

HSP500

Wireless HotSpot Gateway with Printer

User Manual

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1 Introduction

The HSP500 is a compact intelligent gateway. It provides Plug' Play Internet access, advanced security and network management.

The HSP500 is designed for service providers, system integrator or hotspot venue operator without backend-RADIUS-Server to have integrated solution for rapid deployment, which can start hotspot service quickly and easily and enhance service performance.

The HSP500 is an ideal solution for hotel lobbies, coffee bars, airport lounges, conference facilities and other sites that commonly host business travelers, and offers instant high-speed Internet connections. With its IP Plug and Play technology, it accepts any client configuration login, when client open browser the HSP500 immediately recognizes new end-user and redirects their browser to customized Web pages. There's no need for end-user to change any of their default network (Static IP), e-mail (SMTP Server behind firewall), or browser settings (HTTP Proxy) or load any special software to access hotspot service. It's completely Plug' Play with any browser.

The HSP500 provides QR code service. You can install any QR code APP to your mobile device, and then scan QR code on the ticket to get access of the Internet! You could save the time to key in the account and the password.

1-1 Package Contents

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

HSP500

- One HSP500
- One Thermal papers (50 meter)
- One Power Adapter
- One Ethernet Cable (1.5 meter)
- One Quick Installation Guide
- Two Detachable Antennas
- One Product CD
- One Wi-Fi Label

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

1-2 Features

- Wireless data rates up to 300 Mbps
- Supports up to 30 simultaneous Users
- IP Plug and Play (iPnP)
- Comprehensive security
 - 64/128-bit WEP encryption
 - WPA encryption
 - WPA2 Encryption
 - IP/URL filtering
- Intelligent Management
- Built-in AAA (Authentication/Accounting/Authorization) and Billing mechanism
- Internet access via QR code scanning

Note: The "iPnP" 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 HSP500 to direct sunlight or another heat source.
- Choose a well-ventilated area to position your HSP500.

1-4 Outlook

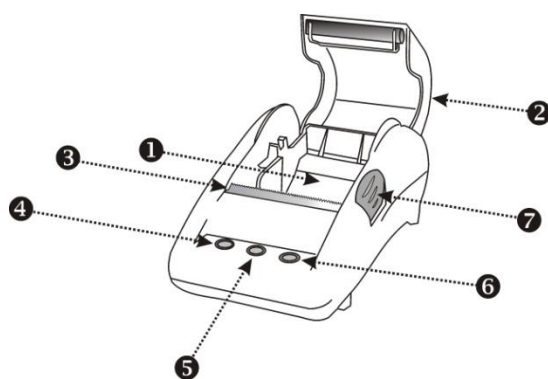


Figure 1-4-1 Front Panel

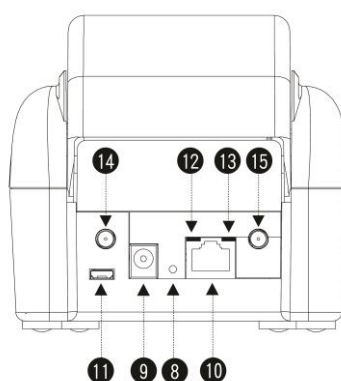


Figure 1-4-2 Rear Panel

HSP500 Wireless HotSpot Gateway with Printer

1. Paper roll housing
2. Printer Cover
3. Tear Bar, for paper cutting
4. Button A
5. Button B
6. Button C
7. Push Button, for printer cover opening
8. Reset Button
9. DC power supply connector
10. RJ45 port
11. Micro USB connector
12. WLAN LED (Green)
13. UPLINK LED(Yellow)
14. SMA connector
15. SMA connector

- **WLAN LED:**

Off: The wireless is not ready.

Green light: The HSP500 has established a valid wireless connection.

Green Blinking: The wireless connection is active.

- **UPLINK LED:**

Off: A port has not established any network connection.

Yellow light: A port has established a valid 10/100 Mbps network connection.

Yellow Blinking: 10/100 Mbps traffic is traversing the port.

- **Reset Button:** The HSP500 has a reset button at the rear panel of the device. Use this function to reset the system back to factory defaults.

- **Power Jack:** Used to connect the external power supply with the HSP500.

1-4-1 Printing a test page

After you have installed your printer, you should print a test page to make sure the printer is functioning properly. To do this act as follows:

1. Turn the printer off.
2. Hold down the button A for approximately five seconds, and then turn the printer on.
3. The printer will print a test page.

1-4-2 How to load paper rolls

Please follow the steps to correctly load paper rolls.

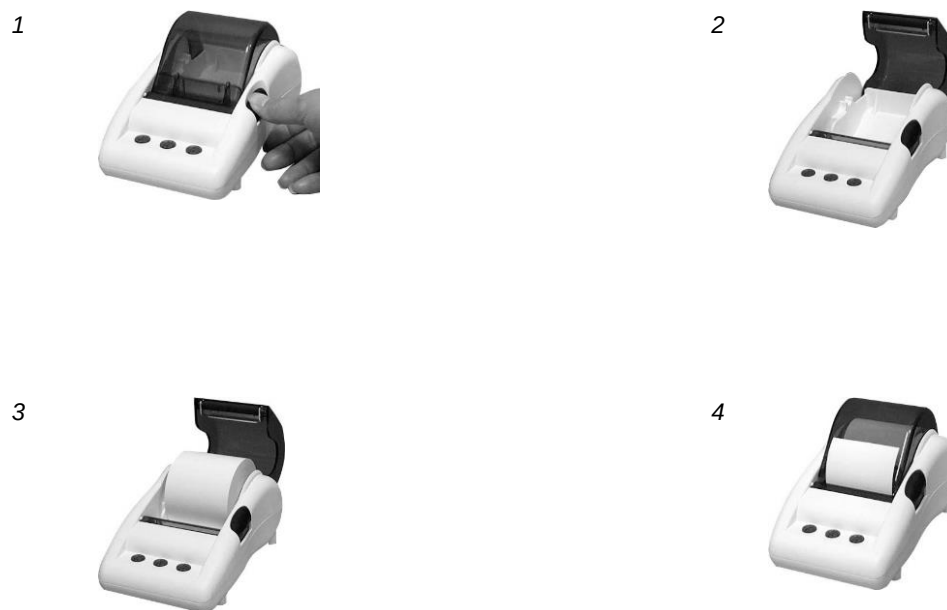


Figure 1-4-3 Paper rolls loading

1-5 Technical Specifications

1-5-1 Hardware Specifications

Network Specification

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

Connectors

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

Encryption

- WEP (Wired Equivalent Privacy) 64/128-bit RC4
- WPA (Wi-Fi Protected Access)
- WPA2 (Wi-Fi Protected Access)

External Antenna Type

- Dual detachable diversity antenna with reverse SMA

LED Indicators

- One POWER LED
- One WAN 10/100M Link/Activity LED
- One Wireless Link/Activity LED
- One System LED

Power Requirement

- External Power Adapter
- Input: 100-240 VAC, 50/60 Hz
- Output: 12V, 1.5A

Environment Conditions

- Operating Temperature: 0 to 50°C
- Storage Temperature: -10 to 60°C

- Operating Humidity: 20~80% non-condensing
- Storage Humidity: 20% to 90% non-condensing

Certifications

- FCC part 15 Class B, CE , C-Tick , VCCI

Dimension

- Size: 109×155×90 (W×D×H)mm
- Weight: About 340g (Net)

Printer Tray

- Push button: push to open printer cover
- Tear bar: cuts receipt paper
- Button A: flashing when printer cover is opened
- Paper roll housing: put paper roll here

Paper Roll and Printing

- Paper width: 58 (+0/-1)mm
- Paper length: 50M (max.)
- Paper thickness: 65 um
- Paper roll outside diameter: 63 (+2/-2) mm
- Paper roll inside diameter: 12 (+0.5/-0) mm
- Paper Detection: Photo interrupter
- Printing width: 48 mm
- Printing Method: Direct thermal
- Printing Speed: 25.4 mm/ sec
- Dot resolution (dots/ mm): 8 (203 dpi)
- Thermal head service life: 1 pulses or 50Km

1-5-2 Software Specifications

Networking

- IEEE802.3 10BaseT Ethernet
- IEEE802.3u 100BaseTX Fast Ethernet
- IEEE802.11b Wireless LAN
- IEEE802.11g Wireless LAN
- IEEE802.11n Wireless LAN
- Supports 30 Simultaneous Users
- IP Plug and Play (iPnP)

- HTTP Proxy Support
- WEP64/128bit
- WPA-PSK (TKIP)
- WPA2-PSK(AES)
- WPA/WPA2 Mix mode
- SMTP Server Redirection
- DHCP Server(RFC 2131)
- DHCP Relay(RFC 1542)
- Static IP WAN Client
- DHCP WAN Client
- PPPoE WAN Client(RFC 2516)
- PPTP WAN Client
- NAT(RFC 1631)
- IP Routing
- NTP (Network Time Protocol) Support
- Local Account: 256
- Max Session Number: up to 16384

Marketing Cooperation

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

User Accounting and Authentication

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

Security and Firewall

- Layer 2 Isolation Security
- SSL User Login page/ Configuration Page
- SSL Administration
- VPN Pass through (IPSec/PPTP)
- Customize SSL Certificate

- Pass Through IP/MAC/URL Address
- Restricted Destination Filtering IP/URL
- VPN (IPSec/PPTP) Pass through
- PPTP VPN Client
- WEP
- WPA
- WPA2
- WPA/WPA2 Mix mode

Management

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

2 Installation

2-1 Connecting the Antennas

The HSP500 provides two antenna connectors on the rear of the unit.

2-2 Installation Requirements

Before installing the HSP500, make sure your network meets the following requirements.

System Requirements

The HSP500 requires one of the following types of software:

- Windows 98 Second Edition/NT/2000/XP/Vista
- 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 HSP500
- Your subnet mask for the HSP500
- Your default gateway IP address
- Your DNS IP address

PPPoE

- Your user name and password from your ISP

PPTP

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

The Static IP settings for the PC

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

Note:

1. The gateway's default IP address setting is "10.59.1.1".
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 HSP500 is a DHCP server, and it will give your PC the necessary IP settings.

2-3 Getting Start

HSP500 Connection

1. Connect the DC power adapter to the HSP500 and plug it into a power socket.
2. Connect HSP500 and xDSL modem with an Ethernet Cable.

Configure TCP/IP of your computer

For Windows user,

1. Click Start > Control Panel, click Switch to Classic View and double click on Network Connections.
2. Right click on the Local Area Connection and click Properties.
3. Double click Internet Protocol (TCP/IP).
4. Choose Obtain an IP address automatically.
5. Click OK to close the Internet Protocol (TCP/IP) Properties and click OK again to close the Local Area Connection.

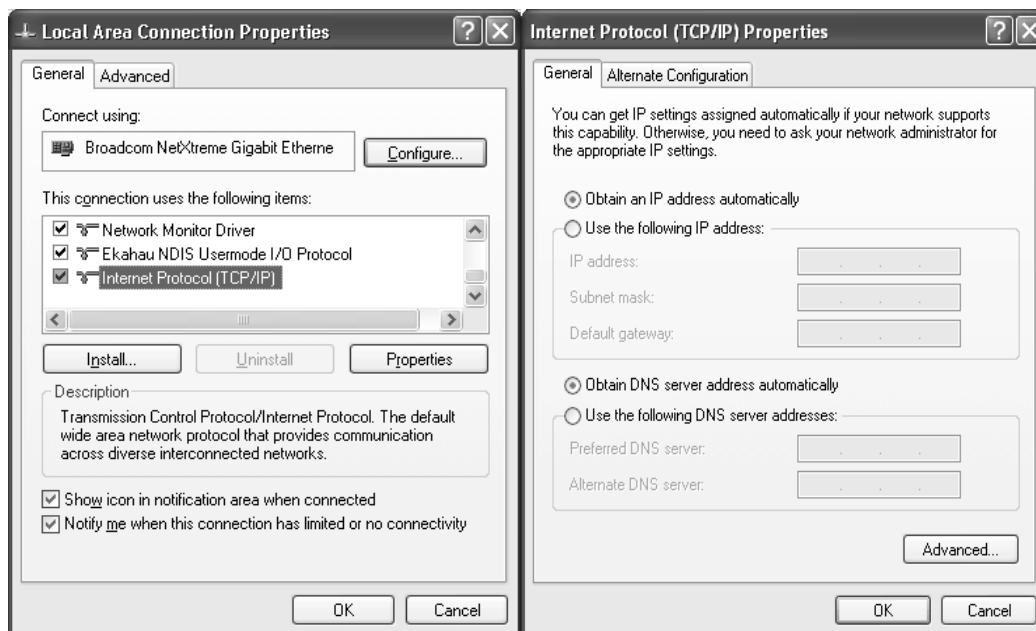


Figure 2-3-1 TCP/IP Setting

3 Configuring the HSP500

3-1 Setting Wizard

Step 1: The ESSID's name by default is related to the last 4 numbers of WLAN MAC. If the WLAN MAC is "00-90-0E-00-12-34", the default is "Xentino-1234_1". Please search ESSID "Xentino -1234_1" and connect it.

Step 2: Start your browser, and then enter the factory default IP address **10.59.1.1** in your browser's location box. Press **Enter**.

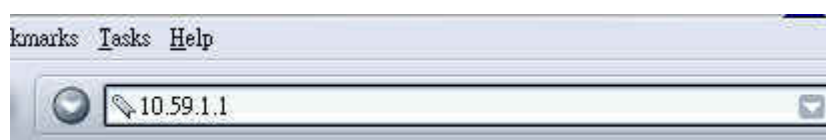


Figure 3-1-1 Web Browser Location Field (Factory Default)

Step 3: The HSP500 configuration tools menu will appear. In the Username and Password field, type the factory default user name **admin** and password **admin** 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.

Step 4: Internet Connection Setting

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

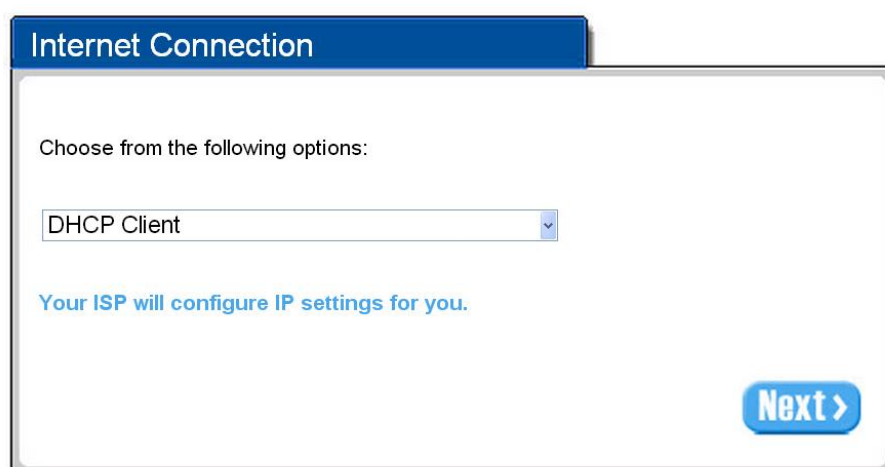


Figure 3-1-2 Internet Connection Setting Screen

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.

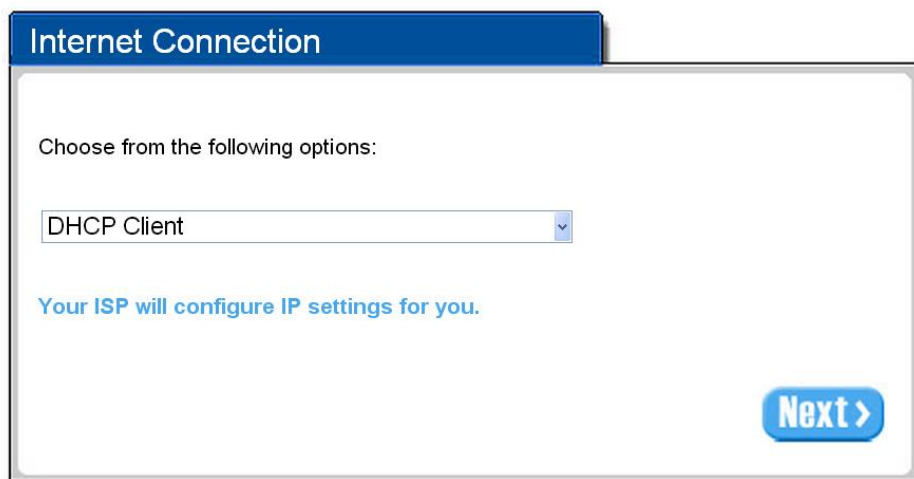
The image shows a web-based configuration interface for an Internet Connection. At the top, there is a blue header bar with the text "Internet Connection" in white. Below the header, the main content area has a light gray background. It starts with the instruction "Choose from the following options:". Below this is a dropdown menu with "DHCP Client" selected. Underneath the dropdown, there is a line of blue text that reads "Your ISP will configure IP settings for you.". In the bottom right corner of the main content area, there is a blue button with the text "Next >" in white.

Figure 3-1-3 Internet Connection Setting Screen

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

Choose one from the following selections:

Static IP Setting

Enter static IP information from your ISP:

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway IP address: 0.0.0.0

Primary DNS Server:

Secondary DNS Server:

Next >

Figure 3-1-4 Internet Connection Setting Screen—Static IP Setting

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

PPPoE (Point-to-Point Protocol over Ethernet)

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

Figure 3-1-5 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.
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your HSP500 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 HSP500 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 Setting is selected, then this screen will appear. Please enter the IP address, Username and Password provided by your ISP.

Figure 3-1-6 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.

HSP500 Wireless HotSpot Gateway with Printer

Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your HSP500 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 HSP500 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	

Step 5: Wireless Setting

This page allows you to choose Country, Channel ID and 802.11 Mode for wireless connection.

The image shows a web interface titled "Wireless Settings". It contains three configuration fields: "Country" set to "ETSI", "Channel" set to "6" with a note "(Leave default if you don't know how to choose)", and "802.11 Mode" set to "802.11n + 802.11g + 802.11b". At the bottom, there are two blue buttons: "< Back" on the left and "Next >" on the right.

Figure 3-1-7 Wireless Setting Screen

Item	Default	Description
Country	ETSI	Enter the Country for wireless connection.
Channel	6	Enter the channel ID for wireless connection.
802.11 Mode	802. 11n + 802.11g + 802.11b	Enter the 802.11 Mode for wireless connection.

Step 6: Authentication Setting

This page allows you to choose whether the users need to be authenticated before the Internet access. If users need the account and password to get access of Wi-Fi, please choose **Yes**.

The image shows a web-based configuration screen titled "Authentication Service". The main heading is "Do you need to authenticate users ?". Below this, there are two radio button options. The first option, "Yes, The users need to be authenticated before accessing the Internet", is selected with a green dot. The second option, "No, The users can access the Internet without authentication", is unselected. At the bottom left is a blue button labeled "< Back", and at the bottom right is a blue button labeled "Next >".

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 3-1-8 Authentication Service Setting Screen

Step 7: Billing Profile Setting

This page allows you to set your service and price plan. If you would like to provide “**FREE**” Wi-Fi for users, please activate “No Billing Mode” the price and the tax won’t be showed on the ticket. The billing type could be set by time based or by volume based.

Time Base Profile

Billing Profile

What is your service and price plan ?

☐ No Billing Mode

Currency: ☒ USD ☐ € (Number of decimals places:)

Time Base Profile

☒ **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.

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

Volume Base Profile

No.	Name(max. 32 char.)	Volume	Charge
01	Volume Profile 1	100 MBytes(1~4096)	1.00
02	Volume Profile 2	200 MBytes(1~4096)	2.00
03	Volume Profile 3	300 MBytes(1~4096)	3.00

< Back
Next >

Figure 3-1-9 Billing Profile Setting

Item	Default	Description
No Billing Mode	Disabled	If you would like to provide FREE Wi-Fi for users, please activate “No Billing Mode” the price and the tax won't be showed on the ticket.
Currency	USD	The administrator can decide the currency printed out on the ticket.
Service and Price Plan	Time to Finish	Choose your service and price plan.
Time Base Profile 01/02/03	You could set the profile name, usage time and charge here. You could set 3 different profiles in this step.	

Volume Based Profile

Volume Base Profile			
No.	Name(max. 32 char.)	Volume	Charge
01	Volume Profile 1	100 MBytes(1~4096)	1.00
02	Volume Profile 2	200 MBytes(1~4096)	2.00
03	Volume Profile 3	300 MBytes(1~4096)	3.00

Figure 3-1-10 Billing Profile Setting – Volume base

Item	Default	Description
Volume Base Profile 01/02/03	You could set the profile name, volume and charge here. You could set 3 different profiles in this step.	

Step 8: Accounting Setting

Following the Billing Profile Setting, the page allows to set the billing profiles for each button of the printer.

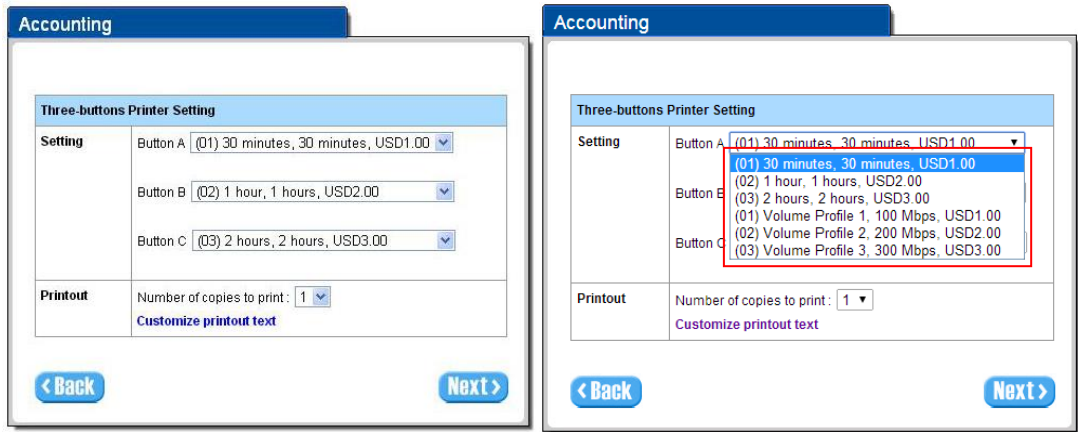


Figure 3-1-11 Accounting Setting

Item	Default	Description
Setting		
Button A/Button B/Button C		You could choose the billing profile via the dropdown list for each button on the printer.
Printout		
Numbers of copies to print	1	The numbers of the same printed tickets. You can reserve the copies.
Customize printout ticket		You can customize the printout text for the ticket. If you want to know more, please refer to 3-2-5-4 Customization / Account Printout.

Step 9: Firmware Upgrade Notice Setting

If you would like to receive the information about firmware upgrade, please activate it and leave your email.

The screenshot shows a web page titled "Firmware Upgrade Notice Setting" in a blue header bar. Below the header, the title "Firmware Upgrade Notice Setting" is repeated. A text box contains the following message: "To provide a better service, Handlink will inform you the new firmware version release, if you click 'Agree' and leave your E-mail. But if you don't click 'Agree' or your E-mail is wrong, you will not receipt it." Below this text is a checkbox with the label "Agree that Handlink will be able to contact me if there is new firmware version release." Underneath the checkbox are two input fields: "Email :" and "Reconfirm your mail :". At the bottom of the page are two blue buttons: "< Back" on the left and "Next >" on the right.

Firmware Upgrade Notice Setting	
Firmware Upgrade Notice Setting	
To provide a better service, Handlink will inform you the new firmware version release, if you click "Agree" and leave your E-mail. But if you don't click "Agree" or your E-mail is wrong, you will not receipt it.	
☐	Agree that Handlink will be able to contact me if there is new firmware version release.
Email :	
Reconfirm your mail :	
< Back Next >	

Figure 3-1-12 Firmware Upgrade Notice Setting

Step 10: System Setting

System Setting: The HSP500 allows changing the administrator's Username and Password, and system time setting.

System Setting

Be sure to change your settings:

Username:

Password: Confirm:

Time Zone: GMT

☒ Manual Setting

Date: 2011 / 1 / 1 (Year/Month/Day)

Time: 00 : 00 : 00 (Hour : Minute : Second)

☒ NTP Setting Date: 2004/7/2 Time: 16:06:02 [Update Now](#)

Server IP/Domain Name 1:

Server IP/Domain Name 2:

Update Time: 24 hours

☐ Daylight Saving Time

Start Date: 4 Month / 1 Day

End Date: 10 Month / 31 Day

Secure Administrator IP Address ☒ All ☐ Selected

[Back](#) [FINISH](#)

Figure 3-1-13 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.
Time Zone	GMT	Enter the Time Zone for the system.
Manual Setting	YYYY/MM/DD HH:MM:SS	Click Manual Setting to set the system date and time.

NTP Setting		Click Update 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 **FINISH** button to save the settings then the system will restart.

Note:

1. This Web agent is best viewed with IE 5.0 or Netscape 6.0 and above browsers.
2. Username and Password can consist of up to 20 alphanumeric characters and are case sensitive.
3. If for some reason your password is lost or you cannot gain access to the HSP500 Configuration Program, please press the reset button to load the device to manufacturer defaults.
4. If the administrator doesn't send packet in 5 minutes (default), the HSP500 will logout automatically.
5. Proxy needs to set disable first when the administrator accesses admin UI.

3-2 Advanced Setup

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

AUTHENTICATION

- AUTHENTICATION
- RADIUS

BILLING

- BILLING
- ACCOUNTING
- CREDIT CARD

MANAGEMENT

- SYSLOG
- SESSION TRACE
- BANDWIDTH
- SNMP

SECURITY

- PASS THROUGH
- FILTERING
- SECURE REMOTE

SYSTEM

- SYSTEM
- WAN / LAN
- SERVER
- CUSTOMIZATION
- PORTAL PAGE
- ADVERTISEMENT
- WALLED GARDEN
- DDNS
- WIRELESS
- USB

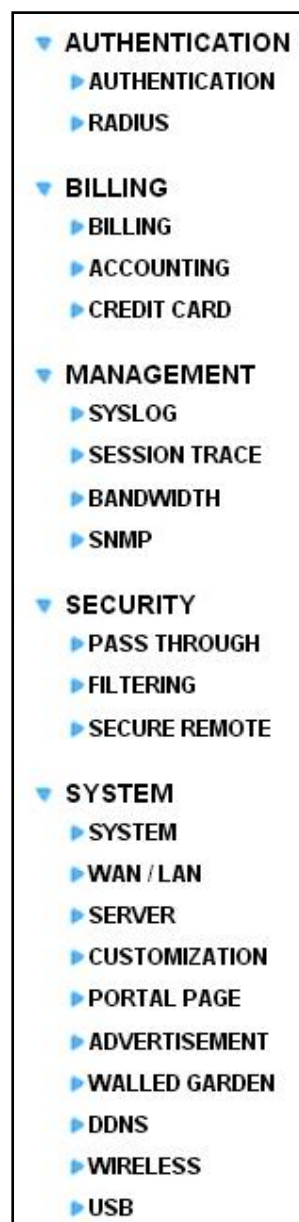


Figure 3-2-1 Advanced Setting Item

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

3-2-1 Authentication

3-2-1-1 Authentication

AUTHENTICATION

Authentication Type	☐ No Authentication ☒ Built-in Authentication Personal ID Recognition Mode : ☐ Enable ☒ Disable ☐ User Agreement ☐ Redirect URL Link http:// Code ☒ Standard User Agreement Page * Authentication default setting would be mapping To ESSID 1.
Current User Information Backup	1 Min(s) (1 - 1440)
SSL Login Page	☒ Disable ☐ Enable
User Idle Time Out	5 Min(s) (1 - 1440) (Not function on "Time to Finish" billing mode)
Apply	

Figure 3-2-2 Authentication

Item	Default	Description
Authentication Type	Built-in Authentication	Option: No Authentication, Built-in Authentication or User Agreement. No Authentication Subscriber can direct access the Internet without enter username and password. Built-in Authentication HSP500 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 the device, and the system will authenticate the subscriber login according to the generated account. Personal ID Recognition mode Some countries or areas will ask Wi-Fi users to offer personal ID recognition according to the law for the

		Internet crime investigation. If you would like to activate PIR function, please refer to Chapter 5 Personal ID Recognition . The default is Disable. User Agreement Subscriber must accept the service usage agreement before they can access the Internet.
Redirect Login Page URL	Empty	The input format can be http://www.yahoo.com. The maximum character of the URL Link is 200.
Code	Copy and paste the following HTML Code into your home page to produce redirect subscriber login page.	

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

Redirect Login Page Code

```

<html>
<body style="font-family: Arial" bgcolor="#FFFFFF">
<form method="post" action="http://1.1.1.1/login.cgi" name="apply">
<div align="center">
<table cellSpacing="0" borderColorDark="#FFFFFF" cellPadding="4" width="50%" bgColor="#F7F7F7"
borderColorLight="#9dcda0" border="1">
<tr>
<td align="center" width="100%" bgColor="#d7f0d7" colSpan="2">
<font size="2"><b>Welcome</b></font>
</td>
</tr>

```

Figure 3-2-3 Preview Redirect Login Page Code

Item	Default	Description
Current User Information Backup	1 Min(s)	The system provides automatically backup account information and unused account to flash ROM. This function allow administrator to adjust the backup time. The default value is 1 minute. The Current User Information Backup valid range is 1 to 1440.
SSL Login Page	Disable	Enables or disables SSL security of login page.
User Idle Time Out	5 Minutes	The user idle time out valid range is 1-1440.

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

3-2-1-2 RADIUS

RADIUS

☒ **Disable**
☐ **Enable**

☒ **Time to Finish**
 The subscriber can access the Internet only for a single session. After the subscriber logs in, Internet access is available until the session ends or time runs out, whichever comes first.

☐ **Accumulation**
 The subscriber can access the Internet multiple times with one account. The system accumulates the time of each session until the purchased time limit is reached.

Primary RADIUS Server
 Server IP:
 Authentication Port: 1812
 Accounting Port: 1813
 Shared Secret Key:

Secondary RADIUS Server
 Server IP:
 Authentication Port: 1812
 Accounting Port: 1813
 Shared Secret Key:

Retry times when Primary fails: 1
 Retry Frequency: 3 seconds (3~75)

Accounting Service
☐ **Enable**
☒ **Disable**
 Interim Update Time: 5 (Minute)

Authentication Method
 CHAP

WISPr Smart Client
☐ **Enable**

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

Figure 3-2-4 Authentication Setting Screen

Item	Default	Description
RADIUS Authentication	Disable	Disable (RADIUS Disable) Subscriber can direct access the Internet without entering username and password. Enable (RADIUS Authentication) HSP500 provides "RADIUS Authentication" for service provider to build up an Internet service with RADIUS server. If RADIUS Authentication is enabled, all subscribers' authentication will send to RADIUS Server by RADIUS protocol (RFC 2865, 2866).
Time to Finish/ Accumulation	Enable	Service provider provides two different accounting calculate for the Internet service.
Primary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number; the authentication port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number; the accounting port number must

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

3-2-2 Billing

3-2-2-1 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

☐ Enable Credit Card Service
 ☐ No Billing Mode

Currency: ☒ USD ☐ € (Number of decimals places:)

☐ Tax Percentage: %

Time Base Profile

☒ **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.

No.	Active	Name (max. 12 characters)	Account Usage Time	Charge
1	☒	30 minutes	30 minutes ▾	1.00
2	☒	1 hour	1 hours ▾	2.00
3	☒	2 hours	2 hours ▾	3.00
4	☐	3 hours	3 hours ▾	4.00
5	☐	5 hours	5 hours ▾	5.00
6	☐	10 hours	10 hours ▾	6.00
7	☐	1 day	1 days ▾	10.00
8	☐	2 days	2 days ▾	20.00
9	☐	7 days	7 days ▾	50.00
10	☐	30 days	30 days ▾	200.00

Volume Base Profile

No.	Active	Name (max. 32 characters)	Volume	Charge
1	☒	Volume Profile 1	100 MBytes(1~4096)	1.00
2	☒	Volume Profile 2	200 MBytes(1~4096)	2.00
3	☒	Volume Profile 3	300 MBytes(1~4096)	3.00
4	☐	Volume Profile 4	400 MBytes(1~4096)	4.00
5	☐	Volume Profile 5	500 MBytes(1~4096)	5.00

Figure 3-2-5 Billing Setting Screen

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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 3-2-2-3 Credit Card. The credit card function only supports the American dollars.
No Billing Mode	Disable	If you would like to provide FREE Wi-Fi for users, please activate “No Billing Mode” the price and the tax won't be showed on the ticket.
Currency	USD	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).
Time Base Profile		
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	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.
You are able to set up to 10 records of time base profile in UI.		
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.
Volume Base Profile		
You are able to set up to 5 records of volume base profile in UI.		
Active	-	Click on check box, to active or inactive the billing profile.
Name	-	It is the name of billing profile. The maximum allowed characters length is 12.
Account Usage time	-	Setting the volume of the account. When this volume is run out, user account will be discontinued.
Charge	-	Enter the unit rate amount.

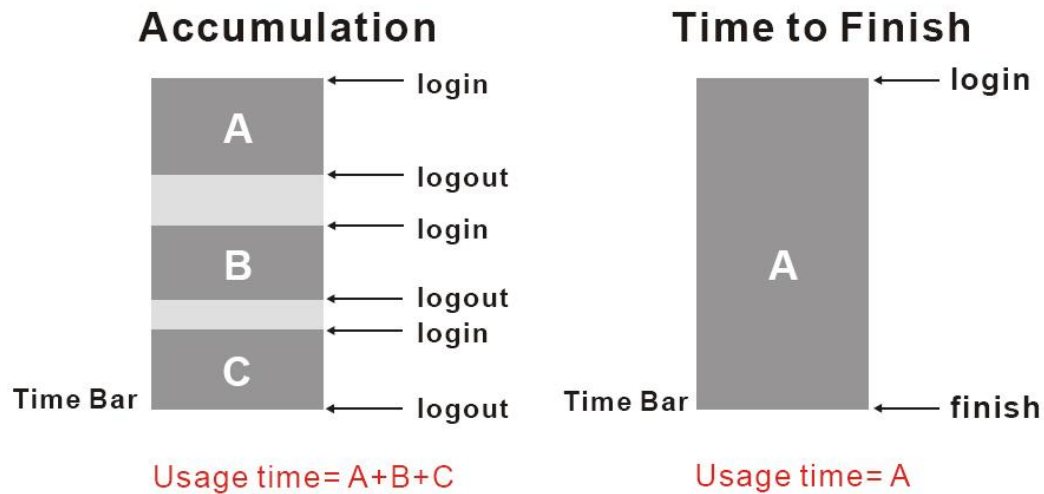


Figure 3-2-6 Accumulation and Time to Finish

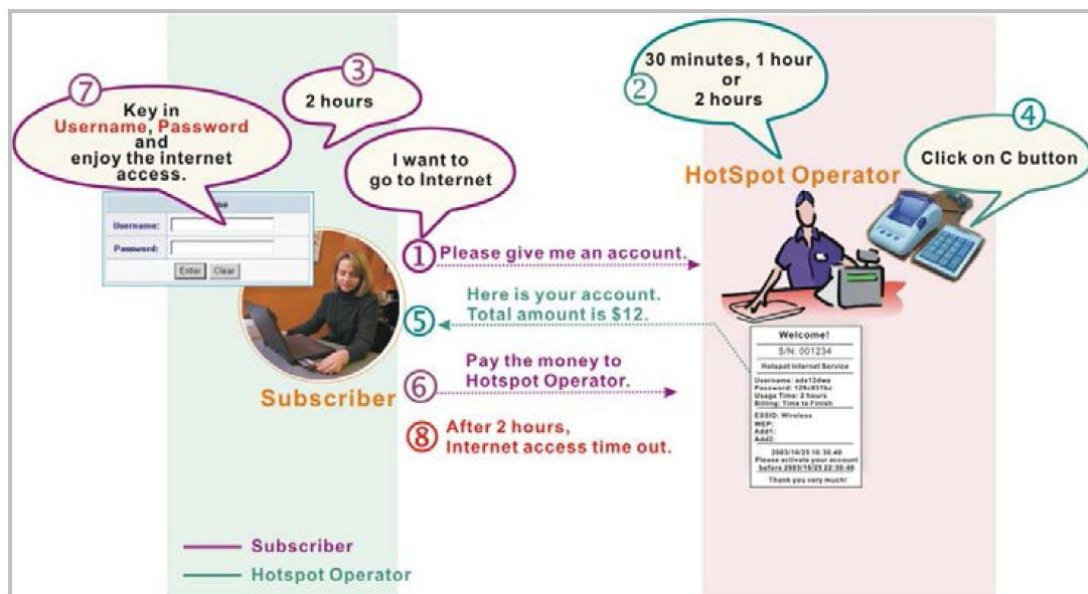


Figure 3-2-7 Pre-paid Procedure Diagram

3-2-2-2 Accounting

This function allow service provider to generate the subscriber accounts.

ACCOUNTING

Expiration	Un-used account will be deleted after 24 hours automatically. (1~30) Accumulation account will be deleted after last logged out 3 months automatically. (1~30)
Printout	Number of copies to print : 1
Top Up	☐ Can be replenished by subscriber
Free Trial	☐ Enable Free Trial Service Free Trial Button Name shown on Login Page: Free Trial for 30 minute(s) (Max. 1 ~ 30 characters) By ☒ Usage Time 30 Minute(s)(5 ~ 1440) Or By ☐ Usage Volume 10 Mbyte(s)(1~1024) Reset Time 00 : 00 (Hour : Minute)

Three-Button Printer / Web-based Account Generator Panel	
Button A	(01) 30 minutes, 30 minutes, USD1.00
Button B	(01) 30 minutes, 30 minutes, USD1.00
Button C	(01) 30 minutes, 30 minutes, USD1.00
Use Button A for Discount Price Plan based on "Button Presses": Disable (only valid for Three-Button Printer)	

Discount Price Plan based on "Button Presses" ☒ Charge by levels			
Level	Conditions	Button Presses	Unit Price
01	when >=	1	same as base charge
02	when >=		
03	when >=		
04	when >=		
05	when >=		
06	when >=		
07	when >=		
08	when >=		
09	when >=		
10	when >=		

Figure 3-2-8 Accounting Setting Screen

Item	Default	Description
Expiration		
Un-used account will be deleted after ~hours automatically	24 hours	Enter the number of hours/minutes/days. The field maximum value is 30 hours/minutes/days.
Accumulation account will be deleted after last logged in ~	3 months	Enter the number and select time unit from list box. The field maximum value is 30 month/ days/ hours.
Printout		

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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.
Top Up		
Can be replenished by subscriber	Disable	Click the check box to enable the Top Up function.

Free Trial	☐ Enable Free Trial Service
	Free Trial Button Name shown on Login Page: Free Trial for 30 minute(s) (Max. 1 ~ 30 characters)
	By ☒ Usage Time 30 Minute(s)(5 ~ 1440) Or By ☐ Usage Volume 10 Mbyte(s)(1~1024)
	Reset Time 00 : 00 (Hour : Minute)

Figure 3-2-9 Accounting Setting Screen_Free Trial

Item	Default	Description
Free Trial		
Enable Free Trial Service	Disable	You could provide free trial to users by enable this function.
Free Trial Button Name shown on Login Page	Free Trial for 30 minute(s)	You could customize the text that shown on user login page. The maximum allowed characters length is 30.
Free Trial base	By Usage time	You could set the free trial to be based by time or by volume and you could also define the usage of free trial.
Reset Time	00:00	The gratuitous usage amount of “free Trial” is on a periodic time basis. The “Reset Time” defines the periodic cycle time. Based on the configuration, HSP500 grants users the gratuitous usage amount (time or volume) on each periodic cycle time.

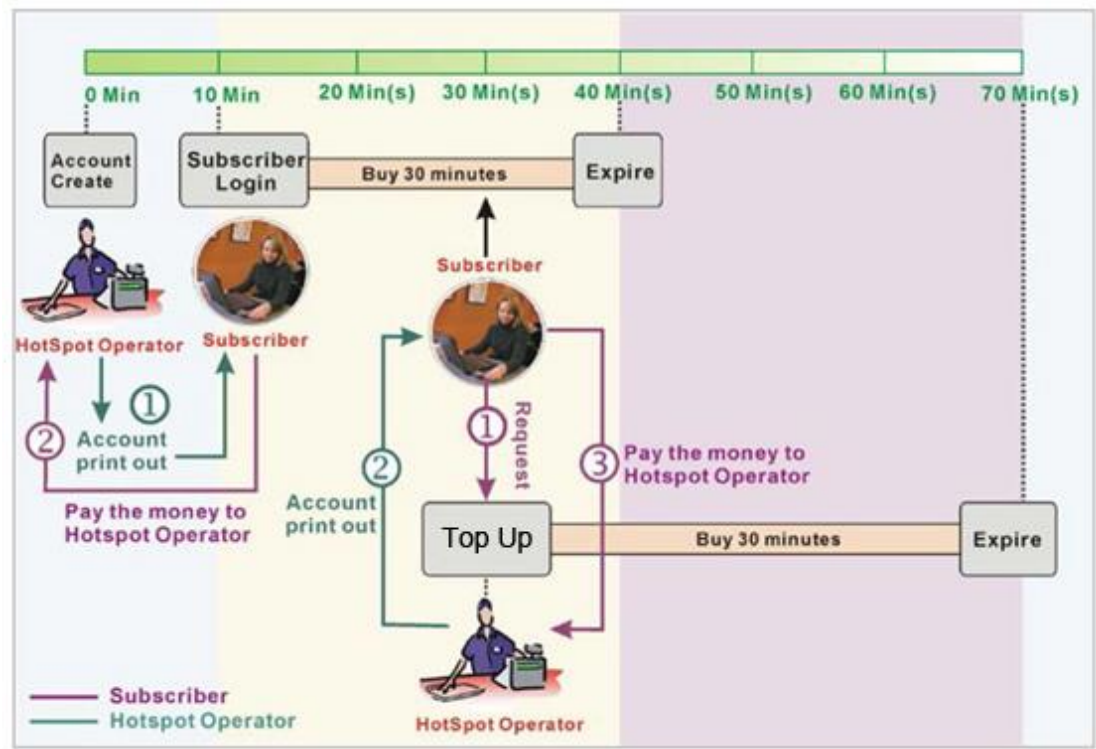


Figure 3-2-10 Account Process Diagram Can be topped up by subscriber=Enable

Item	Default	Description
Button A~C		Define each button's billing profile. Select one billing profile by clicking in the list box.
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 activate the discount price plan.

Example: If press 7 times

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

Three-Button Printer / Web-based Account Generator Panel	
Button A	(01) 30 minutes, 30 minutes, USD1.00
Button B	(02) 1 hour, 1 hours, USD2.00
Button C	(03) 2 hours, 2 hours, USD3.00
Use	Button A for Discount Price Plan based on "Button Presses": Disable (only valid for Three-Button Printer)

Figure 3-2-11 Example 1

Amount: 7 x \$2.00= \$14.00

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

Three-Button Printer / Web-based Account Generator Panel

Button A (01) 30 minutes, 30 minutes, USD1.00

Button B (02) 1 hour, 1 hours, USD2.00

Button C (03) 2 hours, 2 hours, USD3.00

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

Discount Price Plan based on “Button Presses” ☐ Charge by levels			
Level	Conditions	Button Presses	Unit Price
01	when >=	1	same as base charge
02	when >=	3	1.5
03	when >=	7	1
04	when >=		
05	when >=		
06	when >=		
07	when >=		

Figure 3-2-12 Example 2

Amount: 7 x \$ 1 = \$ 7.00

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

Three-Button Printer / Web-based Account Generator Panel

Button A (01) 30 minutes, 30 minutes, USD1.00

Button B (02) 1 hour, 1 hours, USD2.00

Button C (03) 2 hours, 2 hours, USD3.00

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

Discount Price Plan based on “Button Presses” ☒ Charge by levels			
Level	Conditions	Button Presses	Unit Price
01	when >=	1	same as base charge
02	when >=	3	1.5
03	when >=	7	1
04	when >=	0	
05	when >=	0	
06	when >=	0	
07	when >=	0	

Figure 3-2-13 Example 3

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

● Discount Price Plan based on “Button Presses”

Discount Price Plan based on "Button Presses" ☒ Charge by levels			
Level	Conditions	Button Presses	Unit Price
01	when > =	1	same as base charge
02	when > =	0	
03	when > =	0	
04	when > =	0	
05	when > =	0	
06	when > =	0	
07	when > =	0	
08	when > =	0	
09	when > =	0	
10	when > =	0	

Figure 3-2-14 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 and the success dialog box appears. Click on **Back** to return to Accounting setting screen.

3-2-2-3 Credit Card

HSP500 provides three credit card services (**Authorize.net**, **iValidate.net**, **Secure Pay**, **Paypal** and **WorldPay**) that allow service provider to authorize, process, and manage credit transactions directly from Internet.

CREDIT CARD

☒ Authorize.net	
Version	3.1
Merchant ID	
Merchant Password	☐ New Password:
Merchant Transaction Key	
Payment Gateway	https:// secure.authorize.net/gateway/transact.dll
☐ Email Additional Information	☐ Merchant Name: (max. 40 characters) ☐ Username and Password ☐ Usage Time
☐ iValidate.net	
Merchant ID	
Terminal ID	
Secure Server Address	https:// https://www.securepay.com.au/xmlapi/payment
☐ PayPal	
Business	(max. 127 characters)
Currency Code	Australia Dollar ▼
Identity Token	(max. 160 characters)
Payment Gateway	https:// www.paypal.com/cgi-bin/webscr (max. 100 characters)
☐ World Pay	
Payment Gateway	https:// select.worldpay.com/wcc/purchase
Installation ID	
Currency Code	(max. 3 characters)
Description	(max. 100 characters)
☐ Test Mode	success ▼
Credit Card icons to be displayed on the login page ☐  ☐  ☐  ☐  ☐  ☐  ☐ BankCard	
Apply	

Figure 3-2-15 Credit Card Setting Screen

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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.
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/transaction.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	Empty	Enter the merchant's company name. The maximum allowed characters length is 40.
Username and Password Enable/Disable	Disable	The Email Additional Information included subscriber username and password would be sent to subscriber.
Usage Time Enable/Disable	Disable	The Email Additional Information included subscriber usage time would be sent to the subscriber.
iValidate.net		
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 20.
Device ID	Empty	Enter your Device ID. This is a Device Identification Number that you're received from your Merchant Provider. The maximum character of the Device ID is 20.
Secure Server Address	https://www.vious.net/merchant/processcc.asp	Enter the secure server address.

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Item	Default	Description
Secure Pay		
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 7.
Secure Pay Address	https://www.securepay.com.au/securepay/payments/process2.asp	Enter the address of SecurePay Payment Gateway.
Paypal		
Business	Empty	Enter your Merchant PayPal account. This is a Merchant Identification account that you're register on PayPal. The maximum character of the Business is 127.
Currency Code	Australia dollar	To Drop-down the list. It's includes Australia dollar, Canadian Dollar, Euro, Pound Sterling, Japanese Yen , U.S. Dollars, Czech Koruna, Danish Kroner, Hong Kong Dollars, Hungarian Forint, New Zealand Dollars, Norwegian Kroner, Polish Zloty, Singapore Dollars, Swedish Kronor, Swiss Francs.
Identity Token	Empty	Enter the Identities token form merchants profile in the Paypal site. The maximum character of the Identity Token is 160.
Payment Gateway	https://www.paypal/cgi-bin/webscr	Enter the address of Payment Gateway. The maximum character of the payment gateway is 100.
World Pay		
Payment Gateway	select.worldpay.com/wcc/purchase	Enter the payment gateway address.
Installation ID	Empty	The unique reference number, assigned by WorldPay, for a particular Select installation. This is the number you send to WorldPay in your payment form. You will probably have at least two of these; one for the live installation and one for testing.
Currency Code	Empty	Enter the currency code
Description	Empty	Enter a description of payment page
Test Mode	Disable, Success	Enables or disables test mode function. Select test mode by clicking in the list box. Success—to make a successful test transaction. Fail—for a failed transaction.

Item	Default	Description
Credit Card icons to be displayed on the login page		Click on check box to display credit card icon on the login page.

Click Apply button to save the new settings and the success dialog box appears. Click on **Back** to return to Accounting setting screen.

Note: Please leave the Administrator' s Email address in Advanced/Syslog/Email portion.

3-2-3 Management

3-2-3-1 Syslog

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

Syslog Setting

Figure 3-2-16 Syslog Setting Screen

Item	Default	Description
Send to Syslog Server	Disable	Enables or disables the syslog server function.
Syslog on LAN		
Server IP Address	Empty	Enter syslog server's IP address. The HSP500 will send all of its logs to the specified syslog server.
Server MAC Address	Empty	Enter the syslog server's MAC address. The HSP500 will send all of its logs to the specified syslog server.

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

Click **Apply** button to save the new settings and the success dialog box appears. Click on **Back** to return to Syslog setting screen.