agreement Page</div> <div>(Max. 100 characters)</div> |                  |             |                            |
| Title Text Color   |      | <div>000000</div> <a href="#">View Color Grid</a>               |                  |             |                            |
| Article  |      | <div></div> <div>(Max. 5000 characters)</div>                   |                  |             |                            |
| Article Text Color   |      | <div>000000</div> <a href="#">View Color Grid</a>               |                  |             |                            |
| Article Background Color   |      | <div>FFFFFF</div> <a href="#">View Color Grid</a>               |                  |             |                            |
| Page Background Color  |      | <div>FFFFFF</div> <a href="#">View Color Grid</a>               |                  |             |                            |
| Agree Button   |      | <div>Agree</div> (Max. 50 characters)                           |                  |             |                            |
| Disagree Button  |      | <div>Do not agree</div> (Max. 50 characters)                    |                  |             |                            |
| <div> <a href="#">Standard User Agreement Page Preview</a></div> |      |   |                  |             |                            |
| <div>Apply</div>   |      |   |                  |             |                            |

Figure 3-131 User Agreement Page Setting Screen

**User Agreement Page**

Agree

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 Hotspot Gateway system. Because some network devices might be constructed under the Wireless Hotspot Gateway. However these devices needn't be checked and authorized. The Wireless Hotspot 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> |        |              |      |        |
| <span>Apply</span>      |        |              |      |        |

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"/> <input type="button" value="v"/> |   |   |
| 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 Hotspot 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".

127



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**

This Web Site is blocked by System

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

☒ URL or Website:

☐ Start / End IP Address:

~

☐ IP Address:

Subnet Mask:

Add to List

**Restricted Destination List**

| No. | Active | Address List | Delete |
|-----|--------|--------------|--------|
|     |        |              |        |

Delete All

Apply

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

Back

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"/> | <div>Wired</div> |

Add to List

Share Resource List

| No.                   | Active | Resource Name | IP Address | MAC address | Interface | Delete |
|-----------------------|--------|---------------|------------|-------------|-----------|--------|
| <div>Delete All</div> |        |               |            |             |           |        |

Apply

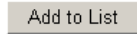
Figure 3-136 Share Device Setting Screen


| 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 'Delete' 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"/> |
|----------|----------------------|

Apply

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.

**Success!**

The Configuration has been changed.

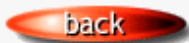


Figure 3-138 Success Dialog Box

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.

Frequency

☒ One Time Only

☐ Every  Min(s)

Sequence

☒ Randomly

☐ Orderly (From 1 to 10)

URL Link 1

URL Link 2

URL Link 3

URL Link 4

URL Link 5

URL Link 6

URL Link 7

URL Link 8

URL Link 9

URL Link 10

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.<br>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.<br>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 Hotspot Gateway system. The input format can be "http://www.yahoo.com". The maximum character of the URL Link # is 200. |

Apply

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.

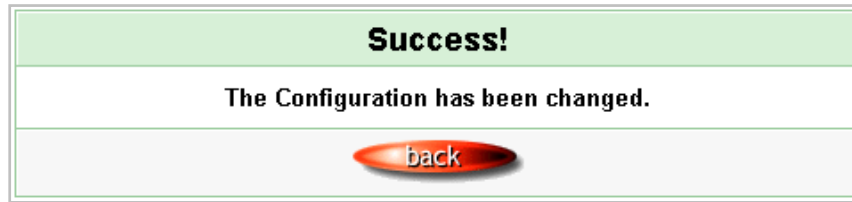


Figure 3-140 Success Dialog Box

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



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.

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 Hotspot Gateway a new IP, the Wireless Hotspot 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"/>   | <div><b>Status: N/A</b></div> <table border="1"><tr><td>Service Provider</td><td>dyndns.org (www.dyndns.org) ▼</td></tr><tr><td>Registered Host Name</td><td><input type="text"/><br/><small>(for example: xyz.dyndns.org)</small></td></tr><tr><td>Login Name</td><td><input type="text"/> (max. 23 characters)</td></tr><tr><td>Password</td><td><input type="password"/> (max. 23 characters)</td></tr><tr><td>Email Address</td><td><input type="text"/> (optional)</td></tr></table> <div><input type="checkbox"/> Wildcards (optional)</div> | Service Provider | dyndns.org (www.dyndns.org) ▼ | Registered Host Name | <input type="text"/><br><small>(for example: xyz.dyndns.org)</small> | Login Name | <input type="text"/> (max. 23 characters) | Password | <input type="password"/> (max. 23 characters) | Email Address | <input type="text"/> (optional) |
| Service Provider  | dyndns.org (www.dyndns.org) ▼  |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Registered Host Name  | <input type="text"/><br><small>(for example: xyz.dyndns.org)</small> |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Login Name  | <input type="text"/> (max. 23 characters)                            |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Password  | <input type="password"/> (max. 23 characters)                        |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Email Address   | <input type="text"/> (optional)                                      |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| 02  | <input type="checkbox"/>   | <div><b>Status: N/A</b></div> <table border="1"><tr><td>Service Provider</td><td>dyndns.org (www.dyndns.org) ▼</td></tr><tr><td>Registered Host Name</td><td><input type="text"/><br/><small>(for example: xyz.dyndns.org)</small></td></tr><tr><td>Login Name</td><td><input type="text"/> (max. 23 characters)</td></tr><tr><td>Password</td><td><input type="password"/> (max. 23 characters)</td></tr><tr><td>Email Address</td><td><input type="text"/> (optional)</td></tr></table> <div><input type="checkbox"/> Wildcards (optional)</div> | Service Provider | dyndns.org (www.dyndns.org) ▼ | Registered Host Name | <input type="text"/><br><small>(for example: xyz.dyndns.org)</small> | Login Name | <input type="text"/> (max. 23 characters) | Password | <input type="password"/> (max. 23 characters) | Email Address | <input type="text"/> (optional) |
| Service Provider  | dyndns.org (www.dyndns.org) ▼  |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Registered Host Name  | <input type="text"/><br><small>(for example: xyz.dyndns.org)</small> |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Login Name  | <input type="text"/> (max. 23 characters)                            |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Password  | <input type="password"/> (max. 23 characters)                        |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Email Address   | <input type="text"/> (optional)                                      |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| 03  | <input type="checkbox"/>   | <div><b>Status: N/A</b></div> <table border="1"><tr><td>Service Provider</td><td>dyndns.org (www.dyndns.org) ▼</td></tr><tr><td>Registered Host Name</td><td><input type="text"/><br/><small>(for example: xyz.dyndns.org)</small></td></tr><tr><td>Login Name</td><td><input type="text"/> (max. 23 characters)</td></tr><tr><td>Password</td><td><input type="password"/> (max. 23 characters)</td></tr><tr><td>Email Address</td><td><input type="text"/> (optional)</td></tr></table> <div><input type="checkbox"/> Wildcards (optional)</div> | Service Provider | dyndns.org (www.dyndns.org) ▼ | Registered Host Name | <input type="text"/><br><small>(for example: xyz.dyndns.org)</small> | Login Name | <input type="text"/> (max. 23 characters) | Password | <input type="password"/> (max. 23 characters) | Email Address | <input type="text"/> (optional) |
| Service Provider  | dyndns.org (www.dyndns.org) ▼  |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Registered Host Name  | <input type="text"/><br><small>(for example: xyz.dyndns.org)</small> |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Login Name  | <input type="text"/> (max. 23 characters)                            |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Password  | <input type="password"/> (max. 23 characters)                        |  |                  |                               |                      |  |            |   |          |   |               |                                 |
| Email Address   | <input type="text"/> (optional)                                      |  |                  |                               |                      |  |            |   |          |   |               |                                 |

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.   |
|  | Click the <b>Update Status Now</b> button to do manual update. |   |
| Settings  | Enter the account information of DDNS Server.                  |   |
| Status  | YY/MM/DD<br>HH:MM:SS:  | Display the update date, time and status. The Status area shows the update time and current state of the DDNS Client.<br>N/A—DDNS Client service not installed.<br>Update Successfully—DDNS Client service installed; service running.<br>Update Fail—DDNS Client service installed; service not running. |
| Service Provider  | Dyndns.org<br>(www.dyndns.org)                                 | Select a DDNS service provider by clicking in the list box.<br>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.

**Success!**

**The Configuration has been changed.**

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 Hotspot Gateway implemented the feature.

**LAN DEVICES**

Detecting time:  Min(s)

| No. | Device Name          | Virtual Port<br><small>(5900~5910)<br/>(60001~60050)</small> | Device<br>IP Address | Device<br>Server Port          | Device<br>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.   |

**Delete All**

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

**Apply**

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   |  |
| Send to Syslog Server                 | <input checked="" type="radio"/> Disable <input type="radio"/> Enable |  |  |
|                                       | <input type="checkbox"/> Syslog Server on LAN:                        | Server IP Address: <input type="text"/><br>Server MAC Address: <input type="text"/>  |  |
|                                       | <input type="checkbox"/> Syslog Server on WAN:                        | Server 1 IP Address: <input type="text"/><br>Server 2 IP Address: <input type="text"/>   |  |
|                                       |   |  |  |
| Send to Email                         | <input checked="" type="radio"/> Disable <input type="radio"/> Enable |  |  |
|                                       | Email Server:   | IP Address or Domain Name: <input type="text"/>  | SMTP Port: <input type="text" value="25"/> |
|                                       |   | <input type="checkbox"/> E-mail (SMTP) server needs to check my account<br>Username: <input type="text"/> Password: <input type="text"/> |  |
|                                       | Email From:   | Name: <input type="text"/>   |  |
|                                       |   | Email Address: <input type="text"/>  |  |
|                                       | Email To:   | Email Address 1: <input type="text"/>  |  |
| Email Address 2: <input type="text"/> |   |  |  |
| <div>Apply</div>                      |   |  |  |

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 Hotspot 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 Hotspot 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.  |



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.

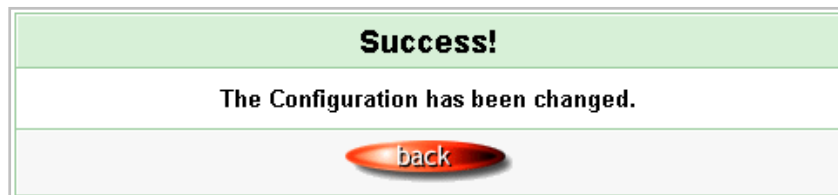


Figure 3-148 Success Dialog Box

● 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                               | <input type="text" value="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 | <input type="text" value="60"/> minute(s) |
| <input type="checkbox"/> | <input type="checkbox"/> | Logged-in Users                  | A login users information will be sent according to specified interval time                  | <input type="text" value="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 | <input type="text" value="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                          |

Apply

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><br/>           (Id, Mac Address) (System Uptime, 0 days 00h:04m:00s)<br/>           (Location Name, Location Name) (WAN, FrameTxOK, FrameRxOK, FrameTxError, FrameRxError) (LAN, FrameTxOK, FrameRxOK, FrameTxError, FrameRxError)<br/>           (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><br/>           (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><br/>           (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><br/>(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<br/>If the type of Logged-in user is Super Subscriber, Username will be "*****".<br/>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><br/>(Id, Mac Address) (Account Create, Type, S/N, Username, Unit, Account usage time, Billing profile information)</p> <p><b>Type:</b> TimeToFinish   Accumulation   PostPaid<br/><b>Billing profile information:</b> [index, name]<br/><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><br/>(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><br/>(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<br/><b>Event:</b> Finished   Replenished   Logout   Idle-Timeout   Account Expired   Deleted<br/>If the type of Subscriber Trace is Super, the Username will be "*****", and S/N will be "*****".<br/><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><br/>(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       | <p>A log including current LAN Devices Status will be sent according to specified interval time.</p> <p><b>Format:</b><br/>           (Id, MAC Address) (LAN Devices Information, Number of devices, Start Number, End number) (Device name, Status)(...)(...)</p> |
| LAN Devices Alarm                      | When device fail | <p>A log will be sent if one of the LAN Devices detected results is "Fail".</p> <p><b>Format:</b><br/>           (Id, MAC Address) (LAN Device Alarm, Device name, <b>FAIL</b>)</p>  |



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

Disable

Primary TFTP Server IP Address

Secondary TFTP Server IP Address

Send Session Trace log file every

10

minutes. (5~1440)

(Note: Session Trace log file will be sent also when collected 50 logs)

Apply

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: 

Disable

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

64Kbps

64

Kbps (64~5120)

Maximum Downstream

128Kbps

64

Kbps (64~5120)

Apply

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. |

148

SMCWHSG14-G

**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:

Start connection

Status

refresh

VPN Tunnel: Offline

Client IP:

Apply

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. |
| Start connection                          |                         | Click on Start/Stop connection button to start/stop PPTP connection.  |
| 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  | <div>public</div>  | <div>ANY</div> | <div>Read</div>  | <div>Valid</div>   |
| 2  | <div>private</div> | <div>ANY</div> | <div>Write</div> | <div>Valid</div>   |
| 3  | <div></div>        | <div>ANY</div> | <div>Read</div>  | <div>Invalid</div> |
| 4  | <div></div>        | <div>ANY</div> | <div>Read</div>  | <div>Invalid</div> |
| 5  | <div></div>        | <div>ANY</div> | <div>Read</div>  | <div>Invalid</div> |

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            |  |
| Configuration  |                |  |
| 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.   |



WIRELESS

General Settings

ESSID:

Channel:

Security: ☒ Disable

☐ WPA

Group Key Rekeying: per  seconds

☒ Use WPA with Pre-shared Key

Pre-shared Key:  (8~63 characters)

☐ Use WPA with RADIUS Server

Server IP:

Authentication Port:

Shared Secret Key:

☐ WEP

Use Static WEP

Encryption: ☒ 64 bit ☐ 128 bit

Mode:

WEP Key:

☒ 1.

☐ 2.

☐ 3.

☐ 4.

Note: You have to restart the system to apply the WEP settings

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

Beacon Interval

(msec, range:20~999, default:100)

RTS Threshold

(range:1~2347, default:2347)

Fragmentation Threshold

(range:256~2432, default:2432, even number only)

Preamble Type

☐ Short Preamble ☒ Long Preamble ☐ Dynamic Preamble

Authentication Method

☒ Open System ☐ Shared Key ☐ Both

Default

Apply

Figure 3-155 Wireless Setting Screen

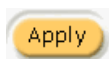
152

SMCWHSG14-G

| 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 Hotspot 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 Hotspot 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 Hotspot 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 Hotspot 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 Hotspot Gateway, or in areas where the clients are far apart and can detect only the Wireless Hotspot 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 Hotspot 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 Hotspot Gateway. Using open authentication, any wireless device can authenticate with the Wireless Hotspot Gateway, but the device can only communicate if its WEP keys match the Wireless Hotspot 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 Hotspot Gateway sends an unencrypted challenge text string to any device attempting to communicate with the Wireless Hotspot Gateway. The device-requesting authentication encrypts the challenge text and sends it back to the Wireless Hotspot Gateway. If the challenge text is encrypted correctly, the Wireless Hotspot Gateway allows the requesting device to authenticate. Both the unencrypted challenge and the encrypted challenge can be monitored, however, which leaves the Wireless Hotspot 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: Enable

Socket Port:

1001

(1001~1005)

Encryption:

Disable

Enable

Secret Key :

(max.8 characters)

Ethernet Thermal Printer IP Address :

1. 192.168.2.250

2.

3.

4.

5.

6.

7.

8.

9.

10.

Apply

Figure 3-157 Account Generator Printer Setting Screen

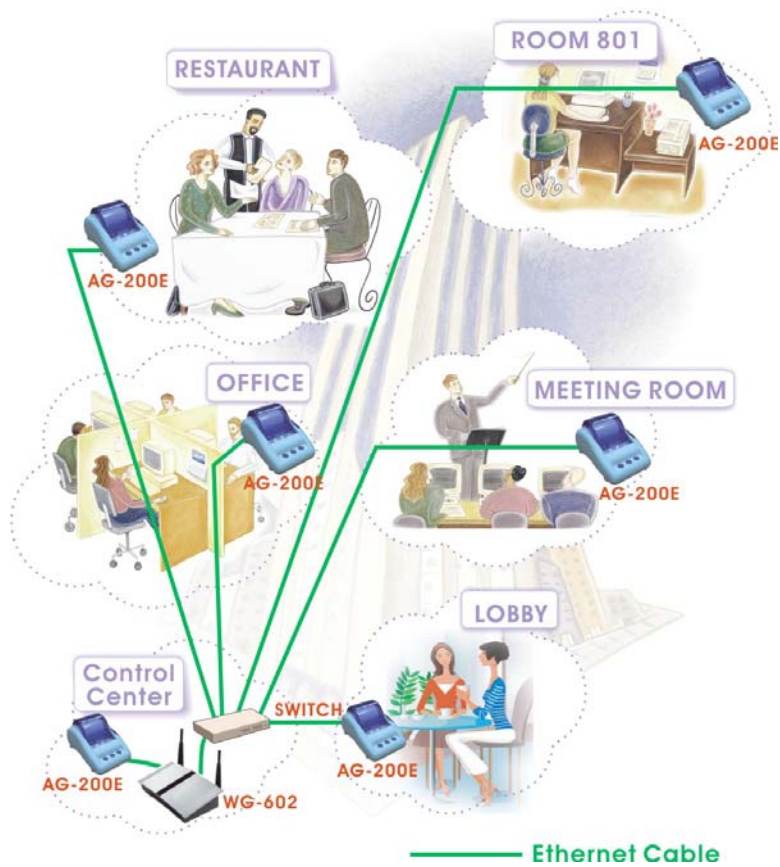


Figure 3-158 Application

### 3-3 System Status

Display Wireless Hotspot 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

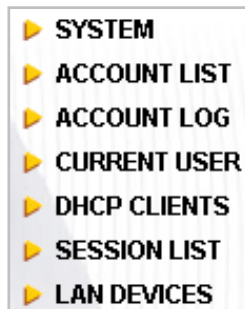


Figure 3-159 System Status Item Screen

### 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 |                      |                    |
| Service                                 | Internet Connection  | OK                 |
|   | Wireless Service     | OK                 |
| System                                  | 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       | 00D:00H:22M:24S    |
| LAN IP                                  | IP Address           | 192.168.2.1        |
|   | Subnet Mask          | 255.255.255.0      |
| WAN IP                                  | WAN Port Mode        | Static IP          |
|   | IP Address           | 192.168.100.191    |
|   | Subnet Mask          | 255.255.255.0      |
|   | Gateway IP address   | 192.168.100.254    |
| DNS                                     | Primary DNS Server   | 168.95.1.1         |
|   | Secondary DNS Server |                    |
| DHCP                                    | DHCP Status          | Server             |
|   | Start IP Address     | 192.168.2.2        |
|   | End IP Address:      | 192.168.2.254      |
|   | Lease Time           | 300                |
| Wireless                                | ESSID                | Wireless           |
|   | Channel              | 6                  |
|   | Secure Mode          | Disable            |
| E-Mail                                  | 192.168.100.3        |                    |

Figure 3-160 System Status Screen

|                      |                   |   |
|----------------------|-------------------|---|
| Network Traffic      | WAN Traffic       | <b>Tx Data:</b> 470774<br><b>Rx Data:</b> 2471580<br><b>Tx Error:</b> 0<br><b>Rx Error:</b> 0 |
|                      | LAN Traffic       | <b>Tx Data:</b> 4334455<br><b>Rx Data:</b> 856411<br><b>Tx Error:</b> 0<br><b>Rx Error:</b> 0 |
|                      | Wireless Traffic  | <b>Tx Data:</b> 2<br><b>Rx Data:</b> 0<br><b>Tx Error:</b> 0<br><b>Rx Error:</b> 0            |
| Location Information | Location          |   |
|                      | Address           |   |
|                      | City              |   |
|                      | State             |   |
|                      | Zip               |   |
|                      | Country           |   |
|                      | Contact Name      |   |
|                      | Contact Telephone |   |
|                      | Contact FAX       |   |
|                      | Contact Email     |   |
| SSL Certificate      | 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<br>13:44:46 |                       | 2005/2/15<br>01:44:46 | <input type="checkbox"/>  |
| 000002   | Un-used | ubvnp552 | 1:00:00    | 2005/2/14<br>13:44:51 |                       | 2005/2/15<br>01:44:51 | <input type="checkbox"/>  |
| 000003   | Un-used | gpgxgf54 | 2:00:00    | 2005/2/14<br>13:44:54 |                       | 2005/2/15<br>01:44:54 | <input type="checkbox"/>  |
| 000004   | Un-used | 38b6qm57 | 2:00:00    | 2005/2/14<br>13:44:57 |                       | 2005/2/15<br>01:44:57 | <input type="checkbox"/>  |
| 000005   | In-used | yfp23n33 | 2:00:00    | 2005/2/14<br>13:45:03 | 2005/2/14<br>13:45:40 | 2005/2/14<br>15:45:40 | <input type="checkbox"/>  |
|  |         |          |            |                       |                       |                       | <a href="#">Delete</a> <a href="#">Delete All</a>                                       |
| <a href="#">GO</a> <input type="text" value="1"/> Page |         |          |            |                       |                       |                       | <a href="#">First</a> <a href="#">Previous</a> <a href="#">Next</a> <a href="#">End</a> |

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<br>13:44:46 |                       | 0:30:00    | 1.00                   | Cash                      | Un-used                 |
| 000002  | ubvnp552 | 2005/2/14<br>13:44:51 |                       | 1:00:00    | 2.00                   | Cash                      | Un-used                 |
| 000003  | gpgxgf54 | 2005/2/14<br>13:44:54 |                       | 2:00:00    | 3.00                   | Cash                      | Un-used                 |
| 000004  | 38b6qm57 | 2005/2/14<br>13:44:57 |                       | 2:00:00    | 3.00                   | Cash                      | Un-used                 |
| 000005  | yfp23n33 | 2005/2/14<br>13:45:03 | 2005/2/14<br>13:45:40 | 2:00:00    | 3.00                   | Cash                      | In-used                 |
| <div> 1 Page</div> <div>First Previous Next End</div> |          |                       |                       |            |                        |                           |                         |

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"/> |

[GO](#)  Page [First](#) [Previous](#) [Next](#) [End](#)

[Disconnect](#) [Disconnect All](#)

Figure 3-164 Current User List

**CURRNET 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"/> |

[GO](#)  Page [First](#) [Previous](#) [Next](#) [End](#)

[Disconnect](#) [Disconnect All](#)

Figure 3-165 Current User List (super account)

**CURRNET 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)

[refresh](#)

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.

[Disconnect](#)

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

[Disconnect All](#)

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 Hotspot 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<br>(5900~5910)<br>(60001~60050) | Device IP<br>Address | Device<br>Server<br>Port | Device MAC<br>Address | Application | Interface |
|-----|--------------------|--------|--|----------------------|--------------------------|-----------------------|-------------|-----------|
| 1   | Ethernet<br>Switch | OK     | 60001  | 192.168.100.123      | 80                       | 00:90:0E:00:25:37     | TCP         | Wired     |

Click

Username:

Password:

Enter Clear

(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

▶ CONFIGURATION

▶ FIRMWARE

▶ BOOT CODE

▶ SYSTEM ACCOUNT

▶ SSL CERTIFICATE

▶ PING COMMAND

▶ RESTART

▶ 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 Hotspot 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:

Apply

**Restore**

To restore your stored system configuration to this device.

Local PC File Path:

Remote TFTP Server IP Address:

File Name:

Apply

**Reset the system back to factory defaults**

☐ Keep subscriber profile

Apply

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

Manual Firmware Upgrade

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

Browse..

Apply

Remote TFTP Server IP Address

File Name

Apply

Figure 3-173 Manual Firmware Upgrade Setting Screen

| Item   | Default | Description   |
|--|---------|---|
| This allow administrator to upgrade the firmware via HTTP.     |         |   |
| Local PC File Path   | Empty   | Enter the file name and location in the Local PC File Path field. |
| This allows administrator use TFTP server to upgrade firmware. |         |   |
| 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:

- Before downloading the new firmware, users must save the configuration file for restore configuration parameters of the device.
- 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            | <div><input checked="" type="radio"/> Weekly <input type="radio"/> Daily <input type="radio"/> Hourly</div> <div><div>Sunday</div><div><div></div></div>Hour<div><div>00</div><div></div>Min.</div></div> |

Apply

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

Close

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

|   |  |
|---|--|
| <b>BOOT CODE</b>  |  |
| 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.

|   |   |
|---|---|
| <b>SYSTEM ACCOUNT</b>   |   |
| <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="password"/>                        |
| <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="password"/>                        |
| <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="password"/>                        |
| <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="password"/>                        |
| <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.

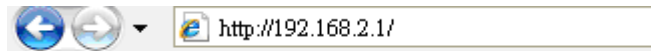


Figure 3-178 Web Browser Location Field (Factory Default)

Step 2: The Wireless Hotspot 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

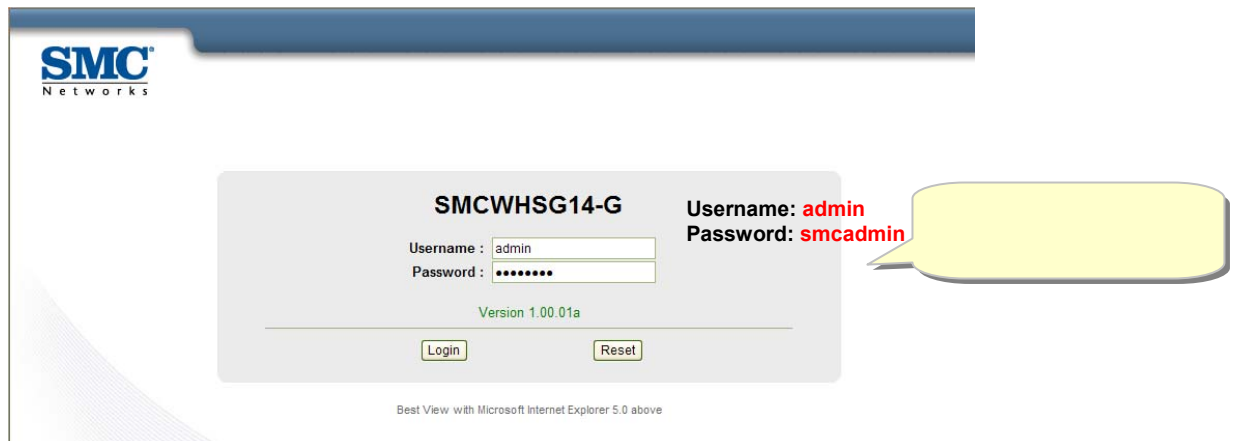


Figure 3-179 Administrator Account Login Screen (First Time)

Or

### System Quick View

System

|                  |                   |                  |                   |
|------------------|-------------------|------------------|-------------------|
| 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   |

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.

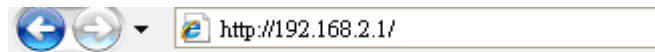


Figure 3-181 Web Browser Location Field (Factory Default)

Step 2: The Wireless Hotspot 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



The login screen for SMCWHSG14-G features a light gray background. At the top center, the device model 'SMCWHSG14-G' is displayed in bold black text. To its right, the labels 'Username: account' and 'Password: account' are shown in red. Below these, there are two input fields: the first is labeled 'Username :' and contains the text 'account'; the second is labeled 'Password :' and contains seven black dots. A yellow speech bubble points to the password field. Below the input fields, the text 'Version 1.00.01a' is centered in green. At the bottom, there are two buttons: 'Login' on the left and 'Reset' on the right, both with green borders and black text.

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



The Account Generator Panel has a green header bar with the title 'Account Generator Panel' in white. Below the header, a white box contains the instruction 'Please choose one button from the following selections' in blue. Underneath this instruction are three blue buttons with rounded corners and black text: '30 minutes', '1 hour', and '2 hours'. At the bottom left of the panel is a blue link labeled 'Logout', and at the bottom right is a purple link labeled '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 Hotspot 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 Hotspot Gateway configuration homepage will appear.

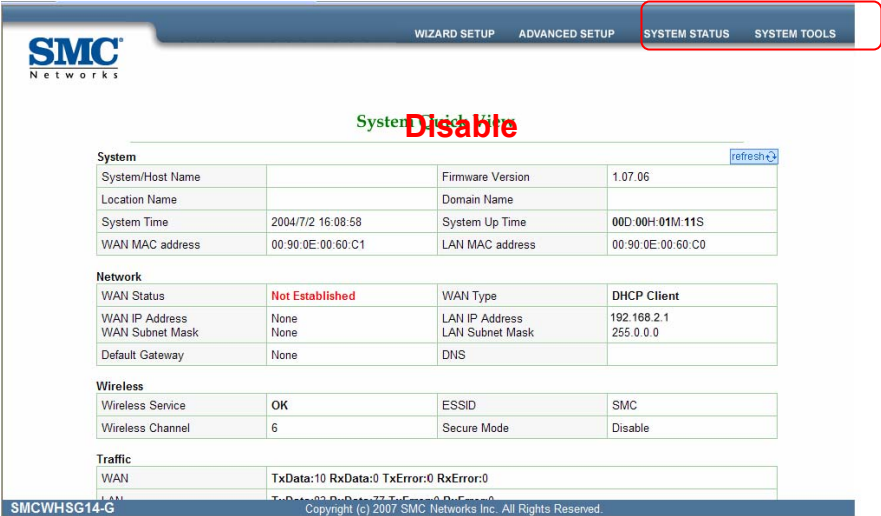


Figure 3-186 System Status Screen

● **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.

SMCWHSG14-G

Username : super

Password : .....

Username: super

Password: super

Version 1.00.01a

Login Reset

Figure 3-187 Subscriber Login Page

**3-4-5 SSL Certificate**

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

SSL CERTIFICATE

This feature allows you to download the registered CA certificate into this device.

Password for Private Key:

Certificate File:  Browse..

Private Key File:  Browse..

Apply

Figure 3-188 SSL Certificate Download Setting Screen

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

**3-4-6 Pin Command**

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

**PING**

This feature allows you to execute ping command.

www.hinet.net

PingClear

Pinging www.hinet.net [61.219.38.89] with 32 bytes of data:

Reply from: 61.219.38.89: bytes=32 time=90ms TTL=246  
Reply from: 61.219.38.89: bytes=32 time=30ms TTL=246  
Reply from: 61.219.38.89: bytes=32 time=40ms TTL=246  
Reply from: 61.219.38.89: bytes=32 time=30ms TTL=246

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

**RESTART**

Do you want to restart the system ?

Apply

Figure 3-190 Restart Screen

**3-4-8 Logout**

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

**LOGOUT**

Do you want to log out from the web configurator ?

Apply

Figure 3-191 Logout Screen

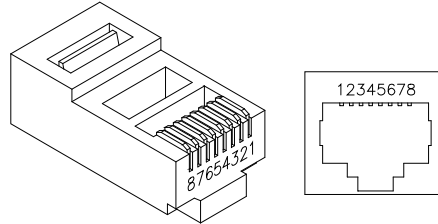
### **RJ-45 Ethernet Port**

The Wireless Hotspot 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*

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

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### 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  
SMC Networks, Inc.  
20 Mason  
Irvine, CA 92618



#### TECHNICAL SUPPORT

From U.S.A. and Canada (24 hours a day, 7 days a week)  
Phn: 800-SMC-4-YOU / 949-679-8000  
Fax: 949-502-3400

#### ENGLISH

Technical Support information available at [www.smc.com](http://www.smc.com)

#### FRENCH

Informations Support Technique sur [www.smc.com](http://www.smc.com)

#### DEUTSCH

Technischer Support und weitere Information unter [www.smc.com](http://www.smc.com)

#### SPANISH

En [www.smc.com](http://www.smc.com) Ud. podrá encontrar la información relativa a servicios de soporte técnico

#### 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/>

## SMCWHSG14-G