

Hot Spot

Wireless Subscriber Gateway

WSG-401

User's Manual



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Revision

User's Manual for PLANET Hot Spot WSG-401:

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1. Introduction

Inheriting the convenience of Plug-n-Play Internet access, the PLANET WSG-401 is the ideal solution for establishing Hot Spot Internet service applications. Via built-in billing mechanism and integrated with receipt printing capabilities makes the PLANET WSG-401 suitable for providing Internet access of businesses and public areas applications, such as hotel, cyber café, train stations, school libraries and airports.

The PLANET WSG-401 comprises 802.11b+, wireless access point, interface, a 4-port auto-sensing, auto-MDI/MDI-X 10/100Mbps switch, and a standard 10/100Base-TX WAN port providing superior Internet access for wired, and wireless subscribers. Internet subscriber gateway WSG-401 combines all the functionalities in a single, tiny box, WSG-401 can work independently, no enormous RADIUS system integration, and no much computer expertise required, this benefit customer to deploy their Hot Spot business faster and easier than ever. WSG-ACG, a compact thermal printer allowing machine operators, clerks and cashiers to print out billing information.

1.1 Package Contents

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

- I One WSG-401
- I Two antennas
- I One AC Power Adapter for WSG-401
- I One CD containing User's Manual
- I One Quick Installation Guide
- I Two screws for wall-mount
- I 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.

1.2 Features

- I Ideal Hot Spot solution

Via the integrated 802.11b wireless interface, mobile users can establish high speed Internet access without any configuration.

- I Zero configuration (Plug-n-Play) Internet access

WSG-401 translates proper IP address information for Internet access, all IP configurations, DHCP, Private IP or Static IP information will be turned into Internet-ready configurations. Subscribers won't feel the difference, and no need to face to the inconvenience of IP reconfigurations.

- I Built-in proprietary AAA mechanism and billing system

PLANET WSG-401 integrates Web-based Authentication (including subscriber SSL logon page),

selective Web-based Accounting, and proprietary billing mechanism, which can help you prepare a billing mechanism in a very short time, and billing system in WSG-401 works without RADIUS system, and bring most convenience, the least efforts for billing applications.

I Exclusive Printer Accounting

Machine operators may customize the printout information for different billing application.

I Security and Firewall

With built-in 64/128/256-bit RC4 WEP Encryption, VLAN Security for Wireless, subscriber SSL Login Page / Admin Page, VPN (IPSec/PPTP) Pass through.....various security features, PLANET WSG-401 bring you an ease-f-use and most comfort safe Internet access environment.

I Ease-of-Use and Management

The built-in web management interface in WSG-401 brings most convenience to system administrators or machine operators while configuring machine or setting up subscriber privileges in movements. With time increments, clerks or machine operators may print out, billing and other user information with time increments are conveniently printed on the button-operated printer included with the PLANET WSG-401. Time increments may be compiled simply by pressing the printer button multiple times. No computers or complex back-end subscriber management systems are required for deployment.

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

1.3 WSG-401 Outlook



Figure 1-1 WSG-401 Outlook

1-3-1 Top Panel

The top panel of the WSG-401 is shown below.

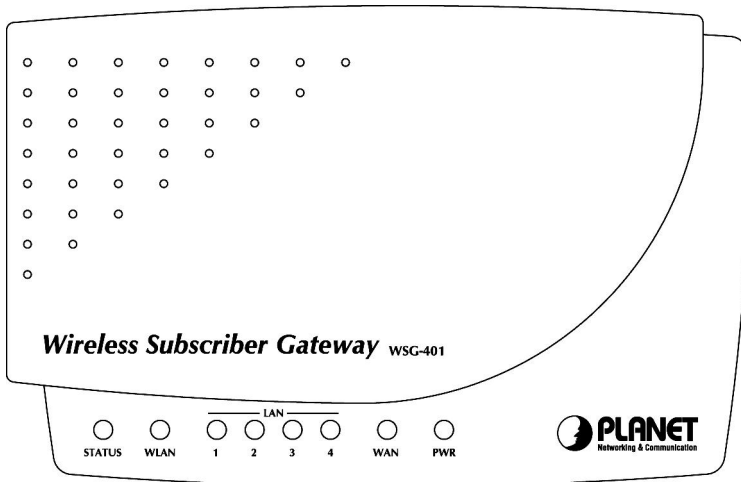


Figure 1-2 WSG-401 Top Panel

LEDs Indication

LED	State	Description
Power	Off	WSG-401 is not receiving electrical power.
	Green	WSG-401 is receiving electrical power.
WAN	Green	The WAN port is used to connect your xDSL or Cable modem.
	Green (Blinking)	Data is in transmitting and receiving on WAN port.
LAN (1-4)	Green	A port has established a valid 10/100Mbps network connection.
	Green (Blinking)	10/100Mbps traffic is traversing the port.
	Off	Port has not established any network connection.
Wireless	Green	The WSG-401 has established a valid wireless connection.
	Green (Blinking)	The Wireless connection is active.
Status	Off	The WSG-401 status is defective.
	Green (Solid)	WSG-401 status is complete.
	Green (Blinking)	During firmware upgrades, this status LED will blink.

1-3-2 Rear Panel

Rear panel of PLANET WSG-401 is shown below.

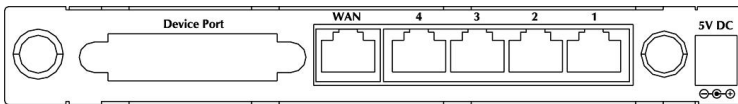


Figure 1-3 WSG-401 Rear Panel

1. Power Jack:

Used to connect the external power supply with PLANET WSG-401 device.

2. LAN Port:

WSG-401 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 networking device.

3. WAN Port:

One RJ-45 port used for linking xDSL or Cable Mode

4. Device Port

Used to connect the Thermal Printer WSG-ACG.

1-3-3 Left Side Panel

The left side panel of the WSG-401 is shown below.

1. Reset Button:

WSG-401 integrates a reset button at the left side panel of the device. Under some circumstances you might need to reset the device.

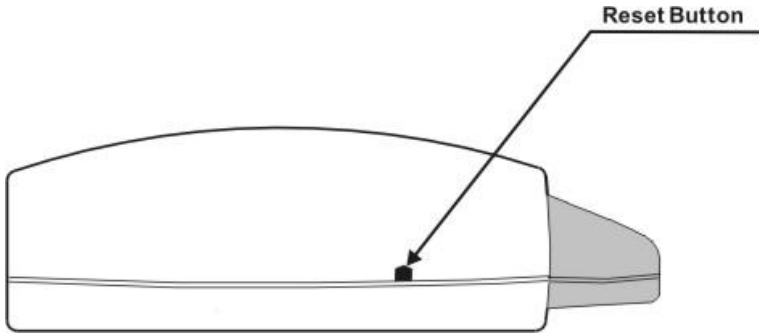


Figure 1-4 WSG-401 Left Side Panel

1.4 Technical Specifications

1-4-1 Hardware Specifications

Network Specification

IEEE802.3 10BaseT Ethernet
IEEE802.3u 100BaseTX Fast Ethernet
IEEE802.11b Wireless LAN
ANSI/IEEE 802.3 NWay auto-negotiation
Wi-Fi Compatible

Connectors

Four LAN Ports (10BaseT/100BaseTX Auto cross-over)
One WAN Port (10BaseT/100BaseT)
One Device Port (1 DB25 male RS232 for external device application)

Wireless Operation Range

Open Space: 100~300m
Indoors: 35~100m

Wireless Data Rate

22 Mbps, 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps

Encryption

64/128/256-bit RC4

External Antenna Type

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

Power Requirement

External Power Adapter

Input: 100-240 VAC, 50/60 Hz

Output: 5V, min 1.4A

LED Indicators

One POWER LED

One WAN Link/Activity LED

Four LAN Link/Activity LEDs

One Wireless Link/Activity LED

One Status LED

Dimension

Size: 200(L) x 130(W) x 44(H) mm

Weight: About 400g (Net)

Environment Conditions

Operating Temperature: 0 to 50°C

Operating Humidity: 10~90% non-condensing

Certifications

FCC part 15 Class B, CE, Class B, UL,

CE , C-Tick

Mounting

Desktop, Wall mounted

1-4-2 Software Specifications

Networking

- IEEE802.3 10BaseT Ethernet
- IEEE802.3u 100BaseTX Fast Ethernet
- Supports 100 Simultaneous Users
- IP Plug and Play (iPnP)
- HTTP Proxy Support
- WEP Data Encryption
- SMTP Server Redirection
- DHCP Server
- DHCP Relay
- Static IP WAN Client
- DHCP WAN Client
- PPPoE WAN Client
- PPTP WAN Client
- NAT
- IP Routing
- NTP (Network Time Protocol) Support
- IP Multicast support

Marketing Cooperation

- Advertisement URL link
- Walled garden
- Customize Login Page
- Portal Page

AAA / Billing

- Built-in Authentication
- Web-based Login Page Authentication
- Exclusive Printer Accounting without PC operating
- Web-based Accounting
- Flexible Billing Profiles and Price Plan
- Flexible Billing Mechanism (Pre-Paid and Post-Paid)
- Flexible Time Mechanism (Time to Finish and Accumulation)
- Credit Card Support (Authorize.net and iTable)
- External PS/2 Keypad Support

Security

- Layer 2 Isolation
- SSL Login Page
- SSL Administration
- VPN Pass through (IPSec/PPTP/L2TP)
- Customize SSL Certificate
- Pass through Destination IP/URL
- Pass through Source IP/MAC
- Restricted Destination Filtering IP/URL
- Share LAN Resources

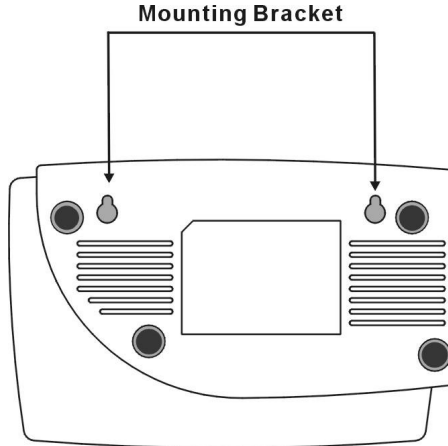
Management

- Administrator/Super Subscriber/Account Manager Management Access
- Remote Browser-based Configuration and management
- Authorized remote management (Access Control List)
- Firmware Upgrade via HTTP/TFTP
- Scheduled Firmware Upgrade
- Backup/Restore/Factory Default Setting
- LAN Device Management
- Dynamic DNS
- System Information Table
- Real-time Current User List / DHCP Clients List / Session List / Account List
- Syslog
- Status Report (Daily/Monthly/System/Network)

2. Installation

Following sessions are physical installation steps of WSG-401. Please refer to the illustration and follow the steps below to complete the installation of your device.

2.1 Wall-Mounting



The WSG-401 can be wall-mounted on a wall by applying the two mounting brackets on screws.

Figure 2-1 Wall-Mounting Bracket - Bottom of WSG-401

Please refer to the following instructions for mounting a WSG-401 on a wall or other surface.

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

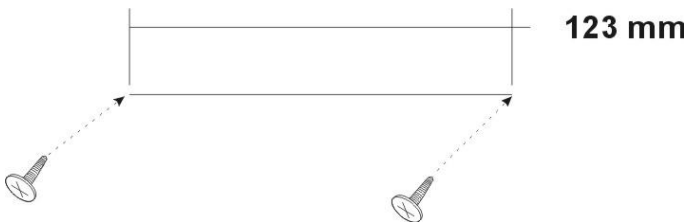


Figure 2-2

2. Hang WSG-401 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-401 rear panel connectors could pull out the WSG-401 from the wall.

2.2 Connecting the Antennas

PLANET WSG-401 provides two antenna connectors on the rear of the unit for wireless subscribers.

2.3 Installation Requirements

Before installing the WSG-401, make sure your network meets the following requirements.

System Requirements

The WSG-401 requires one of the following types of software:

- I Windows 98 Second Edition/NT/2000/XP
- I Red Hat Linux 7.3 or later version
- I MAC OS X 10.2.4 or later version
- I Any TCP/IP-enabled systems like Mac OS and UNIX (TCP/IP protocol installed)
- I Standard phone line for xDSL modem
Or Coaxial cable for Cable modem
- I Web Browser Software (Microsoft I.E 5.0 or later version or Netscape Navigator 5.0 or later version)
- I One computer with an installed 10Mbps, 100Mbps or 10/100Mbps Ethernet card
- I UTP network Cable with a RJ-45 connection (Package contents)

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

ISP Requirements

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

Dynamic IP

- I Dynamic IP Setting

Fixed IP

- I Your fixed IP address for the WSG-401
- I Your subnet mask for the WSG-401
- I Your default gateway IP address
- I Your DNS IP address

PPPoE

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

PPTP

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

Your PC Requirements**The Static IP settings for the PC**

- I Your PC's fixed IP address
 - I Your PC's subnet mask
 - I Your PC's default gateway IP address
 - I 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 "255.0.0.0".
-

The Dynamic IP settings for the PC

We recommend that you leave your IP settings as automatically assigned. By default, WSG-401 is a DHCP server, and it will give your PC the necessary IP settings.

2.4 Getting Start

1. Place the WSG-401 and Mini account generator printer on a flat work surface.
2. Connect the DB25 connector of printer cable into the device port on the rear of the WSG-401.
3. Plug the other end of the printer cable into the RJ11 port of the mini account generator printer. Check that the account generator printer status LED lights.
4. Ensure that your modem and computer are both switched on.
5. Use the supplied cable to connect the WSG-401'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-401. Check that the LAN Port

Status LED lights.

7. Configure the further parameters via a web browser.



Figure 2-1 WSG-401 Connection

3. Configuring the WSG-401

3.1 Setting Wizard

Step 1: Start your browser, and then enter the factory default IP address **192.168.0.1** in your browser's location box. Press **Enter**.

Step 2: The WSG-401 configuration tools menu will appear. In the Username and Password field, type the factory default user name (**admin**) and password (**password**) and click "**Getting Started**". 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.



Wireless Subscriber Gateway

Username:

Password:

Getting Started ▶ Setup Wizard
 Advanced Setup

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Figure 3-1 Configuration Tools Menu

Note:

F If you would like to change the password please see Step 10.

F Username and Password can consist of up to 20 alphanumeric characters and are case sensitive.

F If for some reason your password is lost or you cannot gain access to the WSG-401 Configuration Program, please press the reset button to load the device to manufacturer defaults.

F If the WSG-401 doesn't send packet in 5 minutes (default), the WSG-401 wills logout automatically.

F 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.

I DHCP Client

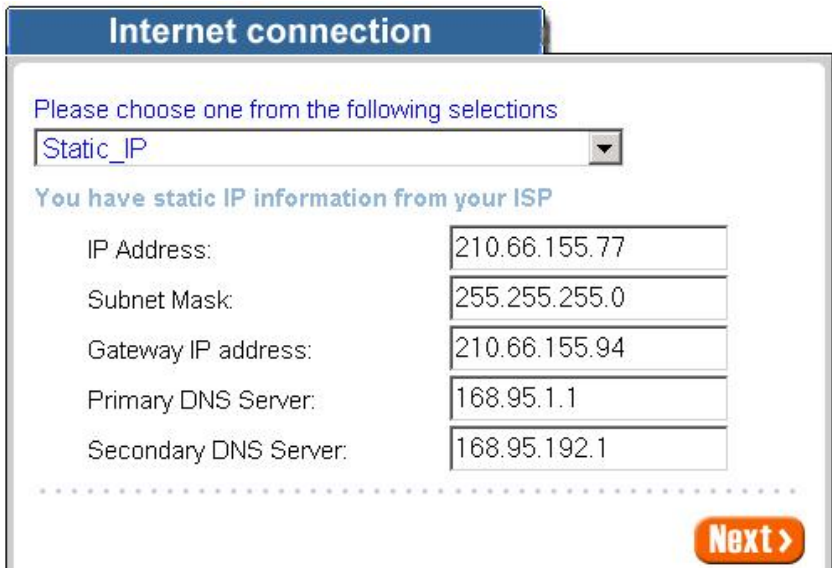
The screenshot shows a web-based configuration interface. At the top, there is a blue header bar with the text "Internet connection" in white. Below the header, the text "Please choose one from the following selections" is displayed in blue. A dropdown menu is shown with "DHCP Client" selected. Below the dropdown, the text "Your ISP will configure IP settings for you" is displayed in blue. A dotted line separates this text from a large orange button with the text "Next >" in white.

Figure 3-2 Internet Connection Setting Screen—DHCP Client Setting

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.

I Static IP Setting

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



The screenshot shows a window titled "Internet connection" with a blue header. Below the header, it says "Please choose one from the following selections" and has a dropdown menu with "Static_IP" selected. Below that, it says "You have static IP information from your ISP". There are five input fields with the following values: IP Address: 210.66.155.77, Subnet Mask: 255.255.255.0, Gateway IP address: 210.66.155.94, Primary DNS Server: 168.95.1.1, and Secondary DNS Server: 168.95.192.1. At the bottom right, there is an orange "Next >" button.

Figure 3-3 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 provided by your ISP.
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.

I 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:

TCP MSS Setting:

Service Name:

Connect on Demand

Keep alive

Max Idle Time: Min.

Redial Period: Sec.

Next >

Figure 3-4 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	Your ISP will provide the service name.

Item	Default	Description
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your WSG-401 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-401 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 check box. If you want your Internet connection to remain, click the check box 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	

I PPTP Client (Point-to-Point Tunneling Protocol)

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

Internet connection

Please choose one from the following selections

PPTP (Mostly for Europe ADSL modem users) ▼

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

My IP Address:

My Subnet Mask:

Gateway IP address:

PPTP Server IP Address:

Username:

Password:

PPP MTU Setting:

TCP MSS Setting:

Connection ID/Name:

Connect on Demand Max Idle Time: Min.

Keep alive Redial Period: Sec.

Figure 3-5 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 provided by your ISP.
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.

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.
Connection ID/Name	Empty	Enter the Connection ID or Connection Name.
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.
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your WSG-401 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-401 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 check box. If you want your Internet connection to remain, click the check box 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.

Step 4: Wireless Setting

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

Wireless Settings

ESSID:

Channel:

WEP Encryption:

- Disable
- 64 Bit**
- 128 Bit**
- 256 Bit**

Figure 3-6 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.
WEP Encryption	Disable	Disables or set the use of the WEP algorithm. Enabling the security can protect your data while it is transferred from one station to another. The WSG-401 supports 64-bit, 128 bit or 256 bit WEP encryption. Enter 5 characters for ASCII 64-bit WEP Key. Enter 13 characters for ASCII 128-bit WEP Key. Enter 29 characters for ASCII 256-bit WEP Key.

Step 5: E-mail Server Setting

WSG-401 allows an extra Email server parameter to forward the subscriber's E-mail.

Email Redirecting Service

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

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

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

No

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Figure 3-7 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-401 provides an extra Email server parameter to forward the subscriber's Email. The WSG-401 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 IP address or Domain name	Empty	Before setting this field, please make sure the E-mail sever relay function is opened. It 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

Authentication Settings

Do you need to authenticate users ?

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

No, The users can access the Internet without authentication

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Figure 3-8 Authentication Service Setting Screen

Item	Default	Description
Built-in Authentication/ No Authentication	No, No Authentication	No— Subscriber can direct access the Internet without entering username and password. Yes— WSG-401 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-401, and the system will authenticate the subscriber login according to the generated account.

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.

Billing Profile

What is your service and price plan ?

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

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

Service and Price Plan

Currency: \$ (Number of decimals places:)

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

Figure 3-9 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	The field maximum value is 3.
No	01~03	The index number of billing profile. In Wizard setup, we provide only 3 billing profile.
Name	30 minutes/ 1 hour/ 2 hours	It is the name of billing profile. The maximum allowed characters length is 12.
Usage Time	30 minutes/ 1 hour/ 2 hours	The duration of the billing period. When this period expires, user account will be discontinued.
Charge	1.00/2.00/3.00	Enter the amount of Internet service. The amount maximum value is 999999.

Step 8: Account Generator Printer Setting

There are two different choices, one is exclusive printer (Account Generator Printer), and the other is non-exclusive printer. Exclusive printer is a portable thermal printer that is integrated with WSG-401 to press button to generate accounts and receipt immediately without PC operating. Non-exclusive printer can use the PC Web-based browser to print out user account.

Account Generator

Do you have an "Exclusive Printer" connected ?

Yes

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

One-button Printer **Three-button Printer**

No

I can use the **PC web-based browser** to create account and print out the account information with PC-connected printer

< Back

Next >

Figure 3-10 Printer Setting

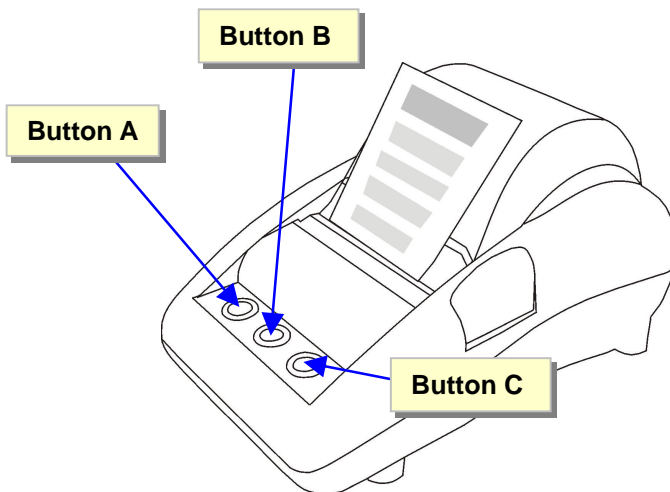


Figure 3-11 Account Generator WSG-ACG

Step 9: Account Generator Setting

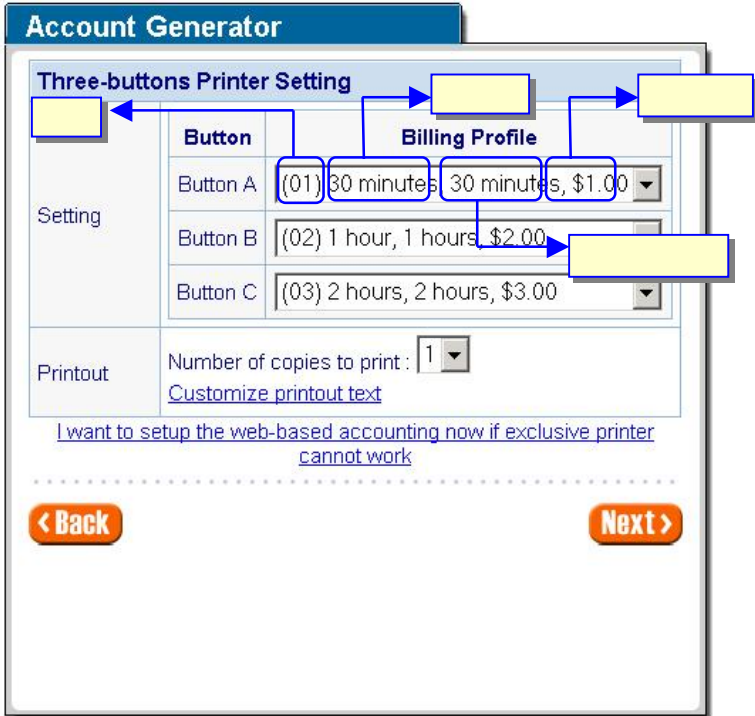


Figure 3-12

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.		

I Web-based Account Generator Setting

Account Generator

Preview / Operate

Web-based Account Generator 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 : ▼

[Customize printout text](#)

Please set your password for web-based account generator

Username

Password Confirm:

< Back
Next >

Figure 3-13 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. This value is number of copies.
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.

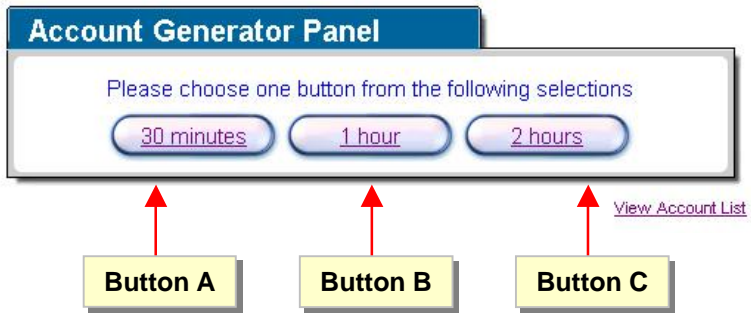


Figure 3-14 Account Generator Panel

Click on button to add a new account.

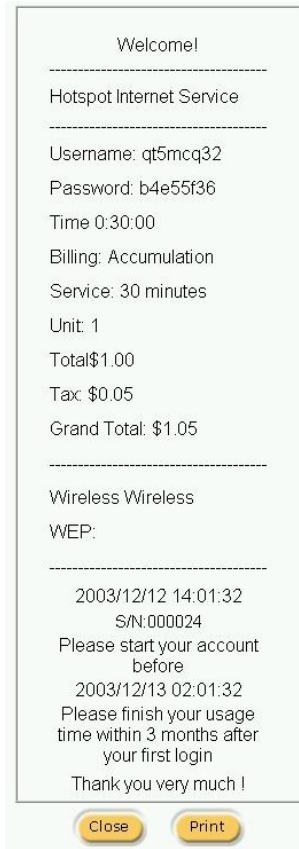


Figure 3-15 Example-Account Printout

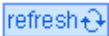
View Account List

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
000001	Un-used	fwsdm23	0:30:00	2003/11/10 14:40:20		2003/11/11 02:40:20	<input type="checkbox"/>
000002	Un-used	p3rix834	2:00:00	2003/11/10 14:41:04		2003/11/11 02:41:04	<input type="checkbox"/>
000003	Un-used	cq9ib424	1:00:00	2003/11/10 14:43:14		2003/11/11 02:43:14	<input type="checkbox"/>
000004	In-used	6nf77s27	0:30:00	2003/11/10 14:43:17	2003/11/10 14:44:57	2003/11/10 15:14:57	<input type="checkbox"/>

MGO 1 Page Delete Delete All
First Previous Next End

Figure 3-16 Account List



Click on refresh button to update the account list page.

SN	Status	Username	Usage Time	Time Created	Login Time	Expiration Time
----	--------	----------	------------	--------------	------------	-----------------

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



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



Delete all accounts in account list.

Note: This page will refresh automatically every 5 minutes.

Logout

If you would like to leave the account generator panel, please click Logout to exit.

Customize Printout Text [Customize printout text](#)

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

Account Printout Customization	
<input type="checkbox"/> Logo	* Only for PC-connected printer
Title:	Welcome! (Max.=24)
Subtitle:	Hotspot Internet Service (Max.=60)
Username:	Username: (Max.=24)
Password:	Password: (Max.=24)
Billing Method:	Billing: (Max.=24)
Billing Profile:	Service: (Max.=24)
Purchase Unit:	Unit: (Max.=24)
Usage Time:	Usage Time: (Max.=24)
<input checked="" type="checkbox"/> Price:	Total (Max.=24)
Tax:	Tax: (Max.=24) TOTAL: Grand Total: (Max.=24)
ESSID:	ESSID: (Max.=24)
WEP Encryption:	WEP: (Max.=24)
<input type="checkbox"/> Additional Label 1:	(Max.=24) Value: (Max.=24)
<input type="checkbox"/> Additional Label 2:	(Max.=24) Value: (Max.=24)
<input checked="" type="checkbox"/> Print out Time:	Format: yyyy/mm/dd HH:mm:ss (HH:24h hh:12h tt:AM/PM)
<input checked="" type="checkbox"/> Expiration Time:	Description: Please activate your account before (Max.=60) Format: yyyy/mm/dd HH:mm:ss (HH:24h hh:12h tt:AM/PM)
<input checked="" type="checkbox"/> Ending:	Thank you very much ! (Max.=24)

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

Apply

Figure 3-17 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:	1 day \$35.00
Unit:	1
Usage Time:	
Total	\$100.00
ESSID:	Wireless
WEP:	
S/N:000001	2003/11/10 15:00:37
Please activate your account before 2003/11/11 03:00:37	
Thank you very much !	
<input type="button" value="Close"/> <input type="button" value="Print"/>	

Figure 3-18 Example- PC-connected printer Printout

```

Welcome!
-----
Hotspot Internet Service
-----
Username:XXXXXXXX
Password:XXXXXXXX
Usage Time:
Billing: Time to Finish
Service: 1 day $35.00
Unit: 1
Total $ 100.00
-----
ESSID: Wireless
WEP:
-----

2003/11/10 15:02:34
S/N:000001
Please start your account before
2003/11/11 03:02:34
Thank you very much !




```

Figure 3-19 Example- Account Generator Printer Printout

Example Preview

1. Create accounts

Welcome!

S/N:001234

Hotspot Internet Service

Username: xxxxxxxx
Password: xxxxxxxx

ESSID: Wireless
WEP:
Add1:
Add2:

2002/08/28 14:39:07
Please activate your account
before 2002/08/29 02:39:07

Thank you very much!

Press **"ENTER"**

2. Bill accounts

Welcome!

S/N:001234

Hotspot Internet Service

Username: xxxxxxxx
Password: xxxxxxxx
Usage Time: 68 minutes
Total: \$ 34.00
Tax: \$ 1.70
Total: \$ 35.70

2002/08/28 14:39:07

Thank you very much!

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

Close

Figure 3-20 Example-Post-paid Printout

Step 10: System Setting

Figure 3-21 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	password	Enter the user password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
Confirm	Empty	Enter the password of administrator for confirmation.
System date and time	YYYY/MM/DD HH:MM:SS	<div style="border: 1px solid gray; padding: 2px; display: inline-block; margin-bottom: 5px;">Get from my Computer</div> Click "Get from my Computer" button to correct the system date and time.
Secure Administrator IP Address	All	This function allows remote user to management the device. You can specify one or any IP addresses for remote control the system.

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. Billing
6. Accounting
7. Credit Card
8. Keypad
9. Customization
10. Pass Through
11. Filtering
12. Share
13. Portal Page
14. Advertisement
15. Walled Garden
16. DDNS
17. LAN Devices
18. Syslog
19. Wireless



Figure 3-22 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-401 System configuration.

System												
System/Host Name	<input type="text"/>											
Domain Name	<input type="text"/>											
Location Information	Location Name: <input type="text"/> Max.=50											
	Address: <input type="text"/> Max.=200											
	City: <input type="text"/> Max.=50											
	State / Province: <input type="text"/> Max.=50											
	Zip / Postal Code: <input type="text"/> Max.=10											
	Country: <input type="text"/> Max.=50											
	Contact Name: <input type="text"/> Max.=50											
	Contact Telephone: <input type="text"/> Max.=50											
	Contact FAX: <input type="text"/> Max.=50											
Contact Email: <input type="text"/> Max.=50												
Date/Time	Date: <input type="text" value="2003"/> / <input type="text" value="11"/> / <input type="text" value="7"/> (Year/Month/Day)											
	Time: <input type="text" value="13"/> : <input type="text" value="51"/> : <input type="text" value="57"/> (Hour : Minute : Second)											
	<input type="button" value="Get from my Computer"/> <input type="button" value="Get from NTP server"/>											
	<input type="checkbox"/> NTP Setting											
	<table border="1"> <tr> <td>Server IP/Domain Name</td> <td><input type="text"/></td> </tr> <tr> <td>Time Zone</td> <td><input type="text" value="GMT-12:00"/></td> </tr> <tr> <td>Update Time</td> <td><input type="text" value="0"/> hours</td> </tr> <tr> <td><input type="checkbox"/> Daylight Saving Time</td> <td> <table border="1"> <tr> <td>From Date</td> <td><input type="text" value="4"/> Month / <input type="text" value="1"/> Day</td> </tr> <tr> <td>End Date</td> <td><input type="text" value="10"/> Month / <input type="text" value="31"/> Day</td> </tr> </table> </td> </tr> </table>	Server IP/Domain Name	<input type="text"/>	Time Zone	<input type="text" value="GMT-12:00"/>	Update Time	<input type="text" value="0"/> hours	<input type="checkbox"/> Daylight Saving Time	<table border="1"> <tr> <td>From Date</td> <td><input type="text" value="4"/> Month / <input type="text" value="1"/> Day</td> </tr> <tr> <td>End Date</td> <td><input type="text" value="10"/> Month / <input type="text" value="31"/> Day</td> </tr> </table>	From Date	<input type="text" value="4"/> Month / <input type="text" value="1"/> Day	End Date
Server IP/Domain Name	<input type="text"/>											
Time Zone	<input type="text" value="GMT-12:00"/>											
Update Time	<input type="text" value="0"/> hours											
<input type="checkbox"/> Daylight Saving Time	<table border="1"> <tr> <td>From Date</td> <td><input type="text" value="4"/> Month / <input type="text" value="1"/> Day</td> </tr> <tr> <td>End Date</td> <td><input type="text" value="10"/> Month / <input type="text" value="31"/> Day</td> </tr> </table>	From Date	<input type="text" value="4"/> Month / <input type="text" value="1"/> Day	End Date	<input type="text" value="10"/> Month / <input type="text" value="31"/> Day							
From Date	<input type="text" value="4"/> Month / <input type="text" value="1"/> Day											
End Date	<input type="text" value="10"/> Month / <input type="text" value="31"/> Day											
NAT (Network Address Translation)	<input checked="" type="radio"/> Enable <input checked="" type="checkbox"/> IP Plug and Play (iPNP Technology) <input 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											
	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"/>												
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 3-23 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-401. The valid setting of year is from 2002 to 2035.
Time (Hour:Minute:Second)	System Time	The system time of the WSG-401.
<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.
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-401. Adjust the begin time and end time.
NAT (Network Address Translation)		
NAT	Enable	Enables or disables NAT Address Translation function.
Plug and Play Internet access	Enable	Enables or disables plug & play Internet function. When enabled, the user needn't change their network configuration to access the Internet.

Item	Default	Description
DNS Fake IP Reply	Enable	While Internet servers on your LAN such as proxy server and SMTP server require IP addresses, it is often not necessary to assign real IP addresses to each end-user workstation on a LAN. NAT is the process of assigning fake IP addresses to network devices, then translating them into a real IP address for Internet communication.
Layer 2 Isolation Security	Enable	If plug and play Internet access is selected, you can enable Layer 2 Isolation Security function. When the “Layer 2 Isolation Security” enabled, everyone cannot communicate with each other.
Secure administrator IP Addresses	Any	Options: Any and Specify. User 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-401 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.



Figure 3-24 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"/>
	<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 MAC Address	<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)
WAN Port Mode	
<input type="button" value="Apply"/>	

Figure 3-25 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 ?
<input type="button" value="Apply"/>

Figure 3-26 Restart Dialog Box

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"/>

I Device IP (LAN IP) Setting

Figure 3-27 Device IP (LAN IP) Setting

Item	Default	Description
IP Address	192.168.0.1	Internal LAN IP address of your WSG-401.
Subnet Mask	255.255.255.0	Subnet mask of your WSG-401.

I WAN MAC Address

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

Figure 3-28 WAN MAC Address Setting

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

I 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 3-29 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.

<input checked="" type="radio"/> DHCP Client (Mostly for Cable modem users or Local Area Network)
--

Figure 3-30 DHCP Client Setting Screen

Static IP

<input checked="" type="radio"/> Static IP (Mostly for advanced Local Area Network environment) <p style="text-align: center; color: #0070C0;">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 3-31 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 provided by your ISP.

Item	Description
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 3-32 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.
Service Name (Option)	Empty	Your ISP will provide the service name.

Item	Default	Description
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your WSG-401 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-401 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 check box. If you want your Internet connection to remain, click the check box 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	

I 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 3-33 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	A PPTP local IP address for the xDSL/Cable connection (provided by your ISP).
Gateway IP Address	Empty	A PPTP local default gateway for the xDSL/Cable connection (provided by your ISP).
PPTP Server IP Address	Empty	A 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.
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	Connection ID or connection name.
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your WSG-401 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-401 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 check box. If you want your Internet connection to remain, click the check box of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	

Item	Default	Description
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="1440"/> Min(s) (1 - 1440)
DHCP Server	<input type="radio"/> DHCP Disable <input type="radio"/> DHCP Relay <input type="text" value=""/> DHCP Server IP Address: <input type="text"/> <input checked="" type="radio"/> DHCP Server (Default) IP Pool Starting Address: <input type="text" value="192.168.0.2"/> Pool Size: <input type="text" value="253"/> (Max=512) Lease Time: <input type="text" value="300"/> (Minutes) Primary DNS Server: <input type="text" value="168.95.1.1"/> Secondary DNS Server: <input type="text"/>
Email Server Redirect	IP Address or Domain Name: <input type="text"/> SMTP Port: <input type="text" value="25"/> (25, 2500 - 2599)
<input type="button" value="Apply"/>	

Figure 3-34 Server Setting Screen

Item	Default	Description
Web Server		
Web Server Port	80	Enter the Web server port number. The Web server port allowed range is 80 or 8010 to 8060. For access the WSG-401 system under NAT, please tab the "http://WAN Port IP Address: Port Number".
SSL Security	Disable	Enables or disables the SSL security.

Administrator Idle-Timeout	5 Minutes	The idle time out valid range is 1-1440. If the idle time out is set as 5 minutes, it means if the administrator doesn't send packet in 5 minutes, the administrator will logout automatically.
Item	Default	Description
DHCP Server	Enable	There are three types of DHCP Services. DHCP Disable—Disable the DHCP server function. DHCP Relay—Enable DHCP Relay function. DHCP Server—Enable DHCP server function.
DHCP Relay	To route DHCP through an external server, the administrator needs to enable the DHCP relay and assign a valid DHCP server IP address.	
DHCP Server IP Address	Empty	Enter the IP address of DHCP server.
DHCP Server	The WSG-401's DHCP server is turned on and running by default when you install it in your network.	
DHCP Pool Starting Address	192.168.0.2	Enter the DHCP Pool Starting IP address.
DHCP Pool Size	253	The DHCP pool size range is 1 to 512.
Lease Time	300 Minutes	Enter 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-401 provides an extra Email server parameter to forward the subscriber's Email. The WSG-401 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	<input checked="" type="radio"/> No Authentication <input type="radio"/> Built-in Authentication Current User Information Backup <input type="text" value="1"/> Min(s) (1 - 1440)
SSL Login Page	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
<input type="button" value="Apply"/>	

Figure 3-35 Authentication Setting Screen

Item	Default	Description
Authentication Type	No Authentication	Option: No Authentication or Built-in Authentication. No Authentication— Subscriber can direct access the Internet without enter username and password. Built-in Authentication— WSG-401 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-401, and the system will authenticate the subscriber login according to the generated account.
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.
SSL Login Page	Disable	Enables or disables SSL security of login page.

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

3-2-5 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"/> <input type="text" value="minutes"/>	<input type="text" value="1.00"/>
02	<input checked="" type="checkbox"/>	<input type="text" value="1 hour"/>	<input type="text" value="1"/> <input type="text" value="hours"/>	<input type="text" value="2.00"/>
03	<input checked="" type="checkbox"/>	<input type="text" value="2 hours"/>	<input type="text" value="2"/> <input type="text" value="hours"/>	<input type="text" value="3.00"/>
04	<input type="checkbox"/>	<input type="text" value="3 hours"/>	<input type="text" value="3"/> <input type="text" value="hours"/>	<input type="text" value="4.00"/>
05	<input type="checkbox"/>	<input type="text" value="5 hours"/>	<input type="text" value="5"/> <input type="text" value="hours"/>	<input type="text" value="5.00"/>
06	<input type="checkbox"/>	<input type="text" value="10 hours"/>	<input type="text" value="10"/> <input type="text" value="hours"/>	<input type="text" value="6.00"/>
07	<input type="checkbox"/>	<input type="text" value="1 day"/>	<input type="text" value="1"/> <input type="text" value="days"/>	<input type="text" value="10.00"/>
08	<input type="checkbox"/>	<input type="text" value="2 days"/>	<input type="text" value="2"/> <input type="text" value="days"/>	<input type="text" value="20.00"/>
09	<input type="checkbox"/>	<input type="text" value="7 days"/>	<input type="text" value="7"/> <input type="text" value="days"/>	<input type="text" value="50.00"/>
10	<input type="checkbox"/>	<input type="text" value="30 days"/>	<input type="text" value="30"/> <input type="text" value="days"/>	<input type="text" value="200.00"/>

Figure 3-36 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 to Post-paid or Post-paid to Pre-paid), the system will erase all account and disconnect all on-line users.

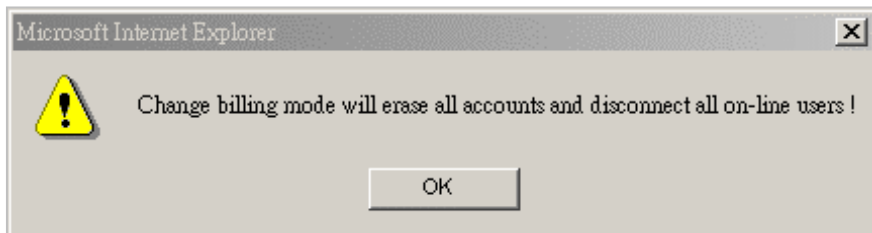


Figure 3-37 Message Box

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. For details, see section 3-2-6 Credit Service.

Credit Card

Authorize.net

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

iTable

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

Figure 3-38 Credit Service Setting Screen



Figure 3-39 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.

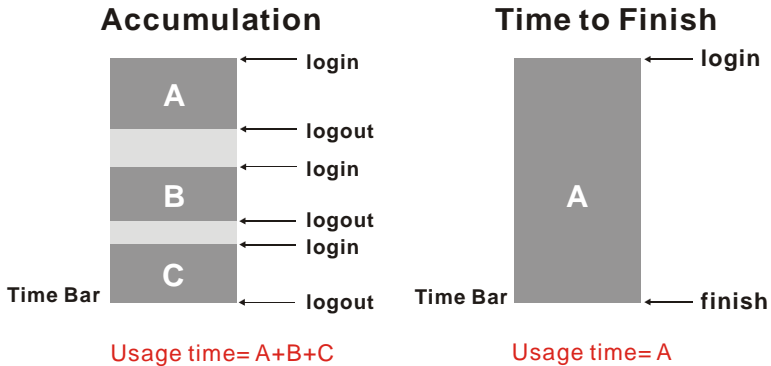


Figure 3-40 Accumulation and Time to Finish

Item	Default	Description
Post-Paid	Disable	<p>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.</p> <p>Note: Only three-button printer supports Post-paid function.</p>
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.

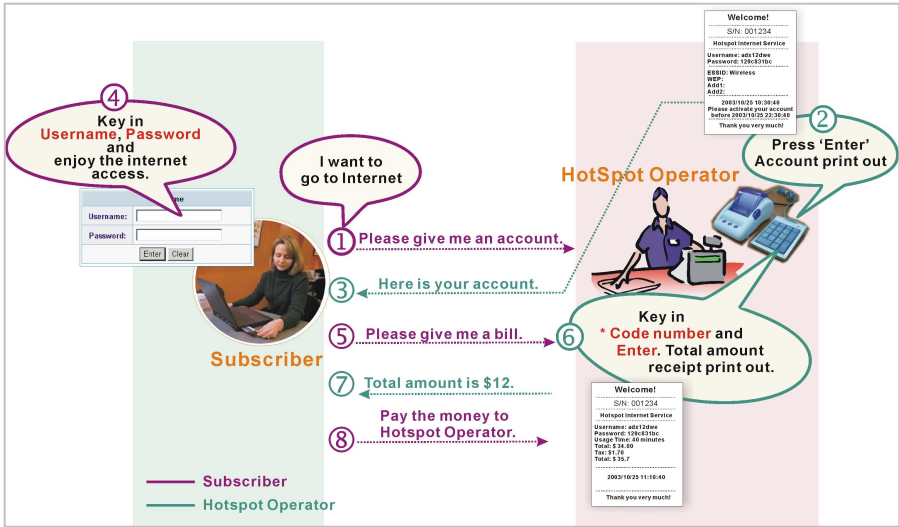


Figure 3-41 Post-paid Procedure Diagram

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 3-42 Success Dialog Box

3-2-6 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"/> <input type="text" value="months"/>
Printout	Number of copies to print : <input type="text" value="1"/>
Replenish	<input type="checkbox"/> Can be replenished by subscriber

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 hour, \$2.00"/>
Button C	<input type="text" value="(03) 2 hours, 2 hours, \$3.00"/>

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

One-Button Printer

Pre-defined
The button presses on the printer will equal the No. of "Button" in the web-based account operator

Incremental based on
The usage time of account is based on the times of pressing button.

Discount Price Plan based on "Button Presses":

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 **for Discount Price Plan based on "Button Presses":**

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

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

Figure 3-43 Accounting Setting Screen

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

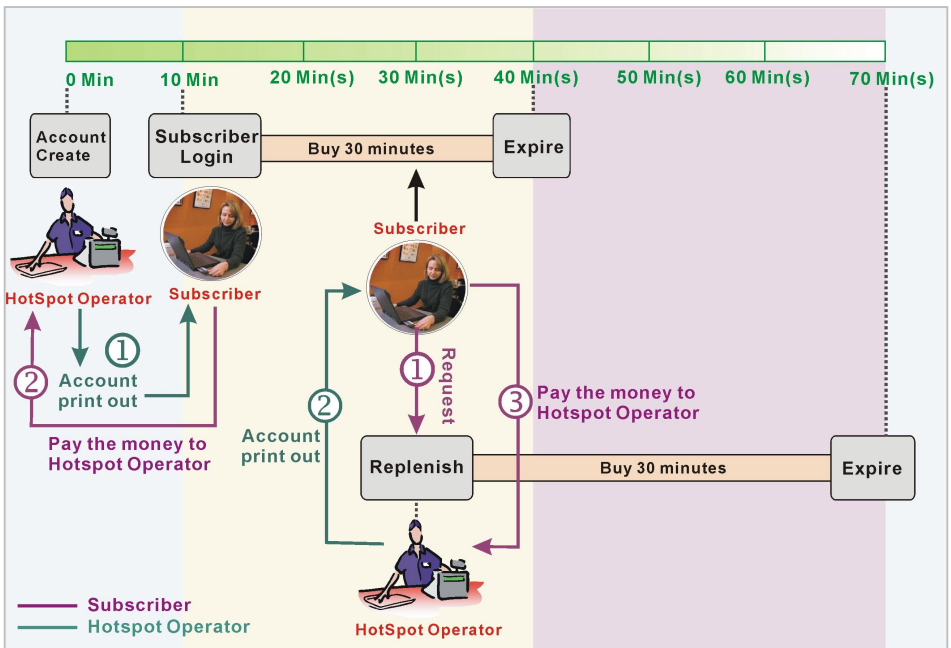


Figure 3-44 Account Process Diagram
 Can be replenished by subscriber=Enable

I Web-based Accounting Generator

Web-based Account Generator Panel
Preview / Operate

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

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

Figure 3-45 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 printer to print out your account.

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 3-46 Web-based Account Generator Panel

Welcome!

Hotspot Internet Service

Username: 8y4dtm42
 Password: zbcx8w62
 Usage Time: 2:00:00
 Billing: Time to Finish
 Service: 2 hours
 Unit: 1
 Total\$3.00

ESSID: Wireless
 WEP:

2003/11/11 15:21:41
 S/N:000002
 Please start your account
 before
 2003/11/12 03:21:41
 Thank you very much !

Figure 3-47 Web-based Account Generator Printout


 國賓大飯店
 AMBASSADOR

Welcome !

Hotspot Internet Service

Username:	101
Password:	3g5u2uzylf
Billing:	Time to Finish
Service:	30 minutes
Unit:	2
Usage Time:	60 minutes
Total:	\$30.00
Tax:	\$1.50
Grand Total:	\$31.50

ESSID:	Wireless
WEP:	
Add1:	
Add2:	

S/N: 000001
2002/08/28 14:39:07

Please activate your account before 2002/08/29 02:39:07

Thank You very much !

Figure 3-48 PC-connected Printer Printout

Item	Default	Description
Pre-defined	Disable	The button presses on the printer will equal the No. "Button" in the web-based account operator. Press one time is button A, press two times is button B and three times is button C. If press four times, the printer will not do any action.
Incremental based on Button ~	Enable Button A	The usage time of account is based on the times of pressing button; you have to select one button by clicking in the list box. EX. If Incremental based on Button A, press one time is button A, and 3 times is button A x 3, which is same as now.
Discount Price Plan based on "Button Presses"	Disable	Enables or disables the discount price plan.

Note: Before configuring the one-button printer accounting, you have to setting the billing profile of web-based account generator panel.

I WSG-ACG (Three-Button 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 A"/> for Discount Price Plan based on "Button Presses": <input type="button" value="Disable"/>

Figure 3-49 Web-based Account Generator Panel Setting Screen

Item	Default	Description
Print to...	Account Generator Printer	Select printer to print out your account.
Use ~ for Discount Price Plan based on "Button Presses"	Button A, Disable	Select one button by clicking in the list box to assign the base charge and select enable to activate the discount price plan.


Note: Before configuring the one-button printer accounting, you have to setting the billing profile of web-based account generator panel.

I Discount Price Plan based on “Button Presses”

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

Figure 3-50 Discount Price Plan Setting Screen

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

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

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

Success!

The Configuration has been changed.



Figure 3-51 Success Dialog Box


3-2-7 Credit Card

WSG-401 provides two credit card services (“**Authorize.net**” and “**iTable**”) that allow service provider to authorize, process, and manage credit transactions directly from Internet.

Figure 3-52 Credit Card Setting Screen

Item	Default	Description
Authorize.net		
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider.
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.
Payment Gateway	~	Enter the address of Payment Gateway. The default value is “https:// cardpresent.authorize.net/gateway/transact.dll”
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.

Item	Default	Description
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.
iTable		
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider.
Terminal ID	Empty	Enter your Terminal ID. This is a Terminal Identification Number that you're received from your Merchant Provider.
Secure Server Address	-	Enter the secure server address. The default value is "https://silverado.trivalley.com/merchant/processcc.asp".

 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 3-53 Success Dialog Box

Please follow steps below to pay using credit card.

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

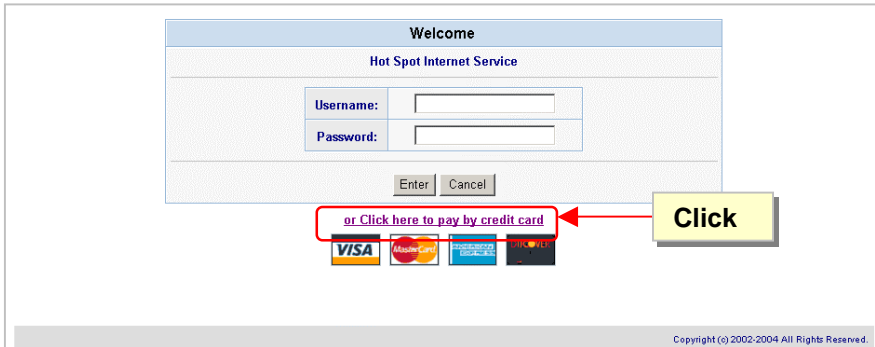


Figure 3-54 Login Page

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? ▾

*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)

Credit card number:	<input style="width: 60%;" type="text" value=""/>
Credit card expiration date:	<input style="width: 60%;" type="text" value=""/>
Enter Email Address	<input style="width: 60%;" type="text" value=""/>

Submit Transaction and Login

Figure 3-55 Service & Payment Information Setting Screen

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 MM/YY.
Enter Email Address	Empty	Enter your email address. The system will e-mail you account information once your payment information has been successfully authorized.

Step 3: After valid payment information has been provided, the subscriber will obtain one valid account to login or the *Figure 3-67* 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	0:30:00
Please activate your account before 2003/11/14 04:57:37	
<input type="button" value="Email this webpage to myself"/> <input type="button" value="Use this account to LOGIN now"/>	

Figure 3-56 User Account Information

Welcome	
Welcome	
The credit card number is invalid.	
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!	
<input type="button" value="Try Again"/> <input type="button" value="Cancel"/>	

Figure 3-57

3-2-8 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 3-58 Keypad Setting Screen

Note: This function only support three-button printer

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	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.

I 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 be terminated with the optional keypad.
Idle Time Out Min(s) (1 - 1440)

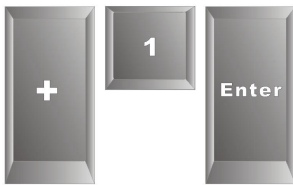
Figure 3-59 Billing Setting Screen

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	(02) 1 hour, 1 hour(s), \$2.00
+3	(03) 2 hours, 2 hour(s), \$3.00

Figure 3-60 Keypad Hot Key

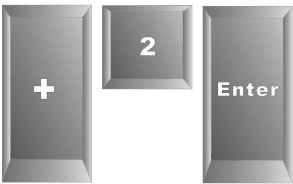
Step 3: You can use keypad to create subscriber accounts now. Press keypad hot key and then press **Enter**. A new subscriber account is generated, and the account information should be printed.



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

```

Welcome!
-----
Hotspot Internet Service
-----
Username: b4e55f35
Password: kz6g6n82
Billing: Time to Finish
Service: 30 minutes
Unit: 1
Usage Time: 00:30:00
Total: $ 1.00
Tax: $0.00
Grand Total: $ 1.00
-----
ESSID: Wireless
WEP:
2003/11/06 11:19:05
S/N: 000001
Please activate your
account before
2003/11/06 23:19:05
-----
Thank you very much!
    
```



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

```

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

Figure 3-61

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

I 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 be terminated with the optional keypad.

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

Figure 3-62 Billing Setting Screen

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

Use for Post-Paid Billing

Based on

Charge by levels

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

Figure 3-63 Keypad 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.

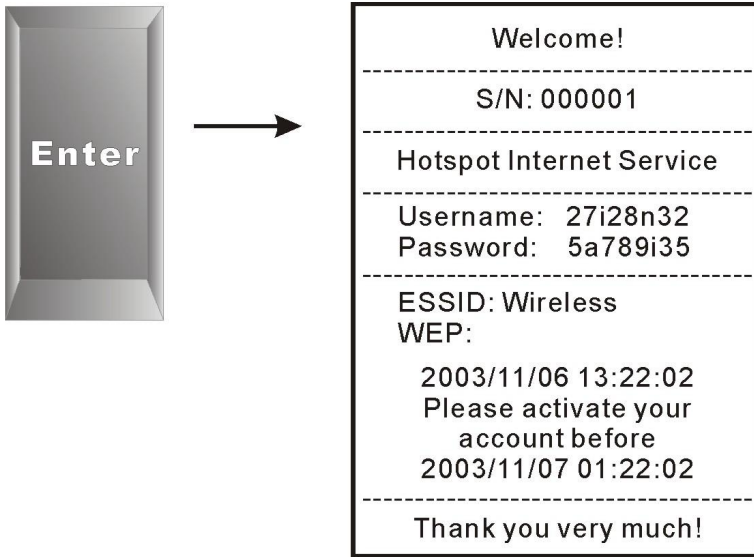


Figure 3-64

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

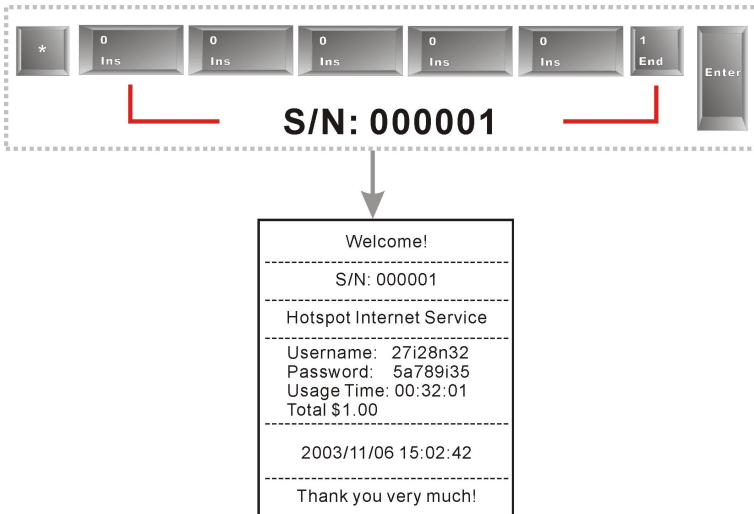






Figure 3-65

WSG-ACG operations	
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





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 3-66 Keypad Hot Key List

I Daily Account Report Printout

Daily Account	
----- 2002/08/27 -----	
S/N Username B UN Price	

000001 xxxxxxxx 1 02 100.00	
000002 xxxxxxxx 1 01 50.00	
000003 xxxxxxxx 1 01 50.00	
000004 xxxxxxxx 1 01 50.00	
000005 xxxxxxxx 1 02 100.00	
000006 xxxxxxxx 1 02 100.00	
000007 xxxxxxxx 1 01 50.00	
000008 xxxxxxxx 1 01 50.00	
000009 xxxxxxxx 1 03 150.00	

TOTAL ACCOUNTS: 9	
TOTAL PRICE: \$700.00	

2002/08/28 14:39:07 ---END---	

Press **ABCAA**

Figure 3-67 Daily Account

I Monthly Account Report Printout

Monthly Account			

2002/08			

DATE S/N	Username	B UN	Price

0801	000001	xxxxxxxx	1 02 100.00
0802	000002	xxxxxxxx	1 01 50.00
0802	000003	xxxxxxxx	1 01 50.00
0803	000004	xxxxxxxx	1 01 50.00
0807	000005	xxxxxxxx	1 02 100.00
0809	000006	xxxxxxxx	1 02 100.00
0820	000007	xxxxxxxx	1 01 50.00
0825	000008	xxxxxxxx	1 01 50.00
0830	000009	xxxxxxxx	1 03 150.00

TOTAL ACCOUNTS:			9
TOTAL PRICE:			\$700.00

2002/09/01 14:39:07			
---END---			

Press ABCBB

Figure 3-68 Monthly Account

I System Status Report Printout

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

Press ABCCC

Figure 3-69 System Status Report Printout

I Network Report Printout

Abbreviation Network	Current Settings Network
----- ITEM DESCRIPTION ----- WAST WAN Status WSTA Wireless Service SYST System Up Time ----- WATD WAN Tx Data WARD WAN Rx Data WATE WAN Tx Error WARE WAN Rx Error LATD LAN Tx Data LARD LAN Rx Data LATE LAN Tx Error LARE LAN Rx Error WLTD Wireless Tx Data WLRD Wireless Rx Data WLTE Wireless Tx Error WLRE Wireless Rx Error ----- Printout Date and Time ---END---	----- ITEM DESCRIPTION ----- WAST Not Established WSTA Fail SYST 01D:20H:35M:46S ----- WATD 12345678 WARD 12345678 WATE 12345678 WARE 1234567890 LATD 1234567890 LARD 1234567890 LATE 1234567890 LARE 1234567890 WLTD 1234567890 WLRD 1234567890 WLTE 1234567890 WLRE 1234567890 ----- 20020828 14:39:07 ---END---

Figure 3-70 Network Report Printout

3-2-9 Customization

I Logo

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

Logo

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 3-71 Logo Setting Screen

Item	Description
File Path	Enter the file pathname of the logo file in the File Path field.

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

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



Figure 3-72 Success Dialog Box

I Login Page

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 welcome image, background color, article etc. Certainly the administrator can decide to use only standard form. The WSG-401 provides three different login page formats, including standard, redirect, advanced and frame format.

The screenshot shows a web-based configuration interface for the "Standard" login page. On the left, there is a sidebar with a "Standard" option selected. The main area contains a form with the following fields:

- Logo:** A checkbox that is currently unchecked.
- Title:** A text input field containing "Welcome" with a "(Max. 80 characters)" label.
- Subtitle:** A text input field containing "Hot Spot Internet Service" with a "(Max. 80 characters)" label.
- Footnote:** A checkbox that is currently unchecked, with a text input field containing "Please contact us if you have any question" and a "(Max. 240 characters)" label.
- Copyright:** A checkbox that is currently checked, with a text input field containing "Copyright (c) 2002-2004 All Rights Reserved." and a "(Max. 80 characters)" label.
- Background Color:** A color selection field showing "FFFFFF" and a link labeled "View Color Grid".

At the bottom right of the form, there is a printer icon and a link labeled "Standard Login Page Preview".

Figure 3-73 Standard Login Page Customization Setting Screen

Item	Default	Description
Logo	Disable	Select the check box to display service provider's logo.
Title	Welcome	Enter the title name of subscriber login page. The maximum allowed characters length is 80.
Subtitle	Hot Spot Internet Service	Enter the subtitle name of subscriber login page. The maximum allowed characters length is 80.
Footnote	Disable	Allow the administrator to input the footnote such like "Pleas Contact to our Customer Service Center, EXT 142". 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.

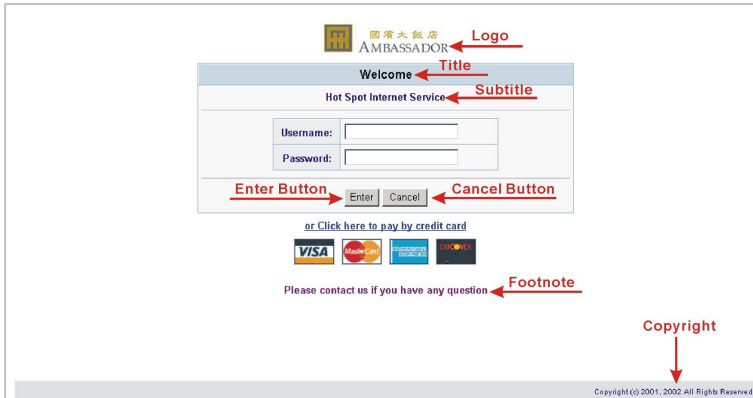


Figure 3-74 Login Page Screen

Redirect

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

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

Figure 3-75 Redirect Login Page Setting Screen

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

```
Redirect Login Page Code

<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" borderColorDark="#FFFFFF" cellPadding="4" width="50%" bgColor="#F7F7F7" borderColorLight="#92B4D6"
border="1">
<tr>
<td align="center" width="100%" bgColor="#ccddee" colSpan="2">
<font size="2"><b>Welcome</b></font>
</td>
</tr>
<tr>
<td align="right" width="35%" bgColor="#eaeaea">
<font color="#000080" size="2"><b>Username:</b></font>
</td>
<td width="65%">
<input type="text" name="username" size="25">
</td>
</tr>
<tr>
<td align="right" width="35%" bgColor="#eaeaea">
<font color="#000080" size="2"><b>Password:</b></font>
</td>
<td width="65%">
<input type="password" name="password" size="25">
</td>
</tr>
<tr>
<td align="center" width="100%" colspan="2">
<input type="submit" name="apply" value="Enter" style="font-family: Arial">
<input type="reset" name="clear" value="Clear" style="font-family: Arial">
</td>
</tr>
</table>
</div>
</form>
</body>
</html>
```

[Close](#)

Figure 3-76 Redirect Login Page Code Screen

Advanced

This function allow user to design login page of WSG-401.

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

Figure 3-77 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 (RGB values of Red, Green, and Blue, where each component has a hexadecimal value of from 00 to FF. 000000 is black and FFFFFFFF is white.)
Article	Empty	The article is allowed the administrator to input a paragraph in the subscriber login page for advisement or announcement. The maximum character of the article is 1024.
Article Text Color	000000	The article text color can be specified color. For the specified text color format please views the color grid. The allowed format is Hexadecimal.
Article Background Color	None	The article background can be specified color. For the background color format please views the color grid. The allowed format is Hexadecimal.
Information	Empty	Allow the administrator to input the text information such like address, telephone number and fax information. The maximum character of the information is 80.
Comments	Empty	Allow the administrator to input the text comments such like "Pleas Contact to our Customer Service Center, EXT 142". The maximum character of the comment is 80.



Figure 3-78 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.



Figure 3-79 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.

I 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.


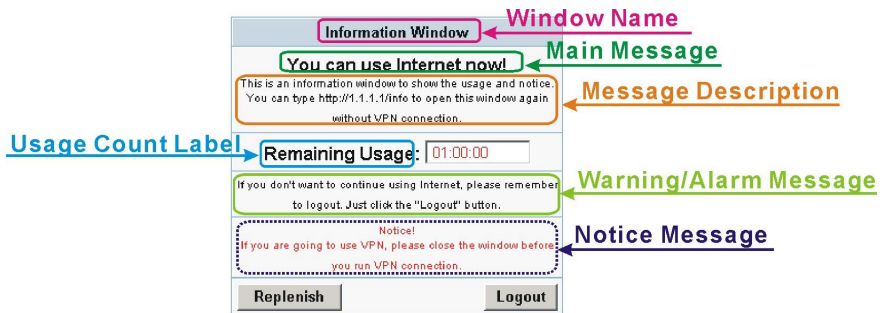
Information Window Customization	
Information window is a pop-up window that is presented to subscribers with their browser once after subscriber login successfully. The subscriber can type http://1.1.1.1/info to open this window again or http://1.1.1.1/logout to logout immediately if accumulation billing selected.	
<input checked="" type="checkbox"/> Display Information Window once after a subscriber logs in successfully	
Window Name	Information Window (Max. 30 character)
Main message	You can use Internet now! (Max. 30 character)
Message Description	This is an information window to show the us (Max. 150 character)
Time count label	Standard for pre-defined usage time
	Remaining Usage (Max. 30 character)
	Post-Paid Billing
	Connecting Usage (Max. 30 character)
<input type="checkbox"/> Warning/Alarm message	If you don't want to continue using Internet, p (Max. 150 character)
<input type="checkbox"/> Notice Message	Notice Text 1
	Notice! (Max. 150 character)
	Notice Text 2
	If you are going to use VPN connection now, (Max. 150 character)
	Notice Text 3 (Max. 150 character)
 Preview	
<input type="button" value="Apply"/>	

Figure 3-80 Example-Login Page Screen



The screenshot shows the login page with the following components annotated:

- Window Name:** Information Window
- Main Message:** You can use Internet now!
- Message Description:** 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.
- Usage Count Label:** Remaining Usage: 01:00:00
- Warning/Alarm Message:** If you don't want to continue using Internet, please remember to logout. Just click the "Logout" button.
- Notice Message:** Notice! If you are going to use VPN, please close the window before you run VPN connection.

Buttons: Replenish, Logout

Figure 3-81 Example-Login Page Screen

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>

Figure 3-82 Information Window

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



Figure 3-83 Information Window
Billing Type=Time to Finish
Can be replenished by subscriber=Enable



Figure 3-84 Information Window
 Billing Type=Accumulation
 Can be replenished by subscriber=Disable



Figure 3-85 Information Window
 Billing Type=Accumulation
 Can be replenished by subscriber=Enable

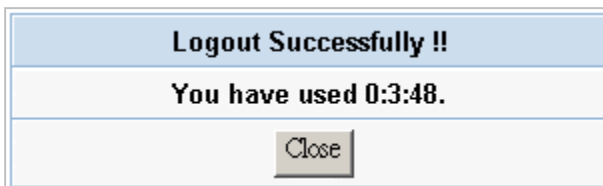


Figure 3-86 Logout Successfully Dialog Box
 Billing Type=Accumulation

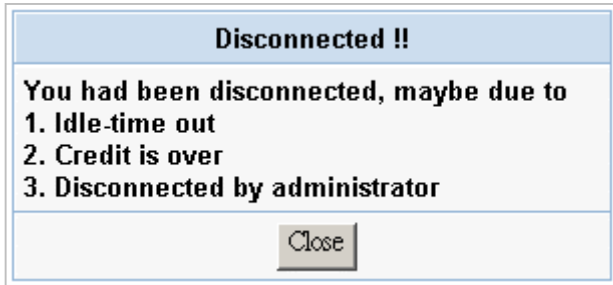


Figure 3-87 Disconnected Dialog Box

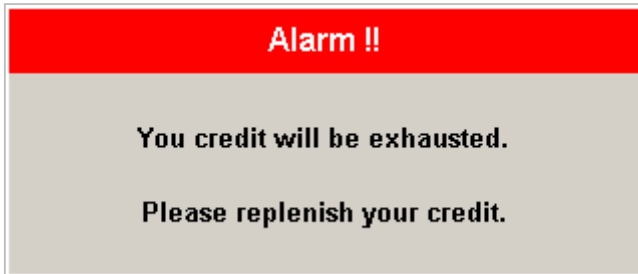


Figure 3-88 Alarm Dialog Box

I Account Printout

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

Account Printout Customization	
<input type="checkbox"/> Logo	* Only for PC-connected printer
Title:	<input type="text" value="Welcome!"/> (Max.=24)
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)
WEP Encryption:	<input type="text" value="WEP:"/> (Max.=24)
<input type="checkbox"/> Additional Label 1:	<input type="text"/> (Max.=24) Value: <input type="text"/> (Max.=24)
<input type="checkbox"/> Additional Label 2:	<input type="text"/> (Max.=24) Value: <input type="text"/> (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.=24)
Preview of PC-connected printer	
Preview of account generator printer	
Preview of Post-Paid Printout	
<input type="button" value="Apply"/>	

Figure 3-89 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.



Figure 3-90 Success Dialog Box

t



Figure 3-91 Account Generator Printer Printout

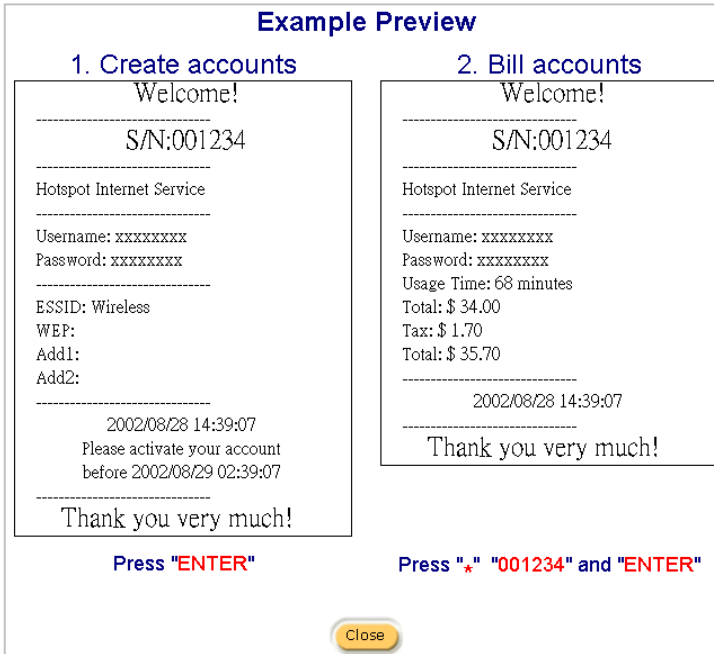


Figure 3-92 Account Generator Printer Printout

I Credit Card

Standard Login Page

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

Credit Card Customization			
Standard Login Page	<p>Customize the additional credit card message for the standard login page</p> <table border="1"><tr><td>Credit Card Message</td><td><input type="text" value="or Click here to pay by credit card"/> <small>(Max:80 characters)</small></td></tr></table> <p>Preview of Standard Login Page</p>	Credit Card Message	<input type="text" value="or Click here to pay by credit card"/> <small>(Max:80 characters)</small>
Credit Card Message	<input type="text" value="or Click here to pay by credit card"/> <small>(Max:80 characters)</small>		

Figure 3-93 Credit Customization Setting Screen



The screenshot shows a login interface for 'Hot Spot Internet Service'. It features a 'Welcome' header, a title 'Hot Spot Internet Service', and two input fields for 'Username:' and 'Password:'. Below the fields are 'Enter' and 'Cancel' buttons. A red arrow points to the text 'or Click here to pay by credit card', which is labeled 'Credit Card Message'. Below this text are logos for VISA, MasterCard, American Express, and Discover.

or Click here to pay by credit card ← **Credit Card Message**

VISA MasterCard American Express Discover

Please contact us if you have any question

Figure 3-94 Standard Login Page

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 purchase?"/> (Max. 80 characters)
Notification Message 1	<input type="text" value="*Please kindly note that there will be no refund once connectivity is established"/> (Max. 160 characters)
Notification Message 2	<input type="text" value="*Please note that the time block of selected service is based on connectivity availability"/> (Max. 160 characters)
Notification Message 3	<input type="text"/> (Max. 160 characters)
<input type="checkbox"/> Customer ID	<input type="text" value="Customer ID"/> (Max. 40 characters)
<input type="checkbox"/> First/Last Name	<input type="text" value="First Name"/> <input type="text" value="Last Name"/> (Max. 20 characters) (Max. 20 characters)
<input type="checkbox"/> Company	<input type="text" value="Company"/> (Max. 40 characters)
<input type="checkbox"/> Address	<input type="text" value="Address"/> (Max. 40 characters)
<input type="checkbox"/> City	<input type="text" value="City"/> (Max. 40 characters)
<input type="checkbox"/> State/Province	<input type="text" value="State/Province"/> (Max. 40 characters)
<input type="checkbox"/> ZIP/Postal Code	<input type="text" value="ZIP/Postal Code"/> (Max. 40 characters)
<input type="checkbox"/> Country	<input type="text" value="Country"/> (Max. 40 characters)
<input type="checkbox"/> Phone	<input type="text" value="Phone"/> (Max. 40 characters)
<input type="checkbox"/> Fax	<input type="text" value="Fax"/> (Max. 40 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)
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 3-95 Service Selection Page Setting Screen

Welcome

Hot Spot Internet Service

Please choose from the following service selection

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

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

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

Enter Payment Information (all info is required)

Credit card number:	<input style="width: 60%;" type="text"/>
Credit card expiration date:	<input style="width: 50%;" type="text"/> - <input style="width: 50%;" type="text"/>
Enter Email Address	<input style="width: 100%;" type="text"/>

Submit Transaction and Login

Figure 3-96 Example-Service Selection Page

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 password for lo"/> (Max. 160 characters)
Notification Message 2	<input type="text"/> (Max. 160 characters)
Account Information	<input type="text" value="This is your account information, please keep this for your Internet S"/> (Max. 160 characters)
Username	<input type="text" value="Your username is"/> (Max. 80 characters)
Password	<input type="text" value="Your password is"/> (Max. 160 characters)
Usage Time	<input type="text" value="Your usage time is"/> (Max. 160 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)
Submit Button	<input type="text" value="Use this account to LOGIN now"/> (Max. 40 characters)

[Preview of Successful Page](#)

Figure 3-97 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	
This is your account information, please keep this for your Internet Service.	
Your username is	XXXXXXXX
Your password is	XXXXXXXX
Your usage time is	XX:XX:XX
Please activate your account before	XX/XX/XXXX AM XX:XX:XX
<input type="button" value="Email this webpage to myself"/> <input type="button" value="Use this account to LOGIN now"/>	

Figure 3-98 Example-Successful Page

Fail Page

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

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

[Preview of Fail Page](#)

Figure 3-99 Fail Page Setting Screen

Welcome	
Welcome	
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!	
<input type="button" value="Try Again"/> <input type="button" value="Cancel"/>	

Figure 3-100 Example-Fail Page

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

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

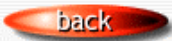
Success!	
The Configuration has been changed.	
	

Figure 3-101 Success Dialog Box

3-2-10 Pass Through

This function allow administrator to set some special devices pass through the WSG-401 system. Because some network devices might be constructed under the WSG-401. However these devices needn't be checked and authorized. The WSG-401 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

Pass Through List

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

Figure 3-102 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 style="width: 150px;" 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 200.

Item	Default	Description
<input 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 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 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 type="radio"/> MAC address: <input type="text"/> Mask: <input type="text" value="FF-FF-FF-FF-FF-FF"/>		
MAC Address	Empty	Enter the MAC address of you wants pass through.
Mask	Empty	Enter the subnet mask of you wants pass through.
Pass Through List	Display the pass through Information of WSG-401.	
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).

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

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

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

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

3-2-11 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 3-103 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.
Restrict Destination		
<input checked="" type="radio"/> URL or Website:		
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 200.
<input checked="" type="radio"/> Start / End IP Address:	 ~ 	
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.

Item	Default	Description
<input type="checkbox"/> 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".

3-2-12 Share

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

Share

Share LAN resource:: Disable ▾

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

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

Resource Name	Resource IP Address	Resource MAC Address
<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>

Add to List

Restricted Destination List

No.	Active	Share LAN resource:	IP Address	MAC address	Delete

Delete All

Apply

Figure 3-104 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.
Resource IP Address	Empty	Enter the IP address of device.
Resource MAC Address	Empty	Enter the MAC address of device.
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.
Delete	Disable	Select the check boxes and click ' Delete ' to delete the share device(s).

Note:

1. You must use the “**Search IP**” method to search for a device on the network. Please follow steps below to search your device.

F Click **Start**, and then click **Search**.

F Click **Computers or People**.

F Click “**A computer on the network**”.

F In Computer, type the IP address of the device you want to find. Click **Search**.

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

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

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

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

3-2-13 Portal Page

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

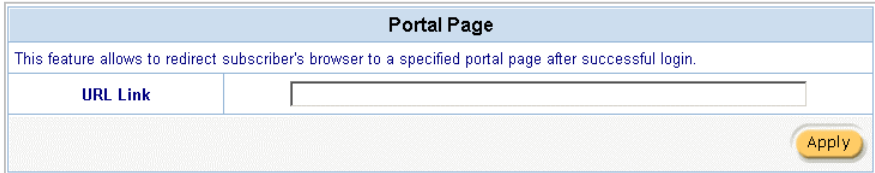


Figure 3-105 Portal Page Setting Screen

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.




Figure 3-106 Success Dialog Box

3-2-14 Advertisement

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

Advertisement URL Link	
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"/>
<input type="button" value="Apply"/>	

Figure 3-107 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-401 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 3-108 Success Dialog Box

3-2-15 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.

The image shows a form titled "Walled Garden". At the top, there is a text box with the following text: "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." Below this text is a table with ten rows, each representing a link. Each row has a label on the left (Link 1 to Link 10) and two input fields: "Name:" and "URL:". The first three rows are pre-filled with data: Link 1 (Name: Yahoo, URL: www.yahoo.com), Link 2 (Name: MSN, URL: www.msn.com.tw), and Link 3 (Name: Microsoft, URL: www.microsoft.com.tw). The remaining seven rows have empty input fields. To the right of the table, there are three colored boxes: a blue box containing "Yahoo" and "www.yahoo.com", an orange box containing "MSN" and "www.msn.com", and a green box containing "Microsoft" and "www.microsoft.com". Blue lines connect these boxes to the corresponding Name and URL fields in the first three rows of the table. At the bottom right of the form, there is a yellow "Apply" button.

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: <input type="text" value="Yahoo"/> URL: <input type="text" value="www.yahoo.com"/>
Link 2	Name: <input type="text" value="MSN"/> URL: <input type="text" value="www.msn.com.tw"/>
Link 3	Name: <input type="text" value="Microsoft"/> URL: <input type="text" value="www.microsoft.com.tw"/>
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 3-109 Walled Garden

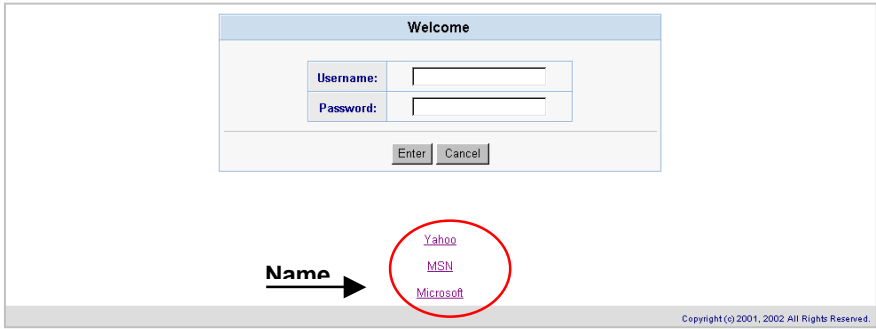


Figure 3-110 Login Page

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 3-111 Success Dialog Box

3-2-16 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-401 a new IP, the WSG-401 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.

No		Active	Settings	Update Status Now
DDNS				
Force to update every <input type="text" value="1"/> day(s) when WAN IP address keeps no change				
01	<input type="checkbox"/>	Status: N/A		
		Service Provider	dyndns.org (www.dyndns.org) ▾	
		Registered Host Name	<input type="text"/> (for example: xyz.dyndns.org)	
		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	dyndns.org (www.dyndns.org) ▾	
		Registered Host Name	<input type="text"/> (for example: xyz.dyndns.org)	
		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	dyndns.org (www.dyndns.org) ▾	
		Registered Host Name	<input type="text"/> (for example: xyz.dyndns.org)	
		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)		
				Apply

Figure 3-112 DDNS Setting Screen

Item	Default	Description
Force to update every ~day(s) when WAN IP address keeps no change	1 days	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.
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 3-113 Success Dialog Box

3-2-17 LAN Devices

Administrator can direct remote control to LAN Devices via the WSG-401 implemented the feature.

LAN Devices							
Accommodate up to 50 entries				Polling Interval: <input type="text" value="5"/> (min)			
No.	Device Name	Virtual Port (60001~60050)	Device IP Address	Device Server Port	Device MAC Address	Application	Interface
1	Ethernet Switch	60001	192.168.100.123	80	00900E002537	TCP	Wired
2						TCP	Wired
3						TCP	Wired
4						TCP	Wired
5						TCP	Wired
6						TCP	Wired
7						TCP	Wired
8						TCP	Wired
9						TCP	Wired
10						TCP	Wired
11						TCP	Wired
12						TCP	Wired
46						TCP	Wired
47						TCP	Wired
48						TCP	Wired
49						TCP	Wired
50						TCP	Wired

Notice: The system does not support FTP

[Delete All](#)

[Apply](#)

Figure 3-114 LAN Devices Setting Screen

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

Item	Default	Description
Device Name	Empty	The LAN device name. The maximum character of the device name is 20.
Virtual Port	0	The virtual port number valid range is 60001 to 60050.
Device IP Address	Empty	The IP address of LAN device.
Device Server Port	0	The server port of LAN device.
Device MAC Address	Empty	The MAC address of LAN device. For input the device MAC address, please use this format such like "00304f8D2296".
Application	TCP	The protocol type of LAN device.
Interface	Wired	The interface of LAN device.

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

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

Note: The system does not support FTP.

3-2-18 Syslog

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

I Syslog Setting

Syslog

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

Figure 3-115 Syslog Setting Screen

Item	Default	Description
Syslog	Disable	Enables or disables the syslog server function.
Syslog on LAN		
Server IP Address	Empty	Enter syslog server's IP address. The WSG-401 will send all of its logs to the specified syslog server.
Server MAC Address	Empty	Enter the syslog server's MAC address. The WSG-401 will send all of its logs to the specified syslog server.
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.
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.
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.
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.

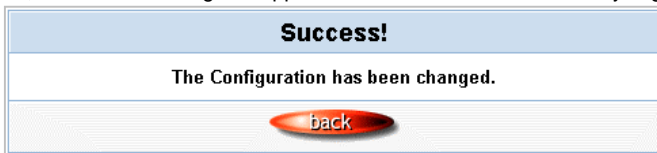


Figure 3-116 Success Dialog Box

I Log Categories

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 3-117 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.
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: (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: (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: (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</p> <p>If the type of Logged-in user is Super Subscriber, Username will be "*****".</p>
Proprietary Accounting		
Account Created	When an account is created.	<p>A log would be sent if account were created.</p> <p>Format: (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: (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: (Id, Mac Address) (Subscriber Trace, Type, Event, S/N, Username, User IP, User MAC, Interface, Login time, Logout time, Usage Time, Time Left, RxData count, TxData count)</p> <p>Type: TimeToFinish Accumulation PostPaid Super</p> <p>Event: Finished Replenished Logout Idle-Timeout Account Expired Deleted</p> <p>If the type of Subscriber Trace is Super, the Username will be "*****", and S/N will be "*****".</p> <p>Usage time: 00:59:59 (example)</p>

Subscriber Trace Relationship

Type	Event	Time Left
TimeToFinish	Finished	00:00:00
TimeToFinish	Replenished	00:12:00 to S/N000004
TimeToFinish	Deleted	00:12:00
Accumulation	Finished	00:00:00
Accumulation	Replenished	00:12:00 to S/N000004
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	*****

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

Item	Interval Time	Description
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.

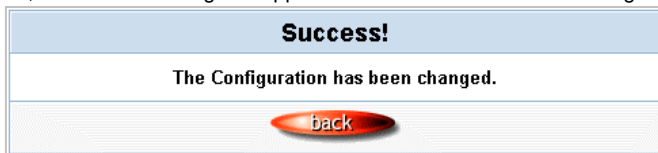


Figure 3-118 Success Dialog Box

3-2-19 Wireless

Wireless	
General Settings:	ESSID: <input type="text" value="Wireless"/> Channel: <input type="text" value="6"/> WEP Encryption: <input checked="" type="radio"/> Disable <input type="radio"/> Mandatory WEP Key Setting
Do not change any settings below unless you make sure you understand all the meanings of settings. You can press "DEFAULT" to restore the wireless factory default settings.	
Beacon Interval:	<input type="text" value="100"/> (msec, range:1~1000, default:100)
RTS Threshold:	<input type="text" value="2432"/> (range:256~2432, default:2432)
Fragmentation Threshold:	<input type="text" value="2346"/> (range:256~2346, default:2346, even number only)
DTIM Interval:	<input type="text" value="3"/> (range:1~255, default:3)
Transmission Rates:	<input type="radio"/> 1-2(Mbps) <input type="radio"/> 1-2-5.5-11(Mbps) <input checked="" type="radio"/> 1-2-5.5-11-22(Mbps)
Preamble Type:	<input type="radio"/> Short Preamble <input checked="" type="radio"/> Long Preamble
Authentication Method:	<input type="radio"/> Open System <input type="radio"/> Shared Key <input checked="" type="radio"/> Both
Antenna Selection:	<input type="radio"/> Left Antenna <input type="radio"/> Right Antenna <input checked="" type="radio"/> Diversity Antenna
SSID Broadcast:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
<input type="button" value="Default"/> <input type="button" value="Apply"/>	

Figure 3-119 Wireless Setting Screen

Item	Default	Description
General Settings		
ESSID		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.
WEP Encryption	Disable	Disables or enables the use of the WEP algorithm. Enabling the security can protect your data while it is transferred from one station to another.

I WEP Key Setting

WEP Key Setup

WEP Encryption: 64 bit 128 bit 256 bit

Mode: HEX

1.
 2.
 3.
 4.

Note: You have to restart the system to apply the WEP Key setup change

Apply

Figure 3-120 WEP Key Setting

Item	Default	Description
WEP Encryption	64 bit	The WSG-401 supports 64-bit, 128 bit or 256 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-401 uses when it transmits. You can change the selected encryption key every now and then to increase the security of your network.</p> <p>Enter 5 characters for ASCII 64-bit WEP Key. Enter 10 characters for Hex 64-bit WEP Key. Enter 13 characters for ASCII 128-bit WEP Key. Enter 26 characters for Hex 128-bit WEP Key. Enter 29 characters for ASCII 256-bit WEP Key. Enter 58 characters for Hex 256-bit WEP Key.</p>

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

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

Success!

The Configuration has been changed.

Close

Figure 3-121 Success Dialog Box

Item	Default	Description
Beacon Interval	100	This value valid range is 1 to 1000 indicates the frequency interval of the beacon.
RTS Threshold	2432	This value valid range is 256 - 2342. This setting determines the packet size at which the WSG-401 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-401, or in areas where the clients are far apart and can detect only the WSG-401 and not each other.
Fragmentation Threshold	2346	This setting determines the size at which packets are fragmented. Enter a setting ranging from 256 to 2346 bytes. Use a low setting in areas where communication is poor or where there is a great deal of radio interference.
DTIM Interval	3	This setting, always a multiple of the beacon period, determines how often the beacon contains a delivery traffic indication message (DTIM). The DTIM tells power-save client devices that a packet is waiting for them. The DTIM Interval value valid range is 1 to 65535.
Transmission Rates	1-2-5.5-22 (Mbps)	The basic transfer rates should be set depending on the speed of your wireless network. The default setting is 1-2-5.5-22 (Mbps).
Preamble Type	Long Preamble	The preamble type is a section of data at the head of a packet that contains information the Wireless PnP Subscriber Gateway and client devices need when sending and receiving packets. The setting menu allows you to select a long or short preamble type.

Item	Default	Description
Antenna Selection	Diversity Antenna	<p>Select left antenna, right antenna or diversity antenna.</p> <p>Left Antenna— If your device has removable antennas and you install a high-gain antenna on the device's left connector, you should use this setting for both receive and transmit. When you look at the device's back panel, the left antenna is on the left.</p> <p>Right Antenna— If your device has removable antennas and you install a high-gain antenna on the device's right connector, you should use this setting for both receive and transmit. When you look at the device's back panel, the right antenna is on the right.</p> <p>Diversity Antenna— This default setting tells the device to use the antenna that receives the best signal. If your device has two fixed (non-removable) antennas, you should use this setting for both receive and transmit.</p>

Item	Default	Description
Authentication Type	Both	<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-401. Using open authentication, any wireless device can authenticate with the WSG-401, but the device can only communicate if its WEP keys match the WSG-401. Devices not using WEP do not attempt to authenticate with a Wireless Service Gateway that is using WEP. Open authentication does not rely on a RADIUS server on your network.</p> <p>Shared Key—During shared key authentication, the WSG-401 sends an unencrypted challenge text string to any device attempting to communicate with the WSG-401. The device-requesting authentication encrypts the challenge text and sends it back to the WSG-401. If the challenge text is encrypted correctly, the WSG-401 allows the requesting device to authenticate. Both the unencrypted challenge and the encrypted challenge can be monitored, however, which leaves the WSG-401 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. Like open authentication, shared key authentication does not rely on a RADIUS server on your network.</p> <p>Both—With this setting stations can communicate with or without data encryption.</p>
SSID Broadcast	Enable	<p>Enable— It allows devices that do not specify an SSID to associate with the Wireless Service Gateway.</p> <p>Disable— Devices that do not specify an SSID (devices that are "broadcasting" in search of an access point to associate with) are not allowed to associate with the device. With no selected, the SSID used by the client device must match exactly the Wireless Service Gateway's SSID.</p>

Apply

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

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



Figure 3-122 Restart Dialog Box

Default

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

3.3 System Status

Display WSG-401 system basic status, including,

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



Figure 3-123 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	PLANET WSG-401
	Domain Name	www.planet.com.tw
	Firmware Version	1.00.06
	Wireless Version	1.00a
	Bootrom Version	1.03
	WAN MAC Address	00:30:4F:00:61:C7
	LAN MAC Address	00:30:4F:00:61:C6
	System Time	2003/12/12 14:54:29
System Up Time	00D:17H:56M:19S	
LAN IP	IP Address	192.168.0.1
	Subnet Mask	255.255.255.0
WAN IP	WAN Port Mode	Static IP
	IP Address	210.66.155.88
	Subnet Mask	255.255.255.224
	Gateway IP address	210.66.155.94
DNS	Primary DNS Server	168.95.192.1
	Secondary DNS Server	139.175.55.244

Figure 3-124 System Status Screen

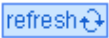
3-3-2 Account List

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.							refresh
SN	Status	Username	Usage Time	Time Created	Login Time	Expiration Time	Delete
000001	Un-used	fwsdm23	0:30:00	2003/11/10 14:40:20		2003/11/11 02:40:20	<input type="checkbox"/>
000002	Un-used	p3rix834	2:00:00	2003/11/10 14:41:04		2003/11/11 02:41:04	<input type="checkbox"/>
000003	Un-used	cq9ib424	1:00:00	2003/11/10 14:43:14		2003/11/11 02:43:14	<input type="checkbox"/>
000004	In-used	6nf77s27	0:30:00	2003/11/10 14:43:17	2003/11/10 14:44:57	2003/11/10 15:14:57	<input type="checkbox"/>

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

Figure 3-125 Account List



Click on refresh button to update the account list page.

SN	Status	Username	Usage Time	Time Created	Login Time	Expiration Time
----	--------	----------	------------	--------------	------------	-----------------

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



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



Delete all accounts in account list.

Note: This page will refresh automatically every 5 minutes.

3-3-3 Account Log

The account log shows the accounts' log information.

Account Log								
List account's log.						Export	Clear Log	refresh↻
SN	Username	Time Created	Login Time	Usage Time	Charge	Payment Info	Status	
000025	jic7rp35	2003/11/14 11:57:05	2003/11/14 11:57:27	2:00:00	3.00	Cash	Finished	
000027	7hr9fw33	2003/11/14 13:58:00		0:30:00	1.00	Cash	Un-used	
000029	qt5mcq32	2003/11/14 14:00:32		0:30:00	1.00	Credit Card	Un-used	
000030	xz6g6n38	2003/11/14 14:00:38	2003/11/14 14:00:44	0:30:00	1.00	Credit Card	Delete	
000031	jic7rp33	2003/11/14 14:18:03	2003/11/14 14:18:28	0:30:00	1.00	Cash	Finished	
000032	m6r3a753	2003/11/14 14:20:53	2003/11/14 14:49:50	0:30:00	1.00	Cash	In-used	

1 Page First Previous Next End

Figure 3-126 Account Log

Export

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

[Clear Log](#)

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

[refresh↻](#)

Click on refresh button to update the account log page.

[Username](#) [Time Created](#) [Login Time](#) [Usage Time](#) [Charge](#) [Status](#)

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

3-3-4 Current User

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

NO.	Type	Username	IP Address	MAC Address	Disconnect
1	Dynamic	jic7rp33	192.168.100.156	00:0C:6E:56:32:6D	<input type="checkbox"/>

Figure 3-127 Current User List



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



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.

3-3-6 Session List

The remote site administrator could monitor the real time usage status of WSG-401 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.							
GO <input type="text" value="1"/> Page		First Previous Next End					
No.	TCP/UDP	Client IP	Client Port	Port Fake	Remote IP	Remote Port	Idle
1	TCP	192.168.100.156	2735	50102	169.254.1.1	445	51
2	TCP	192.168.100.156	2737	50103	169.254.1.1	139	51
GO <input type="text" value="1"/> Page		First Previous Next End					

Figure 3-128 Session List Screen

3-3-7 LAN Devices

LAN Devices Management							
Detecting time: <input type="text" value="1"/> Min(s)							
NO.	Device Name	Virtual Port (60001~60050)	Device IP Address	Device Server Port	Device MAC Address	Application	Interface
1	<input type="text" value="vip"/>	<input type="text" value="60007"/>	<input type="text" value="192.168.0.99"/>	<input type="text" value="23"/>	<input type="text" value="00304F00292C"/>	TCP	Wired
2	<input type="text" value="gk"/>	<input type="text" value="60005"/>	<input type="text" value="192.168.0.66"/>	<input type="text" value="80"/>	<input type="text" value="00304F0B3F59"/>	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

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

Figure 3-129 LAN Devices Status 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. System Account
4. SSL Certificate
5. Ping Command
6. Restart
7. Logout



Figure 3-131 System Tools Item

3-4-1 Configuration

Use the Configuration item to save, restore or reset configuration parameters of the WSG-401.

Configuration

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

Backup

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

Remote TFTP Server IP Address: File Name: Apply

Restore

To restore your stored system configuration to this device.

Local PC File Path: Browse.. Apply

Remote TFTP Server IP Address: File Name: Apply

Reset the system back to factory defaults

Keep subscriber profile Apply

Figure 3-132 Configuration Setting Screen

Item	Default	Description
Backup		Click it to save the system configuration to your computer.

Item	Default	Description
Remote TFTP Server IP Address	Empty	Enter the IP address of TFTP Server.
File Name	Empty	Enter the file name in the Text 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 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 Text 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.

I Manual Firmware Upgrade

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 File Name

Figure 3-133 Manual Firmware Upgrade Setting Screen

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

Note: Before downloading the new firmware, users must save the configuration file for restore configuration parameters of the device.

I Scheduled Firmware Upgrade

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

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 style="width: 90%;" type="text"/>
File Synchronization	<input style="width: 90%;" 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.

Figure 3-134 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".

3-4-3 System Account

Use the System Account screen to change the system accounts.

Administrator Account	
Administrator can fully control this system and modify all settings.	
Username:	<input type="text" value="admin"/>
Password:	<input type="password" value="*****"/>
Confirm:	<input type="password"/>
Web-based Accounting Manager	
Web-based accounting manager can operate the proprietary web-based accounting system.	
Username:	<input type="text" value="account"/>
Password:	<input type="password" value="*****"/>
Confirm:	<input type="password"/>
Supervisor Account	
Supervisor can only view system status and change password.	
Username:	<input type="text" value="superervisor"/>
Password:	<input type="password" value="*****"/>
Confirm:	<input type="password"/>
Super Subscriber Account	
Super subscriber is a built-in subscriber account for system test or premium usage.	
Username:	<input type="text" value="super"/>
Password:	<input type="password" value="*****"/>
Confirm:	<input type="password"/>
<input type="button" value="Apply"/>	

Figure 3-135 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.

I Administrator Account

Step 1: Start your Web browser and enter the factory default IP address **192.168.0.1** in your browser's location box. Press Enter.



Wireless Subscriber Gateway

Username:

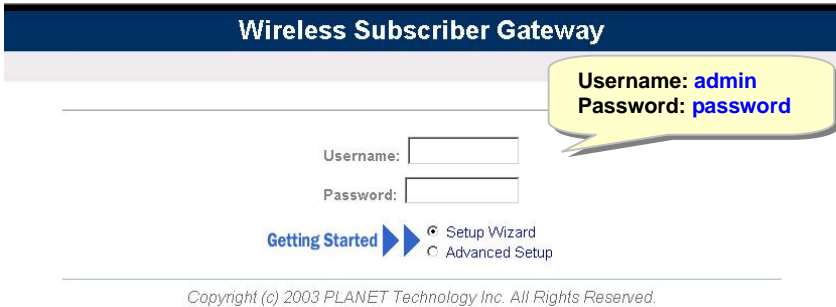
Password:

Getting Started Setup Wizard
 Advanced Setup

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Figure 3-136 Web Browser Location Field (Factory Default)

Step 2: The WSG-401 configuration main menu will appear. Enter **“admin”** (default) as the Username and **“password”** (default) as the password and click **“Getting Started”**. If you are first time setting the system, the wizard setup screen will appear.



Wireless Subscriber Gateway

Username:

Password:

Getting Started Setup Wizard
 Advanced Setup

Username: **admin**
Password: **password**

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Figure 3-137 Administrator Account Login Screen (First Time)

I Web-Based Accounting Manager

Step 1: Start your Web browser and enter the factory default IP address **192.168.0.1** in your browser's location box. Press Enter.

Step 2: The WSG-401 configuration main menu will appear. Enter "**account**" as the Username and "**account**" as the password and click "**Getting Started**"



Wireless Subscriber Gateway

Username:

Password:

Getting Started ▶ Setup Wizard
 Advanced Setup

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Figure 3-138 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.



Account Generator Panel

Please choose one button from the following selections

[30 minutes](#) [1 hour](#) [2 hours](#)

[View Account List](#)

Figure 3-139 Account Generator Panel

I Supervisor Account

Step 1: Start your Web browser and enter the factory default IP address **192.168.0.1** in your browser's location box. Press Enter.

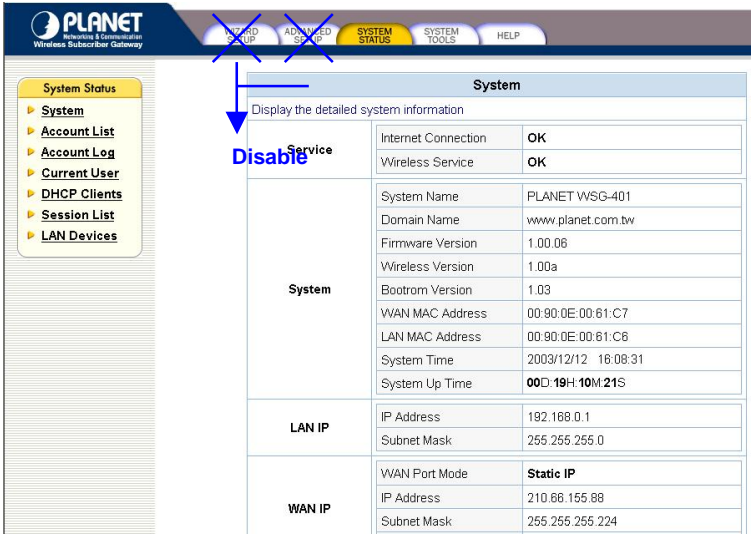
Step 2: The WSG-401 configuration main menu will appear. Enter **“supervisor”** as the Username and **“supervisor”** as the password and click **“Getting Started”**.



The image shows the login screen for the Wireless Subscriber Gateway. At the top, there is a dark blue header with the text "Wireless Subscriber Gateway" in white. Below the header, there are two input fields: "Username:" and "Password:". To the right of these fields, a yellow speech bubble contains the text "Username: supervisor" and "Password: supervisor". Below the input fields, there are two buttons: "Getting Started" with a blue arrow pointing right, and "Setup Wizard" with a radio button selected. Below "Setup Wizard" is another radio button labeled "Advanced Setup". At the bottom of the screen, there is a copyright notice: "Copyright (c) 2003 PLANET Technology Inc. All Rights Reserved."

Figure 3-140 Supervisor Account Login Screen

Step 3: After a valid user name and password have been provided, the WSG-401 configuration homepage will appear.



The image shows the System Status screen of the WSG-401 configuration homepage. At the top, there is a dark blue header with the PLANET logo and the text "Wireless Subscriber Gateway". Below the header, there are several navigation buttons: "SYSTEM SETUP", "ADVANCED SETUP", "SYSTEM STATUS" (highlighted in yellow), "SYSTEM TOOLS", and "HELP". On the left side, there is a sidebar menu with the following items: "System Status", "System", "Account List", "Account Log", "Current User", "DHCP Clients", "Session List", and "LAN Devices". The main content area is titled "System" and contains a table of system information. A blue arrow points from the "SYSTEM STATUS" button to the "System" table. A blue arrow also points from the "System" table to the "Service" section of the table. The "Service" section has a "Disable" link next to it. The "System" table is divided into three sections: "Service", "System", and "LAN IP". The "Service" section has two rows: "Internet Connection" and "Wireless Service", both with "OK" status. The "System" section has eight rows: "System Name", "Domain Name", "Firmware Version", "Wireless Version", "Bootrom Version", "WAN MAC Address", "LAN MAC Address", "System Time", and "System Up Time". The "LAN IP" section has two rows: "IP Address" and "Subnet Mask". The "WAN IP" section has three rows: "WAN Port Mode", "IP Address", and "Subnet Mask".

System		
Display the detailed system information		
Service	Internet Connection	OK
	Wireless Service	OK
System	System Name	PLANET WSG-401
	Domain Name	www.planet.com.tw
	Firmware Version	1.00.06
	Wireless Version	1.00a
	Bootrom Version	1.03
	WAN MAC Address	00:90:0E:00:61:C7
	LAN MAC Address	00:90:0E:00:61:C6
	System Time	2003/12/12 18:08:31
System Up Time	00D:19H:10M:21S	
LAN IP	IP Address	192.168.0.1
	Subnet Mask	255.255.255.0
WAN IP	WAN Port Mode	Static IP
	IP Address	210.66.155.68
	Subnet Mask	255.255.255.224

Figure 3-141 System Status Screen

I 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	
Username:	super
Password:	*****
<input type="button" value="Enter"/> <input type="button" value="Clear"/>	

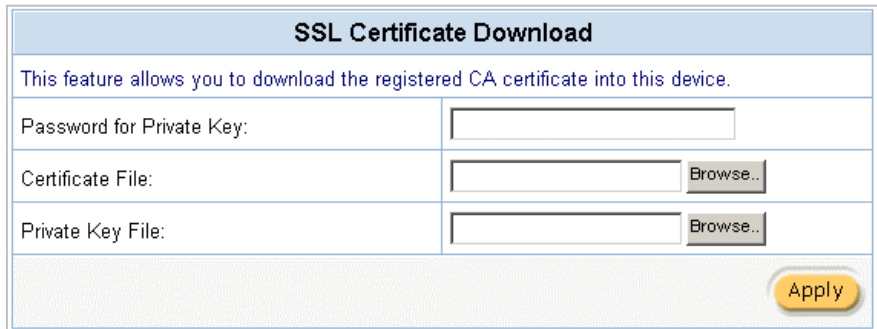
Username: **super**
Password: **super**

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Figure 3-142 Subscriber Login Page

3-4-4 SSL Certificate

The function allows you to download the registered CA certificate into the WSG-401.



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

Figure 3-143 SSL Certificate

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

3-4-5 Pin Command

The Ping function can check the WSG-401 networking connective or not.

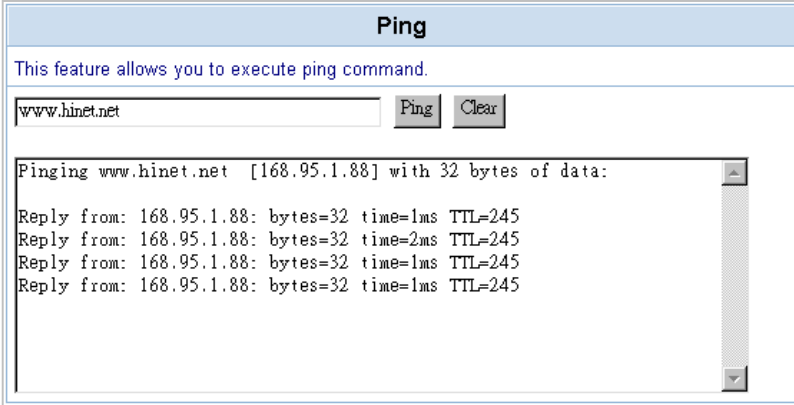


Figure 3-144 Ping Command Screen

3-4-6 Restart

If your WSG-401 is not operating correctly, you can choose this option to display the restart WSG-401 screen. Clicking the apply button restart the WSG-401, with all of your settings remaining intact.



Figure 3-145 Restart Screen

3-4-7 Logout

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

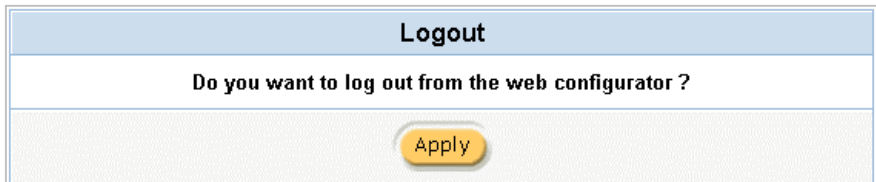


Figure 3-146 Logout Screen

Appendix A RJ-45 Connector Description

RJ-45 Ethernet Port

The WSG-401 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.

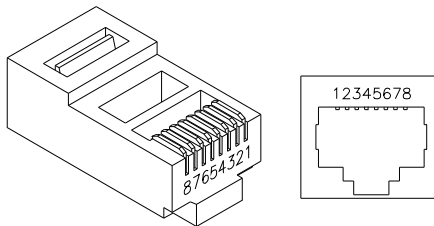


Figure A-1 RJ-45 Connector and Cable Pins

Note:

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