



Hot Spot
Wireless Subscriber Gateway
WSG-403
User's Manual

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Revision

User's Manual for PLANET Hot Spot Wireless Subscriber Gateway

Model: WSG-403

Rev: 1.0 (Jul. 2006)

Part No. EM-WSG403V1 (2081-B41050-000)

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1. Introduction

The PLANET Wireless Subscriber Gateway – WSG-403 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 WSG-403 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 WSG-403 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 WSG-403 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 in the WSG-403 packages:

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

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

Optional Product that can co-work with WSG-403:

WSG-ACG3 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

In this guide, the information of WSG-ACG3 will also be included in some sections. This Account Generator is an optional device that can work with WSG-403. With this Account Generator it is much easier for operator to create the accounts for any guests. Without the Account Generator, all the account generation can be done through Administrator's Web management page. The demand of this Account Generator can vary on the install site.

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

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

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 WSG-403 to direct sunlight or another heat source.
- Choose a well-ventilated area to position your WSG-403.

1.4 Outlook



Figure 1-1 WSG-403 Outlook

1.4.1 Top Panel

The top panel of the WSG-403 is shown below.



Figure 1-2 WSG-403 Top Panel

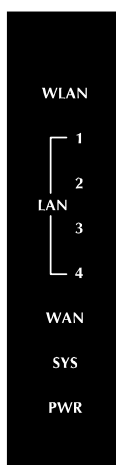


Figure 1-3 LEDs

LEDs Indication

LED	State	Description
PWR	Off	The WSG-403 is not receiving electrical power.
	Green*	The WSG-403 is receiving electrical power.
SYS	Off	The WSG-403 status is defective while PWR LED steady ON.
	Green	The WSG-403 status is complete.
	Green (Blinking)*	During firmware upgrades, this system LED will blink.
WAN	Off	WAN Port has not established any physical network connection.
	Green	The port has established a valid 10/100Mbps network connection.
	Green (Blinking)	10/100Mbps traffic is traversing WAN port.
LAN-1~	Off	The Port has not established any physical network connection.
LAN-4	Green	The 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 WSG-403 has established a valid wireless connection.
	Green (Blinking)	The Wireless connection is active.

Note:

1. Use only the bundled AC-DC adapter for the power system, other power adapter could damage the device permanently.
 2. During the firmware upgrade process, please do not power off the device, otherwise it could damage the device permanently.
-

1.4.2 Rear Panel

The rear panel of the WSG-403 is shown below.

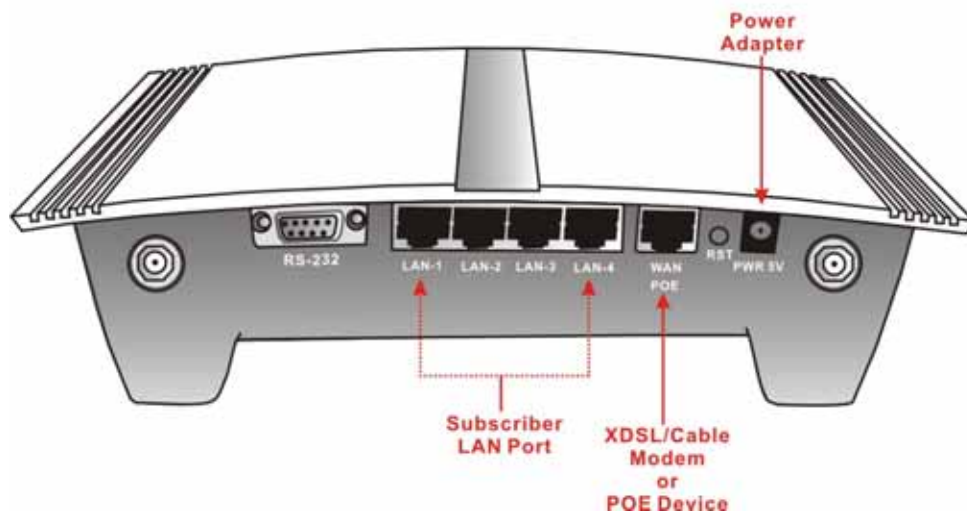


Figure 1-4 WSG-403 Rear Panel

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 100Base-TX networks or 10Base-T networks. When connecting to a 100Base-TX network, the ports operate at 100Mbps in half-duplex mode or 200Mbps in full-duplex mode. When connecting to a 10Base-T 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. 10/100Base-TX auto-negotiation and auto MDI also supported. This WAN port also complied with IEEE802.3af Power over Ethernet that can direct connect to IEEE802.3af complied injector (Mid-span) or PSE (End-span) for WSG-403's power system.

Note:

1. Either 5C DC power or IEEE802.3af PoE is allowed for the device. Use of both power systems could damage the device permanently.
 2. Please consult your local dealer about the IEEE802.3af Power over Ethernet equipments. Use of non 802.3af complied Power over Ethernet equipments could damage the device permanently.
-

4. Reset Button:

The WSG-403 has a reset button at the rear panel of the device. Use this function to reset the system back to factory defaults. One push and release will reboot the system. Hold the button for 5 seconds and release will factory reset the WSG-403.

5. Power Jack: Used to connect the external power supply with the WSG-403.

1.5 Technical Specifications

1.5.1 Hardware Specifications

Network Specification

IEEE802.3 10Base-T Ethernet

IEEE802.3u 100Base-TX Fast Ethernet

IEEE802.11g Wireless LAN

IEEE802.3af Power over Ethernet (mid-span)

Wi-Fi Compatible

Connectors

One RS-232 Port

Four LAN Ports (10Base-T/100Base-TX Auto MDI)

One WAN Port (10Base-T/100Base-TX Auto MDI)

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 DC, 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 10Base-T Ethernet
- IEEE802.3u 100Base-TX Fast Ethernet
- IEEE802.3af Power over Ethernet (mid-span)

- 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 WSG-ACG3

- Local Authentication
- Local Accounting
- Local Billing

WSG-ACG3 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 WSG-403. Refer to the illustration and follow the simple steps below to quickly install your WSG-403.

2.1 Wall-Mounting

The WSG-403 can be wall-mounted on a wall by applying the two mounting brackets on screws.

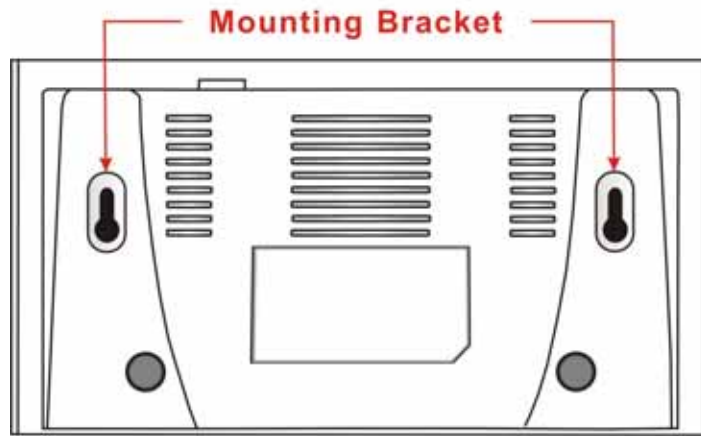


Figure 2-1 Wall-Mounting Bracket - Bottom of WSG-403

Please refer to the following instructions for mounting a WSG-403 on a wall or other surface.

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

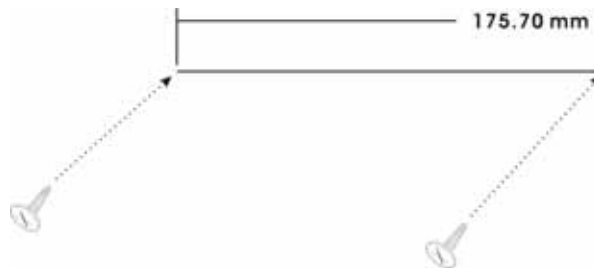


Figure 2-2

2. Hang WSG-403 on the wall by sliding the two screws in the mounting brackets.

Note: If the screws are not properly anchored, the strain of the cables connected to the WSG-403 rear panel connectors could pull out the WSG-403 from the wall.

2.2 Connecting the Antennas

The WSG-403 provides two antenna connectors on the rear of the unit.

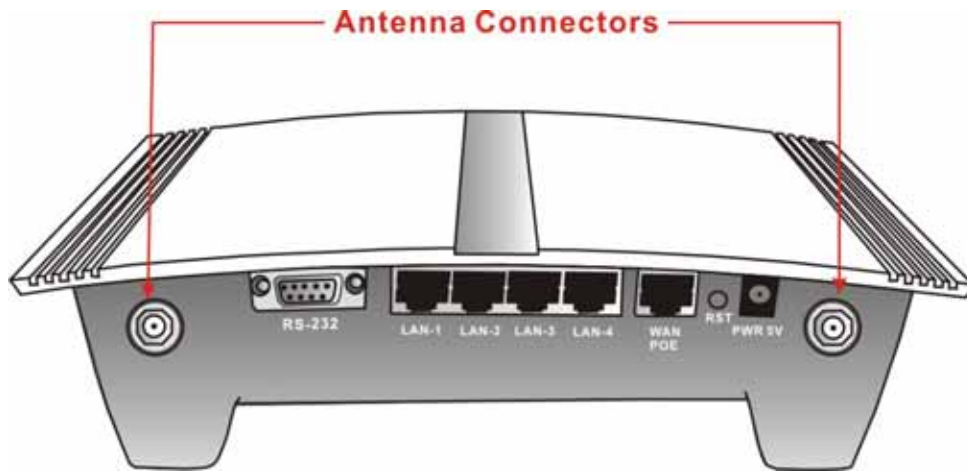


Figure 2-3 Antenna Connectors

2.3 Installation Requirements

Before installing the WSG-403, make sure your network meets the following requirements.

2.3.1 System Requirements

The WSG-403 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).

2.3.2 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 WSG-403
- Your subnet mask for the WSG-403
- 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

2.3.3 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 "192.168.0.1".
 2. The gateway's default subnet mask setting is "255.255.255.0".
-

The Dynamic IP settings for the PC

We recommend that you leave your IP settings as automatically assigned. By default, the WSG-403 is a DHCP server, and it will give your PC the necessary IP settings.

Note:

Before turn on the WSG-403, make sure there is no other DHCP server in the LAN network, otherwise it will influence the whole network operation.

2.4 Getting Start

1. Place the WSG-403 and WSG-ACG3 Printer on a flat work surface.
2. Connect the Ethernet cable to the WSG-403's LAN port.
3. [optional] Connect the other end of the Ethernet cable to the WSG-ACG3Account Generator Printer's RJ45 port.
4. Ensure that your modem and computer are both switched on.
5. Use the supplied cable to connect the WSG-403'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 WSG-403. Check that the LAN Port Status LED lights.
7. Configure the further parameters via a Web browser.

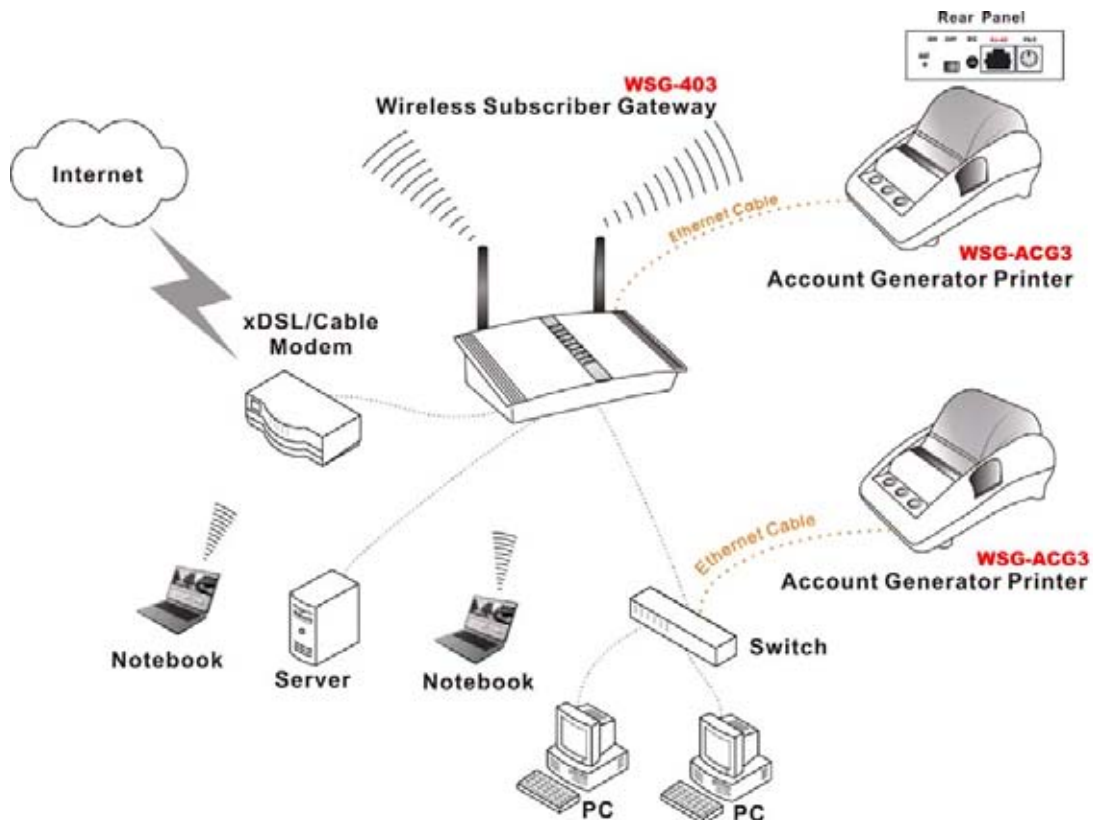


Figure 2-4 WSG-403 Connection

2.5 POE (Power over Ethernet) Application

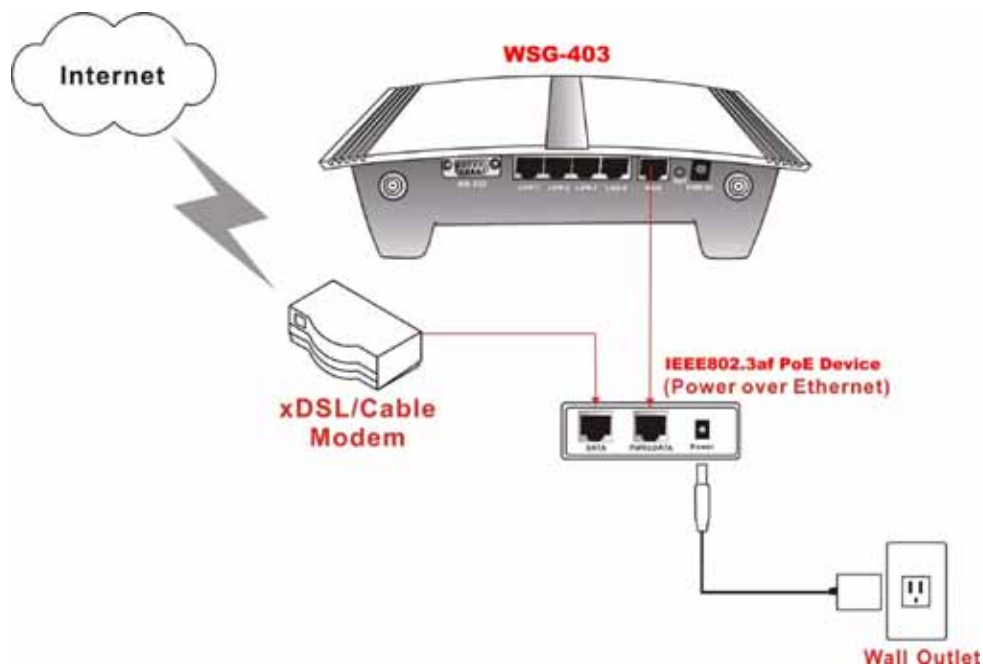


Figure 2-6 POE Connection

Note: WSG-403 supports IEEE802.3af standard. To use the WSG-403's POE feature, follow the instructions for your specific POE device such as PLANET POE-151, POE injector.

3. Configuring the WSG-403

3.1 Setting Wizard

Step 1: Start your browser, and then enter the factory default IP address **191.168.0.1** in your browser's location box. Press **Enter**.

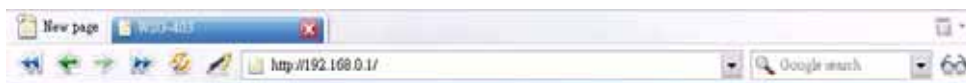


Figure 3-1 Web Browser Location

Field (Factory Default)

Step 2: The WSG-403 configuration tools menu will appear. In the Username and Password field, type the factory default user name **admin** and password **password** and click **Login**. If you are first time setting the system, the wizard setup screen will appear. You will be guided, step-by-step, through a basic setup procedure.



Figure 3-2 Configuration Tools Menu



Figure 3-3 Wizard Setup Screen

System Quick View			
System			
System/Host Name		Firmware Version	1.00.02
Location Name		Domain Name	
System Time	2006/6/29 19:36:22	System Up Time	000:00H:00M:15S
WAN MAC address	00:30:4F:4D:E9:C2	LAN MAC address	00:30:4F:4D:E9:C1
Network			
WAN Status	Established	WAN Type	DHCP Client
WAN IP Address	192.168.99.208	LAN IP Address	192.168.0.1
WAN Subnet Mask	255.255.255.0	LAN Subnet Mask	255.255.255.0
Default Gateway	192.168.99.253	DNS	192.168.99.253
Wireless			
Wireless Service	OK	ESSID	Wireless
Wireless Channel	6	Secure Mode	Disable
Traffic			
WAN	TxData:10434 RxData:10075 TxError:0 RxError:0		
LAN	TxData:370 RxData:540 TxError:0 RxError:0		
Wireless	TxData:1 RxData:0 TxError:0 RxError:0		

Figure 3-4 System Quick View

Reset

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

Note:

- ☞ This Web agent is best viewed with IE 5.0 or Netscape 6.0 and above browsers.
- ☞ If you would like to change the password please see Step 10.
- ☞ Username and Password can consist of up to **20** alphanumeric characters and are case sensitive.
- ☞ If for some reason your password is lost or you cannot gain access to the WSG-403 Configuration Program, please press the reset button to load the device to manufacturer defaults.
- ☞ If the WSG-403 doesn't send packet in 5 minutes (default), the WSG-403 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. There are options for DHCP client, Static IP address, PPPoE and PPTP. Please consult your ISP for the collection connection type.

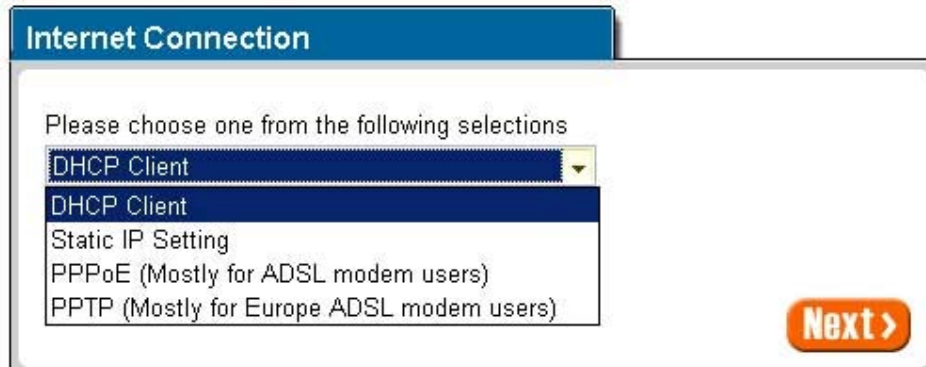


Figure 3-5 Internet Connection Setting Screen

● **DHCP Client**

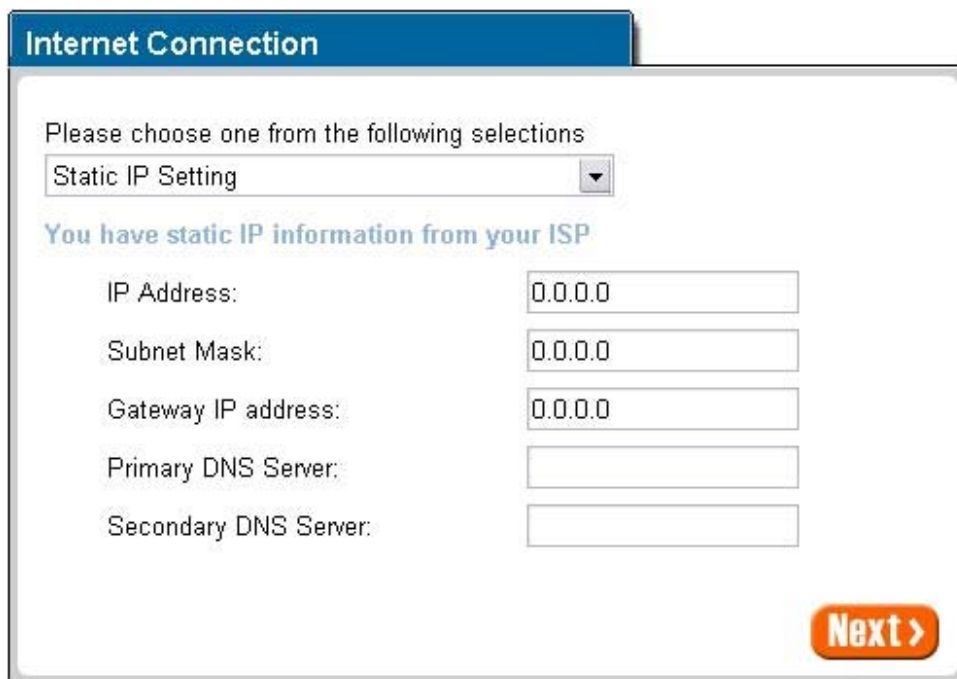
The device can work as a DHCP client. This allows the device to obtain the IP address and other TCP/IP settings from your ISP. If your xDSL/Cable comes with this feature, please enable Use DHCP Client.



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.



Internet Connection

Please choose one from the following selections

Static IP Setting

You have static IP information from your ISP

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway IP address: 0.0.0.0

Primary DNS Server:

Secondary DNS Server:

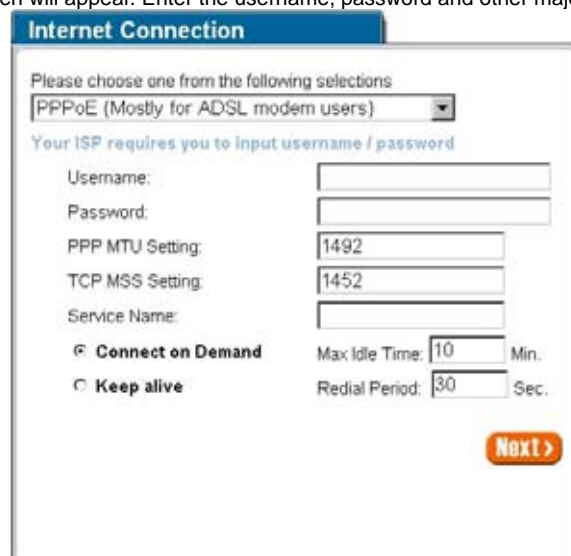
Next >

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.



Internet Connection

Please choose one from the following selections

PPPoE (Mostly for ADSL modem users)

Your ISP requires you to input username / password

Username:

Password:

PPP MTU Setting: 1492

TCP MSS Setting: 1452

Service Name:

☒ **Connect on Demand** Max Idle Time: 10 Min.

☐ **Keep alive** Redial Period: 30 Sec.

Next >

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 WSG-403 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 WSG-403 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:

1460

TCP MSS Setting:

1400

Connection ID/Name:

☒ Connect on Demand

Max Idle Time:

10

Min.

☐ Keep alive

Redial Period:

30

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).
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.

Item	Default	Description
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 WSG-403 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 WSG-403 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 for wireless connection.

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

WSG-403 allows an extra Email server parameter to forward the subscriber's E-mail.

Figure 3-11 E-mail Service Setting Screen

Item	Default	Description
Email Server Redirect	No	Disables or enables email server redirect function. To prevent some subscriber's original Email server may protect by firewall or NAT network. WSG-403 provides an extra Email server parameter to forward the subscriber's Email. The WSG-403 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

Figure 3-12 Authentication Service Setting Screen

Item	Default	Description
Built-in Authentication/ No Authentication	No No Authentication)	Yes— WSG-403 provides Built-in Authentication for service provider to build up an Internet service without any extra authentication software. If Yes is selected, service provider can generate the

		subscriber account inside WSG-403, and the system will authenticate the subscriber login according to the generated account. No— Subscriber can direct access the Internet without enter username and password.
--	--	--

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: Time to Finish or Accumulation . 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 many times with one account. 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/ 1 hour/ 2 hours	It is the name of billing profile. The maximum allowed characters length is 12.
Usage Time	30 minutes/ 1 hour/ 2 hours	The duration of the billing period. When this period expires, user account will be discontinued.
Charge	1.00/2.00/3.00	Enter the amount of Internet service. The amount maximum value is 999999.

Step 8: Account Generator Printer Setting

There are two different choices, one is exclusive printer (Account Generator Printer – the WSG-ACG3), and the other is non-exclusive printer. Exclusive printer is a portable thermal printer that is integrated with WSG-403 to press one button to generate accounts and receipt immediately without PC operating. Non-exclusive printer can use the PC Web-based browser to print out user account.

Figure 3-14 Printer Setting Screen

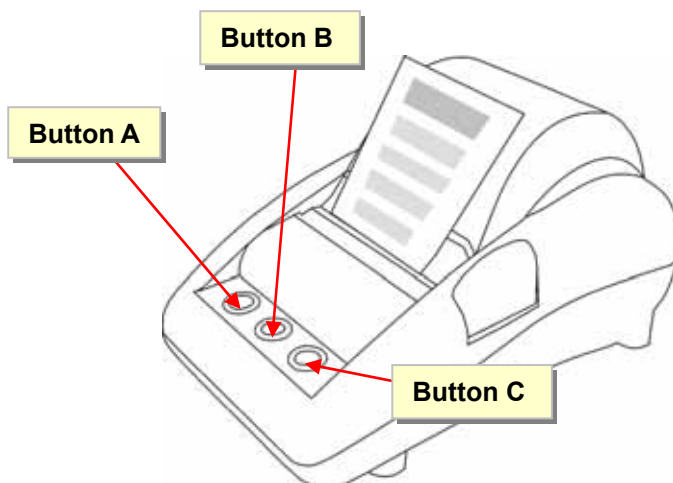


Figure 3-15 Account Generator / Thermal Printer

Step 9: Accounting Setting

● Three-buttons Printer Setting

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

Account Generator

Three-buttons Printer Setting

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

Printout
 Number of copies to print : 1 ▼
[Customize printout text](#)

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

< Back
Next >

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

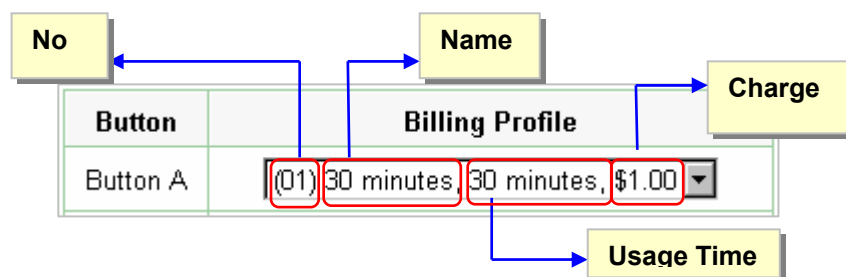


Figure 3-17 Billing Profile Setting Screen

Item	Default	Description
Button A~ C	01	Define each button's billing profile. Select one billing profile by clicking in the list box.
Printout		
Number of copies to print	1	The system allows you to print all your bills. This value is number of copies.
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**

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

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 : 1

[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.
Customize printout text	-	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.
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.

While click on the customization hyper link, the following screen shall show up for customized printing for account information list.

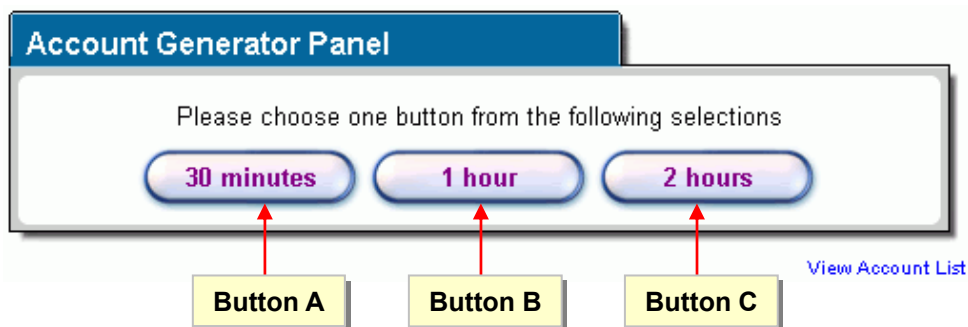


Figure 3-19 Account Generator Panel

Click on button to create a new account.

Welcome!

Hotspot Internet Service

Username:52n9rm36

Password:adedc933

Billing: Time to Finish

Service: 30 minutes

Unit: 1

Usage Time: 0:30:00

Total \$1.00

ESSID: Wireless

WEP:

2002/3/3 21:14:36

S/N:000001

Please start your account before

2002/3/4 09:14:36

Thank you very much !

Close Print

Figure 3-20 Example-Account Printout

[View Account List](#)

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

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

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.

Delete

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

Delete All

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

☐ Logo

* Only for PC-connected printer

Title:
 (Max=75)

Subtitle:
 (Max=60)

Username:
 (Max=24)

Password:
 (Max=24)

Billing Method:
 (Max=24)

Billing Profile:
 (Max=24)

Purchase Unit:
 (Max=24)

Usage Time:
 (Max=24)

☒ Price:
 (Max=24)

Tax:
 (Max=24) TOTAL: (Max=24) Grand Total: (Max=24)

ESSID:
 (Max=24)

WPA Encryption:
 (Max=24)

WEP Encryption:
 (Max=24)

☐ Additional Label 1:
 (Max=24) Value: (Max=24)

☐ Additional Label 2:
 (Max=24) Value: (Max=24)

☒ Print out Time:
Format: yyyy/mm/dd HH:mm:ss (HH:24h hh:12h tt:AM/PM)

☒ Expiration Time:
Description: Please activate your account before (Max=60)
Format: yyyy/mm/dd HH:mm:ss (HH:24h hh:12h tt:AM/PM)

☒ Ending:
 Thank you very much! (Max=75)

[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.

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

S/N:000001 2004/12/13 17:03:13

Please activate your account before 2004/12/14 05:03:13

Thank you very much !

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
Total	\$1.00
ESSID:	Wireless

S/N:000001 2004/12/13 18:48:17

Please activate your account before 2004/12/14 06:48:17

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

Thank you very much !

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

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

Example Preview

1.Create accounts

Welcome!

S/N:001234

Hotspot Internet Service

Username:xxxxxxxx

Password:xxxxxxxx

ESSID: Wireless

2005/2/1 10:50:14
Please activate your 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

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

System Setting

Please be sure to change your password:

Username:	<input type="text" value="admin"/>	
Password:	<input type="password" value="....."/>	Confirm: <input type="password"/>

System date and time: Get from my Computer

Date: 2004/12/13 **Time:** 17:18:29

Secure Administrator IP Address ☒ All

☐ Selected

< Back
FINISH

Figure 3-28 System Setting Screen

Item	Default	Description
Username	admin	Enter the user name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.

Password	admin	Enter the user password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
Confirm	Empty	Enter the password of administrator for confirmation.
System date and time	YYYY/MM/DD HH:MM:SS	<div>Get from my Computer</div> <p>Click Get from my Computer 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

- 
- ▶ SYSTEM
 - ▶ WAN / LAN
 - ▶ SERVER
 - ▶ AUTHENTICATION
 - ▶ RADIUS
 - ▶ BILLING
 - ▶ ACCOUNTING
 - ▶ CREDIT CARD
 - ▶ KEYPAD
 - ▶ CUSTOMIZATION
 - ▶ PASS THROUGH
 - ▶ FILTERING
 - ▶ SHARE
 - ▶ PORTAL PAGE
 - ▶ ADVERTISEMENT
 - ▶ WALLED GARDEN
 - ▶ DDNS
 - ▶ LAN DEVICES
 - ▶ SYSLOG
 - ▶ SESSION TRACE
 - ▶ BANDWIDTH
 - ▶ SECURE REMOTE
 - ▶ SNMP
 - ▶ WIRELESS
 - ▶ 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 WSG-403 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:	2004 / 12 / 13	(Year/Month/Day)	
	Time:	17 : 19 : 58	(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	GMT -12:00		
	Update Time	0 hours		
	<input type="checkbox"/> Daylight Saving Time	Start Date:	4 Month / 1 Day	
		End Date:	10 Month / 31 Day	

Figure 3-30 System Setting Screen

NAT (Network Address Translation)	<input checked="" type="radio"/> Enable <input checked="" type="checkbox"/> IP Plug and Play <input checked="" type="checkbox"/> DNS Fake IP Reply <input type="radio"/> Disable
Layer 2 Isolation Security	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Secure administrator IP addresses	<input checked="" type="radio"/> Any <input type="radio"/> Specify <div> 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"/> </div>
Multicast Pass Through	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Allow remote user to ping the device	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
SSL Certificate	<input checked="" type="radio"/> Default <input type="radio"/> Customer Certificate
<input type="button" value="Apply"/>	

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.
Date/Time		
Date (Year/Month/Day)	System Date	The system date of the WSG-403. The valid setting of year is from 2002 to 2035.
Time (Hour:Minute:Second)	System Time	The system time of the WSG-403.
<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.
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 WSG-403. 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.

Item	Default	Description
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 WSG-403 through Internet. Ping is normally used to test the physical connection between two devices, to ensure that everything is working correctly.
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	The Device IP Address and Subnet mask settings IP Address: <input type="text" value="192.168.0.1"/> Subnet Mask: <input type="text" value="255.255.255.0"/>
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"/>
WAN Port Mode	<input checked="" type="radio"/> DHCP Client (Mostly for Cable modem users or Local Area Network) <input type="radio"/> Static IP (Mostly for advanced Local Area Network environment) <input type="radio"/> PPPoE (Mostly for ADSL modem users) <input type="radio"/> PPTP (Mostly for Europe ADSL modem users)
	

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 ?


Figure 3-34 Restart Dialog Box

● Device IP (LAN IP) Setting

WAN / LAN

LAN	The Device IP Address and Subnet mask settings	
	IP Address:	192.168.0.1
	Subnet Mask:	255.255.255.0

Figure 3-35 Device IP (LAN IP) Setting

Item	Default	Description
IP Address	10.59.1.1	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"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/>
-----------------	--

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

<input checked="" type="radio"/> Static IP (Mostly for advanced Local Area Network environment) <p style="color: green; font-weight: bold;">You have static IP information from your ISP</p>	
IP Address:	<input type="text" value="0.0.0.0"/>
Subnet Mask:	<input type="text" value="0.0.0.0"/>
Gateway IP address:	<input type="text" value="0.0.0.0"/>
Primary DNS Server:	<input type="text"/>
Secondary DNS Server:	<input type="text"/>

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.
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your WSG-403 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 WSG-403 to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand,
Max Idle Time	10 Minutes	

		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.
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

☒ **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.
Password	Empty	Enter your PPTP password. The password can consist of up to 80 alphanumeric characters and is case sensitive.

Item	Default	Description
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 WSG-403 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 WSG-403 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	Web Server Port: <input type="text" value="80"/> <input type="checkbox"/> SSL Security Administrator Idle-Timeout: <input type="text" value="5"/> Min(s) (1 - 1440)
DHCP Server	<input type="radio"/> DHCP Disable <input type="radio"/> DHCP Relay <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <input type="text" value="DHCP Server IP Address:"/> </div> <input checked="" type="radio"/> DHCP Server <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> IP Pool Starting Address: <input type="text" value="192.168.0.2"/> Pool Size: <input type="text" value="253"/> (Max.=253) Lease Time: <input type="text" value="300"/> (Minutes) Primary DNS Server: <input type="text" value="168.95.1.1"/> Secondary DNS Server: <input type="text"/> </div>
Email Server Redirect	IP Address or Domain Name: <input type="text"/> SMTP Port: <input type="text" value="25"/> (25, 2500 - 2599)
<input type="button" value="Apply"/>	

Figure 3-42 Server Setting Screen

Item	Default	Description
Web Server		

HTTP Port	80	Enter the HTTP port number. The HTTP port allowed range is 80 or 8010 to 8060. For access the WSG-403 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 WSG-403 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.
DHCP Server	Enable	There are three types of DHCP Services. DHCP Disable—Disable the DHCP server function. DHCP Relay—Enable DHCP Relay function. DHCP Server—Enable DHCP server function.
DHCP Relay	To route DHCP through an external server, the administrator needs to enable the DHCP relay and assign a valid DHCP server IP address.	
DHCP Server IP Address	Empty	Enter the IP address of DHCP server.
DHCP Server	The WSG-403's DHCP server is turned on and running by default when you install it in your network.	
DHCP Pool Starting Address	10.59.1.2	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.
Email Server Redirect	To prevent some subscriber's original Email server may protect by firewall or NAT network. WSG-403 provides an extra Email server parameter to forward the subscriber's Email. The WSG-403 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.
-----------	----	--

Apply

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

3.2.4 Authentication

AUTHENTICATION

Authentication Type

☐ No Authentication
 ☒ Built-in Authentication
 ☐ User Agreement

☐ Redirect URL Link Code
 ☒ Standard User Agreement Page

☐ WIFICOM(only for RADIUS authentication)

Redirect Login Page URL:

☐ Behind NAT(In case the device is installed behind NAT)

NAS IP
 SSL Port 443
 Virtual SSL port 0

☐ Wandering Wi-Fi(only for RADIUS authentication)

Redirect Login Page URL: Code
 Policy when Radius Server unreachable

☒ Default deny
 ☐ Allow access
 ☐ Deny access

Current User Information Backup
 1 Min(s)(1 - 1440)

SSL Login Page
☒ Disable
 ☐ Enable

User Idle Time Out
 5 Min(s)(1 - 1440)
 (Not function on "Time to Finish" billing mode)

Apply

Figure 3-43 Authentication Setting Screen

Item	Default	Description
Authentication Type	No Authentication	Option: No Authentication, Built-in Authentication or User Agreement. No Authentication— Subscriber can direct access the Internet without enter username and password.
Item	Default	Description
Authentication Type	No Authentication	Built-in Authentication— WSG-403 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 WSG-403, and the system will authenticate the subscriber login according to the generated account. User Agreement— Subscriber must accept the service usage agreement before they can access the Internet. WIFICOM— WSG-403 provides this Authentication for WIFICOM service provider to build up an Internet service with RADIUS server. For the detail setup, please contact WiFicom. (http://www.wificom.com) Wandering Wi-Fi—

		WSG-403 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. (http://wanderingwifi.com)
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 http://www.yahoo.com . The maximum character of the URL Link is 200.
Code	Copy and paste the following HTML Code into your home page to produce redirect subscriber login page.	
Code		

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


Redirect Page Sample Code
<pre><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;&nbsp;&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></pre>


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.



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.

Idle Time Out: Min(s) (1 - 1440)

Primary RADIUS Server

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"/>

Secondary RADIUS Server

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

Accounting Service

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

Authentication Method

Smart Client
☐ IPASS GIS

Login Mode

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

Figure 3-45 Authentication Setting Screen

Item	Default	Description
RADIUS Authentication	Disable	<p>Option: No Authentication or RADIUS Server.</p> <p>Disable (No Authentication) —</p> <p>Subscriber can direct access the Internet without enter username and password.</p> <p>Enable (RADIUS Authentication) —</p> <p>WSG-403 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).</p>
Time to Finish/	Enable	Service provider provides two different accounting calculate

Accumulation		for the Internet service.
Primary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number; the authentication port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number; the accounting port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	The share secret key, the key number also has to match with the Server setting. Up to 64 characters are allowed.
Secondary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number; the authentication port number must match with the secondary RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number; the accounting port number must match with the secondary RADIUS server setting. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	The share secret key, the key number also has to match with the secondary RADIUS Server setting. Up to 64 characters are allowed.
Retry times when Primary fail	1	Specify the retry times when primary fail.
Item	Default	Description
Retry Frequency ~ Seconds	3	The field default value is 3 seconds.
Accounting Service	Enable	Enables or disables the accounting service.
Interim Update Time	5 Minutes	Specify the interim update time.
Authentication Method	CHAP	Enter the authentication method of RADIUS server.
WISPr Smart Client		
Enable	Disable	Enables or disables WISPr Smart Client roaming function.
Login Mode	Directly Reply	Options: Directly Reply, Proxy Reply with "Redirect Login Page" URL and Proxy Reply with Specific URL. The login mode information for the IPASS GIS connection. (Provided by your ISP).

3.2.6 Billing

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

BILLING

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

☐ **Enable Credit Card Service**

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

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

Idle Time Out Min(s)(1 - 1440)

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

Idle Time Out Min(s)(1 - 1440)

Billing Profile

Currency: \$ (Number of decimals places:)

☐ **Tax Percentage:** %

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

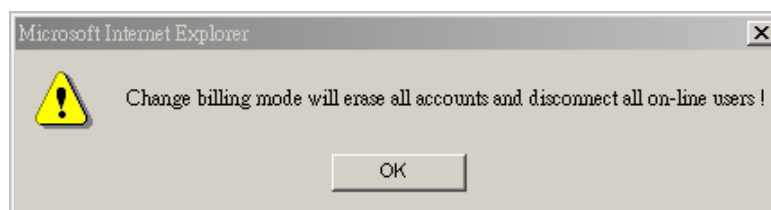


Figure 3-47 Message Box

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

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://silverado.trivalley.com/merchant/processcc.asp

Credit Card icons to be displayed on the login page
☒ 
☐ 
☐ 
☐ 

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.
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.

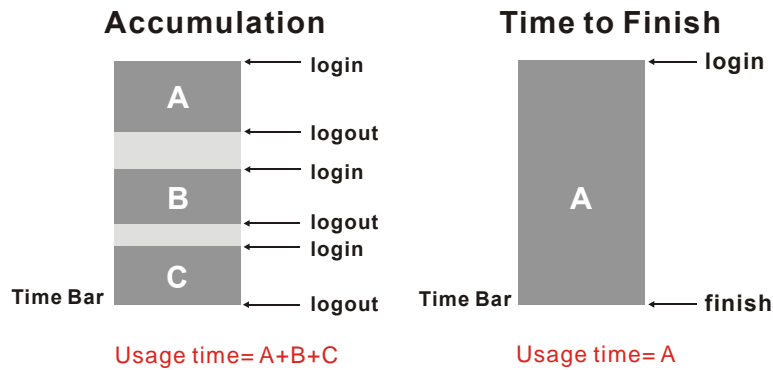


Figure 3-50 Accumulation and Time to Finish

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.
Billing Profile		
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).
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

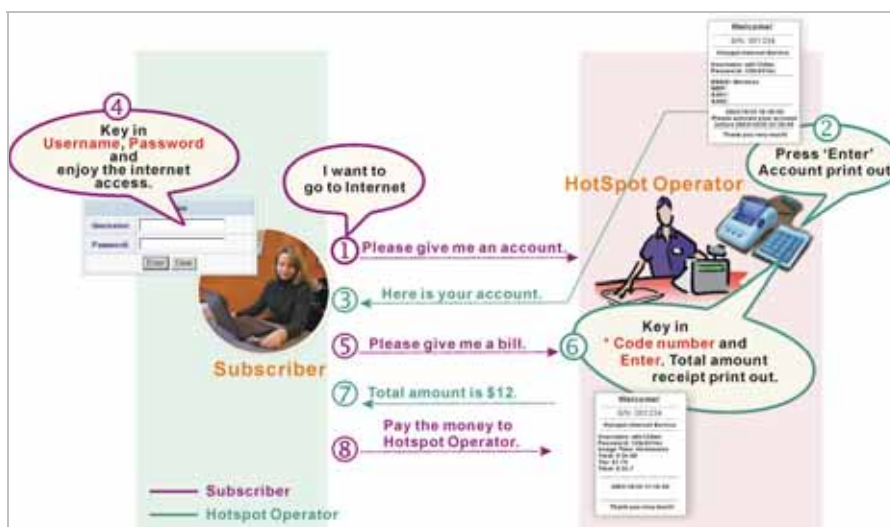


Figure 3-52 Post-paid Procedure Diagram

Apply

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.

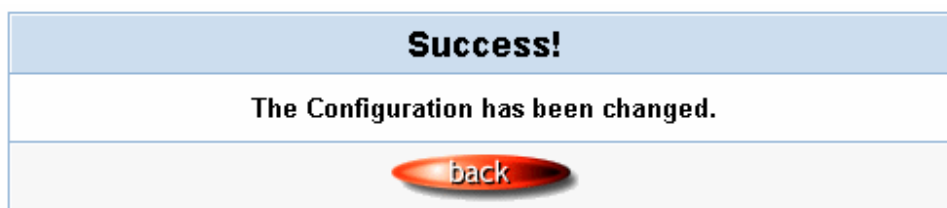


Figure 3-53 Success Dialog Box

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

Web-based Account Generator Panel		Preview / Operate
Button A	<input type="text" value="(01) 30 minutes, 30 minutes, \$1.00"/>	
Button B	<input type="text" value="(02) 1 hour, 1 hours, \$2.00"/>	
Button C	<input type="text" value="(03) 2 hours, 2 hours, \$3.00"/>	
Print to... <input checked="" type="radio"/> Account Generator Printer <input type="radio"/> PC-Connected Printer		

Three-Buttons Printer	
Button A	same as Web-based Button A
Button B	same as Web-based Button B
Button C	same as Web-based Button C
Print to... <input checked="" type="radio"/> Account Generator Printer <input type="radio"/> PC-Connected Printer	
Use <input type="text" value="Button A"/> for Discount Price Plan based on "Button Presses": <input type="text" value="Disable"/>	

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" 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=""/>

Figure 3-54 Accounting Setting Screen

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

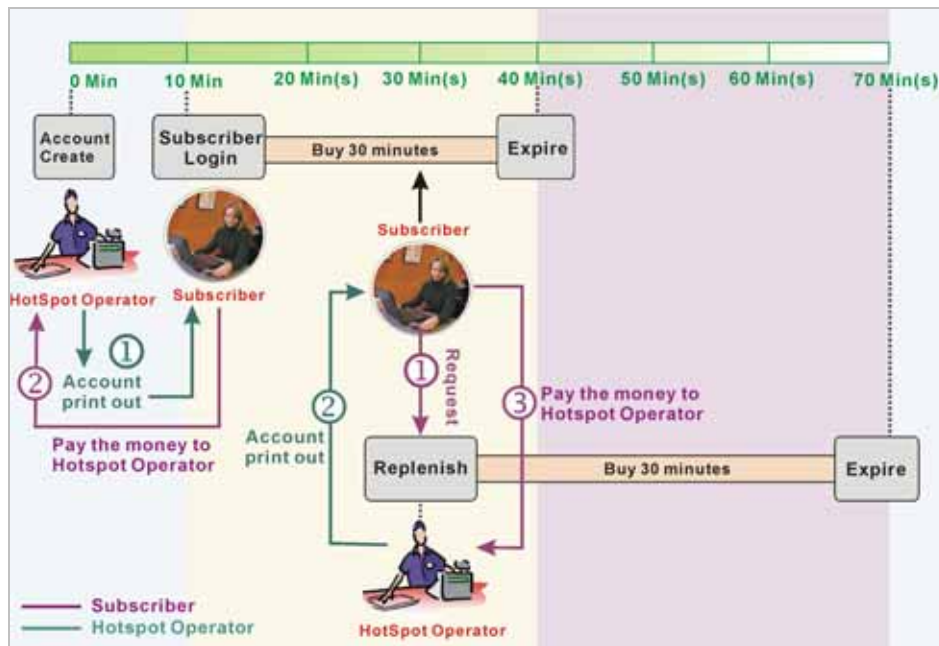


Figure 3-56 Account Process Diagram

Can be replenished by subscriber=Enable

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

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		

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

Item	Default	Description
Button A~C	-	Define each button's billing profile. Select one billing profile by clicking in the list box.
Print to...	Account Generator Printer	Select a printer to print out your account.
Item	Default	Description
Use ~ for Discount Price Plan based on "Button Presses"	Button A, Disable	Select one button (A~C) by clicking in the list box to assign the base charge and select enable to active the discount price plan.

Preview / Operate

Click on button to preview and operate account generator panel.

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:	xxxxxxxx
Password:	xxxxxxxx
Billing:	Time to Finish
Service:	30 minutes
Unit:	1
Usage Time:	0:30:00
Total	\$1.00
ESSID:	Wireless

S/N:000001

2004/12/13 17:03:13

Please activate your account before 2004/12/14 05:03:13

Thank you very much !

Close

Print

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

Expiration	Un-used account will be deleted after <input type="text" value="12"/> hours automatically Accumulation account will be deleted after logged in <input type="text" value="3"/> 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: x9yij837
 Password: nmh1a837
 Billing: Accumulation
 Service: 2 hours
 Unit: 1
 Usage Time: 2:00:00
 Total: \$3.00

ESSID: Wireless

2004/12/13 18:40:37
 S/N: 000006
 Please start your account before
 2004/12/14 06:40:37
 Please finish your usage time within 3 months
 after your first login
 Thank you very much !

Figure 3-61 Web-based Account Generator Printout (Accumulation)

Welcome!	
Hotspot Internet Service	
Username:	x0000000x
Password:	x0000000x
Billing:	Accumulation
Service:	30 minutes
Unit:	1
Usage Time:	0:30:00
Total	\$1.00
ESSID:	Wireless

S/N: 000001 2004/12/13 18:48:17

Please activate your account before 2004/12/14 06:48:17

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

Thank you very much !

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-Buttons Printer	
Button A	same as Web-based Button A
Button B	same as Web-based Button B
Button C	same as Web-based Button C
Print to... <input checked="" type="radio"/> Account Generator Printer <input type="radio"/> PC-Connected Printer	
Use	<input type="text" value="Button A"/> for Discount Price Plan based on "Button Presses": <input type="text" value="Disable"/>

Figure 3-63 Example 1

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!

Amount: 7 x \$2.00= \$14.00

Figure 3-64 Account Printout

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

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			

Three-Buttons Printer	
Button A	same as Web-based Button A
Button B	same as Web-based Button B
Button C	same as Web-based Button C
Print to... <input checked="" type="radio"/> Account Generator Printer <input type="radio"/> PC-Connected Printer	
Use <input type="button" value="Button B"/> for Discount Price Plan based on "Button Presses": <input type="button" value="Enable"/>	

Discount Price Plan based on "Button Presses" <input type="checkbox"/> 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
Password: 8e3zte33
Billing: Time to Finish
Service: 1 hour
Unit: 7
Usage Time: 07:00:00
Total: \$7.00

ESSID: Wireless
2004/11/29 10:45:14
S/N:000012
Please activate your
account before
2004/11/29 22:45:14

Thank you very much!

Figure 3-66 Account Printout

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

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

Three-Buttons Printer

Button A	same as Web-based Button A
Button B	same as Web-based Button B
Button C	same as Web-based Button C

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

Use Button B for Discount Price Plan based on "Button Presses": Enable

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 Charge by level is enabled

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

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" <input checked="" type="checkbox"/> Charge by levels			
Level	Conditions	Button Presses	Unit Price
1	when > =	1	same as base charge
2	when > =	<input style="width: 50px;" type="text" value="0"/>	<input style="width: 50px;" type="text"/>
3	when > =	<input style="width: 50px;" type="text" value="0"/>	<input style="width: 50px;" type="text"/>
4	when > =	<input style="width: 50px;" type="text" value="0"/>	<input style="width: 50px;" type="text"/>
5	when > =	<input style="width: 50px;" type="text" value="0"/>	<input style="width: 50px;" type="text"/>
6	when > =	<input style="width: 50px;" type="text" value="0"/>	<input style="width: 50px;" type="text"/>
7	when > =	<input style="width: 50px;" type="text" value="0"/>	<input style="width: 50px;" type="text"/>
8	when > =	<input style="width: 50px;" type="text" value="0"/>	<input style="width: 50px;" type="text"/>
9	when > =	<input style="width: 50px;" type="text" value="0"/>	<input style="width: 50px;" type="text"/>
10	when > =	<input style="width: 50px;" type="text" value="0"/>	<input style="width: 50px;" type="text"/>

● Discount Price Plan based on "Button Presses"

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.

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.
iValidate.net		
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.
Secure Server Address	https://www.vious.net/merchant/processcc.asp	Enter the secure server address.
Secure Pay		
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.
SecurePay Address	https://www.securepay.com.au/secure	Enter the address of SecurePay Payment Gateway.

	epay/payments/process2.asp	
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.

Figure 3-73 Login Page

Step 2: Select Service and enter payment information.

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: (123)123-1234

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? 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 3-75 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

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

Welcome

Hot Spot Internet Service

INVALID CARD

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
Use for Pre-Paid Billing		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.
Use for Post-Paid Billing	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.

Idle Time Out **Min(s)**(1 - 1440)

☐ **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.

Idle Time Out **Min(s)**(1 - 1440)

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.

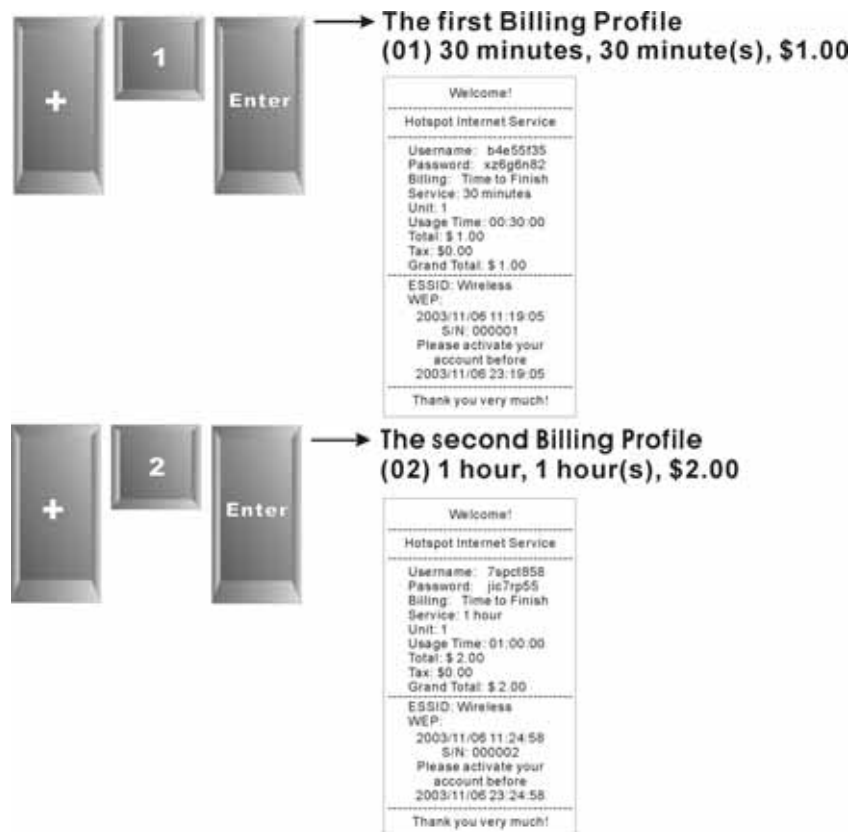


Figure 3-81

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.
Idle Time Out **Min(s)**(1 - 1440)

☒ **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.
Idle Time Out **Min(s)**(1 - 1440)

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				
Level	Conditions	Time Range	Unit Price	
1	when > =	1	1.00	
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.

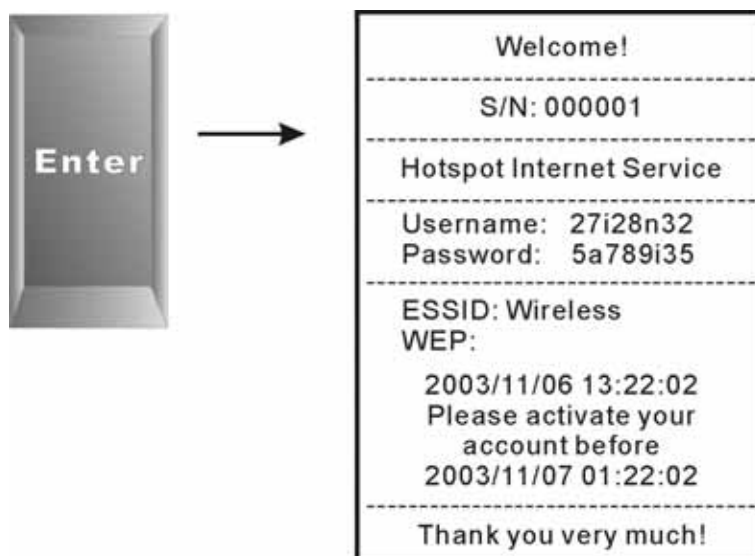


Figure 3-84

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

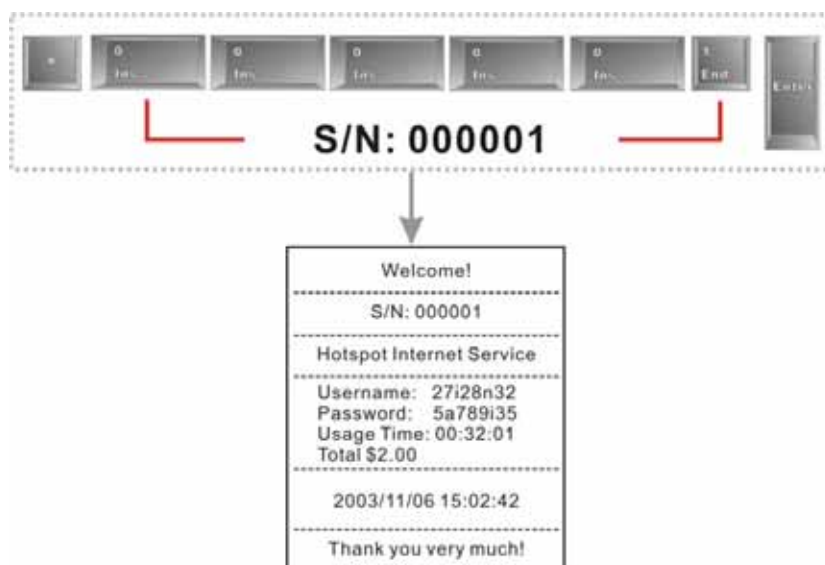






Figure 3-85

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





Status Report	
PS/2 Keypad	
Enter the date (MonthDate)	
Items	Keypad Hot Key
Daily Account Report Printout 	Press *1mmdd
Monthly Account Report Printout 	Press *2mm
System Status Report Printout 	Press *3
Network Report Printout 	Press *4

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

TIN: Purchase Unit

Figure 3-87 Daily Account

- Monthly Account Report Printout

Monthly Account

2003/11

S/N

Username

B

UN

Price

000001

bvnbc332

1

1

1.00

000002

i293qt32

1

1

1.00

000003

b4e55f56

2

1

2.00

000004

n5faixz26

1

1

1.00

000005

t877ji46

1

1

1.00

TOTAL ACCOUNTS

TOTAL PRICE: \$6.00

2003/11/26 10:36:03

---End---

Press ABCBB

B: Billing Profile

UN: Purchase Unit

Figure 3-88 Monthly Account

● System Status Report Printout

Abbreviation	Current Settings
System Status	System Status
ITEM DESCRIPTION	ITEM DESCRIPTION
WAST WAN Status	WAST Not Established
WSTA Wireless Service	WSTA Fail
SYST System Up Time	SYST 01D:20H:35M:46S
HOST Host Name	
FRMW Firmware Version	
WFRM Wireless Firmware Version	
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---

Figure 3-89 System Status Report Printout

● Network Report Printout

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

Figure 3-90 Network Report Printout

3.2.10 Customization

● Login Page

The WSG-403 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

Please choose from the following login page types

☒ **Standard**

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

☐ Logo

Title: (Max: 80 characters)

Subtitle: (Max: 80 characters)

☐ Footnote: (Max: 240 characters)

☒ Copyright: (Max: 80 characters)

Background Color: [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	Enter the subtitle name of subscriber login page. The maximum

	Internet Service	allowed characters length is 80.
Footnote	Disable	Allow the administrator to input the footnote such like "Pleas Contact to our Customer Service Center, EXT 141". The maximum character of the footnote is 240.
Item	Default	Description
Copyright	Enable	The copyright is allowed the administrator to input a paragraph in the subscriber login page for copyright information. The maximum character of the copyright is 80.
Background Color	FFFFFF	The background text color can be specified color. For the specified text color format please views the color grid. The allowed format is Hexadecimal.



Figure 3-92 Login Page Screen

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



Customization->Logo.

Figure 3-93 Error Dialog Box

Redirect

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

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	Redirect Login Page URL: <input type="text"/>	Code
-----------------	---	----------------------

Redirect Login Page Code
<p>If you need the credit card icons to be displayed on your customized login page, please integrate the sample code with below image links.</p> <p>Size: 54 x 35 pixels</p> <p>1.VISA: http://1.1.1.1/visa_card.gif</p> <p>2.Master Card: http://1.1.1.1/master_card.gif</p> <p>3.American Express: http://1.1.1.1/ae_card.gif</p> <p>4.Discover: http://1.1.1.1/discover_card.gif</p> <pre> <html> <body style="font-family: Arial" bgcolor="#FFFFFF"> <form method="post" action="http://1.1.1.1/login.cgi" name="apply"> <div align="center"> <table cellSpacing="0" cellPadding="0" width="50%" borderColorLight="#8e8e8e" border="1"> <tr> </pre>

Figure 3-95 Redirect Login Page Code Screen

Advanced

This function allow user to design login page of WSG-403.

Advanced

Welcome Slogan

Page Background

☒ None
☐ Background Color [View Color Grid](#)

Article

Article Text Color

[View Color Grid](#)

Article Background Color

☒ None
☐ [View Color Grid](#)

Information

Comments

```

</td>
</tr>
</table>
</div>
<div align="center">
<table border="0" width="100%" cellSpacing="0" cellpadding="0">
<tr>
<td align="center" width="100%" height="30">
<font color="#000000" size="2">
<a href="http://1.1.1.1/credit.html"><b>or Click here to pay by credit card</b></a>
<font></td>
</tr>
</table>
</div>
</form>
</body>
</html>

```

Close

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 "Please 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.

<input checked="" type="radio"/> Frame	Top Frame	URL: <u>www.caesarpark.com</u>
	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

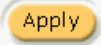

Login Page	Logo	Information Window	Account Printout	Credit Card
------------	-------------	--------------------	------------------	-------------

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 3-100 Logo Setting Screen

Item	Default	Description
File Path	Empty	Enter the file pathname of the logo file in the File Path field.
		Click Apply button to save the logo file to system.
		Click Delete button to delete the logo file.

CUSTOMIZATION

Login Page	Logo	Information Window	Account Printout	Credit Card	User Agreement Page
------------	-------------	--------------------	------------------	-------------	---------------------

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

File Path:

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




Figure 3-101 Logo Setting Screen



Welcome	
Hot Spot Internet Service	
Username	<input type="text"/>
Password	<input type="text"/>
<input type="button" value="Enter"/> <input type="button" value="Cancel"/>	

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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
<p>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 or http://1.1.1.1/logout to logout immediately if accumulation billing selected.</p>				
<input checked="" type="checkbox"/> Display Information Window once after a subscriber logs in successfully				
Window Name	<input type="text" value="Information Window"/> (Max. 30 character)			
Main message	<input type="text" value="You can use Internet now!"/> (Max. 30 character)			
Message Description	<input type="text" value="This is an information window to show the usage and notice. You can type http://1.1.1.1/info to open this window again without VPN connection."/> (Max. 150 character)			
Time count label	<div> <input type="text" value="Standard for pre-defined usage time"/> <input type="text" value="Remaining Usage"/> (Max. 30 character) </div> <div> <input type="text" value="Post-Paid Billing"/> <input type="text" value="Connecting Usage"/> (Max. 30 character) </div>			
<input type="checkbox"/> Warning/Alarm message	<input type="text" value="If you don't want to continue using Internet, please remember to logout. Just click the 'Logout' button."/> (Max. 150 character)			
<input type="checkbox"/> Notice Message	<div> <input type="text" value="Notice Text 1"/> <input type="text" value="Notice!"/> (Max. 150 character) </div> <div> <input type="text" value="Notice Text 2"/> <input type="text" value="If you are going to use VPN connection now, please close the message window before you run VPN connection."/> (Max. 150 character) </div> <div> <input type="text" value="Notice Text 3"/> <input type="text" value=""/> (Max. 150 character) </div>			
 Preview				
<input type="button" value="Apply"/>				

Figure 3-103 Example-Login Page Screen

Information Window

You can use Internet now!

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.

Remaining Usage hh:mm:ss

If you don't want to continue using Internet, please remember to logout. Just click the 'Logout' button.

Notice!

If you are going to use VPN connection now, please close the message window before you run VPN connection.

Figure 3-104 Example-Login Page Screen

Information Window

You can use Internet now!

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.

Remaining Usage 1:55:17

If you don't want to continue using Internet, please remember to logout. Just click the 'Logout' button.

Notice!

If you are going to use VPN connection now, please close the message window before you run VPN connection.

Windows Name

Main Message

Message Description

Usage Count Label

Warning/Alarm Message

Notice Message

Figure 3-105 Information Window

Billing Type=Time to Finish Can be replenished by subscriber=Disable

Information Window
<p>You can use Internet now!</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>Remaining Usage <input type="text" value="hh:mm:ss"/></p>
<p>If you don't want to continue using Internet, please remember to logout. Just click the 'Logout' button.</p>
<p>Notice!</p> <p>If you are going to use VPN connection now, please close the message window before you run VPN connection.</p>
<p>Replenish</p>

Figure 3-106 Information Window

Billing Type=Time to Finish Can be replenished by subscriber=Enable

Information Window
<p>You can use Internet now!</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>Remaining Usage <input type="text" value="hh:mm:ss"/></p>
<p>If you don't want to continue using Internet, please remember to logout. Just click the 'Logout' button.</p>
<p>Notice!</p> <p>If you are going to use VPN connection now, please close the message window before you run VPN connection.</p>
<p>Logout</p>

Figure 3-107 Information Window

Billing Type=Accumulation

Can be replenished by subscriber=Disable

Information Window
<p>You can use Internet now!</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>Remaining Usage <input type="text" value="hh:mm:ss"/></p>
<p>If you don't want to continue using Internet, please remember to logout. Just click the 'Logout' button.</p>
<p>Notice!</p> <p>If you are going to use VPN connection now, please close the message window before you run VPN connection.</p>
<p>Replenish Logout</p>

Figure 3-108 Information Window

Billing Type=Accumulation

Can be replenished by subscriber=Enable

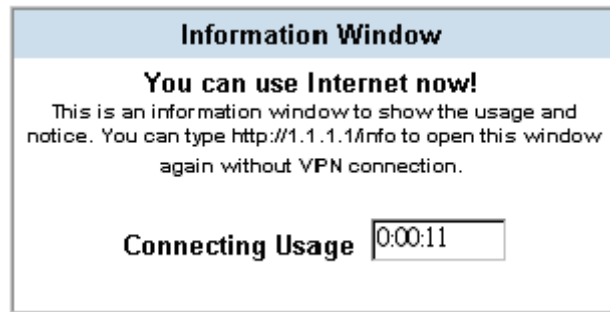


Figure 3-109 Information Window

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

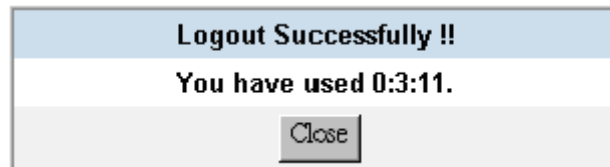


Figure 3-110 Logout Successfully Dialog Box

Billing Type=Accumulation

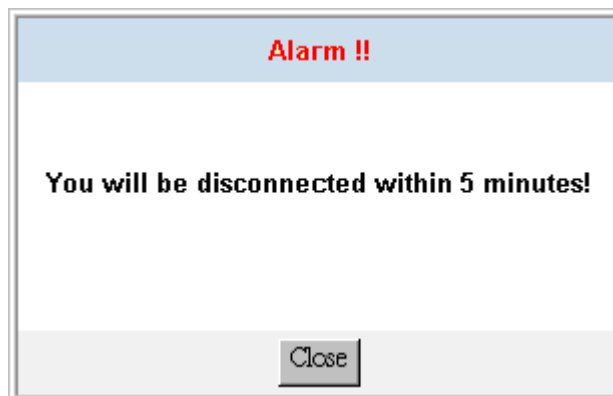


Figure 3-111 Alarm Dialog Box1

- **Account Printout**

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

CUSTOMIZATION

Login Page	Logo	Information Window	Account Printout	Credit Card
<input type="checkbox"/> Logo	* Only for PC-connected printer			
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)			
Billing Method:	<input type="text" value="Billing:"/> (Max.=24)			
Billing Profile:	<input type="text" value="Service:"/> (Max.=24)			
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)			
ESSID:	<input type="text" value="ESSID:"/> (Max.=24)			
WPA Encryption:	<input type="text" value="WPA:"/> (Max.=24)			
WEP Encryption:	<input type="text" value="WEP:"/> (Max.=24)			
<input type="checkbox"/> Additional Label 1:	<input type="text" value=""/> (Max.=24) Value: <input type="text" value=""/> (Max.=24)			
<input type="checkbox"/> Additional Label 2:	<input type="text" value=""/> (Max.=24) Value: <input type="text" value=""/> (Max.=24)			
<input checked="" type="checkbox"/> Print out Time:	Format: <input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/> (HH:24h hh:12h tt:AM/PM)			
<input checked="" type="checkbox"/> Expiration Time:	Description: <input type="text" value="Please activate your account before"/> (Max.=60) Format: <input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/> (HH:24h hh:12h tt:AM/PM)			
<input checked="" type="checkbox"/> Ending:	<input type="text" value="Thank you very much !"/> (Max.=75)			
Preview of PC-connected printer Preview of account generator printer Preview of Post-Paid Printout				
<input type="button" value="Apply"/>				

Figure 3-112 Account Printout Customization Setting Screen



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.

Success!
The Configuration has been changed.
<input type="button" value="back"/>

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
Total	\$1.00
ESSID:	Wireless

S/N:000001 2004/12/13 17:03:13

Please activate your account before 2004/12/14 05:03:13

Thank you very much !

Close Print

Figure 3-114 PC-connected 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"

Close

Figure 3-115 Account Generator Printer Printout

Welcomel

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 !

Close Print

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.


Standard Login Page	Customize the additional credit card message for the standard login page	
	Credit Card Message	<input type="text" value="or Click here to pay by credit card"/> <small>(Max:80 characters)</small>
		 Preview of Standard Login Page

Figure 3-117 Credit Customization Setting Screen





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

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

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

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.

Idle Time Out Min(s)(1 - 1440)

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.

Idle Time Out Min(s)(1 - 1440)

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

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

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: (123)123-1234

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? <input type="text" value="1"/>				
<p>*Please kindly note that there will be no refund once connectivity is confirmed.</p> <p>*Please note that the time block of selected service is based on continuous usage.</p>				
Enter Payment Information (all info is required) (all info is required)				
Credit card number:		<input type="text"/>		
Credit card expiration date:		<input type="text"/> (MMYY)		
Enter Email Address		<input type="text"/>		
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 !"/> (Max. 80 characters)
Notification Message 1	<input type="text" value="IMPORTANT! Make a note of your username and pa"/> (Max. 160 characters)
Notification Message 2	<input type="text"/> (Max. 160 characters)
Account Information	<input type="text" value="This is your account information, please keep this fo"/> (Max. 160 characters)
Username	<input type="text" value="Your username is"/> (Max. 80 characters)
Password	<input type="text" value="Your password is"/> (Max. 80 characters)
Usage Time	<input type="text" value="Your usage time is"/> (Max. 80 characters)
Expiration Time	<input type="text" value="Please activate your account before"/> (Max. 80 characters) Format: <input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/> (HH:24h hh:12h tt:AM/PM)
Email Button	<input type="text" value="Email this webpage to myself"/> (Max. 40 characters)
Submit Button	<input type="text" value="Use this account to LOGIN now"/> (Max. 40 characters)


 [Preview of Successful Page](#)

Figure 3-126 Successful Page Setting Screen

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 WXY3dg54	
Your password is 32JIKew2	
Your usage time is 30 minutes	
Please activate your account before 2004/10/10 10:38:05	
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 ti"/> <small>(Max. 160 characters)</small>
Notification Message 2	<input type="text" value="Please use your backspace button and try again wit"/> <small>(Max. 160 characters)</small>
Notification Message 3	<input type="text" value="Thank you!"/> <small>(Max. 160 characters)</small>
Try Again Button	<input type="text" value="Try Again"/> <small>(Max. 40 characters)</small>
Close Button	<input type="text" value="Close"/> <small>(Max. 40 characters)</small>

[Preview of Fail Page](#)

Figure 3-128 Fail Page Setting Screen



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

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

Figure 3-129 Fail Page

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

Success!	
The Configuration has been changed.	

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	User Agreement Page
Title	<input type="text" value="User Agreement Page"/> <small>(Max. 100 characters)</small>
Title Text Color	<input type="text" value="000000"/> View Color Grid
Article	<div style="border: 1px solid black; height: 150px; width: 100%;"></div> <small>(Max. 5000 characters)</small>
Article Text Color	<input type="text" value="000000"/> View Color Grid
Article Background Color	<input type="text" value="FFFFFF"/> View Color Grid
Page Background Color	<input type="text" value="FFFFFF"/> View Color Grid
Agree Button	<input type="text" value="Agree"/> <small>(Max. 50 characters)</small>
Disagree Button	<input type="text" value="Do not agree"/> <small>(Max. 50 characters)</small>
 Standard User Agreement Page Preview	
<input type="button" value="Apply"/>	

Figure 3-131 User Agreement Page Setting Screen

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

Figure 3-132 User Agreement Page

3.2.11 Pass Through

This function allow administrator to set some special devices pass through the WSG-403 system. Because some network devices might be constructed under the WSG-403. However these devices needn't be checked and authorized. The WSG-403 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
Delete All				
Apply				

Figure 3-133 Pass through Setting Screen

Item	Default	Description
Pass Through	Disable	Enables or disables the pass through function.
Destination URL/IP Address Pass Through		
<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.
Subscriber IP/MAC Address or LAN Device Pass Through		
<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: FF-FF-FF-FF-FF-FF		
MAC Address	Empty	Enter the MAC address of you wants pass through.
Mask	Empty	Enter the subnet mask of you wants pass through.

Pass Through List	Display the pass through Information of WSG-403.	
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 ' Delete ' to delete the pass through address(s).

Add to List

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

Apply

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

Delete All

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

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

3.2.12 Filtering

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

FILTERING

Filtering: Disable

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

HTTP Message to display when a website is blocked

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 ' Delete ' to delete the filtering address(s).

Add to List

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

Apply

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

Delete All

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

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

3.2.13 Share

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

SHARE

Share LAN resource: Disable

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

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

Resource Name	Resource IP Address	Resource MAC Address	Interface
<input type="text"/>	<input type="text"/>	<input type="text"/>	Wired
Add to List			

Restricted Destination List

No.	Active	Resource Name	IP Address	MAC address	Interface	Delete
Delete All						
Apply						

Figure 3-136 Share Device Setting Screen

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

Note:

- 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**.
- The function support only Unicast and IP Protocol.

Add to List

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

Apply

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

Delete All

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

3.2.14 Portal Page

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

PORTAL PAGE

This feature allows to redirect subscriber's browser to a specified portal page after successful login.

URL Link	<input type="text"/>
----------	----------------------




Figure 3-137 Portal Page Setting Screen

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



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

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

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	<input checked="" type="radio"/> One Time Only <input type="radio"/> Every <input type="text" value="0"/> Min(s)
Sequence	<input checked="" type="radio"/> Randomly <input type="radio"/> Orderly (From 1 to 10)
URL Link 1	<input type="text"/>
URL Link 2	<input type="text"/>
URL Link 3	<input type="text"/>
URL Link 4	<input type="text"/>
URL Link 5	<input type="text"/>
URL Link 6	<input type="text"/>
URL Link 7	<input type="text"/>
URL Link 8	<input type="text"/>
URL Link 9	<input type="text"/>
URL Link 10	<input type="text"/>




Figure 3-139 Advertisement URL Link Setting Screen

Item	Default	Description
Frequency	One Time Only	One Time Only—One Time Only means to send the advertisement link once after the subscriber Login. Every—Min(s)—The field means to send the advertisement link every interval minutes. The value range is 1 to 60 (minutes).
Sequence	Randomly	Randomly—Display the advertisement page in the random order.

		From 1 to 10 —Display the advertisement page in the order as setting.
URL Link 1~10	Empty	This function allows the administrator to input ten different websites in the table for advertisement. And these 10 websites will display to the subscribers at random when the subscribers login in the WSG-403 system. The input format can be "http://www.yahoo.com". The maximum character of the URL Link # is 200.



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

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



Figure 3-140 Success Dialog Box

3.2.16 Walled Garden

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

WALLED 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: Planet URL: www.planet.com.tw	Planet www.planet.com.tw MSN www.msn.com Microsoft www.microsoft.com
Link 2	Name: MSN URL: www.msn.com	
Link 3	Name: Microsoft URL: www.microsoft.com	
Link 4	Name: <input type="text"/> URL: <input type="text"/>	
Link 5	Name: <input type="text"/> URL: <input type="text"/>	
Link 6	Name: <input type="text"/> URL: <input type="text"/>	
Link 7	Name: <input type="text"/> URL: <input type="text"/>	
Link 8	Name: <input type="text"/> URL: <input type="text"/>	
Link 9	Name: <input type="text"/> URL: <input type="text"/>	
Link 10	Name: <input type="text"/> URL: <input type="text"/>	

Figure 3-141 Walled Garden

Planet

MSN

Microsoft

Figure 3-142 Login Page

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

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

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 WSG-403 a new IP, the WSG-403 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 day(s) when WAN IP address keeps no change

No.	Active	Settings	Update Status Now
01	<input type="checkbox"/>	Status: N/A Service Provider: <input type="text" value="dyndns.org (www.dyndns.org)"/> Registered Host Name: <input type="text"/> <small>(for example: xyz.dyndns.org)</small> Login Name: <input type="text"/> (max. 23 characters) Password: <input type="text"/> (max. 23 characters) Email Address: <input type="text"/> (optional) <input type="checkbox"/> Wildcards (optional)	
02	<input type="checkbox"/>	Status: N/A Service Provider: <input type="text" value="dyndns.org (www.dyndns.org)"/> Registered Host Name: <input type="text"/> <small>(for example: xyz.dyndns.org)</small> Login Name: <input type="text"/> (max. 23 characters) Password: <input type="text"/> (max. 23 characters) Email Address: <input type="text"/> (optional) <input type="checkbox"/> Wildcards (optional)	
03	<input type="checkbox"/>	Status: N/A Service Provider: <input type="text" value="dyndns.org (www.dyndns.org)"/> Registered Host Name: <input type="text"/> <small>(for example: xyz.dyndns.org)</small> Login Name: <input type="text"/> (max. 23 characters) Password: <input type="text"/> (max. 23 characters) Email Address: <input type="text"/> (optional) <input type="checkbox"/> Wildcards (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.
<input type="button" value="Update Status Now"/>	Click the Update Status Now button to do manual update.	
Settings	Enter the account information of DDNS Server.	
Status	YY/MM/DD HH:MM:SS:	Display the update date, time and status. The Status area shows the update time and current state of the DDNS Client. N/A—DDNS Client service not installed. Update Successfully—DDNS Client service installed; service running. Update Fail—DDNS Client service installed; service not running.
Service Provider	Dyndns.org (www.dyndns.org)	Select a DDNS service provider by clicking in the list box. Note: Before configuring the DDNS settings, you have to

		register a dynamic domain at one of the dynamic domain service providers' list box.
Registered Host Name	Empty	Enter the host name of DDNS server. The maximum character of the registered host name is 100.
Login Name	Empty	Enter the user name of DDNS server.
Password	Empty	Enter the user password of DDNS server.
Email Address	Empty	Enter your email address. The DDNS Server will e-mail you important information once your Internet Name has been successfully registered.
Wildcards (optional)	Disable	Enable this function to be able to use *.mydomain.dyndns.org and not only mydomain.dyndns.org.



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

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



Figure 3-145 Success Dialog Box

3.2.18 LAN Devices

Administrator can direct remote control to LAN Devices via the WSG-403 implemented the feature.

LAN DEVICES

Detecting time: Min(s)

No.	Device Name	Virtual Port (60001~60050)	Device IP Address	Device Server Port	Device MAC Address	Application	Interface
1	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	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 ▾	Wired ▾
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 ▾
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

Server IP Address	Empty	Enter syslog server's IP address. The WSG-403 will send all of its logs to the specified syslog server.
Server MAC Address	Empty	Enter the syslog server's MAC address. The WSG-403 will send all of its logs to the specified syslog server.
Item	Default	Description
Syslog on WAN		
Server 1 IP Address	Empty	Enter IP address of first syslog server.
Server 2 IP Address	Empty	Enter IP address of second syslog server.
Send to Email	Disable	Enables or disables the send to e-mail function.
E-mail Server		
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
Email From		
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.
Email To		
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	60 minute(s)
<input type="checkbox"/>	<input type="checkbox"/>	System Boot Notice	Once system reboots, the log will be sent	When system reboot
<input type="checkbox"/>	<input type="checkbox"/>	System Manager Activity Information	A log will be sent if system manager (Administrator, Supervisor or Account Manager) login to or logout from the device	When system manager login or logout
Subscriber				
Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	Wireless Association Information	A log including wireless users information will be sent according to specified interval time	60 minute(s)
<input type="checkbox"/>	<input type="checkbox"/>	Logged-in Users	A login users information will be sent according to specified interval time	60 minute(s)
Proprietary Accounting				
Syslog	Email	Syslog Name	>Description>	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	Account Created	A log will be sent once after an account is created	When an account is created
<input type="checkbox"/>	<input type="checkbox"/>	Account Activated	A log will be sent once after an account is activated	When an account is activated
<input type="checkbox"/>	<input type="checkbox"/>	Subscriber Trace	A log including subscribers login/logout time will be sent once after subscriber logout	When subscriber logout
Billing				
Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	Billing Log	A log would be sent after a billing log is created	When log created
LAN Devices Management Category				
Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	LAN Devices Information	A log including current LAN Devices Status will be sent according to specified interval time	60 minute(s)
<input type="checkbox"/>	<input type="checkbox"/>	LAN Devices Alarm	A log will be sent if one of the LAN Devices detected result is "Fail"	When device fail
<input type="button" value="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
System		
Syslog Information	60 minutes	<p>The log included system information would be sent according to specified interval time.</p> <p>Format: (Id, Mac Address) (System Uptime, 0 days 00h:04m:00s) (Location Name, Location Name) (WAN, FrameTxOK, FrameRxOK, FrameTxError, FrameRxError) (LAN, FrameTxOK, FrameRxOK, FrameTxError, FrameRxError) (Wireless, FrameTxOK, FrameRxOK, FrameTxError, FrameRxError)</p>
System Boot Notice	When System reboot	<p>If device have been rebooted, the log would be sent.</p> <p>Format: (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>Format:</p> <p>(Id, Mac Address) (System Account Activity Information, Username, User IP, Status)</p> <p>Username: Administrator Supervisor Accounting Operator</p> <p>Status: Login Logout Idle Time Out</p>
Subscriber		
Wireless Association Information	60 minutes	<p>A log included wireless associated users information would be sent according to specified interval time.</p> <p>Format:</p> <p>(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>Format:</p> <p>(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>Type: Dynamic Super User agreement No Authentication</p> <p>If the type of Logged-in user is Super Subscriber, Username will be "*****".</p> <p>If the build-in account mode is disabled, Username is "Anonymous".</p>
Proprietary Accounting		
Account Created	When an account is created.	<p>A log would be sent if account were created.</p> <p>Format:</p> <p>(Id, Mac Address) (Account Create, Type, S/N, Username, Unit, Account usage time, Billing profile information)</p> <p>Type: TimeToFinish Accumulation PostPaid</p> <p>Billing profile information: [index, name]</p> <p>Account usage time: 00:59:59 (example)</p>
Account Activated	When an account is activated	<p>A log would be sent if account were activated.</p> <p>Format:</p> <p>(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>Format:</p> <p>(Id, MAC Address) (Subscriber Trace, Type, Event, S/N, Username, User IP, User MAC, Interface, Login time, Logout</p>

		time, Usage Time, Time Left, RxData count, TxData count) Type: TimeToFinish Accumulation PostPaid Super Event: Finished Replenished Logout Idle-Timeout Account Expired Deleted If the type of Subscriber Trace is Super, the Username will be "*****", and S/N will be "*****". Usage time: 00:59:59 (example)
--	--	--

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
Billing		
Billing Log	When log created	A log would be sent after a billing log is created. Format: (Id, MAC Address) (Billing Log, Type, S/N, Username, Billing profile information, Units, Usage time, Bill, Payment) Type: TimeToFinish Accumulation PostPaid Billing profile name: [Name] Usage time: "00:59:59" (example) Billing profile information: [index, name] Payment: Cash Credit Card "Credit Card" does not support "PostPaid". If Type is "PostPaid", the billing profile information and Units will be "**".
Item	Interval Time	Description
LAN Devices Management Category		
LAN Devices Information	60 minutes	A log including current LAN Devices Status will be sent according to specified interval time. Format: (Id, MAC Address) (LAN Devices Information, Number of devices, Start Number, End number) (Device name, Status)(...)(...)
LAN Devices Alarm	When device fail	A log will be sent if one of the LAN Devices detected results is "Fail". Format: (Id, MAC Address) (LAN Device Alarm, Device name, FAIL)



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.

 The "SESSION TRACE" configuration screen. At the top, "Session Trace" is set to "Disable" in a dropdown menu. Below are two text input fields: "Primary TFTP Server IP Address" and "Secondary TFTP Server IP Address". Further down is a text input field for "Send Session Trace log file every" with the value "10" and the unit "minutes. (5~1440)". A note below this field states: "(Note: Session Trace log file will be sent also when collected 50 logs)". An "Apply" button is located at the bottom right.

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.

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.
	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:

SNMP Port: (161 or 16100 ~ 16199)

Trap Port: (162 or 16200 ~ 16299)

No	Community Name	NMS Address	Privileges	Status
1	<input type="text" value="public"/>	<input type="text" value="ANY"/>	<input type="button" value="Read"/>	<input type="button" value="Valid"/>
2	<input type="text" value="private"/>	<input type="text" value="ANY"/>	<input type="button" value="Write"/>	<input type="button" value="Valid"/>
3	<input type="text"/>	<input type="text" value="ANY"/>	<input type="button" value="Read"/>	<input type="button" value="Invalid"/>
4	<input type="text"/>	<input type="text" value="ANY"/>	<input type="button" value="Read"/>	<input type="button" value="Invalid"/>
5	<input type="text"/>	<input type="text" value="ANY"/>	<input type="button" value="Read"/>	<input type="button" value="Invalid"/>

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.

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

3.2.24 Wireless

WIRELESS

General Settings

ESSID:
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

☐ 802.1X

Encryption: ☒ 64 bit ☐ 128 bit
Re-Key Time: seconds
Server IP:
Authentication Port:
Shared Secret Key:

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:1~1000, default:200)

RTS Threshold

(range:256~2432, default:2432)

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

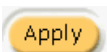
Default

Apply

Figure 3-155 Wireless Setting Screen

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 WSG-403 supports 64-bit or 128 bit WEP encryption.
Mode	HEX	Options: HEX (Hexadecimal) and ASCII (American Standard Code for Information Interchange).
WEP Key	1	<p>This selects which of the Keys the WSG-403 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>

Item	Default	Description
802.1x	Disable	Enables or disables the 802.1x function.
Encryption	64 bit	The WSG-403 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 WSG-403 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 WSG-403, or in areas where the clients are far apart and can detect only the WSG-403 and not each other.
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 WSG-403 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>Open System—Allows any device to authenticate and then attempt to communicate with the WSG-403. Using open authentication, any wireless device can authenticate with the WSG-403, but the device can only communicate if its WEP keys match the WSG-403. Devices not using WEP do not attempt to authenticate with a Wireless Service Gateway that is using WEP.</p> <p>Shared Key—During shared key authentication, the WSG-403 sends an unencrypted challenge text string to any device attempting to communicate with the WSG-403. The device-requesting authentication encrypts the challenge text and sends it back to the WSG-403. If the challenge text is encrypted correctly, the WSG-403 allows the requesting device to authenticate. Both the unencrypted challenge and the encrypted challenge can be monitored, however, which leaves the WSG-403 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>Both—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 ?

Figure 3-156 Restart Dialog Box



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:	<input type="text" value="1001"/> (1001~1005)																				
Encryption:	<input checked="" type="radio"/> Disable <input type="radio"/> Enable Secret key: <input type="text"/> (max. 8 characters)																				
Ethernet Thermal Printer IP Address:	<table border="1"><tr><td>1.</td><td><input type="text" value="10.59.1.250"/></td></tr><tr><td>2.</td><td><input type="text"/></td></tr><tr><td>3.</td><td><input type="text"/></td></tr><tr><td>4.</td><td><input type="text"/></td></tr><tr><td>5.</td><td><input type="text"/></td></tr><tr><td>6.</td><td><input type="text"/></td></tr><tr><td>7.</td><td><input type="text"/></td></tr><tr><td>8.</td><td><input type="text"/></td></tr><tr><td>9.</td><td><input type="text"/></td></tr><tr><td>10.</td><td><input type="text"/></td></tr></table>	1.	<input type="text" value="10.59.1.250"/>	2.	<input type="text"/>	3.	<input type="text"/>	4.	<input type="text"/>	5.	<input type="text"/>	6.	<input type="text"/>	7.	<input type="text"/>	8.	<input type="text"/>	9.	<input type="text"/>	10.	<input type="text"/>
1.	<input type="text" value="10.59.1.250"/>																				
2.	<input type="text"/>																				
3.	<input type="text"/>																				
4.	<input type="text"/>																				
5.	<input type="text"/>																				
6.	<input type="text"/>																				
7.	<input type="text"/>																				
8.	<input type="text"/>																				
9.	<input type="text"/>																				
10.	<input type="text"/>																				

Figure 3-157 Account Generator Printer Setting Screen

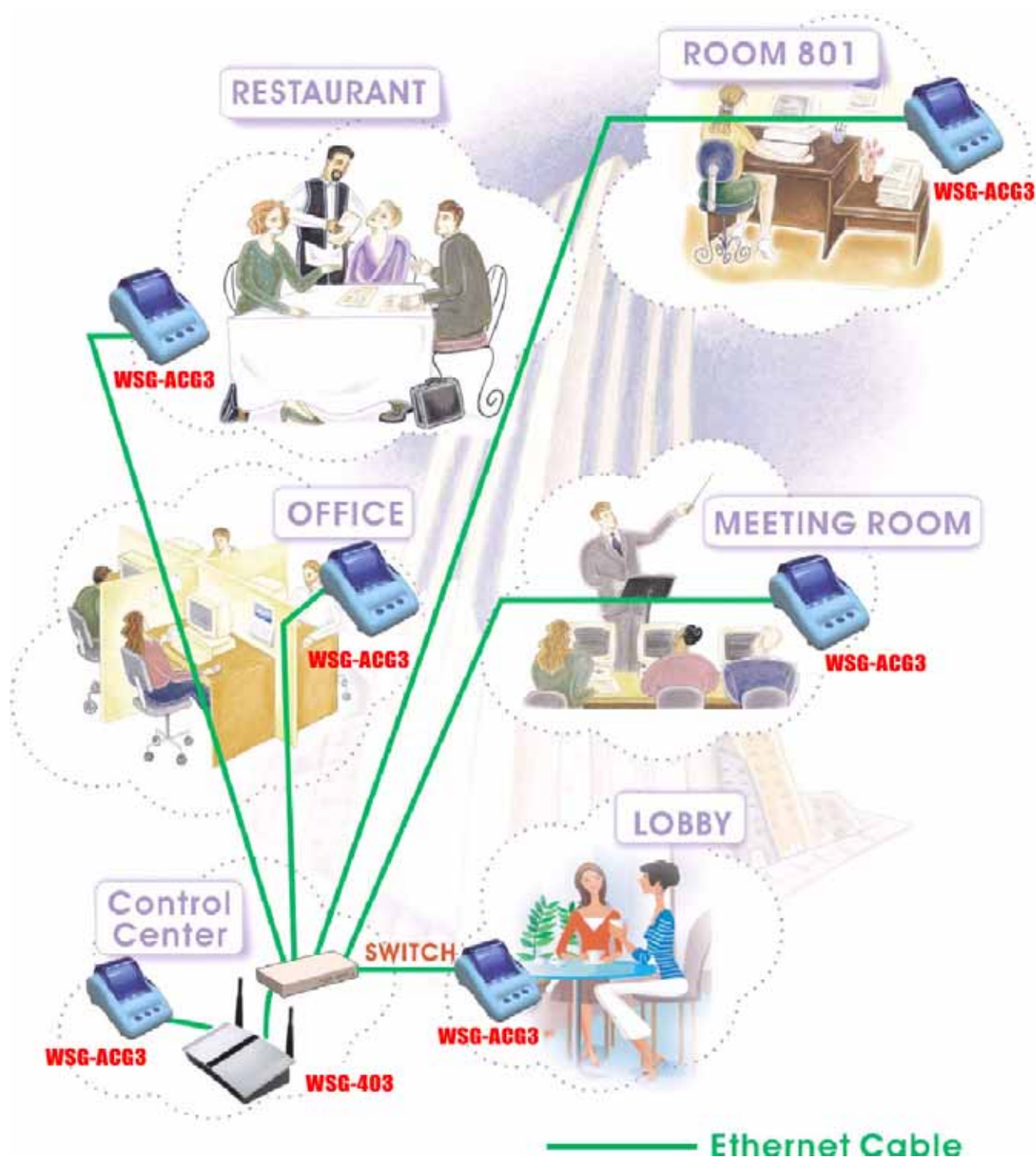


Figure 3-158 Application

3.3 System Status

Display WSG-403 system basic status, including,

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

▶	SYSTEM
▶	ACCOUNT LIST
▶	ACCOUNT LOG
▶	CURRENT USER
▶	DHCP CLIENTS
▶	SESSION LIST
▶	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	Richard
	Domain Name	planet.com.tw
	Firmware Version	1.00.03
	Wireless Version	1.0.4
	Bootrom Version	1.02
	WAN MAC Address	00:90:0E:01:11:C5
	LAN MAC Address	00:90:0E:01:11:C4
	System Time	2004/12/9 18:52:04
	System Up Time	00D:02H:58M:55S
LAN IP	IP Address	192.168.0.1
	Subnet Mask	255.255.255.0
WAN IP	WAN Port Mode	Static IP
	IP Address	210.66.155.89
	Subnet Mask	255.255.255.224
	Gateway IP address	210.66.155.94
DNS	Primary DNS Server	139.175.252.16
	Secondary DNS Server	168.95.1.1
DHCP	DHCP Status	Server
	Start IP Address	192.168.0.2
	End IP Address:	192.168.0.254
	Lease Time	300
Wireless	ESSID	Wireless
	Channel	6
	Secure Mode	Disable
E-Mail		

Figure 3-160 System Status Screen

Network Traffic	WAN Traffic	Tx Data: 252210 Rx Data: 4397041 Tx Error: 0 Rx Error: 0
	LAN Traffic	Tx Data: 4994896 Rx Data: 1106482 Tx Error: 0 Rx Error: 0
	Wireless Traffic	Tx Data: 2255 Rx Data: 53 Tx Error: 7844 Rx Error: 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

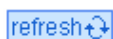
Figure 3-161 System Status Screen

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.							
<input type="button" value="S/N"/>	<input type="button" value="Status"/>	<input type="button" value="Username"/>	<input type="button" value="Usage Time"/>	<input type="button" value="Time Created"/>	<input type="button" value="Login Time"/>	<input type="button" value="Time Left"/>	<input type="button" value="Delete"/>
000005	In-used	x9yij837	2:00:00	2004/12/13 18:40:37	2004/12/13 19:20:04	1:59:50	<input type="checkbox"/>
000006	Un-used	w43ch428	2:00:00	2004/12/13 19:20:18		2:00:00	<input type="checkbox"/>
<input type="button" value="GO"/> 1 <input type="button" value="Page"/>						<input type="button" value="Delete"/> <input type="button" value="Delete All"/>	
<input type="button" value="First"/>		<input type="button" value="Previous"/>		<input type="button" value="Next"/>		<input type="button" value="End"/>	

Figure 3-162 Account List



Click on refresh button to update the account list page.

<input type="button" value="S/N"/>	<input type="button" value="Status"/>	<input type="button" value="Username"/>	<input type="button" value="Usage Time"/>	<input type="button" value="Time Created"/>	<input type="button" value="Login Time"/>	<input type="button" value="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.

CURRENET USER

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

No.	Type	IP Address	MAC Address
1	Non_Auth	192.168.0.2	00:0C:6E:0D:B7:E2

GO 1 Page First Previous Next End

Figure 3-166 Current User List (No Authentication)



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

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

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



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



Disconnect all accounts in current user list.

3.3.5 DHCP Clients

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

DHCP CLIENTS

DHCP Client's Information, including assigned IP address and MAC address.

No.	MAC Address	IP Address
1	00:0C:6E:0D:B7:E2	192.168.0.2
2	00:0F:EA:61:37:98	192.168.0.3

Figure 3-167 Current User Screen

3.3.6 Session List

The remote site administrator could monitor the real time usage status of WSG-403 via this page.

SESSION LIST

List of sessions of Network events, and records or the newest 2048 incoming and outgoing packet information, including source IP address, destination IP address, and port number.

No.	TCP/UDP	Client IP	Client Port	Port Fake	Remote IP	Remote Port	Idle
1	UDP	192.168.0.2	1114	50001	168.95.1.1	53	25
2	TCP	192.168.0.2	1432	50004	210.244.31.247	80	0
3	TCP	192.168.0.2	1436	50008	202.43.194.245	80	0
4	TCP	192.168.0.2	1437	50009	210.244.31.247	80	0
5	TCP	192.168.0.2	1439	50011	202.43.194.245	80	0
6	TCP	192.168.0.2	1442	50014	210.244.31.233	80	0
7	TCP	192.168.0.2	1443	50015	210.244.31.233	80	0
8	TCP	192.168.0.2	1445	50017	202.43.194.245	80	0
9	TCP	192.168.0.2	1446	50018	202.43.194.245	80	0

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 DEVICES

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 (60001~60050)	Device IP Address	Device Server Port	Device MAC Address	Application	Interface
1	Ethernet Switch	Fail	60001	192.168.0.100	80	00:30:4F:A7:EF:36	TCP	Wired

Click

Figure 3-169 LAN Devices Status Screen

Enter Network Password

Please type your user name and password.

Site: 192.168.0.100

Realm: index.htm

User Name: admin

Password: xxxxxx

☒ Save this password in your password list

OK Cancel

Figure 3-170 Example- Ethernet Switch Management Screen

3.4 System Tools

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

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

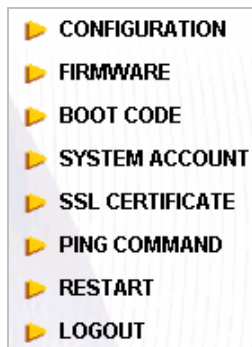


Figure 3-171 System Tools Item

3.4.1 Configuration

Use the Configuration item to save, restore or reset configuration parameters of the WSG-403.

CONFIGURATION

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

Backup

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

Remote TFTP Server IP Address:

File Name:

Restore

To restore your stored system configuration to this device.

Local PC File Path:

Remote TFTP Server IP Address:

File Name:

Reset the system back to factory defaults

☐ Keep subscriber profile

Figure 3-172 Configuration Setting Screen

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

3.4.2 Firmware Upgrade

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

● Manual Firmware Upgrade

FIRMWARE

Manual Firmware Upgrade

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

Local PC File Path

Remote TFTP Server IP Address

File Name

Figure 3-173 Manual Firmware Upgrade Setting Screen

Item	Default	Description
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:

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

● Scheduled Firmware Upgrade

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

FIRMWARE

Manual Firmware Upgrade
Scheduled Firmware Upgrade

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

☒ **Disable**
☐ **Enable**

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

[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.
View Sample File		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=1.00.03

Filename=wg403.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

BOOT CODE

To upgrade the Boot Code, click **Browse** to locate the file and click **Apply**

Local PC file Path 瀏覽...

Apply

Figure 3-176 Boot Code Upgrade Setting Screen

3.4.4 System Account

Use the System Account screen to change the system accounts.

SYSTEM ACCOUNT

Administrator Account
Administrator can fully control this system and modify all settings.

Username:

Password:

Confirm:

Web-based Accounting Manager
Web-based accounting manager can operate the proprietary web-based accounting system.

Username:

Password:

Confirm:

Supervisor Account
Supervisor can only view system status and change password.

Username:

Password:

Confirm:

Super Subscriber Account
Super subscriber is a built-in subscriber account for system test or premium usage.

Username:

Password:

Confirm:

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 **10.59.1.1** in your browser's location box. Press Enter.

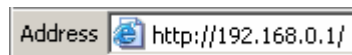


Figure 3-178 Web Browser Location Field (Factory Default)

Step 2: The WSG-403 configuration main menu will appear. Enter **admin** (default) as the Username and **admin** (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

refresh

System			
System/Host Name	Richard	Firmware Version	1.00.03
Location Name		Domain Name	planet.com.tw
System Time	2004/12/9 19:28:38	System Up Time	00D:03H:35M:28S
WAN MAC address	00:90:0E:01:11:C5	LAN MAC address	00:90:0E:01:11:C4
Network			
WAN Status	Established	WAN Type	Static IP
WAN IP Address	210.66.155.89	LAN IP Address	192.168.0.1
WAN Subnet Mask	255.255.255.224	LAN Subnet Mask	255.255.255.0
Default Gateway	210.66.155.94	DNS	139.175.252.16 168.95.1.1
Wireless			
Wireless Service	OK	ESSID	Wireless
Wireless Channel	6	Secure Mode	Disable
Traffic			
WAN	TxData:252336 RxData:5303569 TxError:0 TxError:0		
LAN	TxData:5220334 RxData:1300763 TxError:0 TxError:0		
Wireless	TxData:2259 RxData:53 TxError:8188 TxError:0		

refresh

Figure 3-180 System Quick View

● Web-Based Accounting Manager

Step 1: Start your Web browser and enter the factory default IP address **10.59.1.1** in your browser's location box. Press Enter.

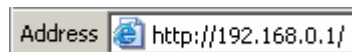


Figure 3-181 Web Browser Location Field (Factory Default)

Step 2: The WSG-403 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

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

Figure 3-183 Account Generator Panel

● Supervisor Account

Step 1: Start your Web browser and enter the factory default IP address **10.59.1.1** in your browser's location box. Press Enter.

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

Step 2: The WSG-403 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 WSG-403 configuration homepage will appear.

Wizard Setup Advanced Setup System Status System Tools Help			
System Quick View			
System			
System/Host Name	Richard	Firmware Version	1.00.03
Location Name		Domain Name	planet.com.br
System Time	2004/12/9 19:39:04	System Up Time	000:03H:45M:55S
WAN MAC address	00:10:DE:D1:11:C5	LAN MAC address	00:90:DE:D1:11:C4
Network			
WAN Status	Established	WAN Type	Static IP
WAN IP Address	255.255.255.255	LAN IP Address	192.168.0.1
WAN Subnet Mask	255.255.255.255	LAN Subnet Mask	255.255.255.0
Default Gateway	210.86.195.94	DNS	139.175.252.16 100.96.1.1
Wireless			
Wireless Service	ON	ESSID	Wireless
Wireless Channel	6	Secure Mode	Disable
Traffic			
WAN	TxData:252420 RxData:548055 TxError:0 TxError:0		
LAN	TxData:999512 RxData:136393 TxError:0 TxError:0		
Wireless	TxData:2361 RxData:53 TxError:0 TxError:0		

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.

Welcome	
Hot Spot Internet Service	
Username:	<input type="text"/>
Password:	<input type="password"/>
<input type="button" value="Enter"/> <input type="button" value="Cancel"/>	

Username: **super**
 Password: **super**

Figure 3-187 Subscriber Login Page

3.4.5 SSL Certificate

The function allows you to download the registered CA certificate into the WSG-403.

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

Figure 3-188 SSL Certificate Download Setting Screen

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

3.4.6 Ping Command

The Ping function can check the WSG-403 networking connectivity or not.

PING

This feature allows you to execute ping command.

Pinging www.planet.com.tw [211.75.117.112] with 32 bytes of data:

```
Reply from: 211.75.117.112: bytes=32 time=40ms TTL=55
Reply from: 211.75.117.112: bytes=32 time=40ms TTL=55
Reply from: 211.75.117.112: bytes=32 time=40ms TTL=55
Reply from: 211.75.117.112: bytes=32 time=40ms TTL=55
```

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 WSG-403 is not operating correctly, you can choose this option to display the restart WSG-403 screen. Clicking the apply button restart the WSG-403, with all of your settings remaining intact.

RESTART

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

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 ?

Figure 3-191 Logout Screen

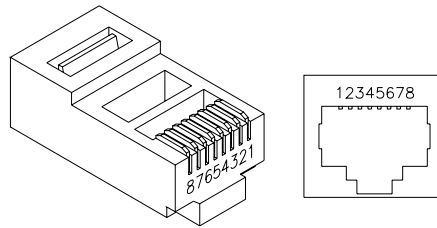
Appendix A Signal Connection Arrangements

RJ-45 Ethernet Port

The WSG-403 RJ-45 Ethernet port can connect to any networking devices that use a standard LAN interface, such as a Hub/Switch Hub or Router. Use unshielded twisted-pair (UTP) or shield twisted-pair (STP) cable to connect the networking device to the RJ-45 Ethernet port.

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

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



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

Figure A-1 RJ-45 Connector and Cable Pins

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

Appendix B Regulations/EMI Compliance

FCC Regulatory Statement

Part 15-Class B compliant device

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

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

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

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

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

LIMITED WARRANTY

WSG-403

What the warranty covers:

We warrant its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, we will at its sole option repair or replace the product with a like product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

How long the warranty is effective:

The Easy Hotspot Kit is warranted for one year for all parts and one year for all labor from the date of the first consumer purchase.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product, on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
 - a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - b. Repair or attempted repair by anyone not authorized by us.
 - c. Any damage of the product due to shipment.
 - d. Removal or installation of the product.
 - e. Causes external to the product, such as electric power fluctuations or failure.
 - f. Use of supplies or parts not meeting our specifications.
 - g. Normal wears and tear.
 - h. Any other cause that does not relate to a product defect.
3. Removal, installation, and set-up service charges.

How to get service:

1. For information about receiving service under warranty, contact our **Customer Support**.
2. To obtain warranted service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address (d) a description of the problem and (e) the serial number of the product.
3. Take or ship the product prepaid in the original container to your dealer, and our service center.
4. For additional information, contact your dealer or our **Customer Service Center**.

Limitation of implied warranties:

THERE ARE NOWARRANTIED, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Exclusion of damages:

Our LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. We SHALL NOT BE LIABLE FOR:

1. DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE WITH BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
3. ANY CLAIM AGAINST THE CUSOMER BY ANY OTHER PARTY.