

Hot Spot

Wireless Subscriber Gateway

WSG-402

User's Manual



Copyright

Copyright (C) 2004 PLANET Technology Corp. All rights reserved.

The products and programs described in this User's Manual are licensed products of PLANET Technology. This User's Manual contains proprietary information protected by copyright, and this User's Manual and all accompanying hardware, software, and documentation are copyrighted.

No part of this User's Manual may be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form by any means by electronic or mechanical. Including photocopying, recording, or information storage and retrieval systems, for any purpose other than the purchaser's personal use, and without the prior express written permission of PLANET Technology.

Disclaimer

PLANET Technology does not warrant that the hardware will work properly in all environments and applications, and makes no warranty and representation, either implied or expressed, with respect to the quality, performance, merchantability, or fitness for a particular purpose.

PLANET has made every effort to ensure that this User's Manual is accurate; PLANET disclaims liability for any inaccuracies or omissions that may have occurred.

Information in this User's Manual is subject to change without notice and does not represent a commitment on the part of PLANET. PLANET assumes no responsibility for any inaccuracies that may be contained in this User's Manual. PLANET makes no commitment to update or keep current the information in this User's Manual, and reserves the right to make improvements to this User's Manual and/or to the products described in this User's Manual, at any time without notice.

If you find information in this manual that is incorrect, misleading, or incomplete, we would appreciate your comments and suggestions.

CE mark Warning

The is a class B device, In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Trademarks

The PLANET logo is a trademark of PLANET Technology. This documentation may refer to numerous hardware and software products by their trade names. In most, if not all cases, these designations are claimed as trademarks or registered trademarks by their respective companies.

Revision

User's Manual for PLANET Hot Spot WSG-402:

Model: WSG-402

Rev: 1.0 (Dec. 2004)

Part No. EM-WSG402V1

Table of Contents

1. Introduction	1
1-1 Package Contents	1
1-2 Features	2
1-3 Precautions	2
1-4 Outlook	3
1-4-1 Top Panel	3
1-4-2 Rear Panel	4
1-5 Technical Specifications	5
1-5-1 Hardware Specifications	5
1-5-2 Software Specifications	6
2. Installation	8
2-1 Wall-Mounting	8
2-2 Connecting the Antennas	9
2-3 Installation Requirements	9
2-4 Getting Start	11
2-5 How expanding your Account Generator Printer's distance	12
3. Configuring the WSG-402	13
3-1 Setting Wizard	13
3-2 Advanced Setup	37
3-2-1 System	37
3-2-2 WAN/LAN	41
3-2-3 Server	48
3-2-4 Authentication	50
3-2-5 RADIUS Authentication	52
3-2-6 Billing	56
3-2-7 Accounting	62
3-2-8 Credit Card	73
3-2-9 Keypad	79
3-2-10 Customization	86
3-2-11 Pass Through	108
3-2-12 Filtering	110
3-2-13 Share	112
3-2-14 Portal Page	113
3-2-15 Advertisement	113
3-2-16 Walled Garden	115
3-2-17 DDNS	117
3-2-18 LAN Devices	119
3-2-19 Syslog	120

3-2-20 Wireless.....	128
3-3 System Status.....	132
3-3-1 System	133
3-3-2 Account List	135
3-3-3 Account Log.....	136
3-3-4 Current User	137
3-3-5 DHCP Clients.....	138
3-3-6 Session List	138
3-3-7 LAN Devices.....	139
3-4 System Tools.....	139
3-4-1 Configuration	140
3-4-2 Firmware Upgrade	141
3-4-3 System Account.....	143
3-4-4 SSL Certificate.....	147
3-4-5 Pin Command.....	148
3-4-6 Restart.....	148
3-4-7 Logout	148
3-5 FAQ & Glossary	149
3-5-1 Frequently Asked Questions	149
3-5-2 Glossary of Terms.....	150
Appendix A Signal Connection Arrangements.....	151

1. Introduction

Inheriting the convenience of Plug-n-Play Internet access, the PLANET Wireless Subscriber Gateway WSG-402 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-402 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-402 comprises 802.11g, 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-402 combines all the functionalities in a single, tiny box, WSG-402 can work independently, no much computer expertise required, this benefit customer to deploy their Hot Spot business faster and easier than ever. With backend-RADIUS-Server, Hotspot operator can integrate WSG-402 with any kind of RADIUS Server which is standard based. In addition, WSG-ACG, a compact thermal printer allowing machine operators, clerks and cashiers to print out billing information in a minute!!

1-1 Package Contents

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

- One WSG-402
- Two antennas
- One AC Power Adapter for WSG-402
- One CD containing User's Manual
- One Quick Installation Guide
- Two screws for wall-mount
- One UTP Ethernet/Fast Ethernet cable (Cat.5 Twisted-pair)

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

1-2 Features

- Ideal Hot Spot solution
Via the integrated 802.11g wireless interface, mobile users can establish high speed Internet access without any configuration.
- Zero configuration (Plug-n-Play) Internet access
WSG-402 translates proper IP address information for Internet access, all IP configurations, either 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.
- Built-in proprietary AAA mechanism and billing system
PLANET WSG-402 integrates Web-based Authentication (including subscriber SSL logon page), selective Web-based Accounting, and proprietary billing mechanism, which can help you to prepare a billing mechanism in a very short time and bring most convenience, the least efforts for billing applications.
- RADIUS AAA support
WSG-402 provides standard based Radius Client to communicate with any standard based Radius server, in order to support AAA (Authentication, Authorization and Accounting).
- Exclusive Printer Accounting (Optional)
Machine operators may customize the printout information for different billing application.
- Security and Firewall
With built-in 64/128-bit RC4 WEP Encryption, VLAN Security for Wireless, subscriber SSL Login Page / Admin Page, VPN (IPSec/PPTP) Pass through...various security features, PLANET WSG-402 bring you an ease-of-use and most comfort safe Internet access environment.
- Ease-of-Use and Management
The built-in web management interface in WSG-402 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-402. 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 Precautions

- Never remove or open the cover. You may suffer serious injury if you touch these parts.
- Never install the system in the wet locations.
- Use only the original fitting AC power adapter otherwise there is a danger of severe electrical shock.
- Avoid exposing the WSG-402 to direct sunlight or another heat source.
- Choose a well-ventilated area to position your WSG-402.

1-4 Outlook



Figure 1-1 WSG-402 Outlook

1-4-1 Top Panel

The top panel of the WSG-402 is shown below.

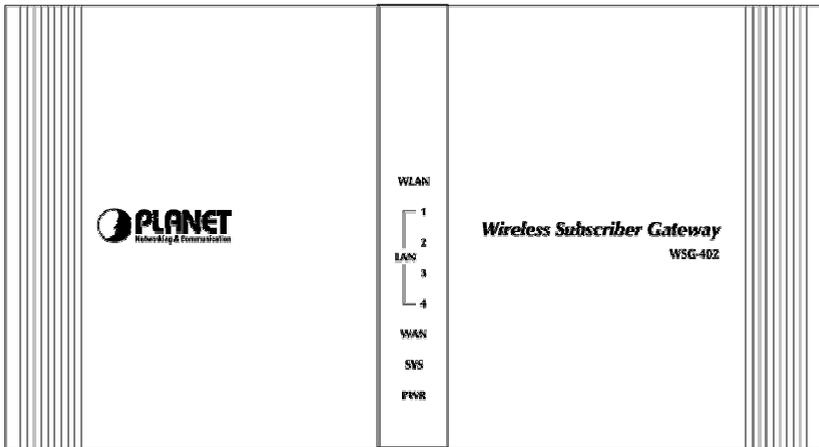


Figure 1-2 WSG-402 Top Panel

LEDs Indication

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

1-4-2 Rear Panel

The rear panel of the WSG-402 is shown below.

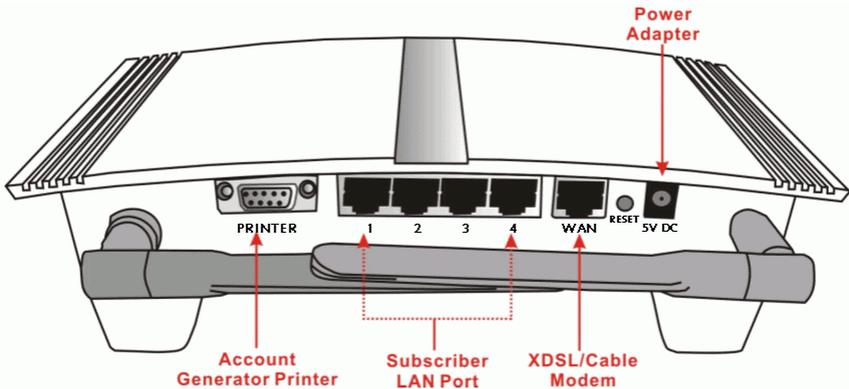


Figure 1-3 WSG-402 Rear Panel

1. Printer: Used to connect the Account Generator Printer.

2. LAN (1-4):

The rear panel supports four auto-sensing RJ-45 ports and all ports can be auto-switched to MDI-II connections. The LAN ports are used for linking hosts or other network devices.

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

4. Reset Button:

The WSG-402 has a reset button at the rear panel of the device. For some circumstances you might need to reset the WSG-402 device.

5. Power Jack: Used to connect the external power supply with the WSG-402.

1-5 Technical Specifications

1-5-1 Hardware Specifications

Network Specification

IEEE802.3 10BaseT Ethernet

IEEE802.3u 100BaseTX Fast Ethernet

IEEE802.11g 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/100BaseTX Auto cross-over)

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

Encryption

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

WPA (Wi-Fi Protected Access)

External Antenna Type

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

LED Indicators

One POWER LED

One WAN 10/100M Link/Activity LED

Four LAN 10M/100M Link/Activity LEDs

One Wireless Link/Activity LED

One System LED

Power Requirement

External Power Adapter

Input: 100-240 VAC, 50/60 Hz

Output: 5V, 2A

Environment Conditions

Operating Temperature: 0 to 50°C

Operating Humidity: 10~80% non-condensing

Certifications

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

TELEC, CE / R&TTE, C-Tick

Dimension

Size: 243 (L) x 131 (W) x 113 (H) mm

Weight: About 420g (Net)

Mounting

Desktop

Wall mounted

1-5-2 Software Specifications

Networking

- IEEE802.3 10BaseT Ethernet
- IEEE802.3u 100BaseTX Fast Ethernet
- IEEE802.11b Wireless LAN
- IEEE802.11g Wireless LAN
- 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

The followings are instructions for setting up the WSG-402. Refer to the illustration and follow the simple steps below to quickly install your WSG-402.

2-1 Wall-Mounting

The WSG-402 can be wall-mounted on a wall by applying the two mounting brackets on screws.

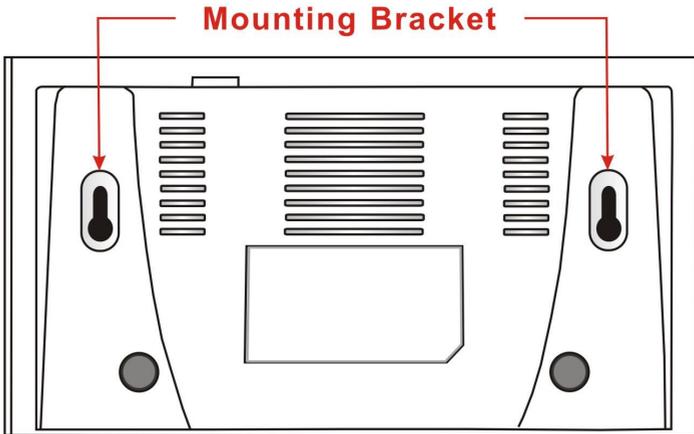


Figure 2-1 Wall-Mounting Bracket - Bottom of WSG-402

Please refer to the following instructions for mounting a WSG-402 on a wall or other surface.

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

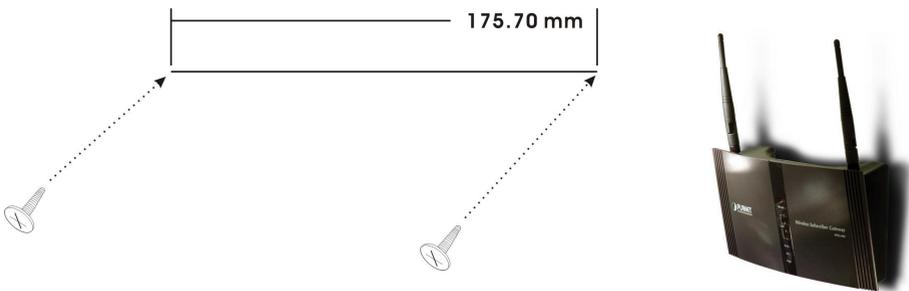


Figure 2-2

2. Hang WSG-402 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-402 rear panel connectors could pull out the WSG-402 from the wall.

2-2 Connecting the Antennas

The WSG-402 provides two antenna connectors on the rear of the unit.

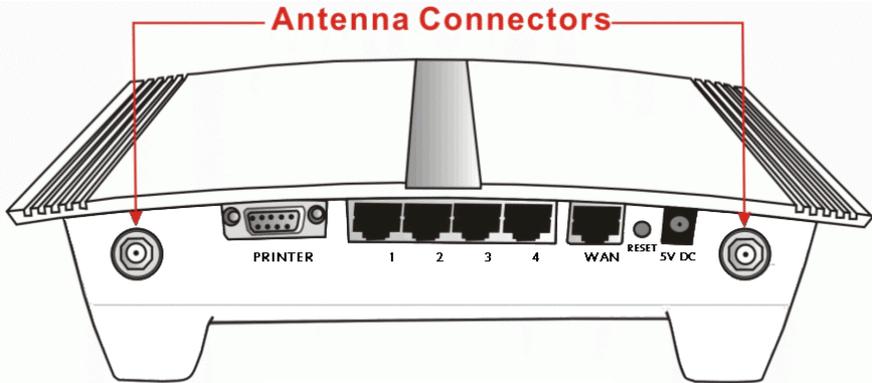


Figure 2-3 Antenna Connectors

2-3 Installation Requirements

Before installing the WSG-402, make sure your network meets the following requirements.

System Requirements

The WSG-402 requires one of the following types of software:

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

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

ISP Requirements

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

Dynamic IP

- Dynamic IP Setting

Fixed IP

- Your fixed IP address for the WSG-402
- Your subnet mask for the WSG-402
- Your default gateway IP address
- Your DNS IP address

PPPoE

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

PPTP

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

Your PC's Requirements

The Static IP settings for the PC

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

Note:

1. The gateway's default IP address setting is "192.168.0.1".
2. The gateway's default subnet mask setting is "255.255.255.0".

The Dynamic IP settings for the PC

We recommend that you leave your IP settings as automatically assigned. By default, the WSG-402 is a DHCP server, and it will give your PC the necessary IP settings.

2-4 Getting Start

1. Place the WSG-402 and Account Generator Printer on a flat work surface.
2. Connect the DB9 connector of printer cable to the WSG-402's device port at the rear panel of the device.
3. Connect the other end of the printer cable to the Account Generator Printer's RJ11 port at the rear panel of the device. 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-402'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-402. Check that the LAN Port Status LED lights.
7. Configure the further parameters via a Web browser.

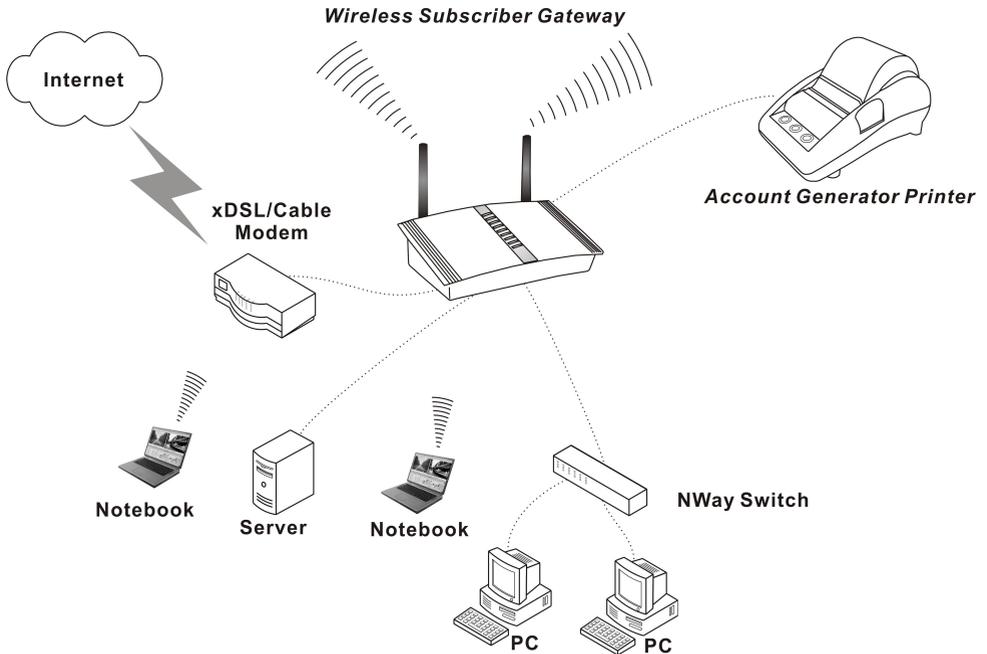


Figure 2-4 WSG-402 Connection

2-5 How expanding your Account Generator Printer's distance

1. Place the WSG-402 and Account Generator Printer on a flat work surface.
2. Connect the DB9 connector of printer cable to the WSG-402's device port at the rear panel of the device.
3. Connect the other end of the printer cable to the telephone jack's RJ11 port.
4. Use the phone line (2-pair cable with RJ11 plugs) to connect the Account Generator Printer's RJ11 port at the rear panel of the device.
5. Connect the other end of the phone line to the telephone jack's RJ11 port. Check that the account generator printer status LED lights.
6. Done.

Wireless Subscriber Gateway

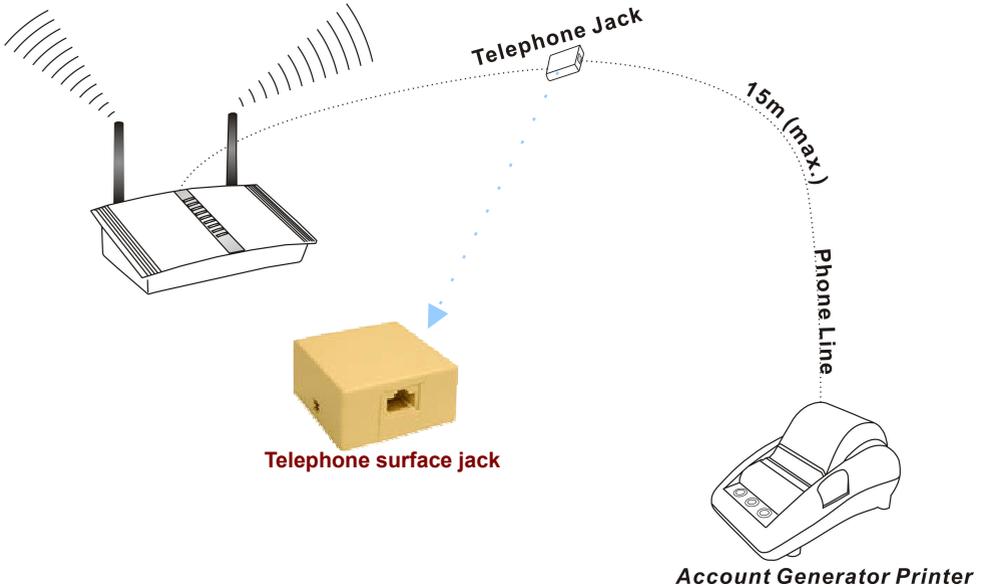


Figure 2-5 Account Generator Printer Connection

Note: By using the phone line you can increase the maximum distance up to 15 meter.

3. Configuring the WSG-402

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**.



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

Step 2: The WSG-402 configuration tools menu will appear. In the Username and Password field, type the factory default user name **admin** and password **password** and click **Login**. If you are first time setting the system, the wizard setup screen will appear. You will be guided, step-by-step, through a basic setup procedure.

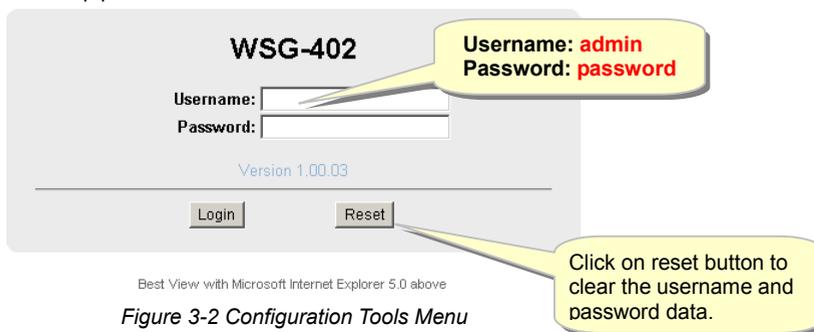


Figure 3-2 Configuration Tools Menu



Figure 3-3 Wizard Setup Screen

System Quick View

System			
System/Host Name		Firmware Version	1.00.03
Location Name		Domain Name	
System Time	2004/12/8 16:38:05	System Up Time	00D:01H:46M:53S
WAN MAC address	00:90:0E:01:11:C5	LAN MAC address	00:90:0E:01:11:C4

Network			
WAN Status	Established	WAN Type	Static IP
WAN IP Address	210.66.155.89	LAN IP Address	192.168.0.1
WAN Subnet Mask	255.255.255.224	LAN Subnet Mask	255.255.255.0
Default Gateway	210.66.155.94	DNS	139.175.252.16 168.95.1.1

Wireless			
Wireless Service	OK	ESSID	Wireless
Wireless Channel	6	Secure Mode	Disable

Traffic	
WAN	TxData: 19966 RxData: 0 TxError: 0 TxError: 0
LAN	TxData: 2664608 RxData: 570281 TxError: 0 TxError: 0
Wireless	TxData: 512 RxData: 0 TxError: 2409 TxError: 0

[refresh ↻](#)

Best View with Microsoft Internet Explorer 5.0 above

Figure 3-4 System Quick View

Note:

- ☞ This Web agent is best viewed with IE 5.0 or Netscape 6.0 and above browsers.
- ☞ If you would like to change the password please see Step 10.
- ☞ Username and Password can consist of up to 20 alphanumeric characters and are case sensitive.
- ☞ If for some reason your password is lost or you cannot gain access to the WSG-402 Configuration Program, please press the reset button to load the device to manufacturer defaults.
- ☞ If the WSG-402 doesn't send packet in 5 minutes (default), the WSG-402 wills logout automatically.
- ☞ Proxy needs to set disable first when administrator accesses admin UI.

Step 3: Internet Connection Setting

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

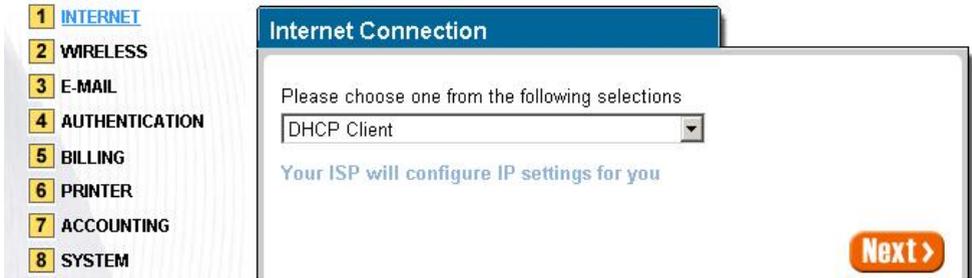


Figure 3-5 Internet Connection Setting Screen

- **DHCP Client**

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



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

- **Static IP Setting**

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

Internet Connection

Please choose one from the following selections

Static IP Setting

You have static IP information from your ISP

IP Address:

Subnet Mask:

Gateway IP address:

Primary DNS Server:

Secondary DNS Server:

Next >

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

Item	Default	Description
IP Address	0.0.0.0	Enter the IP address provided by your ISP.
Subnet Mask	0.0.0.0	Enter the subnet mask 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.

● 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 Max Idle Time: Min.

Keep alive Redial Period: Sec.

Next >

Figure 3-8 Internet Connection Setting Screen—PPPoE Setting

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

Item	Default	Description
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your WSG-402 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-402 to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
Keep alive and Redial Period		
Keep alive	Disable	This option keeps your PPPoE enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	

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

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

Internet Connection

Please choose one from the following selections

PPTP (Mostly for Europe ADSL modem users) ▾

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

My IP Address:

My Subnet Mask:

Gateway IP address:

PPTP Server IP Address:

Username:

Password:

PPP MTU Setting:

TCP MSS Setting:

Connection ID/Name:

Connect on Demand Max Idle Time: Min.

Keep alive Redial Period: Sec.

Next >

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

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

Item	Default	Description
Gateway IP Address	Empty	Enter the PPTP server Gateway IP address provided by your ISP.
PPTP Server IP Address	Empty	Enter the PPTP server IP address provided by your ISP.
Username	Empty	Enter the user name provided by your ISP. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter the user password provided by your ISP. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1460	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1400	MSS (Maximum Segment Size) specifies maximum segment size.
Connection ID/Name	Empty	Enter the connection ID or connection name. The connection ID/Name can consist of up to 81 alphanumeric characters and is case sensitive.
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your WSG-402 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-402 to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
Keep alive and Redial Period		
Keep alive	Disable	This option keeps your PPTP enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	

Step 4: Wireless Setting

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

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

Wireless Settings

ESSID: (Case Sensitive)
Channel: (Leave default if you don't know what to choose)

< Back Next >

Figure 3-10 Wireless Setting Screen

Item	Default	Description
ESSID	Wireless	The ESSID is the unique name that is shared among all points in a wireless network. It is case sensitive and must not exceed 32 characters.
Channel	6	Enter the channel ID for wireless connection.

Step 5: E-mail Server Setting

WSG-402 allows an extra Email server parameter to forward the subscriber's E-mail.

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

E-mail Service

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

No
 Yes , I allow guests to send e-mail as usual even if their configured mail server is unavailable or behind a corporate firewall

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

SMTP Port:

< Back Next >

Figure 3-11 E-mail Service Setting Screen

Item	Default	Description
Email Server Redirect	No	Disables or enables email server redirect function. To prevent some subscriber's original Email server may protect by firewall or NAT network. WSG-402 provides an extra Email server parameter to forward the subscriber's Email. The WSG-402 not only forwards the subscribers' E-mail via other E-mail server but also changes the SMTP header. The recipient of your E-mail sees the message as if you sent it from your local Internet Service Provide, not form the hotel or other place.
Email Server's IP address or Domain name	Empty	Before setting this field, please make sure the E-mail sever relay function is opened. Enter the email server IP address or domain name. The field must not exceed 50 characters.
SMTP Port	25	Enter the SMTP port. The SMTP port allowed range is 25 or 2500 to 2599.

Step 6: Authentication Service Setting

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

Authentication Service

Do you need to authenticate users ?

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

No, The users can access the Internet without authentication

< Back **Next >**

Figure 3-12 Authentication Service Setting Screen

Item	Default	Description
Built-in Authentication/ No Authentication	No No Authentication)	Yes— WSG-402 provides Built-in Authentication for service provider to build up an Internet service without any extra authentication software. If Yes is selected, service provider can generate the subscriber account inside WSG-402, and the system will authenticate the subscriber login according to the generated account. No— Subscriber can direct access the Internet without enter username and password.

Step 7: Billing Profile Setting

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

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

Billing Profile

What is your service and price plan ?

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

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

Service and Price Plan

Currency: \$ (Number of decimals places:)

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"/>

< Back
Next >

Figure 3-13 Billing Profile Setting Screen

Item	Default	Description
Service	Time to Finish	<p>Options: Time to Finish or Accumulation.</p> <p>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.</p> <p>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.</p>

Item	Default	Description
Currency	\$	Enter the appropriate currency unit or currency symbol.
Number of decimals places	2	Enter the billing decimal value. The field maximum value is 3.
No	01~03	The index number of billing profile. In Wizard setup, we provide only 3 billing profile.
Name	30 minutes/ 1 hour/ 2 hours	It is the name of billing profile. The maximum allowed characters length is 12.
Usage Time	30 minutes/ 1 hour/ 2 hours	The duration of the billing period. When this period expires, user account will be discontinued.
Charge	1.00/2.00/3.00	Enter the amount of Internet service. The amount of 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-402 to press one button to generate accounts and receipt immediately without PC operating. Non-exclusive printer can use the PC Web-based browser to print out user account.

Figure 3-14 Printer Setting Screen

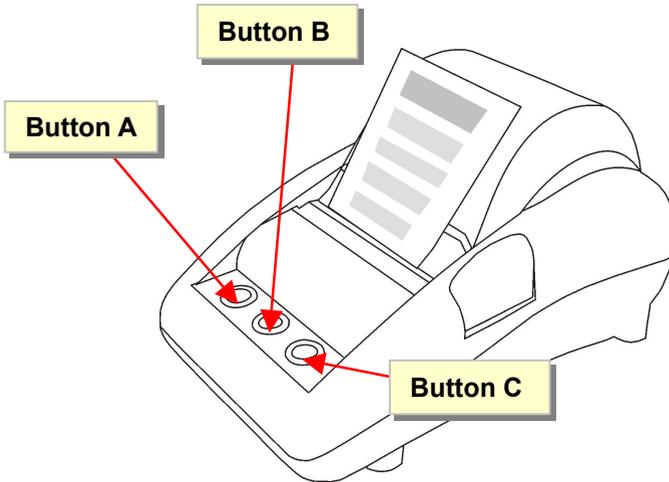


Figure 3-15 Account Generator Printer

Step 9: Accounting Setting

● Three-buttons Printer Setting

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

Account Generator

Three-buttons Printer Setting

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

Printout

Number of copies to print : 1 ▾

[Customize printout text](#)

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

< Back
Next >

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

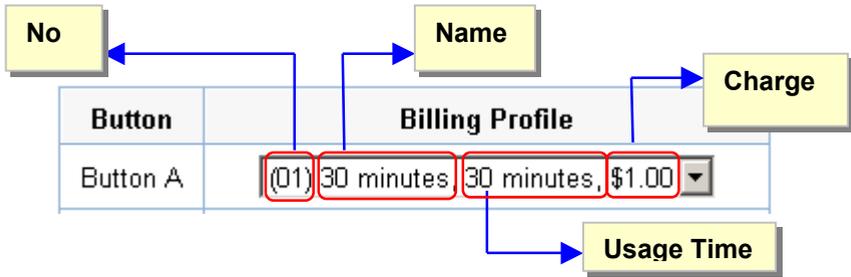


Figure 3-17 Billing Profile Setting Screen

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

Account Generator

Web-based Account Generator Setting

[Preview / Operate](#)

	Button	Billing Profile
Setting	Button A	(01) 30 minutes, 30 minutes, \$1.00 ▾
	Button B	(02) 1 hour, 1 hours, \$2.00 ▾
	Button C	(03) 2 hours, 2 hours, \$3.00 ▾
Printout	Number of copies to print : 1 ▾	
	Customize printout text	

Please set your password for web-based account generator

Username	<input type="text" value="account"/>
Password	<input type="password" value="*****"/> Confirm: <input type="password"/>

[< Back](#)[Next >](#)

Web-based Account Generator Setting

Figure 3-18 Web-based Account Generator Setting Screen

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

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

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

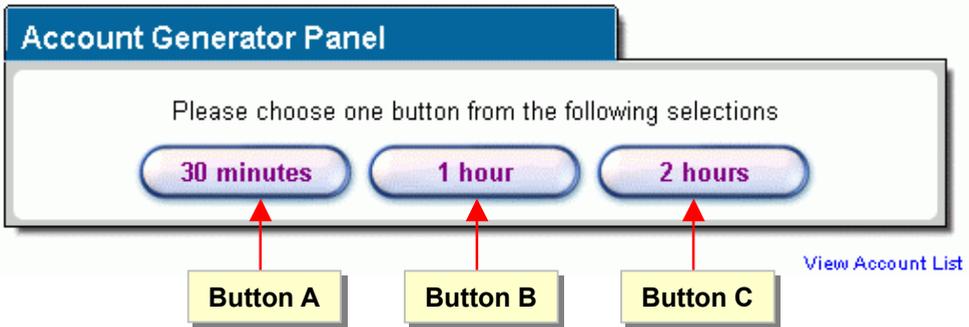


Figure 3-19 Account Generator Panel

Click on button to add a new account.

Welcome!

Hotspot Internet Service

Username:rjh5nm56

Password:bp627q46

Billing: Time to Finish

Service: 2 hours

Unit: 1

Usage Time: 2:00:00

Total \$3.00

ESSID: Wireless

2004/12/13 16:46:56

S/N:000003

Please start your account before

2004/12/14 04:46:56

Thank you very much !

Close

Print

Figure 3-20 Example-Account Printout

View Account List

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

ACCOUNT LIST

List existing account's information. [refresh](#)

S/N	Status	Username	Usage Time	Time Created	Login Time	Expiration Time	Delete
000003	In-used	rjh5nm56	2:00:00	2004/12/13 16:46:56	2004/12/13 16:59:15	2004/12/13 18:59:15	<input type="checkbox"/>
000004	Un-used	m29mmp43	2:00:00	2004/12/13 16:59:43		2004/12/14 04:59:43	<input type="checkbox"/>

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

Figure 3-21 Account List



Click on refresh button to update the account list page.

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

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

[Delete](#)

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

[Delete All](#)

Delete all accounts in account list.

Note: This page will refresh automatically every 5 minutes.

Customize Printout Text
CUSTOMIZATION

Account Printout Customization	
<input type="checkbox"/> Logo	* Only for PC-connected printer
Title:	Welcome! (Max.=75)
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)
WPA Encryption:	WPA: (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.=75)

 [Preview of PC-connected printer](#)

 [Preview of account generator printer](#)

 [Preview of Post-Paid Printout](#)



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

Figure 3-22 Customize Printout Text Setting Screen

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

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

Welcome!

Hotspot Internet Service

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

S/N:000001

2004/12/13 17:03:13

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

Thank you very much !

Close

Print

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

Welcome!

Hotspot Internet Service

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

S/N:000001

2004/12/13 18:48:17

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

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

Thank you very much !

Close

Print

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



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

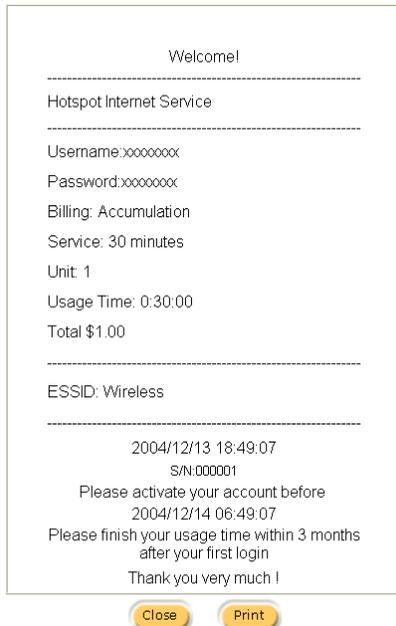


Figure 3-26 Example- Account Generator Printer Printout (Accumulation)

Example Preview

1. Create accounts

Welcome!

S/N:001234

Hotspot Internet Service

Username:xxxxxxxx

Password:xxxxxxxx

ESSID: Wireless

2004/12/13 17:09:19
Please activate your account
before
2004/12/14 05:09:19
Thank you very much !

Press "ENTER"

2. Bill accounts

Welcome!

S/N:001234

Hotspot Internet Service

Username:xxxxxxxx

Password:xxxxxxxx

Usage Time:

Billing: Time to Finish

Total \$ 100.00

2004/12/13 17:09:19

Thank you very much !

Press "*" "001234" and "ENTER"

Close

Figure 3-27 Example-Post-Paid Printout

Step 10: System Setting

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

System Setting

Please be sure to change your password:

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

System date and time: Get from my Computer

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

Secure Administrator IP Address All

Selected

< Back
FINISH

Figure 3-28 System Setting Screen

Item	Default	Description
Username	admin	Enter the user name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	admin	Enter the user password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
Confirm	Empty	Enter the password of administrator for confirmation.
System date and time	YYYY/MM/DD HH:MM:SS	<div style="background-color: #d3d3d3; padding: 5px; text-align: center; 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.



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

3-2 Advanced Setup

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

1. System
2. WAN/LAN
3. Server
4. Authentication
5. RADIUS
6. Billing
7. Accounting
8. Credit Card
9. Keypad
10. Customization
11. Pass Through
12. Filtering
13. Share
14. Portal Page
15. Advertisement
16. Walled Garden
17. DDNS
18. LAN Devices
19. Syslog
20. Wireless

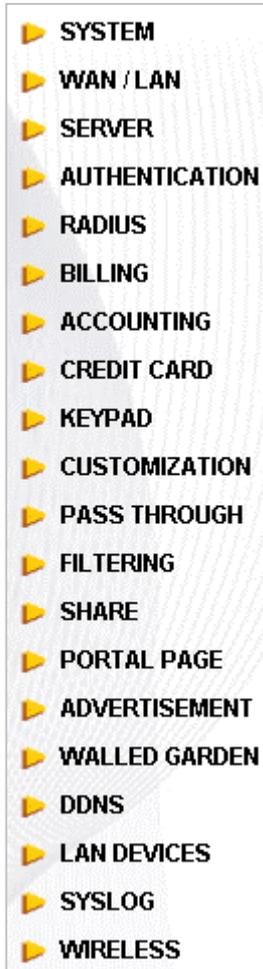


Figure 3-29 Advanced Setting Item Screen

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

3-2-1 System

Define the WSG-402 System configuration.

SYSTEM

System/Host Name	<input type="text"/>
Domain Name	<input type="text"/>
Location Information	Location Name: <input type="text"/> (Max.=50)
	Address: <input type="text"/> (Max.=200)
	City: <input type="text"/> (Max.=50)
	State / Province: <input type="text"/> (Max.=50)
	Zip / Postal Code: <input type="text"/> (Max.=10)
	Country: <input type="text"/> (Max.=50)
	Contact Name: <input type="text"/> (Max.=50)
	Contact Telephone: <input type="text"/> (Max.=50)
	Contact FAX: <input type="text"/> (Max.=50)
	Contact Email: <input type="text"/> (Max.=50)
Date/Time	Date: 2004 / 12 / 13 (Year/Month/Day)
	Time: 17 : 19 : 58 (Hour : Minute : Second)
	<input type="button" value="Get from my Computer"/> <input type="button" value="Get from NTP server"/>
	<input type="checkbox"/> NTP Setting
	Server IP/Domain Name: <input type="text"/>
	Time Zone: GMT -12:00
Update Time: 0 hours	
<input type="checkbox"/> Daylight Saving Time	Start Date: 4 Month / 1 Day
	End Date: 10 Month / 31 Day

Figure 3-30 System Setting Screen

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

Figure 3-31 System Setting Screen

Item	Default	Description
System/Host Name	Empty	The system name can consist of up to 40 alphanumeric characters.
Domain Name	Empty	The Domain name can consist of up to 80 alphanumeric characters.
Location Information	Empty	Enter your location information.
Date/Time		
Date (Year/Month/Day)	System Date	The system date of the WSG-402. The valid setting of year is from 2002 to 2035.
Time (Hour:Minute:Second)	System Time	The system time of the WSG-402.
<input type="button" value="Get from my Computer"/>	-	Click "Get from my Computer" button to correct the system date and time.
<input type="button" value="Get from NTP server"/>	-	Click "Get from NTP server" button to correct the system date and time.

Item	Default	Description
NTP Setting	Disable	Enables or disables NTP (Network Time Protocol) Time Server. Network Time Protocol can be utilized to synchronize the time on devices across a network. A NTP Time Server is utilized to obtain the correct time from a time source and adjust the local time.
Server IP/Domain Name	Empty	Enter the IP address/domain name of NTP server. The maximum allowed characters length is 100.
Time Zone	GMT-12:00	Select the appropriate time zone for your location.
Update Time	0 hours	Enter the number of hours for update time.
Daylight Saving Time	Disable	Enables or disables Daylight Saving Time (DST).
	Month/Day	Set the Daylight Saving Time (DST) on the WSG-402. Adjust the begin time and end time.
NAT (Network Address Translation)		
NAT	Enable	Enables or disables NAT Address Translation function.
IP Plug and Play (iPnP Technology)	Enable	Enables or disables plug & play function. When enabled, the user needn't change their network configuration to access the Internet.
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 enable plug and play is selected, you can enable Layer 2 Isolation Security function. When the "Layer 2 Isolation Security" enabled, everyone cannot communicate with each other.
Secure administrator IP Addresses	Any	Options: Any and Specify. Administrator can specify 5 IP addresses or a range to allow remote control access from network.
Multicast Pass Through	Disable	This function allows for multiple transmissions to specific recipients at same time.

Item	Default	Description
Allow remote user to ping the device	Enable	This function allows remote user to ping the WSG-402 through Internet. Ping is normally used to test the physical connection between two devices, to ensure that everything is working correctly.
SSL Certificate	Default	Option: default or customize certificate, These are two ways to create a certificate, one is purchase a certificate from a certificate authority (Ex. Verisign or Thawte), and another is creating a self-certificate (For example: Uses OpenSSL tool).

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

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

RESTART

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



Figure 3-32 Restart Dialog Box

3-2-2 WAN/LAN

WAN / LAN

LAN	<p>The Device IP Address and Subnet mask settings</p> <p>IP Address: <input style="width: 150px;" type="text" value="192.168.0.1"/></p> <p>Subnet Mask: <input style="width: 150px;" type="text" value="255.255.255.0"/></p>
WAN MAC Address	<p><input checked="" type="radio"/> Default</p> <p><input type="radio"/> Change to: <input style="width: 30px;" type="text" value="00"/> : <input style="width: 30px;" type="text" value="00"/></p>
WAN Port Mode	<p><input checked="" type="radio"/> DHCP Client (Mostly for Cable modem users or Local Area Network)</p> <p><input type="radio"/> Static IP (Mostly for advanced Local Area Network environment)</p> <p><input type="radio"/> PPPoE (Mostly for ADSL modem users)</p> <p><input type="radio"/> PPTP (Mostly for Europe ADSL modem users)</p>
	

Figure 3-33 WAN/LAN Setting Screen

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

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

RESTART

Do you want to restart the system ?
<input type="button" value="Apply"/>

Figure 3-34 Restart Dialog Box

● **Device IP (LAN IP) Setting**

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"/>

Figure 3-35 Device IP (LAN IP) Setting

Item	Default	Description
IP Address	192.168.0.1	The internal LAN IP address of your WSG-402.
Subnet Mask	255.255.255.0	The subnet mask of your WSG-402.

● **WAN MAC Address**

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

Figure 3-36 WAN MAC Address Setting

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

● **WAN Port Mode**

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

Figure 3-37 WAN Port Mode Setting

DHCP Client

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

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

Figure 3-38 DHCP Client Setting Screen

Static IP

Static IP (Mostly for advanced Local Area Network environment)

You have static IP information from your ISP

IP Address:

Subnet Mask:

Gateway IP address:

Primary DNS Server:

Secondary DNS Server:

Figure 3-39 Static IP Setting Screen

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

PPPoE

PPPoE (Mostly for ADSL modem users)

Your ISP requires you to input username / password

Username:

Password:

PPP MTU Setting:

TCP MSS Setting:

Service Name:

Connect on Demand Max Idle Time: Min.

Keep alive Redial Period: Sec.

Figure 3-40 PPPoE Setting Screen

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

Item	Default	Description
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your WSG-402 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-402 to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
Keep alive and Redial Period		
Keep alive	Disable	This option keeps your PPPoE enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	

● PPTP

PPTP (Mostly for Europe ADSL modem users)

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

My IP Address:

My Subnet Mask:

Gateway IP address:

PPTP Server IP Address:

Username:

Password:

PPP MTU Setting:

TCP MSS Setting:

Connection ID/Name:

Connect on Demand Max Idle Time: Min.

Keep alive Redial Period: Sec.

Figure 3-41 PPTP Setting Screen

Item	Default	Description
My IP Address	Empty	A PPTP local IP address for the xDSL/Cable connection (provided by your ISP).
My Subnet Mask	Empty	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.

Item	Default	Description
Password	Empty	Enter your PPTP password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1460	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1400	MSS (Maximum Segment Size) specifies maximum segment size.
Connection ID/Name	Empty	Enter the connection ID or connection name. The connection ID/Name can consist of up to 81 alphanumeric characters and is case sensitive.
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your WSG-402 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-402 to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
Keep alive and Redial Period		
Keep alive	Disable	This option keeps your PPTP enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	

3-2-3 Server

SERVER

Web Server	Web Server Port: <input type="text" value="80"/> <input type="checkbox"/> SSL Security Administrator Idle-Timeout: <input type="text" value="5"/> Min(s)(1 - 1440)
DHCP Server	<input type="radio"/> DHCP Disable <input type="radio"/> DHCP Relay <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> DHCP Server IP Address: <input type="text"/> </div> <input checked="" type="radio"/> DHCP Server <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> IP Pool Starting Address: <input type="text" value="192.168.0.2"/> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> Pool Size: <input type="text" value="253"/> (Max.=253) </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> Lease Time: <input type="text" value="300"/> (Minutes) </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> Primary DNS Server: <input type="text" value="168.95.1.1"/> </div> <div style="border: 1px solid black; padding: 2px;"> Secondary DNS Server: <input type="text"/> </div>
Email Server Redirect	IP Address or Domain Name: <input type="text"/> SMTP Port: <input type="text" value="25"/> (25, 2500 - 2599)
<input type="button" value="Apply"/>	

Figure 3-42 Server Setting Screen

Item	Default	Description
Web Server		
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-402 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-402'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.
Pool Size	253	The DHCP pool size range is 1 to 253.
Lease Time	300 Minutes	The DHCP lease time. The DHCP lease time range is 1 to 71582788 minutes.
Primary DNS Server	168.95.1.1	Enter the IP address of the network's primary DNS server.
Secondary DNS Server	Empty	Enter the IP address of a second DNS server on the network.
Email Server Redirect	To prevent some subscriber's original Email server may protect by firewall or NAT network. WSG-402 provides an extra Email server parameter to forward the subscriber's Email. The WSG-402 not only forwards the subscribers' E-mail via other E-mail server but also changes the SMTP header. The recipient of your E-mail sees the message as if you sent it from your local Internet Service Provide, not form the hotel or other place. Note: Before setting this sever, please make sure the e-mail sever relay function is opened. It must not exceed 50 characters.	
IP Address or Domain Name	Empty	Enter the E-mail server IP address or domain name.
SMTP Port	25	Enter the SMTP port number for mail server. The SMTP port allowed range is 25 or 2500 to 2599.

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

3-2-4 Authentication

AUTHENTICATION

Authentication Type	<input type="radio"/> No Authentication <input checked="" type="radio"/> Built-in Authentication Current User Information Backup <input type="text" value="1"/> Min(s)(1 - 1440) <input type="radio"/> User Agreement Redirect Login Page URL: <input type="text"/> Code
SSL Login Page	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
<input type="button" value="Apply"/>	

Figure 3-43 Authentication Setting Screen

Item	Default	Description
Authentication Type	No Authentication	<p>Option: No Authentication, Built-in Authentication or User Agreement.</p> <p>No Authentication— Subscriber can direct access the Internet without enter username and password.</p> <p>Built-in Authentication— WSG-402 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-402, and the system will authenticate the subscriber login according to the generated account.</p> <p>User Agreement— Subscriber must accept the service usage agreement before they can access the Internet.</p>
Current User Information Backup	1 Min(s)	<p>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.</p>
Redirect Login Page URL	Empty	<p>The input format can be http://www.yahoo.com. The maximum character of the URL Link is 200.</p>

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

Redirect Page Sample Code

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

Close

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

Figure 3-44 Preview Redirect Login Page Code

Item	Default	Description
SSL Login Page	Disable	Enables or disables SSL security of login page.

Apply

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

3-2-5 RADIUS Authentication

RADIUS

<input checked="" type="radio"/> Disable	
<input type="radio"/> Enable	
<input checked="" type="radio"/> 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.
<input type="radio"/> 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:	<input type="text" value="5"/> Min(s)(1 - 1440)
Primary RADIUS Server	Server IP address <input type="text"/>
	Authentication Port <input type="text" value="1812"/>
	Accounting Port <input type="text" value="1813"/>
	Shared Secret Key <input type="text"/>
Secondary RADIUS Server	Server IP address <input type="text"/>
	Authentication Port <input type="text" value="1812"/>
	Accounting Port <input type="text" value="1813"/>
	Shared Secret Key <input type="text"/>
Retry times when Primary fail	<input type="text" value="1"/>
Accounting Service	<input type="radio"/> Disable <input checked="" type="radio"/> Enable Interim Update Time: <input type="text" value="5"/> Min(s)
Authentication Method	<input type="text" value="CHAP"/>
Smart Client	
<input type="checkbox"/> IPASS GIS	
Login Mode	<input checked="" type="radio"/> Directly Reply <input type="radio"/> Proxy Reply with "Redirect Login Page" URL <input type="radio"/> Proxy Reply with Specific URL <input type="text"/>
<input type="button" value="Apply"/>	

Figure 3-45 Authentication Setting Screen

Item	Default	Description
RADIUS Authentication	Disable	<p>Option: No Authentication or RADIUS Server.</p> <p>Disable (No Authentication) —</p> <p>Subscriber can direct access the Internet without enter username and password.</p> <p>Enable (RADIUS Authentication) —</p> <p>WSG-402 provides “RADIUS Authentication” for service provider to build up an Internet service with RADIUS server. If RADIUS Authentication is enabled, all subscribers’ authentication will send to RADIUS Server by RADIUS protocol (RFC 2865, 2866).</p>
Time to Finish/ Accumulation	Enable	Service provider provides two different accounting calculate for the Internet service.
Idle Time Out	5 Minutes	The idle time out valid range is 1-1440 minutes.
Primary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number; the authentication port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number; the accounting port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	The share secret key, the key number also has to match with the Server setting. Up to 64 characters are allowed.
Secondary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number; the authentication port number must match with the secondary RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number; the accounting port number must match with the secondary RADIUS server setting. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	The share secret key, the key number also has to match with

		the secondary RADIUS Server setting. Up to 64 characters are allowed.
--	--	---

Item	Default	Description
Retry times when Primary fail	1	Specify the retry times when primary fail.
Accounting Service	Enable	Enables or disables the accounting service.
Interim Update Time	5 Minutes	Specify the interim update time.
Authentication Method	CHAP	Enter the authentication method of RADIUS server.
Smart Client		
IPASS GIS	Disable	Enables or disables IPASS GIS roaming function.
Login Mode	Directly Reply	Options: Directly Reply, Proxy Reply with "Redirect Login Page" URL and Proxy Reply with Specific URL. The login mode information for the IPASS GIS connection. (Provided by your ISP).

3-2-6 Billing

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

BILLING

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

Enable Credit Card Service

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

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

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

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

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

Billing Profile

Currency: \$ (Number of decimals places:)

Tax Percentage: %

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

Figure 3-46 Billing Setting Screen

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

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



Figure 3-47 Message Box

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

CREDIT CARD

Authorize.net

Version
3.1

Merchant ID

Merchant Password Need Password:

Merchant Transaction Key

Payment Gateway/

Email Additional Information

Merchant Name: (max. 40 characters)

Username and Password

Usage Time

iValidate.net

Merchant ID

Terminal ID

Secure Server Address

Credit Card icons to be displayed on the login page

[Apply](#)

Figure 3-48 Credit Service Setting Screen



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

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

Item	Default	Description
Idle Time Out	5 Min(s)	The idle time out valid range is 1-1440. If the idle time out is set as 5 minutes, it means if the account doesn't send packet in 5 minutes, the account will logout automatically.

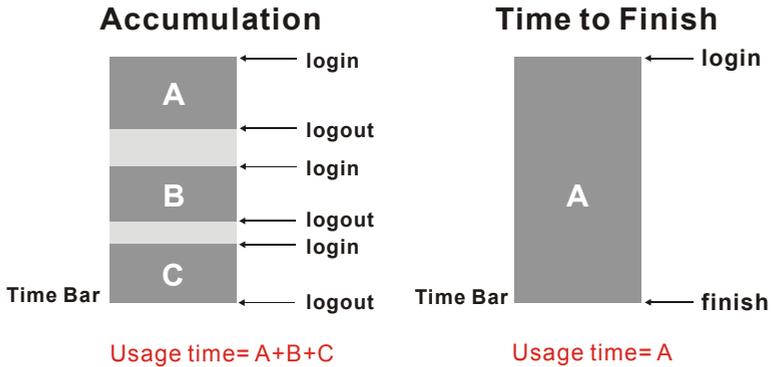


Figure 3-50 Accumulation and Time to Finish

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

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

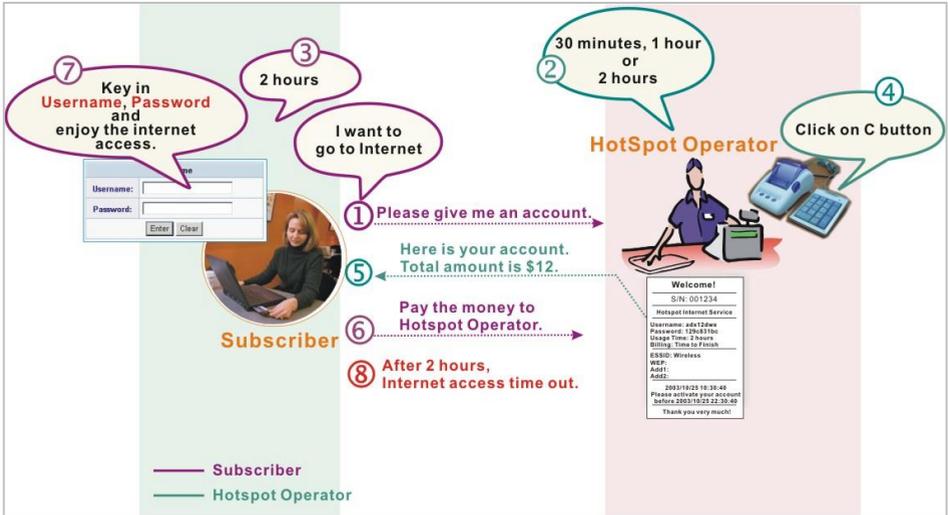


Figure 3-51 Pre-paid Procedure Diagram

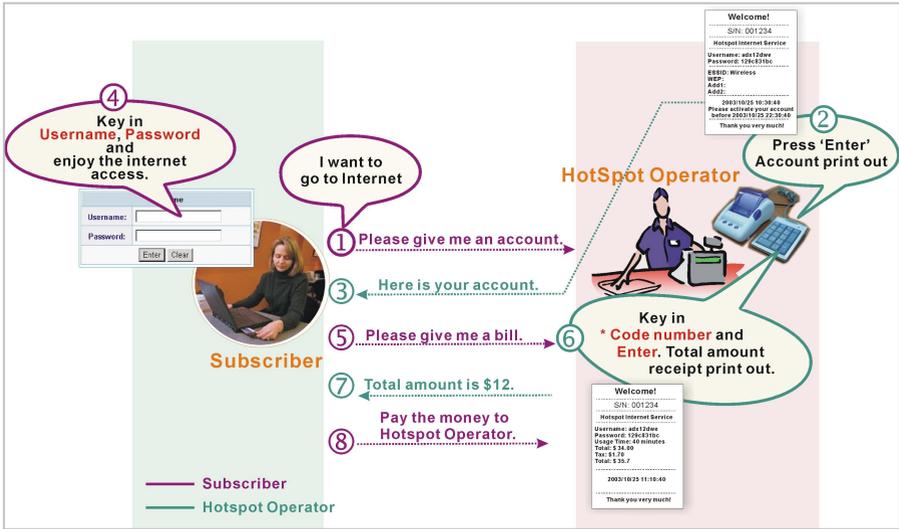


Figure 3-52 Post-paid Procedure Diagram



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

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



Figure 3-53 Success Dialog Box

3-2-7 Accounting

This function allow service provider to generate the subscriber accounts.

ACCOUNTING

Expiration	Un-used account will be deleted after <input type="text" value="12"/> hours 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 hours, \$2.00"/>	
Button C	<input type="text" value="(03) 2 hours, 2 hours, \$3.00"/>	
Print to...	<input checked="" type="radio"/> Account Generator Printer <input type="radio"/> PC-Connected Printer	

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

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

Figure 3-54 Accounting Setting Screen

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

Figure 3-55

Item	Default	Description
Expiration		
Un-used account will be deleted after ~hours automatically	12 hours	Enter the number of hours. The field maximum value is 168 hours.
Accumulation account will be deleted after logged in ~	3 months	Enter the number and select time unit from list box. The field maximum value is 120 month/3650 days/87600 hours.
Printout		
Number of copies to print	1	The system allows you to print all your bills. Select one number of copies by clicking in the list box.
Can be replenished by subscriber	Enable	Click the check box to enable the replenish function.

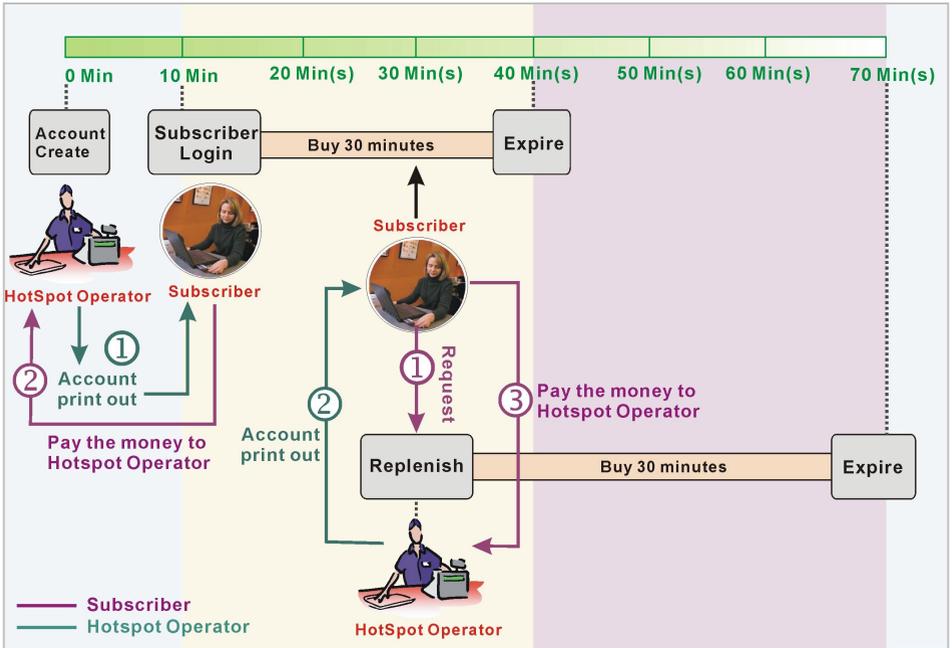


Figure 3-56 Account Process Diagram

Can be replenished by subscriber=Enable

● **Web-based Accounting Generator**

Web-based Account Generator Panel
Preview / Operate

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

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

Figure 3-57 Web-based Account Generator Panel Setting Screen

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

Preview / Operate

Click on button to preview and operate account generator panel.

Account Generator Panel

Please choose one button from the following selections

30 minutes

1 hour

2 hours

[View Account List](#)

Figure 3-58 Account Generator Panel

Welcomel

Hotspot Internet Service

Username:rjh5nm56
Password:bp627q46
Billing: Time to Finish
Service: 2 hours
Unit: 1
Usage Time: 2:00:00
Total \$3.00

ESSID: Wireless

2004/12/13 16:46:56
S/N:000003
Please start your account before
2004/12/14 04:46:56
Thank you very much !

Close Print

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

Welcome!

Hotspot Internet Service

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

S/N:000001

2004/12/13 17:03:13

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

Thank you very much !

Close

Print

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

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

```

Welcome!
-----
Hotspot Internet Service
-----
Username:x9yij837
Password:nmHta837
Billing: Accumulation
Service: 2 hours
Unit: 1
Usage Time: 2:00:00
Total:$3.00
-----
ESSID: Wireless
-----

2004/12/13 18:40:37
S/N:000005
Please start your account before
2004/12/14 08:40:37
Please finish your usage time within 3 months
after your first login
Thank you very much!

```

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

Welcome!

Hotspot Internet Service

Username:	XXXXXXXX
Password:	XXXXXXXX
Billing:	Accumulation
Service:	30 minutes
Unit:	1
Usage Time:	0:30:00
Total	\$1.00
ESSID:	Wireless

S/N:000001

2004/12/13 18:48:17

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

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

Thank you very much !

Close

Print

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

● Three Buttons 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 3-63 Accounting Setting Screen (Three Buttons Printer)

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

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

Example: If press 7 times

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

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

Figure 3-64 Example 1

Amount: 7 x \$2.00= \$14.00

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

Web-based Account Generator Panel
Preview / Operate

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

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

Three-Buttons Printer

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

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

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

Discount Price Plan based on “Button Presses” Charge by levels

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

Figure 3-65 Example 2

Amount: 7 x \$ 1 = \$ 7.00

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

Web-based Account Generator Panel Preview / Operate

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

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

Three-Buttons Printer

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

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

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

Discount Price Plan based on “Button Presses” Charge by levels

Level	Conditions	Button Presses	Unit Price
1	when > =	1	same as base charge
2	when > =	<input style="width: 50px; text-align: center;" type="text" value="3"/>	<input style="width: 50px; text-align: center;" type="text" value="1.5"/>
3	when > =	<input style="width: 50px; text-align: center;" type="text" value="7"/>	<input style="width: 50px; text-align: center;" type="text" value="1"/>
4	when > =	<input style="width: 50px; text-align: center;" type="text" value="0"/>	<input style="width: 50px; text-align: center;" type="text"/>
5	when > =	<input style="width: 50px; text-align: center;" type="text" value="0"/>	<input style="width: 50px; text-align: center;" type="text"/>
6	when > =	<input style="width: 50px; text-align: center;" type="text" value="0"/>	<input style="width: 50px; text-align: center;" type="text"/>
7	when > =	<input style="width: 50px; text-align: center;" type="text" value="0"/>	<input style="width: 50px; text-align: center;" type="text"/>
8	when > =	<input style="width: 50px; text-align: center;" type="text" value="0"/>	<input style="width: 50px; text-align: center;" type="text"/>
9	when > =	<input style="width: 50px; text-align: center;" type="text" value="0"/>	<input style="width: 50px; text-align: center;" type="text"/>
10	when > =	<input style="width: 50px; text-align: center;" type="text" value="0"/>	<input style="width: 50px; text-align: center;" type="text"/>

Figure 3-66 Example 3

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

● 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"/>	<input type="text"/>
3	when > =	<input type="text"/>	<input type="text"/>
4	when > =	<input type="text"/>	<input type="text"/>
5	when > =	<input type="text"/>	<input type="text"/>
6	when > =	<input type="text"/>	<input type="text"/>
7	when > =	<input type="text"/>	<input type="text"/>
8	when > =	<input type="text"/>	<input type="text"/>
9	when > =	<input type="text"/>	<input type="text"/>
10	when > =	<input type="text"/>	<input type="text"/>

Figure 3-67 Discount Price Plan Setting Screen

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



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

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



Figure 3-68 Success Dialog Box

3-2-8 Credit Card

WSG-402 provides two credit card services (“**Authorize.net**” and “**iTable.com**”) that allow service provider to authorize, process, and manage credit transactions directly from Internet.

CREDIT CARD

Authorize.net

Version:

Merchant ID:

Merchant Password: Need Password:

Merchant Transaction Key:

Payment Gateway/:

Email Additional Information

Merchant Name: (max. 40 characters)

Username and Password

Usage Time

iValidate.net

Merchant ID:

Terminal ID:

Secure Server Address:

Credit Card icons to be displayed on the login page

Figure 3-69 Credit Card Setting Screen

Item	Default	Description
Authorize.net		
Version	3.1	This field displays the merchant version.
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 50.
Merchant Password		This is a Merchant password that you're received from your Merchant Provider.
Need	Disable	If your Merchant Provider need password to authorize, click the check box to enable this function.
Password	Empty	Enter your Merchant password.

Item	Default	Description
Merchant Transaction Key	Empty	The Merchant Transaction Key can be obtained directly from "Authorize.net". The Merchant Transaction Key is similar to a password and is used by the Payment Gateway to authenticate transactions. The maximum character of the Merchant Transaction Key is 50.
Payment Gateway	https://secure.authorize.net/gateway/transact.dll	Enter the address of Payment Gateway.
Email Additional Information	The Email Additional Information included subscriber username and password would be sent to subscriber.	
Email Additional Information	Disable	Indicates whether Email additional information should be sent to the subscriber (customer).
Merchant Name Enable/Disable	Disable	Indicates whether Merchant Name should be sent to the Email of subscriber.
Merchant Name	Empty	Enter the merchant's company name. The maximum allowed characters length is 40.
Username and Password Enable/Disable	Disable	The Email Additional Information included subscriber username and password would be sent to subscriber.
Usage Time Enable/Disable	Disable	The Email Additional Information included subscriber usage time would be sent to the subscriber.
iTable.com		
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 20.
Device ID	Empty	Enter your Device ID. This is a Device Identification Number that you're received from your Merchant Provider. The maximum character of the Device ID is 20.
Secure Server Address	https://silverado.trivalley.com/merchant/processcc.asp	Enter the secure server address.

Item	Default	Description
Credit Card icons to be displayed on the login page	VISA, MasterCard, American, Express, DISCOVER	Click on check box to display credit card icon on the login page.



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

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



Figure 3-70 Success Dialog Box

Please follow steps below to pay using credit card.

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

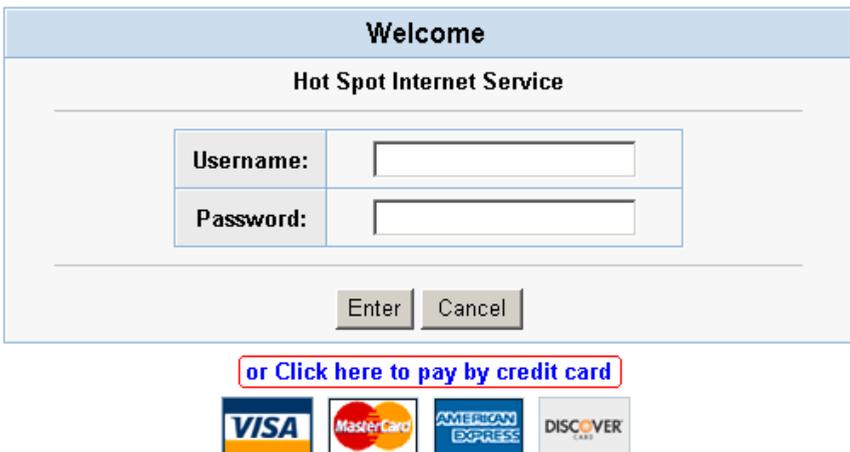


Figure 3-71 Login Page

Step 2: Select Service and enter payment information.

Welcome

Hot Spot Internet Ser

Currency: American Dollars

Please choose from the following service selection

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

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

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

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

Credit card number:

Credit card expiration date: (MMYY)

Enter Email Address

First Name:

Last Name:

Address:

City:

State/Province:

ZIP/Postal Code:

Country:

Phone: (123)123-1234

Submit Transaction and Login

Figure 3-72 Service & Payment Information Setting Screen (Authorize.net)

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

First Name, Last Name.....	Empty	Enter the customer information, including name, city, country and country.
----------------------------	-------	--

Welcome

Hot Spot Internet Service

Please choose from the following service selection

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

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

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

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

Credit card number:

Credit card expiration date: (MMYY)
Enter Email Address
Billing Address ZIP code

Submit Transaction and Login

Figure 3-73 Service & Payment Information Setting Screen (iTable.com)

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

Step 3: After valid payment information has been provided, the subscriber will obtain one valid account to login or the *Figure 3-75* screen will appear.

Welcome
Hot Spot Internet Service

You may now use the Internet !

IMPORTANT! Make a note of your username and password for logging in later. This will be your only opportunity to do so. Note upper and lowercase letters.

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

Your username is **u92tf237**

Your password is **vk544d77**

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

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

Email this webpage to myself Use this account to LOGIN now

Figure 3-74 User Account Information

Welcome
Hot Spot Internet Service

Transactions of this market type cannot be processed on this system.

SORRY, your card could not be processed at this time.
Please use your backspace button and try again with a different credit card.
Thank you!

Try Again Close

Welcome
Hot Spot Internet Service

INVALID CARD

SORRY, your card could not be processed at this time.
Please use your backspace button and try again with a different credit card.
Thank you!

Try Again Close

Figure 3-75

3-2-9 Keypad

KEYPAD

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

Use for Pre-Paid Billing

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

Use for Post-Paid Billing

Based on

 Charge by levels

Level	Conditions	Time Range	Unit Price
1	when > =	1	1.00
2	when > =	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 3-76 Keypad Setting Screen

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

Please follow steps below to create accounts using keypad function.

- **Use for Pre-Paid Billing**

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

BILLING

Pre-Paid

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

Enable Credit Card Service

Time to Finish

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

Accumulation

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

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

Post-Paid (Only for keypad application)

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

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

Figure 3-77 Billing Setting Screen

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

KEYPAD

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

Use for Pre-Paid Billing	
Keypad Hot Key	Billing Profile
+1	(01) 30 minutes, 30 minute(s), \$1.00
+2	(01) 30 minutes, 30 minute(s), \$1.00
+3	(01) 30 minutes, 30 minute(s), \$1.00

Figure 3-78 Keypad's Hot Key Setting Screen

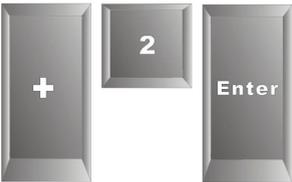
Step 3: You can use keypad to create subscriber accounts now. Press keypad hot key and then press **Enter**. A new subscriber account is generated, and the account information should be printed.



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

```

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



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

```

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

Figure 3-79

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

● **Use for Post-Paid Billing**

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

BILLING

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

Enable Credit Card Service

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

Accumulation
The subscriber can access Internet several times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.
Idle Time Out Min(s)(1 - 1440)

Post-Paid (Only for keypad application)
The subscribers can access Internet without pre-defined usage time. This can be operated with an optional external PS/2 keypad which is connected with exclusive printer. The printout will only show the username/password. An account can also to be terminated with the optional keypad.
Idle Time Out Min(s)(1 - 1440)

Figure 3-80 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="1.00"/>
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 3-81 Keypad's Hot Key Setting Screen

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

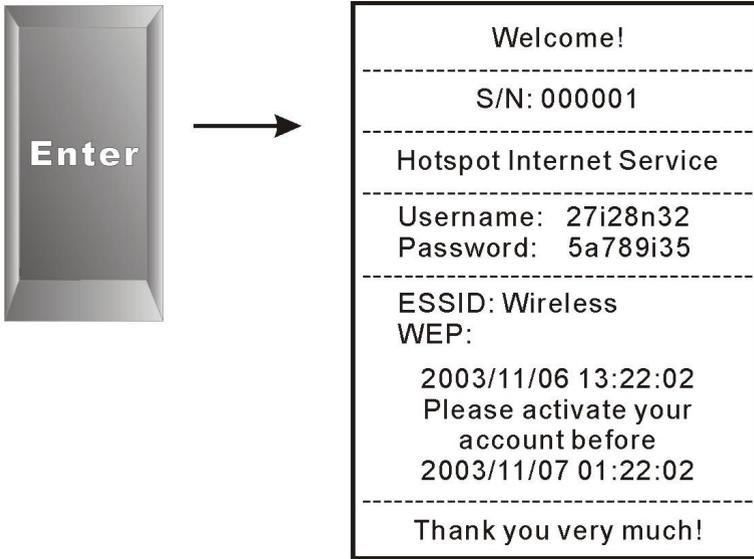


Figure 3-82

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

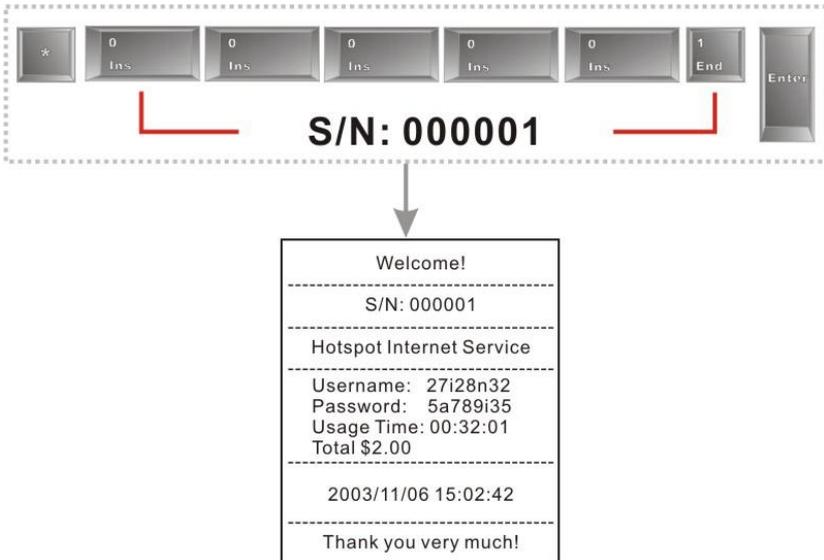


Figure 3-83

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

PS/2 Keypad	
Status Report	
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

Enter the date (MonthDate)

↓

Figure 3-84 Keypad's Hot Key List

● **Daily Account Report Printout**

Daily Account				

2003/11/26				

S/N	Username	B	UN	Price
000001	bvnbc332	1	1	1.00
000002	i293qt32	1	1	1.00
000003	b4e55f56	2	1	2.00
000004	n5faixz26	1	1	1.00
000005	t877ji46	1	1	1.00

TOTAL ACCOUNTS: 5				
TOTAL PRICE: \$6.00				

2003/11/26 10:36:03				
---End---				

Press ABCAA

B: Billing Profile
UN: Purchase Unit

Figure 3-85 Daily Account

● Monthly Account Report Printout

Monthly Account				

2003/11				

S/N	Username	B	UN	Price
000001	bvnbc332	1	1	1.00
000002	i293qt32	1	1	1.00
000003	b4e55f56	2	1	2.00
000004	n5faixz26	1	1	1.00
000005	t877ji46	1	1	1.00

TOTAL ACCOUNTS: 5				
TOTAL PRICE: \$6.00				

2003/11/26 10:36:03				
---End---				

Press **ABCBB**

B: Billing Profile
UN: Purchase Unit

Figure 3-86 Monthly Account

● System Status Report Printout

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

Press **ABCCC**

Figure 3-87 System Status Report Printout

● Network Report Printout

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

Press ABCAB

Figure 3-88 Network Report Printout

3-2-10 Customization

● Login Page

The WSG-402 provides three different login page formats, including standard, redirect, advanced and frame format.

Standard

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

CUSTOMIZATION

Login Page	Logo	Information Window	Account Printout	Credit Card
Please choose from the following login page types				
<input checked="" type="radio"/> Standard				
Please enter the customizable message on the standard login page				
<input type="checkbox"/> Logo				
Title <input style="width: 80%;" type="text" value="Welcome"/> (Max. 80 characters)				
Subtitle <input style="width: 80%;" type="text" value="Hot Spot Internet Service"/> (Max. 80 characters)				
<input type="checkbox"/> Footnote				
<input type="checkbox"/> Footnote <input style="width: 80%;" type="text" value="Please contact us if you have any questio"/> (Max. 240 characters)				
<input checked="" type="checkbox"/> Copyright				
<input checked="" type="checkbox"/> Copyright <input style="width: 80%;" type="text" value="Copyright (c) 2002-2004 All Rights Reserv"/> (Max. 80 characters)				
Background Color <input style="width: 50%;" type="text" value="FFFFFF"/> View Color Grid				
Standard Login Page Preview				

Figure 3-89 Standard Login Page Customization Setting Screen

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

Item	Default	Description
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.

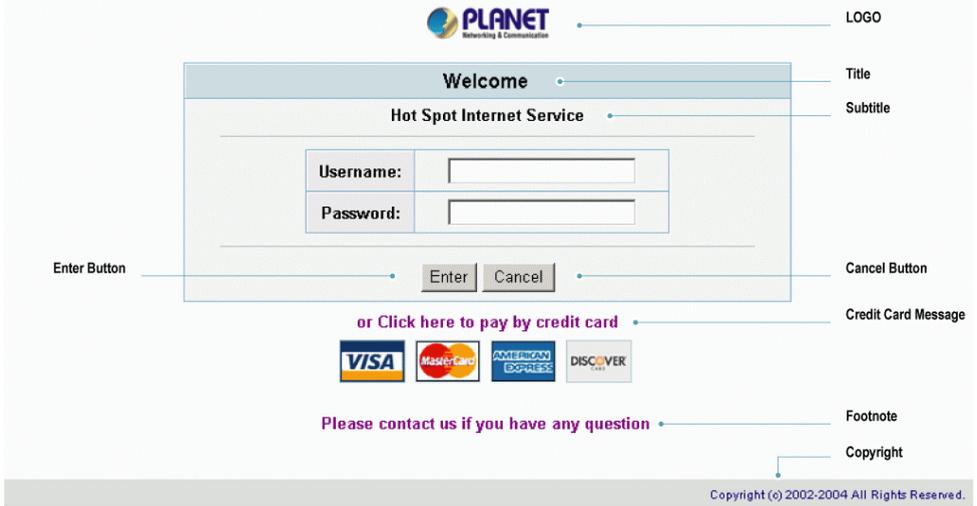


Figure 3-90 Login Page Screen

Before you add logo to the login page, please make sure the logo image file is defined. For details, see section 3-2-9 Customization->Logo.



Figure 3-91 Error Dialog Box

Redirect

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

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

Figure 3-92 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
<p>If you need the credit card icons to be displayed on your customized login page, please integrate the sample code with below image links. Size: 54 x 35 pixels 1.VISA: http://1.1.1.1/visa_card.gif 2.Master Card: http://1.1.1.1/master_card.gif 3.American Express: http://1.1.1.1/ae_card.gif 4.Discover: http://1.1.1.1/discover_card.gif</p> <pre><html> <body style="font-family: Arial" bgcolor="#FFFFFF"> <form method="post" action="http://1.1.1.1/login.cgi" name="apply"> <div align="center"> <table cellSpacing="0" cellPadding="0" width="50%" border="1" style="border-color: lightgrey; border: 1px solid #000000;"> <tr> <td align="center" width="100%" bgcolor="#000000" height="24"> Welcome </td> </tr> <tr> <td align="center"> <table cellSpacing="0" cellPadding="4" width="100%" bgcolor="#FFFFFF" border="0"> <tr> <td align="right" width="35%" style="font-family: Arial, Helvetica, sans-serif, font-size: 12pt"> Username: </td> <td width="65%"> <input type="text" name="username" size="25"> </td> </tr> <tr> <td align="right" width="35%" style="font-family: Arial, Helvetica, sans-serif, font-size: 12pt"> Password: </td> <td width="65%"> <input type="password" name="password" size="25"> </td> </tr> <tr> <td align="center" width="100%" style="font-family: Arial, font-size: 12pt" bgcolor="#F7F7F7" 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> </td> </tr> </table> </div> <div align="center"> <table border="0" width="100%" cellspacing="0" cellpadding="0"> <tr> <td align="center" width="100%" height="30"> Or Click here to pay by credit card </td> </tr> </table> </div> </form> </body> </html></pre>
<input type="button" value="Close"/>

Figure 3-93 Redirect Login Page Code Screen

Advanced

This function allow user to design login page of WSG-402.

<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 3-94 Advanced Login Page Setting Screen

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

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

Figure 3-95 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.

Frame

Top Frame	URL: <input style="width: 80%;" type="text" value="www.caesarpark.com"/>
Bottom Frame	This frame will show the standard login page

Figure 3-96 Frame Login Page Setting Screen

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

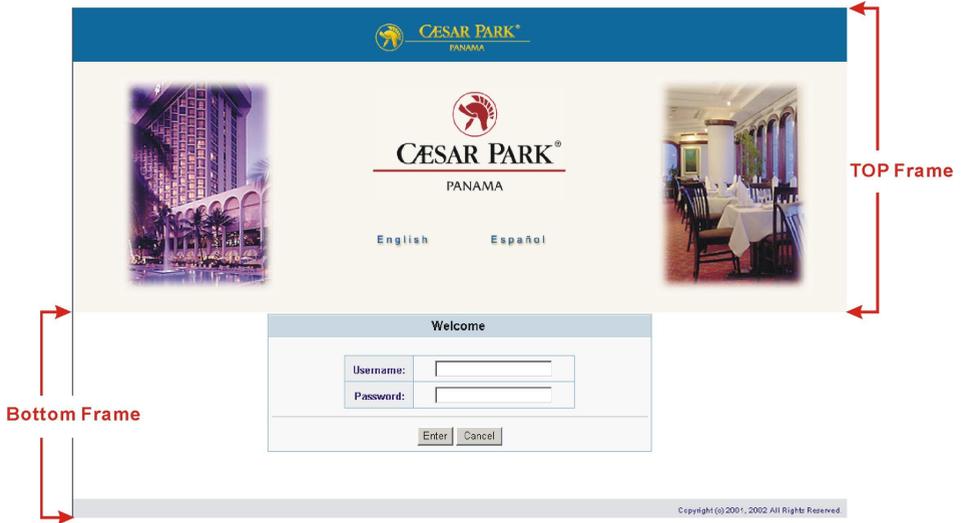


Figure 3-97 Example-Login Page Screen

- **Logo**

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

CUSTOMIZATION

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

Figure 3-98 Logo Setting Screen

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

● **Information Window**

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

CUSTOMIZATION

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

Figure 3-99 Example-Login Page Screen

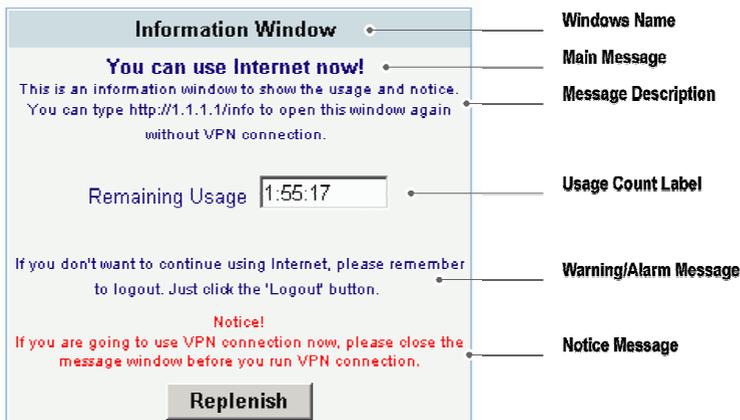


Figure 3-100 Example-Login Page Screen

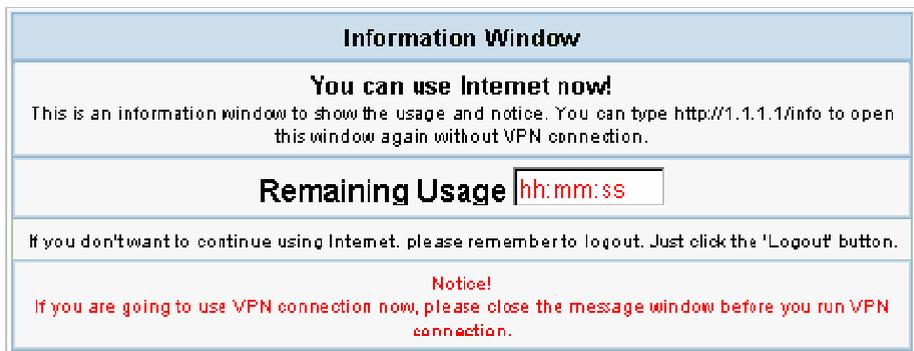


Figure 3-101 Information Window

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



Figure 3-102 Information Window

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

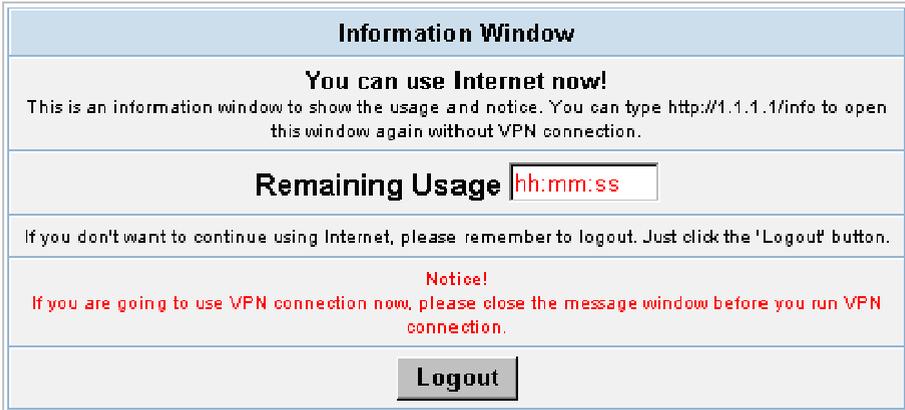


Figure 3-103 Information Window

Billing Type=Accumulation

Can be replenished by subscriber=Disable



Figure 3-104 Information Window

Billing Type=Accumulation

Can be replenished by subscriber=Enable



Figure 3-105 Information Window

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

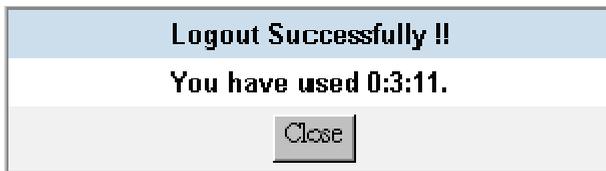


Figure 3-106 Logout Successfully Dialog Box

Billing Type=Accumulation

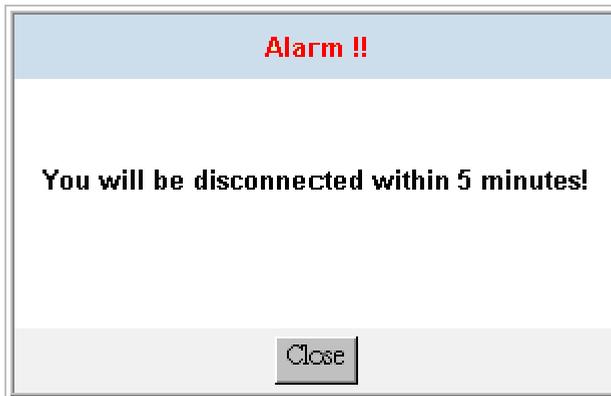


Figure 3-107 Alarm Dialog Box1

● Account Printout

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

CUSTOMIZATION

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

Figure 3-108 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 3-109 Success Dialog Box

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

S/N:000001

2004/12/13 17:03:13

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

Thank you very much !



Figure 3-110 PC-connected Printer Printout

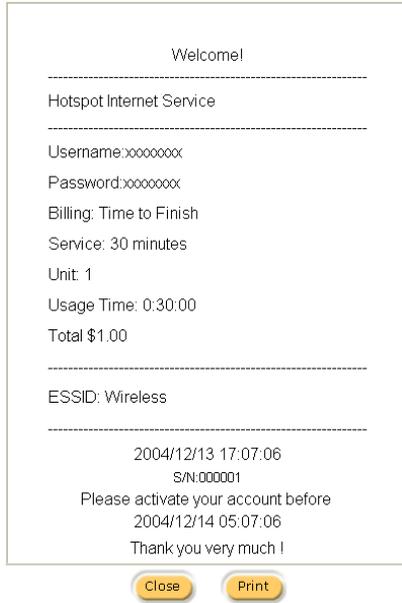


Figure 3-111 Account Generator Printer Printout

Example Preview

1. Create accounts

Welcome!

S/N:001234

Hotspot Internet Service

Username:xxxxxxxx

Password:xxxxxxxx

ESSID: Wireless

2004/12/13 17:09:19

Please activate your account before

2004/12/14 05:09:19

Thank you very much !

Press "ENTER"

2. Bill accounts

Welcome!

S/N:001234

Hotspot Internet Service

Username:xxxxxxxx

Password:xxxxxxxx

Usage Time:

Billing: Time to Finish

Total \$ 100.00

2004/12/13 17:09:19

Thank you very much !

Press " " " 001234 "and "ENTER"

Close

Figure 3-112 Account Generator Printer Printout

Credit Card

Standard Login Page

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

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

Figure 3-113 Credit Customization Setting Screen

Welcome

Hot Spot Internet Service

Username:	<input style="width: 150px; height: 20px;" type="text"/>
Password:	<input style="width: 150px; height: 20px;" type="password"/>

or Click here to pay by credit card



Please contact us if you have any question

Figure 3-114 Standard Login Page
(Enable Credit Card Service=enable)

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

BILLING

Pre-Paid

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

Enable Credit Card Service

Time to Finish

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

Accumulation

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

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

Post-Paid (Only for keypad application)

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

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

Figure 3-115 Billing Setting Screen

Service Selection Page

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

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

Figure 3-116 Service Selection Page Setting Screen (Authorize.net)

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

Figure 3-117 Service Selection Page Setting Screen (iTable.com)

Welcome

Hot Spot Internet Service

Please choose from the following service selection

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

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

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

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

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

Credit card number:

Credit card expiration date: (MMYY)

Enter Email Address

First Name:

Last Name:

Address:

City:

State/Province:

ZIP/Postal Code:

Country:

Phone: (123)123-1234

Submit Transaction and Login

Figure 3-118 Service Selection Page (Authorize.net)

Welcome

Hot Spot Internet Service

Please choose from the following service selection

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

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

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

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

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

Credit card number:

Credit card expiration date: (MMYY)

Enter Email Address

Billing Address ZIP code

Submit Transaction and Login

Figure 3-119 Service Selection Page (iTable.com)

Successful Page

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

 [Preview of Successful Page](#)

Figure 3-120 Successful Page Setting Screen

Welcome

Hot Spot Internet Service

You may now use the Internet !

IMPORTANT! Make a note of your username and password for logging in later. This will be your only opportunity to do so. Note upper and lowercase letters.

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

Your username is WXY3dg54

Your password is 32JIKew2

Your usage time is 30 minutes

Please activate your account before 2004/10/10 10:38:05

Email this webpage to myself
Use this account to LOGIN now

Figure 3-121 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 style="width: 95%; height: 20px;" type="text" value="SORRY, your card could not be processed at this ti"/> <small>(Max. 160 characters)</small>
Notification Message 2	<input style="width: 95%; height: 20px;" type="text" value="Please use your backspace button and try again wit"/> <small>(Max. 160 characters)</small>
Notification Message 3	<input style="width: 95%; height: 20px;" type="text" value="Thank you!"/> <small>(Max. 160 characters)</small>
Try Again Button	<input style="width: 95%; height: 20px;" type="text" value="Try Again"/> <small>(Max. 40 characters)</small>
Close Button	<input style="width: 95%; height: 20px;" type="text" value="Close"/> <small>(Max. 40 characters)</small>

[Preview of Fail Page](#)

Figure 3-122 Fail Page Setting Screen



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.



Figure 3-123 Success Dialog Box

3-2-11 Pass Through

This function allow administrator to set some special devices pass through the WSG-402 system. Because some network devices might be constructed under the WSG-402. However these devices needn't be checked and authorized. The WSG-402 provides a pass through list and the administrator can control which devices can be pass through with authentication.

PASS THROUGH

Pass Through:

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:

Pass Through List

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

Figure 3-124 Pass through Setting Screen

Item	Default	Description
Pass Through	Disable	Enables or disables the pass through function.
Destination URL/IP Address Pass Through		
<input checked="" type="radio"/> URL or Website: <input type="text"/>		
URL or Website	Empty	Enter the URL Page; please use this format such like "http://www.yahoo.com". The maximum character of the URL Page is 50.
<input checked="" type="radio"/> Start / End IP Address: <input type="text"/> ~ <input type="text"/>		
Start IP Address	Empty	Enter the start IP address of you wants pass through.
End IP Address	Empty	Enter the end IP address of you wants pass through.
Subscriber IP/MAC Address or LAN Device Pass Through		
<input checked="" type="radio"/> Start / End IP Address: <input type="text"/> ~ <input type="text"/>		
Start IP Address	Empty	Enter the start IP address of you wants pass through.
End IP Address	Empty	Enter the end IP address of you wants pass through.
<input checked="" type="radio"/> IP Address: <input type="text"/> Subnet Mask: <input type="text"/>		
IP Address	Empty	Enter the IP address of you wants pass through.
Subnet Mask	Empty	Enter the subnet mask of you wants pass through.
<input checked="" type="radio"/> MAC address: <input type="text"/> Mask: <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-402.	
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".

3-2-12 Filtering

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

FILTERING

Filtering:

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

HTTP Message to display when a website is blocked

Please enter new restricted destination (up to 50 entries)

URL or Website:

Start / End IP Address: ~

IP Address: Subnet Mask:

Restricted Destination List

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

Figure 3-125 Filtering Setting Screen

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

Warning !!

This Web Site is blocked by System

Figure 3-126 Error Dialog Box

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

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

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

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

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

3-2-13 Share

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

SHARE

Share LAN resource:

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

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

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

Restricted Destination List

No.	Active	Resource Name	IP Address	MAC address	Interface	Delete
<input type="button" value="Delete All"/>						
<input type="button" value="Apply"/>						

Figure 3-127 Share Device Setting Screen

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

Note:

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

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

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

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

3-2-14 Portal Page

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

PORTAL PAGE

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

URL Link	
<input type="text"/>	



Figure 3-128 Portal Page Setting Screen

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

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

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

Success!

The Configuration has been changed.



Figure 3-129 Success Dialog Box

3-2-15 Advertisement

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

ADVERTISEMENT

This feature allows ISP to specify the advertisement URL link. The advertisement Web page will show on the browser when the subscribers start Network access.

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



Figure 3-130 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-402 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 3-131 Success Dialog Box

3-2-16 Walled Garden

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

WALLED GARDEN

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

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

Figure 3-132 Walled Garden

Welcome

Hot Spot Internet Service

Username:	<input type="text"/>
Password:	<input type="password"/>

Planet

MSN

Microsoft

Figure 3-133 Login Page

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

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

Success!

The Configuration has been changed.

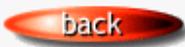


Figure 3-134 Success Dialog Box

3-2-17 DDNS

The DDNS service (Dynamic Domain Name Service), an IP Registry provides a public central database where information such as email addresses, host names, IP addresses etc. can be stored and retrieved. This solves the problems if your DNS server uses an IP associated with dynamic IP addresses. When the ISP assigns the WSG-402 a new IP, the WSG-402 must inform the DDNS server the change of this IP so that the server can update its IP-to-DNS entry. Once the IP-to-DNS table in the DDNS server is updated, the DNS name for your web server (i.e., xyz.dyndns.org) is still usable.

DDNS

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

Figure 3-135 DDNS Setting Screen

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



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

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



Figure 3-136 Success Dialog Box

3-2-18 LAN Devices

Administrator can direct remote control to LAN Devices via the WSG-402 implemented the feature.

LAN DEVICES

Detecting time: Min(s)

No.	Device Name	Virtual Port (60001~60050)	Device IP Address	Device Server Port	Device MAC Address	Application	Interface
1	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
2	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
3	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
4	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
5	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
6	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
7	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
8	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
9	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
10	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
49	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired
50	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	TCP	Wired

Notice: The system does not support FTP

Figure 3-137 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.
Device Name	Empty	The LAN device name. The maximum character of the device name is 20.

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

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

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

Note: The system does not support FTP.

3-2-19 Syslog

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

- **Syslog Setting**

SYSLOG

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

Figure 3-138 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-402 will send all of its logs to the specified syslog server.
Server MAC Address	Empty	Enter the syslog server's MAC address. The WSG-402 will send all of its logs to the specified syslog server.

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

Apply

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

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



Figure 3-139 Success Dialog Box

- Log Categories

SYSLOG

Syslog		Log Settings		
System				
Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	System Information	A log including the system information will be sent according to specified interval time	60 minute(s)
<input type="checkbox"/>	<input type="checkbox"/>	System Boot Notice	Once system reboots, the log will be sent	When system reboot
<input type="checkbox"/>	<input type="checkbox"/>	System Manager Activity Information	A log will be sent if system manager (Administrator, Supervisor or Account Manager) login to or logout from the device	When system manager login or logout
Subscriber				
Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	Wireless Association Information	A log including wireless users information will be sent according to specified interval time	60 minute(s)
<input type="checkbox"/>	<input type="checkbox"/>	Logged-in Users	A login users information will be sent according to specified interval time	60 minute(s)
Proprietary Accounting				
Syslog	Email	Syslog Name	>Description>	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	Account Created	A log will be sent once after an account is created	When an account is created
<input type="checkbox"/>	<input type="checkbox"/>	Account Activated	A log will be sent once after an account is activated	When an account is activated
<input type="checkbox"/>	<input type="checkbox"/>	Subscriber Trace	A log including subscribers login/logout time will be sent once after subscriber logout	When subscriber logout
Billing				
Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	Billing Log	A log would be sent after a billing log is created	When log created
LAN Devices Management Category				
Syslog	Email	Syslog Name	Description	Interval Time
<input type="checkbox"/>	<input type="checkbox"/>	LAN Devices Information	A log including current LAN Devices Status will be sent according to specified interval time	60 minute(s)
<input type="checkbox"/>	<input type="checkbox"/>	LAN Devices Alarm	A log will be sent if one of the LAN Devices detected result is "Fail"	When device fail
				<input type="button" value="Apply"/>

Figure 3-140 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 User agreement No Authentication If the type of Logged-in user is Super Subscriber, Username will be "*****". If the build-in account mode is disable, Username is "Anonymous".</p>
Proprietary Accounting		
Account Created	When an account is created.	<p>A log would be sent if account were created.</p> <p>Format: (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/Nxxxxxx
TimeToFinish	Deleted	00:12:00
Accumulation	Finished	00:00:00
Accumulation	Replenished	00:12:00 to S/Nxxxxxx
Accumulation	Logout	00:48:00
Accumulation	Idle-Timeout	00:48:00
Accumulation	Deleted	00:48:00
Accumulation	Account Expired	00:48:00
PostPaid	Logout	*****
PostPaid	Idle-Timeout	*****
PostPaid	Deleted	*****
PostPaid	Finished	*****
PostPaid	Account Expired	*****
Super	Idle-Timeout	*****
Super	Deleted	*****

Item	Interval Time	Description
Billing		
Billing Log	When log created	<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)

Apply

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 3-141 Success Dialog Box

3-2-20 Wireless

WIRELESS

General Settings	<p>ESSID: <input type="text" value="Wireless"/></p> <p>Channel: <input type="text" value="6"/></p> <p>Security: <input checked="" type="radio"/> Disable <input type="radio"/> WPA</p> <div style="border: 1px solid black; padding: 5px;"> <p>Group Key Rekeying: per <input type="text" value="86400"/> seconds</p> <p><input checked="" type="radio"/> Use WPA with Pre-shared Key Pre-shared Key: <input type="text"/> (8~63 characters)</p> <p><input type="radio"/> Use WPA with RADIUS Server Server IP: <input type="text"/> Authentication Port: <input type="text" value="1812"/> Shared Secret Key: <input type="text"/></p> </div> <p><input type="radio"/> WEP</p> <div style="border: 1px solid black; padding: 5px;"> <p><input checked="" type="radio"/> Use Static WEP</p> <div style="border: 1px solid black; padding: 5px;"> <p>Encryption: <input checked="" type="radio"/> 64 bit <input type="radio"/> 128 bit Mode: <input type="text" value="HEX"/></p> <p>WEP Key:</p> <p><input checked="" type="radio"/> 1. <input type="text" value="0000000000"/> <input type="radio"/> 2. <input type="text" value="0000000000"/> <input type="radio"/> 3. <input type="text" value="0000000000"/> <input type="radio"/> 4. <input type="text" value="0000000000"/></p> <p><small>Note: You have to restart the system to apply the WEP settings</small></p> </div> <p><input type="radio"/> 802.1X</p> <div style="border: 1px solid black; padding: 5px;"> <p>Encryption: <input checked="" type="radio"/> 64 bit <input type="radio"/> 128 bit Re-Key Time: <input type="text" value="86400"/> seconds Server IP: <input type="text"/> Authentication Port: <input type="text" value="1812"/> Shared Secret Key: <input type="text"/></p> </div> </div>
<p style="color: red;">Do not change any setting below unless you make sure you understand all the meaning of setting. , You can press "DEFAULT" to restore the wireless factory default setting once you made setting changed to cause wireless not work</p>	
Beacon Interval	<input type="text" value="200"/> (msec, range:1~1000, default:200)
RTS Threshold	<input type="text" value="2432"/> (range:256~2432, default:2432)
Fragmentation Threshold	<input type="text" value="2432"/> (range:256~2432, default:2432, even number only)
Preamble Type	<input type="radio"/> Short Preamble <input type="radio"/> Long Preamble <input checked="" type="radio"/> Dynamic Preamble
Authentication Method	<input checked="" type="radio"/> Open System <input type="radio"/> Shared Key <input type="radio"/> Both
<div style="display: flex; justify-content: space-between; width: 100%;"> <input type="button" value="Default"/> <input type="button" value="Apply"/> </div>	

Figure 3-142 Wireless Setting Screen

Item	Default	Description
General Settings		
ESSID	Wireless	The ESSID is the unique name that is shared among all points in a wireless network. It is case sensitive and must not exceed 32 characters.
Channel	6	Select the channel ID for wireless connection.
Security	Disable	Select disable to allow wireless station to communicate with the device without any data encryption. Select enable to enable WPA or WEP data encryption.
WPA Encryption	Wi-Fi Protected Access Encryption	
Pre-shared Key	Empty	Enter a pre-shared key from 8 to 63 case sensitive ASCII characters.
Group Key Re-Keying	86400 Seconds	Enter a number in the field to set the force re-keying interval.
Use WPA with Pre-shared Key	Enable	
Pre-Shared Key	Empty	Enter a pre-shared key from 8 to 63 case sensitive ASCII characters.
Use WPA with RADIUS	Disable	
Server IP	Empty	Enter the RADIUS server IP address or domain name. The maximum allowed characters length is 15.
Authentication Port	1812	Enter the authentication port number. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	Enter the RADIUS secret key
WEP Encryption	Wired Equivalent Privacy Encryption	
Encryption	64 bit	The WSG-402 supports 64-bit or 128 bit WEP encryption.
Mode	HEX	Options: HEX (Hexadecimal) and ASCII (American Standard Code for Information Interchange).

Item	Default	Description
WEP Key	1	<p>This selects which of the Keys the WSG-402 uses when it transmits. You can change the selected encryption key every now and then to increase the security of your network.</p> <p>Note: You have to configure all WEP keys (1~4), and select one of the four WEP key.</p> <p>Enter 5 characters (case sensitive) for ASCII 64-bit WEP Key.</p> <p>Enter 10 characters (case sensitive) for Hex 64-bit WEP Key.</p> <p>Enter 13 characters (case sensitive) for ASCII 128-bit WEP Key.</p> <p>Enter 26 characters (case sensitive) for Hex 128-bit WEP Key.</p>
802.1x	Disable	Enables or disables the 802.1x function.
Encryption	64 bit	The WSG-402 supports 64-bit or 128 bit 802.1x encryption.
Re-key Time	86400 Seconds	Enter a number in the field to set the force re-keying interval.
Server IP	Empty	Enter the RADIUS server IP address or domain name. The maximum allowed characters length is 15.
Authentication Port	1812	Enter the authentication port number. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	Enter the RADIUS secret key.
Beacon Interval	200	This value valid range is 1 to 1000 indicates the frequency interval of the beacon.
RTS Threshold	2432	This value valid range is 256 - 2342. This setting determines the packet size at which the WSG-402 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-402, or in areas where the clients are far apart and can detect only the WSG-402 and not each other.

Item	Default	Description
Fragmentation Threshold	2432	This setting determines the size at which packets are fragmented. Enter a setting ranging from 256 to 2432 bytes. Use a low setting in areas where communication is poor or where there is a great deal of radio interference.
Preamble Type	Long Preamble	The preamble type is a section of data at the head of a packet that contains information the WSG-402 and client devices need when sending and receiving packets. The setting menu allows you to select a long, short or dynamic preamble type.
Authentication Method	Open System	<p>Select open system, shared Key or both.</p> <p>Open System—Allows any device to authenticate and then attempt to communicate with the WSG-402. Using open authentication, any wireless device can authenticate with the WSG-402, but the device can only communicate if its WEP keys match the WSG-402. Devices not using WEP do not attempt to authenticate with a Wireless Service Gateway that is using WEP.</p> <p>Shared Key—During shared key authentication, the WSG-402 sends an unencrypted challenge text string to any device attempting to communicate with the WSG-402. The device-requesting authentication encrypts the challenge text and sends it back to the WSG-402. If the challenge text is encrypted correctly, the WSG-402 allows the requesting device to authenticate. Both the unencrypted challenge and the encrypted challenge can be monitored, however, which leaves the WSG-402 open to attack from an intruder who calculates the WEP key by comparing the unencrypted and encrypted text strings. Because of this weakness, shared key authentication can be less secure than open authentication.</p> <p>Both—With this setting wireless stations can communicate with or without data encryption.</p>



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

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

RESTART



Figure 3-143 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-402 system basic status, including,

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

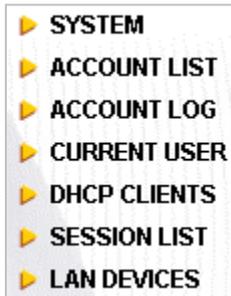


Figure 3-144 System Status Item Screen

3-3-1 System

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

SYSTEM

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

Figure 3-145 System Status Screen

Network Traffic	WAN Traffic	Tx Data: 252210 Rx Data: 4397041 Tx Error: 0 Rx Error: 0
	LAN Traffic	Tx Data: 4994896 Rx Data: 1106482 Tx Error: 0 Rx Error: 0
	Wireless Traffic	Tx Data: 2255 Rx Data: 53 Tx Error: 7844 Rx Error: 0
Location Information	Location	
	Address	
	City	
	State	
	Zip	
	Country	
	Contact Name	
	Contact Telephone	
	Contact FAX	
Contact Email		
SSL Certificate	Country	00
	State	Local State
	Local City	Local City
	Organization	Local Group
	Organization Unit	Local Host
	Common Name	1.1.1.1
	Email Address	mail@1.1.1.1

Figure 3-146 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 ↻

S/N	Status	Username	Usage Time	Time Created	Login Time	Time Left	Delete
000005	In-used	x9yij837	2:00:00	2004/12/13 18:40:37	2004/12/13 19:20:04	1:59:50	<input type="checkbox"/>
000006	Un-used	v43ch428	2:00:00	2004/12/13 19:20:18		2:00:00	<input type="checkbox"/>

IGO 1 Page Delete Delete All
First Previous Next End

Figure 3-147 Account List



Click on refresh button to update the account list page.

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

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↻](#)

S/N	Username	Time Created	Login Time	Usage Time	Charge	Payment Info	Status
000001	t962q246	2004/12/13 16:39:46	2004/12/13 16:42:55	2:00:00	3.00	Cash	Delete
000002	q7mtpq43	2004/12/13 16:40:43		1:00:00	2.00	Cash	Delete
000003	rjh5nm56	2004/12/13 16:46:56	2004/12/13 16:59:15	2:00:00	3.00	Cash	Delete
000004	m29mmp43	2004/12/13 16:59:43		2:00:00	3.00	Cash	Delete
000005	x9yij837	2004/12/13 18:40:37	2004/12/13 19:20:04	2:00:00	3.00	Cash	In-used
000006	v43ch428	2004/12/13 19:20:18		2:00:00	3.00	Cash	Un-used

1 Page ◀ First ◀ Previous Next ▶ End ▶

Figure 3-148 Account Log

Export

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

[Clear Log](#)

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

[refresh↻](#)

Click on refresh button to update the account log page.

[S/N](#) [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.

CURNET USER

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

No.	Type	Username	IP Address	MAC Address	Disconnect
1	Dynamic	x9yjj837	192.168.0.3	00:0F:EA:61:37:98	<input type="checkbox"/>

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

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

Figure 3-149 Current User List

CURNET USER

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

No.	Type	Username	IP Address	MAC Address	Disconnect
1	Superuser	super	192.168.0.2	00:0C:6E:0D:B7:E2	<input type="checkbox"/>

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

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

Figure 3-150 Current User List (super account)

CURNET USER

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

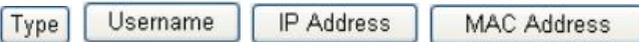
No.	Type	IP Address	MAC Address
1	Non_Auth	192.168.0.2	00:0C:6E:0D:B7:E2

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

Figure 3-151 Current User List (No Authentication)



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.

DHCP CLIENTS

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

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

Figure 3-152 Current User Screen

3-3-6 Session List

The remote site administrator could monitor the real time usage status of WSG-402 via this page.

SESSION LIST

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

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

Figure 3-153 Session List Screen

3-3-7 LAN Devices

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

LAN DEVICES

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

No.	Device Name	Status	Virtual Port (60001~60050)	Device IP Address	Device Server Port	Device MAC Address	Application	Interface
	Ethernet Switch	Fail	60001	192.168.0.100	80	00:30:4F:A7:EF:36	TCP	Wired

Figure 3-154 LAN Devices Status Screen



Figure 3-155 Example- Ethernet Switch Management Screen

3-4 System Tools

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

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



Figure 3-156 System Tools Item

3-4-1 Configuration

Use the Configuration item to save, restore or reset configuration parameters of the WSG-402.

CONFIGURATION

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

Backup

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

Remote TFTP Server IP Address:

File Name:

Restore

To restore your stored system configuration to this device.

Local PC File Path:

Remote TFTP Server IP Address:

File Name:

Reset the system back to factory defaults

Keep subscriber profile

Figure 3-157 Configuration Setting Screen

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

3-4-2 Firmware Upgrade

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

- **Manual Firmware Upgrade**

FIRMWARE

Manual Firmware Upgrade	Scheduled Firmware Upgrade	
To upgrade the firmware, click Browse to locate the firmware file or use remote TFTP server and click Apply .		
Local PC File Path <input type="text"/>	<input type="button" value="Browse..."/>	<input type="button" value="Apply"/>
Remote TFTP Server IP Address <input type="text"/>		<input type="button" value="Apply"/>
File Name <input type="text"/>		

Figure 3-158 Manual Firmware Upgrade Setting Screen

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

Note:

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

● Scheduled Firmware Upgrade

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

FIRMWARE

Manual Firmware Upgrade **Scheduled Firmware Upgrade**

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

Disable
 Enable

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

[Apply](#)

Figure 3-159 Scheduled Firmware Upgrade Setting Screen

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

Synchronization Check File Sample Code Version=1.00.03

Filename=wg402.bin [Close](#)

Figure 3-160 Synchronization File Sample Code

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

3-4-3 System Account

Use the System Account screen to change the system accounts.

SYSTEM ACCOUNT

Administrator Account	
Administrator can fully control this system and modify all settings.	
Username:	<input type="text" value="admin"/>
Password:	<input type="password" value="*****"/>
Confirm:	<input type="text"/>
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="text"/>
Supervisor Account	
Supervisor can only view system status and change password.	
Username:	<input type="text" value="supervisor"/>
Password:	<input type="password" value="*****"/>
Confirm:	<input type="text"/>
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="text"/>
<input type="button" value="Apply"/>	

Figure 3-161 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.

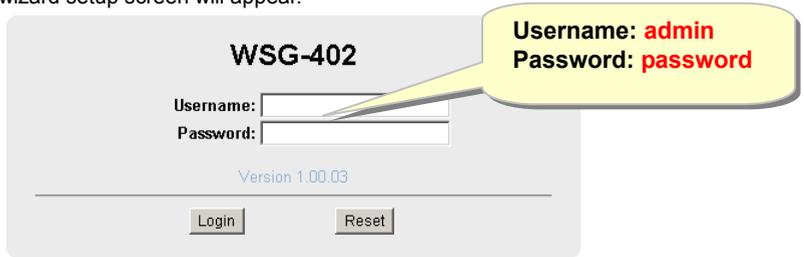
● **Administrator Account**

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.



Figure 3-162 Web Browser Location Field (Factory Default)

Step 2: The WSG-402 configuration main menu will appear. Enter **admin** (default) as the Username and **password** (default) as the password and click **Login**. If you are first time setting the system, the wizard setup screen will appear.



Best View with Microsoft Internet Explorer 5.0 above

Figure 3-163 Administrator Account Login Screen (First Time)

Or
System Quick View

System			
System/Host Name	Richard	Firmware Version	1.00.03
Location Name		Domain Name	planet.com.tw
System Time	2004/12/9 19:28:38	System Up Time	00D:03H:35M:28S
WAN MAC address	00:90:0E:01:11:C5	LAN MAC address	00:90:0E:01:11:C4

Network			
WAN Status	Established	WAN Type	Static IP
WAN IP Address	210.66.155.89	LAN IP Address	192.168.0.1
WAN Subnet Mask	255.255.255.224	LAN Subnet Mask	255.255.255.0
Default Gateway	210.66.155.94	DNS	139.175.252.16 168.95.1.1

Wireless			
Wireless Service	OK	ESSID	Wireless
Wireless Channel	6	Secure Mode	Disable

Traffic	
WAN	TxData:252336 RxData:5303569 TxError:0 TxError:0
LAN	TxData:6220334 RxData:1300763 TxError:0 TxError:0
Wireless	TxData:2259 RxData:53 TxError:8188 TxError:0

Figure 3-164 System Quick View

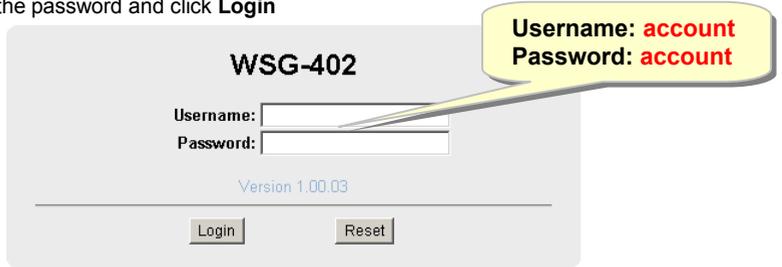
- **Web-Based Accounting Manager**

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.



Figure 3-165 Web Browser Location Field (Factory Default)

Step 2: The WSG-402 configuration main menu will appear. Enter **account** as the Username and **account** as the password and click **Login**



Best View with Microsoft Internet Explorer 5.0 above

Figure 3-166 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.



[Logout](#)

[View Account List](#)

Figure 3-167 Account Generator Panel

- **Supervisor Account**

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



Figure 3-168 Web Browser Location Field (Factory Default)

Step 2: The WSG-402 configuration main menu will appear. Enter **supervisor** as the Username and **supervisor** as the password and click **Login**.



Best View with Microsoft Internet Explorer 5.0 above

Figure 3-169 Supervisor Account Login Screen

Step 3: After a valid user name and password have been provided, the WSG-402 configuration homepage will appear.

System Quick View

System			
System/Host Name	Richard	Firmware Version	1.00.03
Location Name		Domain Name	planet.com.tw
System Time	2004/12/9 19:39:04	System Up Time	00D:03H:45M:55S
WAN MAC address	00:90:0E:01:11:C5	LAN MAC address	00:90:0E:01:11:C4

Network			
WAN Status	Established	WAN Type	Static IP
WAN IP Address	210.66.155.89	LAN IP Address	192.168.0.1
WAN Subnet Mask	255.255.255.224	LAN Subnet Mask	255.255.255.0
Default Gateway	210.66.155.94	DNS	139.175.252.16 168.95.1.1

Wireless			
Wireless Service	OK	ESSID	Wireless
Wireless Channel	6	Secure Mode	Disable

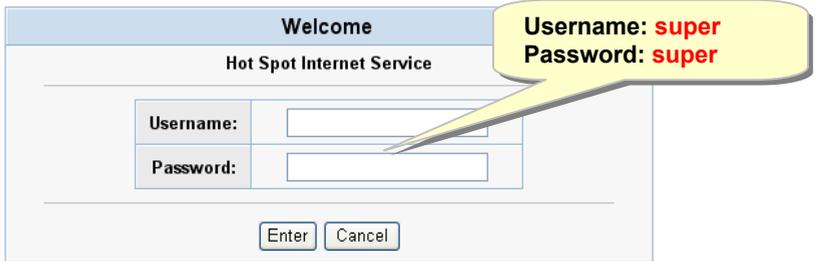
Traffic	
WAN	TxData:252420 RxData:5490755 TxError:0 TxError:0
LAN	TxData:5555512 RxData:1353903 TxError:0 TxError:0
Wireless	TxData:2261 RxData:53 TxError:8283 TxError:0

Best View with Microsoft Internet Explorer 5.0 above

Figure 3-170 System Status Screen

- **Super Subscriber Account**

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



Username:

Password:

Enter Cancel

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

Figure 3-171 Subscriber Login Page

3-4-4 SSL Certificate

The function allows you to download the registered CA certificate into the WSG-402.

SSL CERTIFICATE

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

Password for Private Key:	<input type="password"/>
Certificate File:	<input type="text"/> Browse...
Private Key File:	<input type="text"/> Browse...

Apply

Figure 3-172 SSL Certificate Download Setting Screen

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-402 networking connective or not.

PING

This feature allows you to execute ping command.

```
Pinging www.planet.com.tw [211.75.117.112] with 32 bytes of data:
Reply from: 211.75.117.112: bytes=32 time=40ms TTL=55
```

Figure 3-173 Ping Command Screen

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

3-4-6 Restart

If your WSG-402 is not operating correctly, you can choose this option to display the restart WSG-402 screen. Clicking the apply button restart the WSG-402, with all of your settings remaining intact.

RESTART

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

Figure 3-174 Restart Screen

3-4-7 Logout

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

LOGOUT

Do you want to **log out** from the web configurator ?

Figure 3-175 Logout Screen

3-5 FAQ & Glossary

The features will help you to know more about this device, including,

1. Frequently Asked Questions
2. Glossary of Terms

3-5-1 Frequently Asked Questions

Frequently Asked Questions
<p><u>Q1: I have problem connecting to the web UI configuration of the device.</u></p> <ol style="list-style-type: none">1. Check power light status is on!2. Check Link light status is on!3. Check that your computer's network settings are correct. eg. In windows 95/98, you can type winipcfg in the DOS prompt, In windows NT/2000, you can type ipconfig in DOS prompt.4. Check your computer's IP address is in the same network as device. The computer's IP address should be in the range from 192.168.0.2 to 192.168.0.254.5. Type 192.168.0.1 in your browser's URL interface.
<p><u>Q2: The device has successfully connected to the ISP (from the connection status shown in the status screen) but I can not surf the internet through the gateway.</u></p> <ol style="list-style-type: none">1. Check if your computer's IP settings are correct.<ol style="list-style-type: none">a. Your computer's IP address should be in the range from 192.168.0.2 to 192.168.0.254.b. Your computer's network mask should be 255.255.255.0.c. Your computer's gateway should be 192.168.0.1 (The IP address of device).d. Your computer's DNS IP settings should be a valid ISP DNS server's IP address.2. Try to ping an existed internet IP, eg. the DNS IP address 168.95.1.1.
<p><u>Q3: I can not connect to the internet.</u></p> <ol style="list-style-type: none">1. Check if the power of your Cable/DSL is on!2. Check if your Cable/DSL link light is on to verify a good physical Cable /Telephone connection!3. Check if WAN ethernet link of device is on to verify if your Cable/DSL modem is connected to the gateway.4. Check if my computer is successfully connected to the network.<ol style="list-style-type: none">a. Check if network adapter is successfully installed.b. Check if TCP/IP stack is successfully installed.c. Check if my computer is physically connected to the network(ethernet).d. Check if my computer's IP settings are correct (refer to FAQ.2).e. Try to ping from my computer to 192.168.0.1 Connect from my browser to the gateway (192.168.0.1) and click system status menu. to see the connection status.
<p><u>Q4: The device has problem getting IP settings from the ISP</u></p> <ol style="list-style-type: none">1. Make sure that your Cable or DSL modem is connected properly.2. Try resetting your Cable or DSL modem by powering the modem off and on.3. If you are using dynamic IP addressing, make sure that your Cable or DSL modem is DHCP capable.4. Some ISPs require a MAC address to be registered with them.<ol style="list-style-type: none">a. You can see the WAN ethernet MAC address from the device information or device status of the browser interface.b. In case you have to change WAN ethernet MAC address, you have to connect to the gateway through telnet. The gateway supports to change WAN ethernet MAC address through telnet.5. If your connection is DSL and your ISP requires you to input username and password, your connection is PPPoE connection. To connect to ISP's PPPoE server, you have to input (PPPoE) username/password from "ADVANCED SETUP" -> "WAN/LAN" of your browser interface.6. If your connection is Cable and your ISP requires you to input host computer name, you have to input host computer name from "ADVANCED SETUP" -> "SYSTEM".

Figure 3-176 Frequently Asked Questions

3-5-2 Glossary of Terms

Glossary of Terms
<p>DHCP</p> <p>Dynamic Host Configuration Protocol. This protocol automatically configures the TCP/IP settings of every computer on your home internet.</p>
<p>NAT</p> <p>Network Address Translation translates multiple IP address on the private LAN to one public address that is send out to the internet. This adds a level of security, because the address of a PC connected to the private LAN is never transmitted to the internet. Furthermore, NAT allows ADSL/Cable router to be used with low-cost internet accounts, such as ADSL/Cable modems, where only one TCP/IP address is provided by the ISP. The user may have many private address behind the single address provided by the ISP.</p>
<p>DNS</p> <p>Server Address DNS stands for Domain Name System, which allows Internet host computers to have a domain name (such as 3com.com) and one or more IP addresses (such as 192.34.45.8). A DNS server keeps a database of host computers and their respective domain names and IP addresses, so that when a domain name is requested, the user is sent to the proper IP address. The DNS server address used by the computers on your home internet is the location of the DNS server your ISP has assigned.</p>

Figure 3-177 Glossaries of Terms

Appendix A Signal Connection Arrangements

RJ-45 Ethernet Port

The WSG-402 RJ-45 Ethernet port can connect to any networking devices that use a standard LAN interface, such as a Hub/Switch Hub or Router. Use unshielded twisted-pair (UTP) or shield twisted-pair (STP) cable to connect the networking device to the RJ-45 Ethernet port.

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

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

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

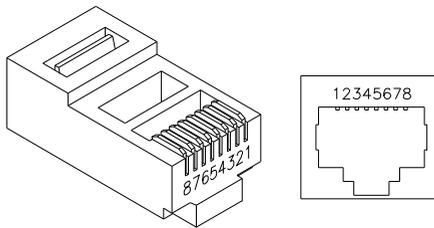


Figure A-1 RJ-45 Connector and Cable Pins

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