

# User Guide



# HS960, AG-200E

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#### Safety and Precaution

Installation

- Use only the type of power source indicated on the marking labels.
- Use only power adapter supplied with the product.
- Do not overload wall outlet or extension cords as this may increase the risk of electric shock or fire. If the power cord is frayed, replace it with a new one.
- Proper ventilation is necessary to prevent the product overheating. Do not block or cover the slots and openings on the device, which are intended for ventilation and proper operation. It is recommended to mount the product with a stack.
- Do not place the product near any source of heat or expose it to direct sunlight.
- Do not expose the product to moisture. Never spill any liquid on the product.
- Do not attempt to connect with any computer accessory or electronic product without instructions from qualified service personnel. This may result in risk of electronic shock or fire.
- Do not place this product on unstable stand or table.

#### When in Use

- Power off and unplug this product from the wall outlet when it is not in use or before cleaning. Pay attention to the temperature of the power adapter. The temperature might be high.
- After powering off the product, power on the product at least 15 seconds later.
- Do not block the ventilating openings of this product.
- When the product is expected to be not in use for a period of time, unplug the power cord of the product to prevent it from the damage of storm or sudden increases in rating.

#### Service

Do not attempt to disassemble or open covers of this unit by yourself. Nor should you attempt to service the product yourself, which may void the user's authority to operate it. Contact qualified service personnel under the following conditions:

- If the power cord or plug is damaged or frayed.
- If liquid has been spilled into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally when the operating instructions are followed.
- If the product has been dropped or the cabinet has been damaged.
- If the product exhibits a distinct change in performance.

#### Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to
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# **1. INTRODUCTION**

The NetComm HS960 is a compact intelligent gateway integrated with a four-port port-based VLAN switch. It provides Plug' Play Internet access, advanced security and network management.

The HS960 is designed for service providers, system integrators or hotspot venue operators to offer integrated solutions for rapid deployment, which can start a hotspot service quickly and easily offering enhanced service performance.

The HS960 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 the HS960 accepts any client configuration login. When the client opens a browser window, the HS960 immediately recognises a new end-user and redirects their browser to customizable log in web page. There is no need for end users 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 the hotspot service. The HS960 is completely Plug' n Play with any browser.

This guide covers areas specific to administraton of the Wireless Gateway and will help in you in customising the device to suit your needs.

#### Login page:

The HS960 Wireless Gateway allows you to change the look and feel of the login page that a subscriber will see when logging onto the Internet. You can decide what the welcome message is, if you want a logo on the page, or if you would like the web page split into two frames with the login fields in the bottom frame and a website of your choice in the top frame. You can even code your own login page or redirect the subscriber to a different website address.

#### Receipt:

Customise what is printed on the receipt issued to subscribers.

#### Billing:

You can decide how much to charge people to use the service, and customise a billing profile for each button on the printer that comes with the HS960 Wireless Gateway. You can implement discounts based on button sequences on the printer. Decide how you would like your customers to pay for the service - before logging in, or once they have finished using the Internet.

#### Accounting:

Decide whether you would like to use the HS960 printer or a printer on your network to print account details.

#### Pass Through:

Allow certain machines to access the internet without having to enter a username and password. This is ideal for VIP members. You can also allow subscribers to access certain websites without having to enter a username and password by listing the website addresses under the Pass Through section.

#### Advertisements:

Advertise specials that your organisation may have, or charge companies to use the HS960 Wireless Gateway for advertisements. The adverts will be pop-ups that appear while a subscriber is surfing the Internet.

#### Filtering:

Decide which websites you want to restrict access to (e.g. competitors, X-rated sites, download sites).



# 1-1 Package Contents

The following items are included in your HS960

HS960



- One HS960
- Two antennas
- One AC Power Adapter for HS960
- One CD containing a User Manual
- Two screws for wall-mount
- One UTP Ethernet/Fast Ethernet cable (Cat.5 Twisted-pair)
- AG-200E Account Generator Printer



- One AC Power Adapter for mini account generator printer
- One UTP Ethernet/Fast Ethernet cable (Cat.5 Twisted-pair)
- One Account Generator Printer User's Guide

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



# **1-2 Features**

- Wireless data rates up to 54Mbps
- Supports 100 Simultaneous Users
- Built-in AAA (Authentication/Accounting/Authorization) and Billing mechanism
- IP Plug and Play (iPnP)
- Comprehensive security
  - 64/128-bit WEP encryption
  - WPA encryption
  - IP/URL filtering
- Intelligent Management
   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 HS960 to direct sunlight or another heat source.
- Choose a well-ventilated area to position your HS960.



# 1-4 Overview of the HS960 Wireless Gateway

1-4-1 Top Panel LEDs Indication



LED	State	Description
PWR	Off	The HS960 is not receiving electrical power.
	Green	The HS960 is receiving electrical power.
SYS	Off	The HS960 status is defective.
	Green	The HS960 status is complete.
	Green (Blinking)	During firmware upgrades, this system LED will blink.
WAN	Off	Port has not established a network connection.
	Green	Port has established a valid 10/100Mbps network connection.
	Green (Blinking)	10/100Mbps traffic is traversing the port.
LAN-1~ LAN-4	Off	Port has not established any network connection.
	Green	A port has established a valid 10/100Mbps network connection.
	Green (Blinking)	10/100Mbps traffic is traversing the port.
WLAN	Off	The Wireless is not ready.
	Green	The HS960 has established a valid wireless connection.
	Green (Blinking)	The Wireless connection is active.

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### 1-4-2 Rear Panel

The rear panel of the HS960 is shown below.



#### 1. 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. The individual port can be either connected to 100BaseTX networks or 10BaseT networks. When connecting to a 100BaseTX network, the ports operate at 100Mbps in half-duplex mode or 200Mbps in full-duplex mode. When connecting to a 10BaseT network, the ports operate at 10Mbps in half-duplex mode or 20Mbps in full-duplex mode.

#### 2. WAN

One Ethernet port used for linking xDSL or Cable Modem.

#### 3. Reset Button:

The HS960 has a reset button at the rear panel of the device. Use this function to reset the system back to factory defaults.

#### 4. Power Jack

Used to connect the external power supply with the HS960.







# **1-5 Technical Specifications**

### 1-5-1 Hardware Specifications

#### **Network Specification**

- IEE802.3 10BaseT Ethernet
- IEE802.3u 100BaseTX Fast Ethernet
- IEE802.11g 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)

#### Encryption

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

#### External Antenna Type

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

### LED Indicators

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

#### **Power Requirement**

- External Power Adapter
- Input: 100-240 VAC, 50/60 Hz
- Output: 5V, 2A

#### **Environment Conditions**

- Operating Temperature: 0 to 50°C
- Storage Temperature: -10 to 60°C
- Operating Humidity: 10~80% non-condensing
- Storage Humidity: 10% to 90% non-condensing

#### Certifications

• FCC part 15 Class B, CE, CSA, VCCI Class B, CE / R&TTE, C-Tick

#### Dimension

- Size: 242 (L) x 130.5 (W) x 77 (H) mm
- Weight: About 420g (Net)

#### Mounting

• Desktop, Wall mounted



# 1-5-2 Software Specifications

#### Networking

- IEEE802.3 10BaseT Ethernet
- IEEE802.3u 100BaseTX Fast Ethernet
- IEEE802.3af Power over Ethernet
- IEEE802.11b Wireless LAN
- IEEE802.11g Wireless LAN
- Supports 100 Simultaneous Users
- IP Plug and Play (iPnP)
- HTTP Proxy Support
- SMTP Server Redirection
- DHCP Server
- DHCP Relay
- Static IP WAN Client
- DHCP WAN Client
- PPPoE WAN Client
- PPTP WAN Client
- NAT
- NTP (Network Time Protocol) Support
- DDNS

#### Marketing Cooperation

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

#### User Accounting and Authentication

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

#### Security and Firewall

- Layer 2 Isolation Security
- SSL User Login page/ Configuration Page
- SSL Administration
- VPN Pass through (IPSec/PPTP)
- Customize SSL Certificate
- Pass Through IP/MAC/URL Address
- Restricted Destination Filtering IP/URL
- VPN (IPSec/PPTP) Pass through
- PPTP VPN Client
- WEP
- WPA



#### Management

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

#### Extra Function with optional AG-200E

- Local Authentication
- Local Accounting
- Local Billing

### AG-200E Account Generator (Thermal Printer)

- Interface: Ethernet
- Print Width: 48mm (Paper width: 58mm)
- Paper Length: 50 M



# 2-1 Wall-Mounting

The HS960 can be wall-mounted by applying the two mounting brackets supplied.

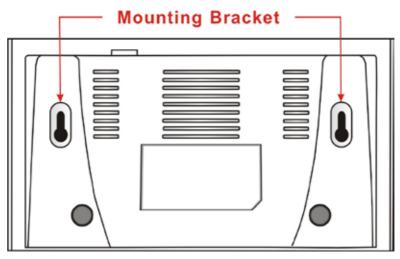
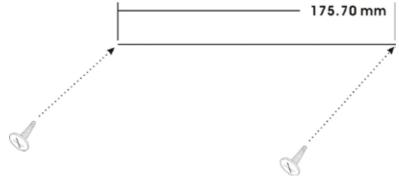


Figure 2-1 Wall-Mounting Bracket - Bottom of HS960

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





2. Hang HS960 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 HS960 rear panel connectors could pull out the HS960 from the wall.



# 2-2 Connecting the Antennas

The HS960 provides two antenna connectors on the rear of the unit.

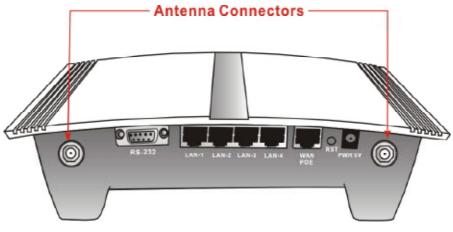


Figure 2-3 Antenna Connectors

# 2-3 Installation Requirements

Before installing the HS960 please ensure your network meets the following requirements.

### **System Requirements**

The HS960 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 Note: Prepare twisted-pair cables with RJ-45 plugs. Use Cat.5 cable for all connections. Make sure each cable does not exceed 100 meters.



# **ISP Requirements**

Verify whether your ISP uses fixed or dynamic IP addressing. If it is a fixed IP, be sure to get the IP from your ISP.

#### Dynamic IP

Dynamic IP Setting

### Fixed IP

- Your fixed IP address for the HS960
- Your subnet mask for the HS960
- Your default gateway IP address
- Your DNS IP address

### PPPoE

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

### PPTP

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

# **Your PC Requirements**

### The Static IP settings for the PC

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

1. The gateway's default IP address setting is "10.59.1.1".

2. The gateway's default subnet mask setting is "255.0.0.0".

# The Dynamic IP settings for the PC

We recommend that you leave your IP settings as automatically assigned. By default, the HS960 is a DHCP server, and it will give your PC the necessary IP settings.



# 2-4 Getting Started

- 1. Place the HS960 and AG-200E Printer on a flat work surface.
- 2. Connect the Ethernet cable to the HS960's LAN port.
- 3. Connect the other end of the Ethernet cable to the AG-200E Account Generator Printer's RJ45 port.
- 4. Ensure that your modem and computer are both switched on.
- 5. Use the supplied cable to connect the HS960'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 HS960 . Check that the LAN Port Status LED lights.
- 7. Configure the further parameters via a Web browser.

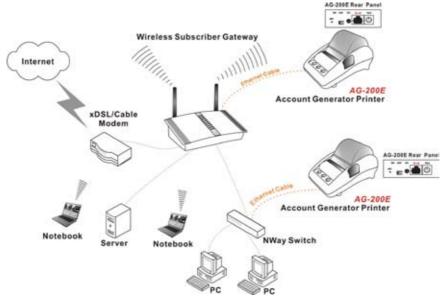


Figure 2-4 HS960 Connection



2-5 POE (Power over Ethernet) Application

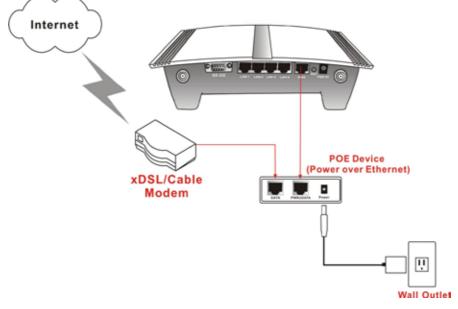


Figure 2-5 POE Connection

Note: To use the HS960's POE feature, follow the instructions for your specific POE device.



# **CONFIGURING THE HS960**

# 3-1 Set Up Wizard

# 3-1-1 Startup

3.

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

kmarks	<u>T</u> asks <u>H</u> elp	
0	№ 10.59.1.1	5

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

### 3-1-2 Configuration

The HS960 menu will appear. In the Username and Password field, type the factory default user name **admin** and password **admin** and click **Login**.

l	HS960
Username: Password:	
V	ersion 1.00.09
Login	Reset

Figure 3-2 Configuration Tools Menu

If you are first time setting the system, the wizard setup screen will appear. You will be guided, step-bystep, through a basic setup procedure.



NetComm		WICCON SETUP	ADVANCED SETUP	SYSTEM STATUS	SYSTEM TO
MGLUUIIIIII www.netcomm.com.au					
1 INTERNET 2 WIRELESS	Internet Connection	_			
E-MAIL     AUHENTICATION     BULLING     PRINTER     ACCOUNTING     SYSTEM	Please chaose one from the following selection OHOP Clear Your ISP will annihigh a settings for ann		Narth		

Figure 3-3 wizard set up screen

System			79	
System/Host Name		Firmware Version	1.00.09	
Location Name		Domain Name		
System Time	2006/10/25 19:00:00	System Up Time	000.00H/01/t258	
WAN MAC address	00:13:49:98:00:96	LAN MAC address	00131/9 BB0065	
Naturak				
WAN Status	Not Established	WAN Typa	DHCP Client	
WAN IP Address WAN Subnet Mask	None	LAN IP Address LAN Subnet Mask	10.59.1.1 255.255.255.0	
Default Gateway	None	DNS		
Wireless				
Wireless Service	OK	ESSID	Whitess	
Wireless Channel	6	Secura Made	Disable	
Frailie				
WAN	TxData:4445 RxData:0 Tx	Error:0 RdError:0		
LAN	TxBatac676421 RxDatac18	TxBatas676421 RxDatas161620 TxEmoreD RxError:D		
Windows	Talketoni Rabateni Talire	end Rafarer:0		

Figure 3-4 System Quick View



# 3-1-3 Internet Connection Settings

Select the appropriate Internet connection type to connect to your ISP. The HS960 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.

Internet Connection	
Please choose one from the following selections	
DHCP Client	<b>~</b>
Your ISP will configure IP settings for you	
	Next>
	NGAL /

Figure 3-5 Internet Connection Setting Screen



# Static IP Setting

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

Internet Connection		
Please choose one from the followin Static IP Setting You have static IP information fr	~	
IP Address:	0.0.0.0	
Subnet Mask:	0.0.0.0	
Gateway IP address:	0.0.0	
Primary DNS Server:		
Secondary DNS Server:		
		Next>

Figure 3-6 Internet Connection Setting Screen—Static IP Setting

ltem	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).	



### PPPoE (Point-to-Point Protocol over Ethernet)

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

Please choose one from the following	selections		
PPPoE (Mostly for ADSL modern us	ers) 💌		
Your ISP requires you to imput use	manie / password		
Usemame:			
Password:			
PPP MTU Setting.	1492		
TCP MSS Setting	1452		
Service Name:			
Connect on Demand	Max Idle Time:	10	Min
O Keep alive	Redial Period	30	Sec

Figure 3-7 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 HS960 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 HS960 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 Pe	riod	
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 sele		
PPTP (Mostly for Europe ADSL modem u		
Your ISP requires you to input usernam	ne / password / PPTP set	ting
My IP Address:		
My Subnet Mask:		
Gateway IP address:		]
PPTP Server IP Address:		]
Username:		]
Password:		]
PPP MTU Setting:	1460	]
TCP MSS Setting:	1400	]
Connection ID/Name:		
Connect on Demand	Max Idle Time: 10	Min.
🔘 Keep alive	Redial Period: 30	Sec.
		Next >

Figure 3-8 Internet Connection Setting Screen—PPTP Client Setting



Item	Default	Description
My IP Address	Empty	Enter the PPTP local IP address provided by your ISP.
My Subnet Mask	Empty	Enter the PPTP local Subnet Mask IP address for the IP address (My IP Address).
Gateway IP Address	Empty	Enter the PPTP server Gateway IP address provided by your ISP.
PPTP Server IP Address	Empty	Enter the PPTP server IP address provided by your ISP.
Username	Empty	Enter the user name provided by your ISP. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter the user password provided by your ISP. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1460	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1400	MSS (Maximum Segment Size) specifies maximum segment size.
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	d Max Idle Time	
Connect on Demand	Enable	You can configure your HS960 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 HS960 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 P	eriod	
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	



# 3-1-4 Wireless Setting

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

WIRELESS	Wireless S	ettings		
E-MAIL	ESSID:	Wireless (Case Servitive)		
AUTHENTICATION	Channet	6 💌 (Leave default if you don't know what to choose)		
BILLING				
PRINTER				
ACCOUNTING	< Back		Next>	
SYSTEM			— I	

Figure 3-9 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.



# 3-1-5 E-mail Server Setting

The HS960 allows the entry of an extra Email server parameter to forward the subscriber's E-mail.

<i>NetGomm</i> °	WIZARD SETUP ADVANCED SETUP	STRTEM STATUS	SYSTEM TO
INTERNET     WIRELESS     EMAIL     AUTHENTICATION     BILLING     PRINTER     ACCOUNTING     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 frewail		
	Please enter E-mail (SMTP) server's IP atdress or Domain name SMTP Port: 25 (B30k) Next>		

Figure 3-10 E-mail Service Setting Screen

Item	Default	Description
Email Server Redirect	No	Disables or enables email server redirect function. The HS960 provides an extra Email server parameter to forward the subscriber's Email.
Email Server's IP address or Domain name	Empty	Before setting this field, please make sure the E-mail sever relay function is open. 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.



# 3-1-6 Authentication Service Settings

I INTERNET	Authentication Service	
2 WIRELESS 3 E-MAIL 4 ANTHENTICATION	Do you need to authenticate users ?	
5 ERLING 6 PRINTER 7 Accounting 8 System	Yes, The users need to be authenticated before accessing the Internet No, The users can access the Internet without authentication  Kext>	

Figure 3-11 Authentication Service Setting Screen

Item	Default	Description
Built-in Authentication/ No Authentication	No No Authentication	Yes The HS960 has inbuilt authentification software. If Yes is selected, accounts are generated on demand by the HS960, and the system will authenticate the subscriber login according to the generated account.
		No Subscriber can directly access the Internet without entering a username and password.



# 3-1-7 Billing Profile Settings

This function is used to setup the billing profiles. The billing profiles are linked to the three buttons on the printer and allocate how you want to charge the customer.

Billin	g Profile			
	What is your	r service and price pla	n?	
ATCH ®	Once subscriber login, the even the subscriber stap to	as Internationly one time with e pre-defined usage time will to access the internet before	start until run out	
		is littemet several times with cumulate every single usage 4.		
Ser	The subscriber can acces system can keep and acc defined usage time run of vice and Price Plan	cumulate every single usage		
Ser	The subscriber can access system can keep and acc defined usage time run of vice and Price Plan	cumulate every single usage 4.		
Sar	The subscriber ran access system can keep and an defined usage time run or vice and Price Plan ency: 5 (Num	cumulate every single usage 4. ber of decimals places: 2	ine unli the pre-	
Ser Cur No.	The subscriber can access system can keep and acc defined unege time run or vice and Price Plan ency: \$ (Num Name (ros. 120m)	ber of decimals places: 2	ine util the pre-	

Figure 3-12 Billing Profile Setting Screen

Item	Default	Description
Service	Time to Finish	Time to Finish
		The subscriber can access Internet only once with one account. Once subscriber has logged in, the pre-defined usage time will start and will run until the time runs out, even if the subscriber logs out and is not active, once activated the time expires after the physical time elapses.
		Accumulation
		The subscriber can access the Internet multiple times and on multiple occasions with the one account. The system will accumulate every individual usage times, until the pre-defined usage time runs out.
Currency	\$	Enter the appropriate currency unit or currency symbol.
Number of decimal places	2	Enter the billing decimal value. The field maximum value is 3.
Name	30 minutes/1 hour/ 2 hours	This 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 charge amount for the Internet service. The amount maximum value is 999999.



# 3-1-8 Account Generator Printer Setting

There are two different choices to set up the printer. The first is an exclusive printer (Account Generator Printer), and the other is non-exclusive printer. The exclusive printer is a portable thermal printer that is integrated with HS960. This allows the pressing of one button to generate accounts and receipt immediately without needing an operating PC. A non-exclusive printer can use the PC Web-based browser to print out user accounts.

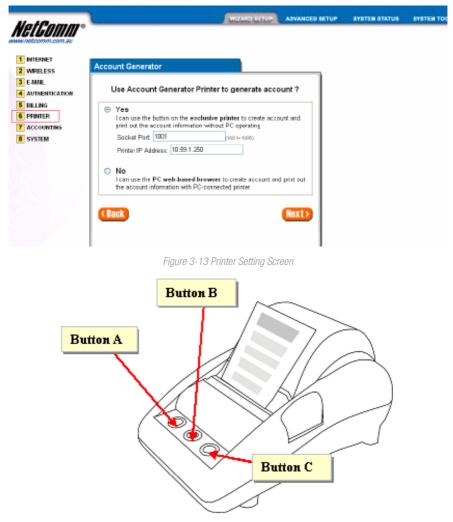


Figure 3-14 Account Generator Printer



### 3-1-9 Accounting Setting

**Three-buttons Printer Setting** 

Account (	Senerator		
Three-but	tons Printer Setti	19	
	Button	Billing Profile	
	Button A	(01) 30 minutes, 30 minutes, \$1.00 💌	
Setting	Button B	(02) 1 hours, 1 hours, \$2.00 💌	
	Button C	(03) 2 hours, 2 hours, \$3.00	
Printout	Number of co	pies to print : 1 M	
Iwanti		based accounting now if exclusive printer carmot work	
CBack		Nexto	

Figure 3-15 Accounting Setting Screen (Three Buttons Printer)

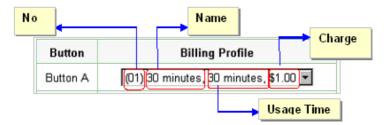


Figure 3-16 Billing Profile Setting Screen

Item	Default	Description
Button A~ C	01	Defines 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 multiple copies of the receipts. This value is number of copies you would like to set as the default.
Customize Printer Text	This function allo	ws you to produce customised text on the receipt based on your requirements.



Web-based Account Generator Setting

A	ccount Gen	erator							
	Web-based	Account Generator Setting				Preview / Operate			
		Button		Bill	ing	Profile			
	Setting	Button A	(01)	(01) 30 minutes, 30 minutes, \$1.00 💌					
		Button B	3 (02) 1 hour, 1 hours, \$2.00						
		Button C	(03)	2 hours, 2	hou	rs, \$3.00 💌			
	Printout	Number of copies to print : 1							
	Please set you	our password for web-based account generator							
	Username	account							
	Password	****** Confirm:							
	< Back	Next>							

Figure 3-17 Web-based Account Generator Setting Screen

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.



P	lease c	hoose on	e button from	the followin	g selections
C	30 minu		1 hour		2 hours
6	su mini	utes	1 hour		Z hours

Figure 3-18 Account Generator Panel

Click on button to create a new account.

Welcomel					
Hots	pot Internet Service				
User	name:52n9rm36				
Pass	word:adedc933				
Billin	g: Time to Finish				
Serv	ice: 30 minutes				
Unit	1				
Usag	ge Time: 0:30:00				
Tota	\$1.00				
ESS	ID: Wireless				
WEF	2				
	2002/3/3 21:14:36 S/N 000001				
	Please start your account before				
	2002/3/4 09:14:36				
	Thank you very much I				
	Close Print				

Figure 3-19 Example-Account Printout

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

							jahost Q
523	5440	Orinkur	Usige Time	Tine Gened	Ligin Timë	Etpirition Taxe	Delete
000007	Un-used	2260952	0.30.00	2002/93 21:21:51		2002/3/4 09:21:51	
1009	Issue	j4+9yt28	2.00:00	2002/901 21:22:28	2002/3/3 21:23:56	2002/3/5 23:23:58	

Figure 3-20 Account List

Note: This page will refresh automatically every 5 minutes.



#### **Customise Printout Text**

This function allows you to produce custom receipts.

#### CUSTOMIZATION

Logo	* Only for DC.	connected printer				
		Welcowel (March 200				
Title:		Revenue de contractione				
Subtitle:						
Usemame:	Uptraient	(344+==2=4)				
Password:	Plazword		044-+240			
F Billing Method		Time To Finish [Billing Time to Paulah (Marc-24) Accumulation [Billing Accumulation (Marc-24)				
P Billing Profile:	Service		(Max.+24)			
Purchase Unit	Usix	Unit. (Mar24)				
Usage Time:	Usage Time		(Mp1=224)			
P Price:	Toul	(Mar24)				
Tax	Tia	(Mas24) TOTAL Grand Too	dianeth			
F ESSD	ESD		(Max = 54)			
	WPA WPA					
Wireless Security	WEP WEP		(Max.+24) (Max.+24)			
C Addtional Label 1		(Max >2-6 Value:	(Mar.+24)			
C Additional Label 2						
C Additional Label 2:		ofac=24) Value:	(M4x,#24) (12h HAM/FM)			
R Expiration Time:	Description:	handid . Hlimmas . Out 240 h) Please finish your	fan:+24-0) h, 126 (9.848995f) (Man:≪24+f)			
P Ending	Thank you ve	rry auch I 🔳				

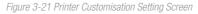






Figure 3-22 System Setting Screen

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 characters and is case sensitive.					
Confirm Empty		Enter the password of administrator for confirmation.				
System date & time         YYYY/MM/DD HH:MM:SS         Get from my Computer		Get from my Computer				
Secure Administrator IP Address	All	This function allows a remote user to management the device. You can specify one or any IP addresses for remote control of the system.				



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



The Advanced Settings enable you to configure the advanced settings related to accessing the Internet, including,

WIZARD SETUP

ADVANCED SETUP

SYSTEM STATUS

SYSTEM TOOLS

- 1. System
- 2. WAN/LAN
- 3. Server
- 4. Authentication
- 5. RADIUS
- 6. Billing
- 7. Accounting
- 8. Credit Card
- 9. Keypad
- 10. Customization
- 11. Pass Through
- 12. Filtering
- 13. Share
- 14. Portal Page
- 15. Advertisement
- 16. Walled Garden
- 17. DDNS
- 18. LAN Devices
- 19. Syslog
- 20. Session Trace
- 21. Bandwidth
- 22. Secure Remote
- 23. SNMP
- 24. Wireless
- 25. Account Generator

- SYSTEM
- 🕨 WAN / LAN
- SERVER
- AUTHENTICATION
- RADIUS
- BILLING
- CREDIT CARD
- KEYPAD
- CUSTOMIZATION
- PASS THROUGH
- FILTERING
- SHARE
- PORTAL PAGE
- ADVERTISEMENT
- WALLED GARDEN
- DDNS
- LAN DEVICES
- SYSLOG
- SESSION TRACE
- BANDWIDTH
- SECURE REMOTE
- SNMP
- WIRELESS
- ACCOUNT GENERATOR



# 3-2-1 System

Define the HS960 System configuration.

SYSTEM			
System/Host Hame			
Domain Name			
	Lacation Name:	(9.80-50)	
	Address	(Mars-220)	
	City:	(Mac=80)	
	State / Province:	(Max.e80)	
	Zip / Portal Code:	(Mak = 10)	
Location Information	Country:	(Mac=50)	
	Contact Name:	(142-52)	
	Contact Talephone:	(9.81980)	
	Contact FAX:	(Har-HD)	
	Contact Email:	(Har-40)	
	Date: 2005 v / 2 v / 1 v (reaction of and		
Date/Time	Name		
	Time Zone	GMT-12:00 X	
	Update Time	0 Bours	
	🗖 Daylight Saving Time	Start Date: 4 Month / 1 = Day End Date: 10 = Month / 51 = Day	

Figure 3-23 System Setting Screen

NAT (Network Address Translation)	Enable     P Plug and Play     Disable
User Semion Limited	Enable 30 (1-1024) O Disable
Loyes 2 holation Security	Enable      Disable
Secure administrator IP addresses	Any     Say city     1     1     2     1     4     5     5     7
Multicast Pass Through	O Enable
Allow remote user to ping the device	🐵 Enable 🔘 Disable
SSL Certificate	Default     O     Custamer Certificate

Figure 3-24 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.
Item	Default	Description
NAT (Network Address Tr	anslation)	
NAT	Enable	Enables or disables NAT Address Translation function.
User Session Limited	Enable,30	Enables or disables user session limit function. This feature provides you with an ability to control a number of sessions allowed for particulars user(s) at the one time.
IP Plug and Play (iPnP Technology)	Enable	Enables or disables plug & play function. When enabled, the user needn't change their network configuration to access the Internet.
Layer 2 Isolation Security	Enable	If enable plug and play is selected, you can enable Layer 2 Isolation Security function. When the "Layer 2 Isolation Security" enabled, your users will be unable to see each other on the network.
Secure administrator IP Addresses	Any	Administrator can specify 5 IP addresses or a range to allow remote control access from network.
Multicast Pass Through	Disable	This function allows for multiple transmissions to specific recipients at same time.
Allow remote user to ping the device	Enable	This function allows remote user to ping the HS960 through Internet.
SSL Certificate	Default	Option: default or customise certificate. There are two ways to create a certificate. The first is to purchase a certificate from a certificate authority and another is creating a self-certificate.

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

# RESTART



Figure 3-25 Restart Dialog Box



# 3-2-2 WAN/LAN WAN / LAN

LAN	The Device IP Address and Subnet mask settings IP Address: Subnet Mask: 255.255.0
WAN MAC Address	<ul> <li>C Default</li> <li>C Change to: 00 : 100 : 00 : 00 : 00 : 00</li> </ul>
WAN Port Mode	DHCP Client (Mostly for Cable modern uses of Local Area Network)     Static IP (Mostly for advanced Local Area Network equivorment)     C PPPOE (Mostly for ADSL modern uses)     C PPTP (Mostly for Europe ADSL modern uses)
	Apply

Figure 3-26 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 ?		
Apply		

Figure 3-27 Restart Dialog Box



Device IP (LAN IP) Setting

# WAN/LAN

	The Device IP Address and Subnet mask settings	
LAN	IP Address:	10.59.1.1
	Subnet Mask:	255.0.0.0

Figure 3-28 Device IP (LAN IP) Setting

Item	Default	Description
IP Address	10.59.1.1	This identifies the internal LAN IP address of your HS960.
Subnet Mask	255.0.0.0	Enter the subnet mask for the IP address.

# WAN MAC Address

WAN MAC Address <ul> <li>Default</li> <li>Change to:</li> <li>Change to:</li> <li>Change to:</li> <li>Change to:</li> </ul>
---

Figure 3-29 WAN MAC Address Setting

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



#### WAN Port Mode

	C DHCP Client (Mody for Cable madem users or Local Area Network)
WOLLDard Marke	G Static IP (Mostly for advanced Local Asia Network environment)
WAN Port Mode	CI PPPoE ( Missly for ADSL modern users )
C PPTP (Mostly for Europe ADSL modem users)	C PPTP (Mostly for Europe ADSL modern users)

Figure 3-30 WAN Port Mode Setting

### **DHCP** Client

The HS960 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 modern users or Local Area Network )

Figure 3-31 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:	0.0.0.0
Subnet Mask:	0.0.0.0
Gateway IP address:	0.0.0.0
Primary DNS Server:	
Secondary DNS Server:	

Figure 3-32 Static IP Setting Screen

ltem	Description	
IP Address	Enter the IP address for the xDSL/Cable connection (provided by your ISP).	
Subnet Mask	Inter the subnet mask for the IP address.	
Gateway IP Gateway	Enter the Gateway IP address for the xDSL/Cable connection (provided by your ISP).	
Primary DNS Server	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 is not available, the Secondary DNS Server IP will then be used.	



PPPoE

• PPPoE ( Mostly for ADSL modern users )

Your ISP requires you to inpu	t username / password	
Username:		
Password:		
PPP MTU Setting:	1492	
TCP MSS Setting:	1452	
Service Name:		
Connect on Demand	Max Idle Time: 10	Min.
O Keep alive	Redial Period: 30	Sec.



Item	Default	Description		
User Name	Empty	Enter your PPPoE account name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.		
Password	Empty	Enter your PPPoE password. The password can consist of up to 80 alphanumeric characters and is case sensitive.		
PPP MTU Setting	1492	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.		
TCP MSS Setting	1452	MSS (Maximum Segment Size) specifies maximum segment size.		
Item	Default	Description		
Service Name	Empty	Enter the service name provided by your ISP. The service name can consist of up to 64 alphanumeric characters and is case sensitive.		
Connect on Demand and	l Max Idle Time			
Connect on Demand	Enable	You can configure your HS960 to cut your connection with your ISP after a		
Max Idle Time	10 Minutes	specified period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect on Demand enables your HS960 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.		
Keep alive and Redial Period				
Keep alive	Disable	This option keeps your PPPoE enabled Internet access connected indefinitely,		
Redial Period	30 Seconds	even when it sits idle. The Redial Period maximum value is 65535 seconds		



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PPTP ( Mostly for Europe ADSL modern as	we:)	
Your ISP requires you to input	username / persecord / PPTP setting	
My IP Address:		
My Subnet Mask:		
Gateway IP address:		
PPTP Server IP Address:		
Username:		
Password:		
PPP MTU Setting:	1460	
TCP MSS Setting:	1400	
Connection ID/Name:		
Connect on Demand	Max Idle Time: 10 Min	L.
○ Keep alive	Redial Period: 30 Sec	



Item	Default	Description	
My IP Address	Empty	A PPTP local IP address for the xDSL/Cable connection (provided by your ISP).	
My Subnet Mask	Empty	Enter the PPTP local IP address for the xDSL/Cable connection.	
Gateway IP Address	Empty	A PPTP local default gateway for the xDSL/Cable connection (provided by your ISP).	
PPTP Server IP Address	Empty	Enter the PPTP server IP address for the xDSL/Cable connection (provided by your ISP).	
Username	Empty	Enter your PPTP account name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.	
Item	Default	Description	
Password	Empty	Enter your PPTP password. The password can consist of up to 80 alphanumeric characters and is case sensitive.	
PPP MTU Setting	1460	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.	
TCP MSS Setting	1400	MSS (Maximum Segment Size) specifies maximum segment size.	
Connection ID/Name	Empty	Enter the connection ID or connection name. The connection ID/Name can consist of up to 81 alphanumeric characters and is case sensitive.	
Connect on Demand and	Max Idle Time		
Connect on Demand	Enable	You can configure your HS960 to cut your connection with your ISP after a specified	
Max Idle Time	10 Minutes	period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect on Demand enables your HS960 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.	
Keep alive and Redial Pe	eriod		
Keep alive	Disable	This option keeps your PPTP enabled Internet access connected indefinitely,	
Redial Period	30 Seconds	even when it sits idle. The Redial Period maximum value is 65535 seconds.	



# 3-2-3 Server SERVER

Web Server	ⓒ HTTP Port: <mark>80</mark> (60, 8010 - 8080) ⓒ HTTPS Port: <mark>443</mark> (443, 4430 - 4440) Administrator Idle-Timeout: 셜 Min(s)(1 - 1440)	)	
DHCP Server	C DHCP Disable DHCP Relay DHCP Server IP Address: C DHCP Server Pool Starting Address: Pool Size: Lease Time: Primary DNS Server. Secondary DNS Server:	10.59.1.2         253       (Max=253)         300       (Minutes)         168.95.1.1	
Email Server Redirect	IP Address or Domain Name:		
		Apply	

Figure 3-35 Server Setting Screen



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Item	Default Description			
Web Server				
HTTP Port	80	Enter the HTTP port number. The HTTP port allowed range is 80 or 8010 to 8060. For access HS960 system under NAT, please tab the "http://HTTP Port IP Address: Port Number".		
HTTPS Port	443	Enter the HTTPS port number. The HTTPS port allowed range is 443 or 4430 to 4440. For access the HS960 system, please tab the "https://HTTPS Port IP Address: Port Number".		
Administrator Idle- Timeout	5 Minutes	The idle time out validity range is 1-1440. If the idle time out is set as 5 minutes, it means if the administrator doesn't send a packet in 5 minutes, the administrator will logout automatically.		
DHCP Server	Enable	There are three types of DHCP Services.		
		DHCP Disable—Disable the DHCP server function.		
		DHCP Relay—Enable DHCP Relay function.		
		DHCP Server—Enable DHCP server function.		
DHCP Relay		To route DHCP through an external server, the administrator needs to enable the DHCP relay and assign a valid DHCP server IP address.		
DHCP Server IP Address	Empty	Enter the IP address of DHCP server.		
DHCP Server	The HS960 's DHCP server is turned on and running by default when you install it in your network.			
DHCP Pool Starting Address	10.59.1.2	0.59.1.2 Enter the DHCP Pool Starting IP address.		
Pool Size	253	The DHCP pool size range is 1 to 512.		
Lease Time	300 Minutes	The DHCP lease time. The DHCP lease time range is 1 to 71582788 minutes.		
Primary DNS Server	168.95.1.1	Enter the IP address of the network's primary DNS server.		
Secondary DNS Server	Empty	Enter the IP address of a second DNS server on the network.		
Email Server Redirect	mail Server Redirect         The HS960 provides an extra email server parameter to forward the subscriber's email HS960 not only forwards the subscribers' E-mail via other E-mail server but also cha SMTP header. The recipient of your E-mail sees the message as if you sent it from you Internet Service Provider.			
	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.		



# 3-2-4 Authentication

Authentication Type	<ul> <li>No Authentication</li> <li>Built-in Authentication</li> </ul>				
	User Agreement     C Redirect URL Link     Code     Standard User Agreement Page     WIFICOM(unity for RADIUS authentication)				
	Redirect Login Page URL:				
	_	NAS P			
	Behind NAT(in case the device is installed	SSL Port 443			
	Definit BAT)	Virtual SSL port 0			
	Wandering Wi-Fi(anly for RADIUS authentication)				
	Redirect Login Page URL:	Code			
		🗢 Default deny			
	Policy when Radius Server unreachable	C Allow access			
		C Deny access			
Current User Information Backup	1 Min(s)(1 - 1440)				
SSL Login Page	@ Dicable O Enable				
User Idle Time Out	5 Min(5)(5 - 1440) (Netfunction on *Time to Finish* billing modu)				
		Apply			

Figure 3-36 Authentication Setting Screen



Item	Default	Description
Authentication Type	No	Option: No Authentication, Built-in Authentication or User Agreement.
	Authentication	No Authentication
		Subscriber can directly access the Internet without entering a username and password.
		Built-in Authentication
		The HS960 provides "Built-in Authentication". This feature involves the HS960 generating the subscriber account and authenticating the subscriber login according to the generated account.
		User Agreement
		The end subscriber must accept the service usage agreement before they can access the Internet.
		WIFICOM
		The HS960 provides Authentication for WIFICOM. This feature allows the HS960 to be managed via an external RADIUS server.
		Wandering Wi-Fi
		The HS960 provides Authentication for Wandering Wi-Fi. This feature allows the HS960 to be managed via an external RADIUS server.
Current User Information Backup	1 Min(s)	The system provides automatic backup account information and unused account to flash ROM. This function allows administrators to adjust the backup time. The default value is 1 minute. The Current User Information Backup valid range is 1 to 1440.
Redirect Login Page URL	Empty	The input format can be http://www.yahoo.com. The maximum character of the URL Link is 200.

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

#### Redirect Page Sample Code

```
<html>
<body>
<center>
<1>
<form method="post" action="http://1.1.1.1/agree.cg/" name="agree">
<input type="submit" name="agree" value="Agree">
</ame
vid width="10%"> 
<form method="post" action="http://1.1.1.1/disagree.cgi" name="disagree">
<input type="submit" name="disagree" value="Do not agree">
</fam>
</1^{\circ}
</br>

</body>
</html>
```

Figure 3-37	Preview	Redirect	Login	Page	Code

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



# 3-2-5 RADIUS Authentication

#### RADIUS

a	Time to Finish						
	The subscriber of	an access latement only one time with one occount. Once subscriber logis, the pre-defined					
	erage time will d	tat unlit con not away the subscriber stop to access the loterest before his not.					
c	Accumulation						
						system can keep and accum	uiste
every single usage time until the pre-defined usage time un out							
				-			
		Server IP addres	55		15		
	nary RADIUS	Authentication F	Ped.	1812			
Sen	VIN	Accounting Part		1813			
		Shared Secret A	úŋ.	1			
		Sener IP addres	**				
Sec	undary RADIUS	Authentication F	Pat	1812	1		
Sen		Accounting Port		1813	1		
		Shared Secret A	ay				
Retr	rytimes when Prinsary fail 💷						
Retr	y Frequency	seconds(3-75	จ				
	of contrast to the second		e	Disable			
Aco	ounting Service		٠	Enable	-		
	athantication Method		Interim Update Time: 5 x1x00				
v Sn	art Client						
nabb	•						
	@ Drect						
Mo		Reply with "Redir Reply with Specif					

Figure 3-38 Authentication Setting Screen



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Item	Default	Description
RADIUS Authentication	Disable	Option: No Authentication or RADIUS Server.
		Disable (No Authentication)
		A subscriber can directly access the Internet without entering a username and password.
		Enable (RADIUS Authentication)
		The HS960 provides "RADIUS Authentication" to build up an Internet service with a RADIUS server. If RADIUS Authentication is enabled, all subscribers' authentication will send to the RADIUS Server by RADIUS protocol (RFC 2865, 2866).
Time to Finish/ Accumulation	Enable	Provides two different accounting calculatations for the Internet service.
Primary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number. The authentication port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number. The accounting port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	The key number also has to match with the Server setting. Up to 64 characters are allowed.
Secondary RADIUS Serve	er	
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	Enable	Enables or disables the accounting service.
Interim Update Time	5 Minutes	Specify the interim update time.
Authentication Method	CHAP	Enter the authentication method of RADIUS server.
WISPr Smart Client		
Enable	Disable	Enables or disables WISPr Smart Client roaming function.
Login Mode	Directly Reply	Options: Directly Reply, Proxy Reply with "Redirect Login Page" URL and Proxy Reply with Specific URL. The login mode information for the IPASS GIS connection. (Provided by your ISP).



# 3-2-6 Billing

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

<b>—</b>	Enable Credit (	access Internet with pro-defined using <b>and Sensise</b>		
8	Time to Finish			
	The subscriber	can access internet only one time w	th one account. Once subscriber log	in, the pre-defined usa
	time will start u	ntil run aut even the subscriber stop	to access the internet hefore run out.	
с				
		can access Internet several times wi ne until the pre-defined usage time r.	th ana account. The system can less in out.	p and accomulate ever
The keyp	subscribers cars pad which is cars	ected with exclusive printer. The print	rage time. This can be operated with tool will only show the upset amalpase	an optional external PS sword. An account can
	e terministed with Profile	the optional keypad.		
	ney: 5	(Number of fedimals places 2	_	
No.	ax Percentage: Active	B %	Account like ye Time	Charge
01	R	30 minutes	30 minutes •	1.00
_	R	1 hour	1 hours	2.00
02				5.00
02 02	R	2 hours	2 hours	0.00
02 00 04	R	2 hours	2 hours x	4.00
00				
00 04		3 hours	3 hours 💌	4.00
00 04 05	с с	3 hours	3 hours =	(4.00 (5.00
04 05 05		3 hours 10 hours	3 hours ¥ 5 hours ¥ 10 hours ¥	4.00 5.00 6.00
04 04 05 05 07		3 hours 5 hours 10 hours 1 day	Inours     M     M     M     M     M     M     M     M     M     M	4.00 6.00 6.00

Figure 3-39 Billing Setting Screen

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

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



Figure 3-40 Message Box



Item	Default	Description
Enable Credit Card Service	Disable	Enables or disables the credit card service. Before you enable the credit card service, you must ensure that your credit service is configured (an external provider is required) and the currency is Australian dollars.

(ey Https://	ed Passacet
(ey Https://	occure authorize neligatoway/transact dli schurt Name
(ey Https://	occure authorize neligatoway/transact dli schurt Name
https://	schart Name (nasto characteri) ename and Password
fernation	schart Name (nasto characteri) ename and Password
furnation 🗖 Usa	mame and Password
	ip Time
ttps.0	silvera da trivalle y .com/merchant/processoc. a sa
	(max. 7 characters)
https://	www.secsrepsy.com.au/securepsy/payments/pro-
laved on the India :	n årte
	n 🗆 🌃 🗆 🎧 (landa). 🗆 BarkCart
	layed on the login

Figure 3-41 Credit Service Setting Screen

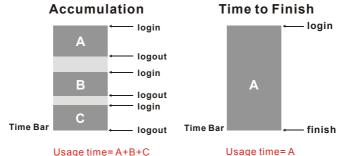
ltem	Default	Description
Service	Time to Finish	Time to Finish

The subscriber can access Internet only once time with one account. Once the subscriber has logged in, the pre-defined usage time will start and will run until the time runs out, even if the subscriber logs out and is not active, once activated the time expires after the physical time elapses.



## Accumulation

The subscriber can access the Internet multiple times and on multiple occasions with the one account. The system will accumulate every individual usage times, until the pre-defined usage time runs out.



#### Usage time=A+B+C

Figure 3-42 Accumulation and Time to Finish

Item	Default	Description	
Billing Profile			
Currency \$		Enter the appropriate currency unit or currency symbol.	
Number of decimal 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.	
	10%	Enter the tax rate (i.e. a 10% sales tax is entered as 10).	
Item	Default	Description	
No.	+1~+10	The index number of billing profile. In Advanced setup, we provide 10 billing profiles.	
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 3-43 Pre-paid Procedure Diagram



# 3-2-7 Accounting

This function allows the service provider to generate subscriber accounts.

## ACCOUNTING

epiration		ount will be deleted after 12				
			loggen in [2] (1-30)			
hintout	Number of co	pies to print : 1 💌				
Replenish	🗆 Can be	replenished by subscriber				
hree-Button Printer / Web-loased Account Generator Panel Preview / Open						
Button A (01) 30 m		nutes, 30 minutes, \$1.00 💌				
Button	B (02)1 hour, 1	hours, \$2.00 💌				
Button	C (03) 2 hours,	2 haurs, \$3.00 💌				
Print to_	Account Generator P	Printer 🔍 🗠 PC-Connected	Printer 🔍			
Ise Button	A 🔄 for Discount Pri	ice Plan based on "Button F	Presses": Disable 💌 Only valid for Theo-			
utten Frinder)						
Discount Price Plan based on "Button Presses" 🗟 Charge by levels						
Level	Conditions	Button Presses	Unit Price			
	Conditions when > =	Button Presses	Unit Price same as base charge			
Level		Button Presses 1				
Level 1	when > =	1				
Level 1 2	when > = when > =	1				
Level 1 2 3	when > = when > = when > =	1				
Level 1 2 3 4	when > = when > = when > = when > =	1				
Level 1 2 3 4 5	when > = when > = when > = when > = when > =	1 0 0 0				
Level 1 2 3 4 5 5	when > = when > = when > = when > = when > =	1 0 0 0 0				
Level 1 2 3 4 5 6 7	when > = when > = when > = when > = when > = when > =	1 0 0 0 0 0				
Level 1 2 3 4 5 5 5 7 8	when > = when > = when > = when > = when > = when > = when > =	1 0 0 0 0 0 0				

Figure 3-44 Accounting Setting Screen

Expiration	Un-used account will be deleted after 12 hours automatically. (1-30) Accumulation account will be deleted after logged in 3 months (1-30)
Printout	Number of copies to print : 1
Replenish	Can be replenished by subscriber

Figure 3-45 Account Expiration Setting Screen



Item	Default	Description		
Expiration				
Un-used account will be deleted after ~hours automatically	12 hours	Enter the number of hours/minutes/days. The field maximum value is 30 hours/minutes/days.		
Accumulation account will be deleted after logged in ~	3 months	Enter the number and select time unit from list box. The field maximum value is 30 month/ days/ hours.		
Printout				
Number of copies to print	1	The system allows you to print all your bills. Select one number of copies by clicking in the list box.		
Can be replenished by subscriber	Enable	Click the check box to enable the replenish function.		

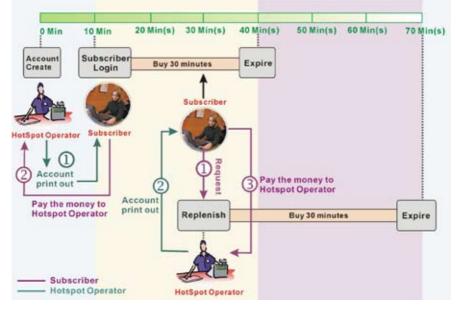


Figure 3-46 Account Process Diagram



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

Three. Button Pri	inter / 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 @ Ac	count Generator Printer 🔍 🔿 PC-Connected Printer 🔾	L
Use Button A 💌 Patton Páinteg	for Discount Price Plan based on "Button Presses":	Disable 💌 (an hy walid for Three-

Figure 3-47 Three-Button Printer/ Web-based Account Generator Panel Setting Screen

Item	Default	Description
Button A~C	-	Defines 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.
Use ~ for Discount Price Plan based on "Button Presses"	Button A, Disable	Select one button (A $\sim$ C) by clicking in the list box to assign the base charge and select enable to active the discount price plan.

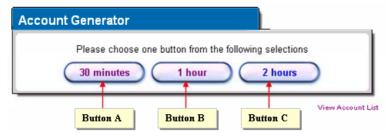


Figure 3-48 Account Generator Panel



Welconie.			
Hetspot Internet Service			
Usemarne:	3m5k9r25		
Password:	7uezza89		
Billing:	Time to Finish		
Service:	30 minutes		
Unit:	1		
Usage Time:	0.30:00		
Total	\$1.00		
ESSD:	Wireless		

Welcome!

S/N:000006

2004/11/26 16:57:25

Please activate your account before: 2004/11/27 03:57:25 Thank you very much ! Close Print

Figure 3-49 PC-connected Printer Printout (Time to Finish)

Expiration	Un-used account will be deleted after $\begin{bmatrix} 12 \\ \\ \end{bmatrix}$ hours automatically Accumulation account will be deleted after logged in $\begin{bmatrix} 3 \\ \\ \\ \end{bmatrix}$ [months]
Printout	Number of copies to print :
Replanish	Can be replenished by subscriber

	Welcomel
Hotspot In	ternet Service
Usemame	30000000
Password	300000000
Billing: Ac	cumulation
Service: 3	0 minutes
Unit 1	
Usage Tin	ne: 0:30:00
Total \$1.0	0
ESSID: W	fireless
Wireless:	Disable
	2004/7/15 09:27:50
Die	S/N:000001
Pie	ase start your account before 2004/7/15 21:27:50
Please fin	ish your usage time within 3 months after your first login
	Thank you very much I

Figure 3-50 Web-based Account Generator Printout (Accumulation)



#### Multiple Button entries.

The device allows for the buttons on the printer to be pressed multiple times to increase the time purchased. Should button B be pressed multiple times it will multiply the time purchased by the pricing structure in button B.

Buttoe A	(01) 30 minutes, 30 minutes, \$1.00 💌
Buttoe B	(12) 1 hous 1 hours. \$2:00
Button C	(13) 2 hours, 2 hours, \$3.00
	court Convextor Painter Q. C PC Converted Printer Q. for Discourt Price Plan based on "Sutton Pressen", Dimble 💌 Jerty widdw Th

Figure 3-51 Example 1

Button B is pressed seven times: 7 x \$2.00= \$14.00

Weld	come!
Hotspot Inte	ernet Service
Username:	27i28n32
Password:	5a789i35
Billing: Time	e to Finish
Service: 1 h	our
Unit: 7	
Usage Time	e: 07:00:00
Total: \$14.0	00
ESSID: Wir	مامده
LOOID. MI	01032
2004/11/2	9 10:34:58
S/N:0	000011
Please ad	tivate your
accour	nt before
2004/11/2	9 22:34:58
Thank you	very much!

Figure 3-52Account Printout



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

 This feature allows you to discount the time based on multiple button presses, or to offer increased time for selected customers.

ree. Butt	ton Printer / Web-ba	sed Account Generator Pan	el Preview / Operate	
Button A (01) 30 minutes, 30 minutes, \$1.00				
Buttor	n B (02) 1 hour	, 1 hours, \$2.00 🔹		
Buttor	n C (03) 2 hour	s, 2 hours , \$3.00 💌		
rint to	∉ Account Generato	r Printer 🔍 🗠 PC-Connects	ed Printer 🔍	
se Button this Printed	18 🔳 for Discount P	Price Plan based on "Button	Presses": Enable 💌 (only valid for Three-	
an Firei				
iscount Pr	rice Plan based on '	"Button Presses" 🗖 Chan	je by lovel s	
Level	Conditions	Button Presses	Unit Price	
1	when > =	1	same as base charge	
2	when > =	3	1.5	
з	when > =	7	1	
4	when > =	0		
5	when > =	0		
6	when > =	0		
7	when > =	0		
8	when > =	D		
	when > =	0		
9	wither to a		-	

Figure 3-53 Example 2

Button B is pressed 7 times, however setting will allow 7 amounts of time for a different amount of pricing than the standard button base price. : Amount:  $7 \times 1 = 7.00$ 

Below is an example of the account printout.



Figure 3-54 Account Printout



## Discount Price Plan based on "Button Presses" and Charge by level is enabled.

This allows for button combinations to be pressed to add different units of time together to get one
account and receipt for the subscriber.

nree. Butto	on Printer / Web-bas	ed Account Generator Pane	Preview / Operate
Button	A (01) 30 min	utes, 30 minutes, \$1.00 💌	
Button	B (02) 1 hour,	1 hours, \$2.00 🔹	
Button	C (03) 2 hours	s, 2 hours , \$3.00 💌	
		Printer 🔍 C PC-Connecte rice Plan based on "Button	ed Printer 🔍 Presses": En áble 💌 (on ly valid for Three-
iscount P	rice 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 3-55 Example 3

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



Figure 3-56 Account Printout



# Discount Price Plan based on "Button Presses"

level	Conditions	Bullon Presses	Unit Price
1	when > =	1	same as base charge
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	

Figure 3-57 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.



# 3-2-8 Credit Card

The HS960 provides three credit card services (Authorize.net, iValidate.net and Secure Pay) that allow service provider to authorise, process, and manage credit transactions directly from Internet. Secure Pay is the Australia Credit Card Gateway, see www.securepay.com.au for details.

Antheniceunet				
Vargine	3.1			
Merchant El				
Marchard Password	Noted Papaword			
Merchant Transaction Key				
Payment Baleway	stpe if accre autorice nd/gatewayAransact dl			
C Eval Additional Information	Westark Name Upamawa and Pasewood Upamawa and Pasewood Upamawa and Pasewood Upamawa Tense			
Walldate.avt				
Werchare ()				
Terminal ID				
Secure Server Address	htps://			
Secure Pay				
Werchard El	(max. 7 shiractors)			
BecurePay Address	https://www.socuropay.com.su/securepsy/psyments/proc			

Figure 3-58 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 will received from your Merchant Provider (Secure Pay), the maximum characters for the Merchant ID is 50.		
Merchant Password	This is a Merchant password that you will received from your Merchant Provider.			
Secure Pay				
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 7.		
SecurePay Address	https://www. securepay.com. au/securepay/ payments/ process2.asp	Enter the address of SecurePay Payment Gateway.		
Credit Card icons to be displayed on the login page	VISA	Click on check box to display credit card icon on the login page.		



Please follow steps below to pay using credit card.

1 Choose Credit Card service on the login page.

Welcome
Hot Spot Internet Service
 Username:
Enter Cancel Select Credit Card Service
or Click here to pay by credit card
VISA Click

Figure 3-59 Login Page

2 Select Service and enter payment information.

		Web	come				
	Hot Spot Internet Currency - Australian Dollars						
Please cl	lease choose from the following service selection						
	Service Code	Service Name	Usage Time	$\square$	Charge		
e	1	3D minutes	30 minutes		1.00		
0	2	1 hour	1 hours		2.00		
с	3	2 hours	2 hours	)	3.00		
			based on continuous usag				
Enter F	Payment Inform	nation (all info is re	auireð og store som set				
Enter F			quired) or more required;				
Enter F	0	edit card number:					
Enter F	Cr Credit car	edit card number: dexpiration date:	(MMYY)				
Enter F	Cr Credit car	edit card number:					
Enter F	Cr Credit car	edit card number: dexpiration date:					
Enter F	Cr Credit car	edit card number: d expiration date: nter Email Address					
Enter F	Cr Credit car	edit card number: d expiration date: tter Email Address First Name:					
Enter F	Cr Credit car	edit card number:   d expiration date:   ter Email Address   First Name:   Last Name:					
Enter F	Cr Credit car	edit card number: d expiration date: ter Email Address First Name: Last Name: Address:					
Enter F	Cr Credit car	edit card number: d expiration date: ter Email Address First Name: Last Name: Address: City:					
Enter F	Cr Credit car	edit card number: d expiration date: ter Email Address First Name: Last Name: Address: City: State/Province:					

Figure 3-60 Service & Payment Information Setting Screen (Securepay)



3 After valid payment information has been provided, the subscriber will obtain one valid account to login or the Figure 3-61 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 3-61 User Account Information



3-2-9 Customization

## Login Page

The HS960 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 Printost	Credit Card	User Agreement Page
Please choose from	the following login	page types			
Standard	Please enter	the customizable ma	ssage on the standard	login page	
	🗖 Lago				
	Title	W.	alcome	04	nc. 90 ohura de n)
	Subtitle	Ho	t Spot Internet Service	04	ec. 50 characters)
	Usemame	Us	amama	04	nc. 20 oh ara de n)
	Password	Pa	ssword	04	ec. 20 characters)
	Enter Button	En	ter	()A	no. 201 of analogie (c)
	Cancel Butto	in Ca	ncel	04	er, 20 ohara eta n)
	E Footnote	Pla	aase contact us if you h	ave any questio <sub>ort</sub>	ns. 240 sharasiwa)
	🗷 Capyright	L C0	pyright (c) 2004-2015 Al	Il Rights Reserv	in, 80 characelus)
	Background	Color	FFFF View Color	Grid	
				🖹 Standard	Login Page Preview

Figure 3-62 Standard Login Page Customization Setting Screen



Item	Default	Description
Logo	Disable	Select the check box to display service provider's logo.
Title	Welcome	Enter the title name of subscriber login page. The maximum allowed characters length is 80.
Subtitle	Hot Spot Internet Service	Enter the subtitle name of subscriber login page. The maximum allowed characters length is 80.
Footnote	Disable	Allow the administrator to input the footnote such like "Pleas Contact to our Customer Service Center, EXT 141". The maximum character of the footnote is 240.
Item	Default	Description
Copyright	Enable	The copyright is allowed the administrator to input a paragraph in the subscriber login page for copyright information. The maximum character of the copyright is 80.
Background Color	FFFFFF	The background text color can be specified color. For the specified text color format please views the color grid. The allowed format is Hexadecimal.



Figure 3-63 Login Page Screen



Redirect

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

Redirect	Redirect Login Page URL:	Code

Figure 3-64 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
<hr/>
<pre>dblaatar="center"&gt;</pre>
Altro
-td atgr="center" with="100%" bgColor="#0"Ed7" colEpare"2"> <fort size="2">d&gt;&gt;Welcome</fort>
de
<pre>ctrd algr="right"width="35%" bgCalor="#assass"&gt;</pre>
<nd></nd>
<irput name="usemame" size="25" type="text"> <htps: dx.org="" size="25"></htps:></irput>
<hr/> sh>
<font_calo="#000060" size="2"><bpassword:< b=""></bpassword:<></font_calo="#000060">
<hd><hd><hd><hd><hd><hd><hd><hd><hd><hd></hd></hd></hd></hd></hd></hd></hd></hd></hd></hd>
<input name="password" size="25" type="password"/> >/td>
-td align="center" with="100%" cologan="2"> <input name="apply" style="font-family: Arial" type="submit" value="Enter"/> <input name="apply" style="font-family: Arial" type="cent" value="Enter"/> <input (class"="" )<="" cologan="" name="cent" p="" type="cent"/>
singui ppe- reset neme- cear value- cear signe- ministring, and 2 Shtb
<ul> <li>Andelse&gt;</li> <li>Andelse&gt;</li> </ul>
<pre></pre>
<t< td=""></t<>
Close

Figure 3-65 Redirect Login Page Code Screen



#### Advanced

This function allows the user to design the login page of the HS960.

Advanced	Welcome Slogen Page Background	© None © Background Color FFFFFF View Color Grid
	Anticla	X
	Article Text Color	000000 View Color Grid
	Article Background Color	None     C FFFFFF     View Calor Brid
	Information	
	Comments	

Figure 3-66 Advanced Login Page Setting Screen

ltem	Default	Description
Welcome Slogan	Welcome	The maximum character allowance 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 allows the administrator to input a paragraph in the subscriber login page for advisements or announcements. The maximum character allowance is 1024.
Article Text Color	000000	The article text color can be a 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 a specified color. For the background color format please views the color grid. The allowed format is Hexadecimal.
Information	Empty	Allows the administrator to input text information such as address, telephone number and fax information. The maximum character allowance is 80.
Comments	Empty	Allows the administrator to input the text comments such as "Please contact our Customer Service Center, EXT 141". The maximum character allowance is 80.

Browser Set Ba	ickground Cold	are by RGB

	0.000	000066	000099	0000CC	0000FF
003300	008333	003368	008399	003900	0033FF
006600	006683	005858	0066890	0068CC	0056FF
009900	009983	009966	666600	D099CC	0099FF
000000	000033	0000086	000099	000000	DOCCEF.
COFF00	00FF33	COFF06	ODEE00	DOFFCC	DOFFFF
	120033	330055	330089	3300CC	3300FF
333300	333333	333356	333399	393900	3333FF
336600	336633	335656	336599	3366CC	3356FF
399900	339983	339966	359999	3399CC	3399FF
330000	350035	\$3CC66	350099	390000	33CCFF
33FF00	33FF33	33FF66	33FF99	33FFCC	33FFFF
660000	950033	660006	660099	6600CC	5600FF
663300	003333	663366	663399	6633CC	6633FF
008088	656633	666666	655599	5556CC	5656FF
0.06636	668983	009900	666600	5599CC	5039FF
6600008	650033	660066	660099	660C0C	68CCFF
66FF00	66FF53	66FF66	66FF99	66FFCC	66FFFF

Figure 3-67 Color Gird



# Frame

If "Frame" is selected the subscriber login page will be separated into a Top Frame and a Bottom Frame. The Bottom Frame is a default format for username and password input, the Top Frame can be a specified URL to link.

	www	.caesarpark.com
@ Frame	Tap Frame	Upl. Perception
	Bottane Finane	This frame will share the classical login page

Figure 3-68 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 3-69 Example-Login Page Screen



# Logo

This function allows for the uploading of a logo image file which can be shown on the standard login page and account printout of PC-connected printer.

#### CUSTOMIZATION

Login Page	Logo	Information Window	Account Printout	Credit Card	User Agreement Page	
This function allows to upload the customer's logo image file which can be shown on the standard login page and account printout of PC-connected printer.						
File Path: Browse, Apply						
5	Maximum file size is 60 khytes and recommended dimension is about 200x50 pixels					
,	ia lago file.					

Figure 3-70 Logo Setting Screen



CONTRACTION.

#### Information Window

This function allows for "Information Window" pop-ups on a subscribers PC once they have been connected to the HS960. These pop ups include counting down remaining time and also request replenishment once time has expired.

Login Page	Logo	Information Window	Account Printout	Credit Card	User Agreement Page		
			ubscribers with their bro sen this window again.	wseronce atter su	bscriber login		
🗹 Display Informat	tion Window one	e after a subscriber	logs in successfully				
Information Window Type		C Redire	C Redirect				
		⊕ Popu					
Information Windo	w Contents						
Window Name		Informatio	Information Window (Max. 20 character)				
Main message		You can	use internet now!	(Mas. 20 characte	0		
Message Description		This is an	This is an information window to sho (Marc 100 sharedar)				
Time count label		Standard Remainin Post-Paid	× ×	19 (Slast 20 sharasis	10		
			Connecting Usage (Max. 30 character)				
Warning/Alarm n	nessage	if you dan	d went to continue using	g In <sub>(Mars</sub> 160 shalas	te 0		
Notice Message		Notice Te Notice Natice Te		(Mar. 160 iihatao	tz 0		
		lf you are Notice Tex	going to use VPN conn et 3	ect (Mars 150 sharars			
					Preview		
					Apply		

Figure 3-71 Example-Login Page Screen

	HIGHINGTON MANNAAA	Vindow Name	
	You can use Internet now! - firmatios window to show the scape and notice 1. Vieto to span this window again without VPN		essage Description
	Remaining Usage htmm:ss		ount Label
Rypa dan'twant	to continue using internet, please remember to "Logoof buttern	ingout Just dick the	Warning/Alarm Message
Hyou are going t	Notice! use VPN convection now, please slose the mer you run VPN convection.	mage window before	Notice Message
Replenish		Logout	í

Figure 3-72 Example-Login Page Screen





Figure 3-73 Information Window

Billing Type=Time to Finish



Figure 3-74 Information Window

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



Figure 3-75 Logout Successfully Dialog Box

Billing Type=Accumulation



Figure 3-76 Alarm Dialog Box1



# Account Printout

This function allows a service provider to specify the text on the account printout.

#### CUSTOMIZATION

Login Page Le	go Information Window	Account Printout	Credit Card	User Agreemen Page	
E Logo	* Only for PC-connects				
Tale:	Welcomel	Weicomel			
Subtitle:	Hotspot Internet Service	Hotspot Internet Service			
Usemame	Usemame	Usename			
Password.	Password		(Mac-	(Mac=34)	
P Billing Method		Time To Finish Billing: Time to Finish Accumulation Billing: Accumulation			
R Billing Profile:	Service:		(Mar.+)	24)	
P Purchase Unit:	Unit.		(M.g., *)	24)	
Usage Time:	Usage Time:		(Max.=	20	
Price	Total	(Max.+24)			
Tax:	Tax	(Mar. stat) TOTAL Grand	Total 04	4<=24)	
F ESSID	ESSID:		(Mail)		
Wireless Security	WPA WPA WEP WEP		(Max.+24)		
C Additional Label 1		(Max=24) Value	(M.as	+24)	
C Additional Label 2:		(Mailed) Value	Mar	424)	
Print out Time	Format: yyyy/mm/dd . Httmm:ss . oocolaa aa.colaa aa.colaa				
P Expiration Time:	Description Format: yyyy/mm/dd Pleas- yxago	HHtmmss x on e finish your time within 3 a after your first	(Max=2462) 1245 55 (25.8348875 2 1 104an=2664)	ō.	
₽ Ending	Thank you very and	<b>8.1</b> <u>−</u> <u>₹</u> (Mau=24c10)			
0					
C Preview of PC-connected					
C Preview of account gener				Carrie	
Preview of Post-Paid Prin	tout			Apply	

Figure 3-77 Account Printout Customisation Setting Screen



Welcome!				
Hotspot Internet Service				
Usemame:	300000000			
Password	300000000			
Biling	Time to Finish			
Service: 30 minutes				
Unit	1			
Usage Time:	0:30:00			
Total \$1.00				
ESSID:	Wireless			

S/N:000001

2004/11/29 14:32:58

Please activate your account before 2004/11/30 02:32:58



Figure 3-78 PC-connected Printer Printout

	Welcomel
Hots	spot Internet Service
Use	mame30000000x
Pas	swordpocococc
Billir	ng: Time to Finish
Sen	vice: 30 minutes
Unit	:1
Uşa	ge Time: 0:30:00
Tota	si \$1.00
ESS	SID: Wireless
	2004/11/29 14:35:27
	S/N:000001
	Please activate your account before 2004/11/30 02:35:27
	Thank you very much I

Figure 3-79 Account Generator Printer Printout



Credit Card

### Standard Login Page

This function allows a service provider to customise the additional credit card message on the standard login page.

Standard Login Page	Customize the additional credit card message for the standard login page			
	Credit Card Message			
	credit card message	(Max:40 characters)		
		Q Preview of Standard Login Page		

Figure 3-80 Credit Customization Setting Screen

	Welcome		
He	t Spot Internet Service		
Username:			
Password:			
Enter Cancel			
er Click	k here to pay by credit card		
VISA			
Please cont	lact us if you have any question		

Figure 3-81 Standard Login Page



#### Service Selection Page

This function allows the service provider to customise the additional credit card message for the standard login page.

Service Selection Page	Customize the message for the service selection page			
	Service Selection Massage	Please choose from the following service selection (Mar. 10 characters)		
	Purchase Unit Message	Haw many units of Internet access would you like to (Max. 50 characters)		
	Notification Message 1	Please kindy note that there will be no refund once (rise, 192 character)		
	Notification Message 2	Please note that the time block of selected service (vts: 16) obscatist)		
	Notification Message 3	(viac. 190 obaracient)		
	Enter Payment Information	Enter Payment Information (all info is required) (rtax: 100 obsrates)		
	Enter Credit Card Number	Credit card number: (Mar. 80 okarachte)		
	Enter Credit Card expiration date	Credit card expiration date: (Mar. 50 characters)		
	Card Verification Value	Credit Card Code: (Mex. 40 charaches)		
	Enter Email Address	Enter Email Address (Mar. 50 characters)		
	Submit Button	Submit Transaction and Login Max 40 characters)		
		Q Proview of Service Belection Page		

Figure 3-82 Service Selection Page Setting Screen (Secure Pay)

ease ch	noose from the	e following service s	election	
	Service Code	Service Name	Usage Time	Charge
8	1	30 minutes	30 minutes	1.00
c	2	1 hour	1 hours	2.00
-				
w mar	dly note that there	2 hours rnet access would y will be no refund once con ck of selected service is ba		3.00
ease kin ease not	by units of Inte dy note that there e that the time blo	rnet access would y	ou like to purchase? nectivity is confirmed. sed on continuous usage.	
ow mar lease kind lease not	by units of Inte dy note that there e that the time blo ayment Inform	rnet access would y will be no refund once com ck of selected service is ba	ou like to purchase? nectivity is confirmed. sed on continuous usage.	
ow mar lease kind lease not	ny units of Inte dy note that there e that the time blo 'ayment Inform Cr	rnet access would y will be no refund once con ck of selected service is ba nation (all info is requ	ou like to purchase? nectivity is confirmed. sed on continuous usage.	

Figure 3-83 Service Selection Page (SecurePay)



### Successful Page

Successful Page	Customize the message for the successful page		
_	Successful Message	You may now use the Internet ( Max. 50 characters)	
	Notification Message 1	[MFORTANT] Make a sole of your openation and parawood for lo (Max. 100 charactere)	
	Notification Message 2	(Max. 180 charaotara)	
	Account Information	This is your account information, please keep this for your internet ( (Max. 160 charactere)	
	Usemame	Your stitmant is (Max. 80 characters)	
	Password	Your passwood is [Max: 80 characters]	
	Usage Time	Your stage first is Max. 80 characters	
	Expiration Time	Pleze activite your account before [Mar. 50 sharaschars] Format: [9793/humdid ] [Himman Sa ] (Mar.240.041.0417-067)	
	Submit Button	Use this account to LOGIN now (Max, 40 characterize)	
		Q Preview of Successful Page	

Figure 3-84 Successful Page Setting Screen

Welcome			
Hot Spot Internet Service			
You may now use the internet !			
IMPORTANTI 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 3-85 Example-Successful Page



### Fail Page

This function allows a service provider to customise the message for the login failed page.

Fail Page	Customize the message for the fail page			
	Notification Message 1	SDRRY, your card could not be processed at this time. (Max. 180 characters)		
	Notification Message 2	Please of your backpace botton and by again with a different credit (Max. 160 characters)		
	Notification Message 3	Think you (Max. 160 characters)		
	Try Again Button	Try Agin (Was db characters)		
	Close Button	Close (Max. 40 characters)		
		Q Preview of Fail Page		

Figure 3-86 Fail Page Setting Screen



#### **User Agreement Page**

This function allows the user to design a user agreement page that the user will be presented with after successful log in.

Login Page	Logo	Information Window	Account Prin	tout Credit Ca	rd User Agreement Page
Title		User Agreement Po	ige	۲. ۲. (۱)	lec 100 charaolara)
Title Text Color		00000	View Color Grid		
Article				E 50	Nec 5000 in Assister)
Article Text Color		000000	View Color Grid		
Article Background Co	lor	FFFFFF	<b>Mew Color Grid</b>		
Page Background Col	DF	FFFFFF	View Color Grid		
Agree Button		Agree	olar. 50 characters)		
Disagree Button		Do not agree	(Marc 60 character)		
				🖹 Standard User	Agreement Page Preview
					Apply

Figure 3-87 User Agreement Page Setting Screen

User Agreement Page		
Agree	Do not agree	

Figure 3-88 User Agreement Page



## 3-2-10 Pass Through

The passthrough function allows the administrator to add the MAC addresses of devices on the LAN that can access the internet without the requirement to have a user name and password for authentification.

PASS THE	ROUGH			
Pass Through	c Dealer			
which is useful authentication.	to promote selecter Pass Through LAN	e subscribers to access specifie I services. Pass Through Subscr device is also useful for devices connected with LAN part (wireles)	iber is useful for VIP u that do not have a wel	isers without 5 browser (cash
Please enter	new pass through	for destination (up to 50 entried)		
© URL or We	ebsite:			
O Start / End	IP Address:	-		
Please enter	new pass through	for subscribers or LAN devices	(up to 60 antisa)	
O Start / End	IP Address	~		
C IP Address	x	Subnet Mask		
O MAC addr	195:	Mask: PR-PP-PP-PP-	- TT-T	
				Add to List
Pass Through	List			
No.	Active	Address List	Тура	Delete
				Delete All
				Apply

Figure 3-89 Pass through Setting Screen



# 3-2-11 Filtering

Filtering allows the system administrator to have a list of restricted destinations which users will not be able to view. This is useful to block specified Internet websites or Intranet areas.

FILTERING			
Filtering: Disable]	-		
	system administrator ebsites or Intranet are	to have a list of restricted destinations, whi as.	ch is useful to block
HTTP Message to This Web Site is block	display when a web ed by System	site is blocked	
Please enter new	restricted destinatio	In (up to 50 entries)	
	e:		
C Start / End IP /	Address:	-	
C IP Address:		Subnet Mask:	
			Add to List
Restricted Destina	stion List		
No.	Active	Address List	Delete
			Delete Al
			Apply

#### Figure 3-90 Filtering Setting Screen

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

Warning !!	
This Web Site is blocked by System	
Back	

Figure 3-91 Error Dialog Box



## 3-2-12 Share

This feature allows the sharing of network devices after the subscriber has successfully logged in.

SHARE Share I AN re	source: Disable 💌			
	lows to share the network	recource after subscriber	successful login.	
Please enter	new sharing LAN resou	FCR (up to 50 entries)		
Re	source Name	Resource IP Address	Resource MAC Address	Interface
				Wired 💌
			1	Add to List
Share Resou	ree List			
No. Active	Resource Name	IP Address	MAC address Interfe	Ca Delete
				Delete Al
				Apply

Figure 3-92 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 for 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. This function supports only Unicast and IP Protocols.



## 3-2-13 Portal Page

Apply

This feature allows for the redirecting of a 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				
		(Apply)		

Figure 3-93 Portal 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 Portal Page setting screen.



## 3-2-14 Advertisement

The system allows the service provider to input up to 10 URL links for advertising purposes. These will display as pop ups whilst the user is accessing the service.

	to specify the advertisement URL link. The advertisement Web page will show on ubscribers start Network access.
Frequency	One Time Only     O Every     Min(s)
Sequence	Randomly      Orderly (From 1 to 10)
URL Link 1	
URL Link Z	
URL Link 3	
URL Link 4	
URL Link5	
URL Link 6	
URL Link7	
URL Link®	
URL Link®	
URL Link 10	
	Appl

Figure 3-94 Advertisement URL Link Setting Screen

ltem	Default	Description	
Frequency	One Time Only	One Time Only – will send the advertisement link once after the subscriber Login.	
		Every~Min(s) – will send the advertising link every interval minutes. The value range is 1 to 60 (minutes).	
Sequence	Randomly	Randomly – Displays the advertisement page in a random order.	
		From 1 to 10 — Displays the advertising page in the order as set.	
URL Link 1~10	Empty	This function allows the administrator to input ten different websites in the table for advertising. These 10 websites will display at random when the subscriber logs into the HS960 system. The maximum character of the URL Link # is 200.	



### 3-2-15 Walled Garden

The Walled garden feature allows the administrator to list up to 10 web addesses that can be accessed without being required to log in with a username and password.

	use for free trying and can use for advertiseme Name: Valuo	Yahoo
Link 1	Name: [19900	www.yahoo.com
Link 2	Name: MSN URL: 9999.min.com	MSN www.msn.com
Link 3	Name: Microsoft URL: www.nicrosoft.com	Microsoft www.microsoft.
Link 4	Name:	
Link 5	Name:	
Link 6	Name:	
Link 7	Name:	
Link 8	Name:	
Link 9	Name:	
Link 10	Name:	

Figure 3-95 Walled Garden

These 10 sites will display on the front log in screen.

Welcome		
Hot Spot Internet Service		
Username:		
Password:		
Enter Cancel		
Name Yahoo		
MSN		
Microsoft		
	Hot Spot Internet Service Username: Password: Enter Cancel Name Yahoo MSN	

Figure 3-96 Login Page



### 3-2-16 DDNS (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 HS960 a new IP, the HS960 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.

	NS			
Force to update every 12 day(s) when WAN IP address keeps no change				
40.	Active	Settings Update Status New		
		Status: N/A		
		Service Provider	dynchs.org (www.dynchs.org)	
		Registered Host Name	(fin ecomple: sys.dyndrecorg)	
1		Login Name	(max: 23 of araiders)	
		Password	(n.ac. 22 sharaden)	
		Email Address	(splinal)	
		Wildcards(optimal)		
		Statuse N/A		
		Service Provider	dyndns.org (www.dyndns.org)	
		Registered Host Name	(for example: sym dyndromerg)	
02		Login Name	(marc 23 charactura)	
		Password	(n.ac. 22 charactert)	
		Email Address	(aptimal)	
		Wildcards (uptional)		
		Status: N/A		
		Service Provider	dynahs.org (www.dynahs.org)	
03 🗖		Registered Host Name	(fire ensemples: roje algedras or g)	
		Login Name	(n.ac. 22 characteri)	
		Password	(n.ar. 23 sharastera)	
		Email Address	(optime)	
		Wildcards (optional)		

Figure 3-97 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.
Update Status Now	Click the Update	Status Now button to do manual update.
Settings	Enter the accour	t information of DDNS Server.
Status	YY/MM/DD HH:MM:SS:	Display the update date, time and status. The Status area shows the updated 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	Select a DDNS service provider by clicking in the list box.
	(www.dyndns. org)	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 re host name is 100.		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, the success dialog box appears. Click on Back to return to DDNS setting screen.



## 3-2-17 LAN Devices

The administrator can remotely control LAN Devices via the HS960 LAN devices feature.

No.	Device Name	Virtual Port (5800~58-10) (60001~60050)	Device IP Address	Device Server Pert	Device MAC Address	Application	Interface
1	Ethernet Switch	80001	192.168.100.123	60	009008002537	TCP ·	Wired
Z		D		þ		TCP 💌	Wired
3		D		D		TCP 💌	Wired
4		D		D		TCP 💌	Wireless 💌
5		0		D		TCP •	Wired 💌
δ		D		þ		TCP 💌	Wired
7		0		p		TCP 💌	Wired
8		٥		D		TCP -	Wired
9		٥		D		TCP ·	Wred
10		p		D		TCP -	Wired
47		D		þ		TCP 💌	Wred
48		D		þ		TCP 💌	Wired
49		0		p		TCP 💌	Wired
50		D		p		TCP -	Wired

### LAN DEVICES

Figure 3-98 LAN Devices Setting Screen

Item	Default	Description
Polling Interval	5 Min.	The default value is 5 minutes. The Polling Interval valid range is 1 to 1440.
Device Name	Empty	The LAN device name. The maximum character of the device name is 20.
Virtual Port	0	The virtual port number valid range is 60001 to 60050 or 5900 to 5910.
Device IP Address	Empty	Enter the IP address of the LAN device in the format "xxx.xxx.xxx.xxx"
Device Server Port	0	Enter the server port of the LAN device.
Device MAC Address	Empty	The MAC address of the LAN device.
Application	TCP	Select one protocol type of the LAN device by clicking in the list box.
Interface	Wired	Select one interface of the LAN device by clicking in the list box.

Note: The system does not support FTP.



# 3-2-18 Syslog

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

Syslog Setting

SYSLOG			
Syslog	Log Setting	js	
	C Disable C En	able	
Send to Syslog Server	Syslog Server on LAN		Server IP Address: Server IMAC Address:
Sterne 251451	🗆 Syslog Sen	er on WAN:	Server 1 IP Address:
	@ Disable C En	able	
	Email Server.		er Domein Name: SMTP Port: SMTP) server needs to check my account er Pascward:
Send to Email	Email From:	Name: Email Addre	P65:
	Email To:	Email Addre Email Addre	
			Αριγ

Figure 3-99 Syslog Setting Screen



Item	Default	Description
Syslog	Disable	Enables or disables the syslog server function.
Syslog on LAN		
Server IP Address	Empty	Enter the syslog server's IP address. The HS960 will send all of its logs to the specified syslog server.
Server MAC Address	Empty	Enter the syslog server's MAC address. The HS960 will send all of its logs to the specified syslog server.
Syslog on WAN	0	
Server 1 IP Address	Empty	Enter the IP address of first syslog server.
Server 2 IP Address	Empty	Enter the 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 the 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.



Syslog Email

 Sysleg Name

LAN Devices Information

LAN Devices Alarm

Log Categories

SYSLO

Sy	slog	Log Settings			
ystem					
Sysiog	Email	Syslog Name	Description	Interval Time	
		System Information	A log including the system information will be cent according to specified interval time	00 minute(s	
		System Boot Notice	Once system wheels, the log will be sent	When system rebool	
		System Manager Activity Information	A tag will be sent if system manager (Administrater, Supervisor of Aron unt Manager) login to or loginut from the devise	When system manager login or logout	
Subscrib	er				
Syslog	Email	Sysleg Name	Description	Interval Time	
		Wireless Association Information	A log including wireless usen information will be sent according to apportial interval time	80 minute(s)	
		Logged-in Users	A login user information will be sent according to specified interval time	60 minute(s)	
ropriet	ary Acc	ounting			
Syslog	Email	Sysleg Name	Description	Interval Time	
		Account Created	A log will be sent once after an account is created	When an account is created	
		Account Activated	A log will be cent once after as account in activated	When an account is activated	
		Subscriber Trace	A log including substrikes login/logs ut time will be sent anos after subscriber logs ut	When subscriber logout	
Silling					
Syslog	Email	Sysleg Name	Description	Interval Time	
		Billing Log	A log-would be pentiatter a billing log to meated	When log created	

Description

A log issluding canent LAN Devices Status will be

cent according to specified interval time A log will be sent if one of the LAN Devices

detected repult is "Fail"

Figure 3-100 Log Settings Screen

Interval Time

When device fail

minute(s)

Appl y

80



Item	Interval Time	Description
Syslog	Disable	Click on the check box to send log information to your syslog server.
Email	Disable	Click on the check box to send log information to your e-mail address.
System		
Syslog Information	60 minutes	The log included system information would be sent according to specified interval time.
		Format: (Id, Mac Address) (System Uptime, 0 days 00h:04m:00s) (Location Name, Location Name) (WAN, FrameTx0K, FrameRx0K, FrameTxError, FrameRxError) (LAN, FrameTx0K, FrameRx0K, FrameTxError, FrameRxError), (Wireless, FrameTx0K, FrameRx0K, FrameTxError, FrameRxError)
System Boot Notice	When System	If device is rebooted, log would be sent.
	reboot	Format: (Id, MAC Address) (System Up)
System Manager Activity Information	When system manager login	A log will be sent if asystem manager (Administrator, Supervisor or Account Manager) logs in or out from the device.
	or logout	Format: (Id, Mac Address) (System Account Activity Information, Username, User IP, Status)
		Username: Administrator   Supervisor   Accounting Operator Status: Login   Logout   Idle Time Out
Subscriber		
Wireless Association Information	60 minutes	A log including wireless associated users information will be sent according to specified interval time.
		<b>Format:</b> (Id, Mac Address) (Wireless Association Information, Number of associated users, Start Number, End number) (Signal strength, Signal quality, Connection speed, MAC address)()()
Logged-in Users	60 minutes	A log including logged-in users information will be sent according to specified interval time.
		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)()() 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 disabled, Username is "Anonymous".
Proprietary Accounting		
Account Created	When an	A log would be sent if an account was created.
	account is created.	Format: (Id, Mac Address) (Account Create, Type, S/N, Username, Unit, Account usage time, Billing profile information)
		Type: TimeToFinish   Accumulation   PostPaid Billing profile information: [index, name] Account usage time: 00:59:59 (example)
Account Activated	When an	A log would be sent if an account was activated.
	account is activated	Format: (Id, Mac Address) (Account Activate, username, user IP, user MAC, Interface)



Item	Interval Time	Description
Subscriber Trace	When subscriber	A log including subscriber's login or logout time will be sent once after the subscriber logs out.
	logout	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) Type: TimeToFinish   Accumulation   PostPaid   Super Event: Finished   Replenished   Logout   Idle-Timeout   Account Expired   Deleted
		If the type of Subscriber Trace is Super, the Username will be "*******", and S/N will be "******".
		Usage time: 00:59:59 (example)

Subscriber Trace Relationship

Туре	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/Nxxxxx
Accumulation	Logout	00:48:00
Accumulation	Idle-Timeout	00:48:00
Accumulation	Deleted	00:48:00
Accumulation	Account Expired	00:48:00
PostPaid	Logout	*****
PostPaid	Idle-Timeout	*****
PostPaid	Deleted	*****
PostPaid	Finished	*****
PostPaid	Account Expired	*****
Super	Idle-Timeout	*****
Super	Deleted	*****



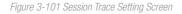
Item	Interval Time	Description
Billing		
Billing Log	When log created	A log would be sent after a billing log is created. <b>Format:</b> (Id, MAC Address) (Billing Log, Type, S/N, Username, Billing profile information, Units, Usage time, Bill, Payment) <b>Type:</b> TimeToFinish I Accumulation I PostPaid <b>Billing profile name:</b> [Name] <b>Usage time:</b> "00:59:59" (example) <b>Billing profile information:</b> [index, name] <b>Payment:</b> Cash I Credit Card
LAN Devices Management Category		
LAN Devices Information	60 minutes	A log including current LAN Devices Status will be sent according to specified interval time. <b>Format:</b> (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)



#### 3-2-19 Session Trace

Session Trace is an intelligent function to help the service provider trace every user's access behavior. When "session trace" is enabled, the system will collect information such as destination IP, destination port, source IP, source MAC, source port by every user and send the collected information in text format file to specified TFTP server.

s	ESSION TRACE
s	ession Trace Disable -
	rimary TFTP Server IP Address
	and Sassion Trace log file every [10 minutes, [5-1440] ets: Semien Tucce log file will be set also when soliteded 50 logi)
	Vidda



Item	Default	Description
Session Trace	Disable	Disables or enables session trace function.
Primary TFTP Server IP Address	Empty	Enter the IP address of the primary TFTP server.
Secondary TFTP Server IP Address	Empty	Enter the IP address of the second TFTP server.
Send Session Trace log file every~ minutes.	10 minutes	The field will send the session trace log file every interval minutes. The value range is 5 to 1440 (minutes).



## 3-2-20 Bandwidth

This function enables the administrator to limit bandwidth usage on a per user basis (MAC address). This prevents users from consuming a disproportionately large amount of bandwidth so every user gets a fair share of the available bandwidth.

#### BANDWIDTH

Bandwidth Managem	ent: Disable -
	Iministrator to limit bandwidth usage on a per user basis (MAC address).That prevents users from ionately large amount of bandwidth so every user gets a fair share of the available bandwidth.
Please setup the max	kimum Upstream/Downstream bandwidth
Maximum Upstream	6 64Kbps C 64 Kbps (64-5120)
Maximum Downstream	

Figure 3-102 Bandwidth Setting Screen

Item	Default	Description	
Bandwidth	Disable	Enables or disables Bandwidth Management.	
Maximum Upstream	64Kbps	Specify the amount of upstream bandwidth.	
Maximum Downstream	128Kbps	Specify the amount of downstream bandwidth.	



### 3-2-21 Secure Remote

This feature allows the administrator to create a secure connection to a remote site or back end system with a VPN PPTP Client. If "Secure Remote" is enabled, the RADIUS packet/ syslog will be transferred to this secure connection.

SECURE REMOTE	
Secure Remote Disable 💌	
This feature allows you to cre feature is enable, the RADIU	ate a secure connection to a remote site or back and system with VPN PPTP Client. When this S packat/syslag will be transferred to this essure connection.
PPTP Client	Auto-connect at Start-up (Always connect)  PPTP Server IP address: Usemame: Password:  Start connection
	Status Introduct
	Viqqe

Figure 3-103 Secure Remote Setting Screen

Item	Default	It Description	
Auto-connect at Start- up (Always connect)	Disable	Enable the check box to automatically establish the PPTP connection.	
PPTP Server IP address	Empty	Enter the PPTP server IP address provided by your ISP.	
Username	Empty	Enter the user name provided by your ISP. The user name can consist of up to 80 alphanumeric characters and is case sensitive.	
Password	Empty	Enter the user password provided by your ISP. The password can consist of up to 80 alphanumeric characters and is case sensitive.	
Start connection	Click on Start/St	lick on Start/Stop connection button to start/stop PPTP connection.	



## 3-2-22 SNMP

The SNMP Agent Configuration screen enables you to access to your device via Simple Network Management Protocol. You must first enable SNMP on the SNMP Agent Configuration screen.

#### SNMP

SNMP Po Trap Port:		161 or 16100 ~ 16199 ) 162 or 16200 - 16299 )			
No	Community Name	NMS Address	Privileges	Status	
1	public	ANY	Read	▼ Valid ▼	
Z	private	ANY	Write	▼ Valid ▼	
3		ANY	Read	• Invalid •	
4		ANY	Read	Invalid	
5		ANY	Read	Invalid	

Figure 3-104 SNMP Setting Screen

Item	Default	Description		
SNMP	Disable	Disables or enables the SNMP management.		
SNMP Port	161	If the SNMP enables, also allowed to specific the SNMP port number via NAT.		
Trap Port	162	The allowed SNMP port numbers are 161 (default), 16100-16199 and Trap port numbers are 162 (default), 16200-16299. This Port setting is useful for remote control via NAT network.		
Configuration				
Community Name	public/private	Every unit with SNMP enable must be configured to recognize one or more community names up to 20 characters. The default setting for the community of entry 1 is "public" and for the entry 2 is "private" and others are empty.		
NMS Address	ANY	The address of the NMS. The default settings for the NMS Networking are "ANY".		
Privileges	Read/Write	Choose "Read", "Write", "Trap Recipients" and "All" for different privileges. The default setting of the entry 2 is "write" and others are "read".		
Status Valid/Invalid		Chosen "Valid" or "Invalid". The default setting of entry 1, 2 are valid and others are invalid.		



3-2-23 Wireless

WIRELESS	
General Settings	ESSID: Wireless Channel: 0 × Security: © Disable C WPA
	Group Key Rekeying per 85400 seconds
	Use WPA with Pre-shared Key
	Pre-shared Key: (8×63 intraction)
	O Use WPA with RADIUS Server
	Server IP:
	Authentication Port: 1812
	Shared Secret Key:
	CWEP
	Use Static WEP
	Encryption: © 64 bit © 128 bit
	Mode: HEX  VEP Key:
	@ 1. 000000000
	C 2, 000000000
	C 3. 000000000
	C 4. 000000000
	Note: You have to reduit the system to apply the WEP orthings
	nless you make sure you understand all the meaning of setting , You can press "DEFAUL" It setting once you made setting changed to cause winders not work
Beacon Interval	100(mseo, range 20-988, default 100)
RTS Threshold	2347 (varge:1+2347, detaelt2347)
Fragmentation Threshold	2432 (range 250-2452, default 2452, even nomber mity)
Preamble Type	C Short Preamble @ Long Preamble C Dynamic Preamble
Authentication Method	@ Open System IC Shared Key IC Both
Default	Apply

Figure 3-105 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 A	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 HS960 supports 64-bit or 128 bit WEP encryption.			
Mode	HEX	Options: HEX (Hexadecimal) and ASCII (American Standard Code for Informa Interchange).			
WEP Кеу	1	This selects which of the Keys the HS960 uses when it transmits. You can change the selected encryption key every now and then to increase the security of your network.			
		Note: You have to configure all WEP keys (1~4), and select one of the four WEP key.			
		Enter 5 characters (case sensitive) for ASCII 64-bit WEP Key.			
		Enter 10 characters (case sensitive) for Hex 64-bit WEP Key. Enter 13 characters (case sensitive) for ASCII 128-bit WEP Key.			
		Enter 26 characters (case sensitive) for Hex 128-bit WEP Key.			
802.1x	Disable	Enables or disables the 802.1x function.			
Encryption	64 bit	The HS960 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.			



Item	Default	Description
Beacon Interval	200	This valid value range is 1 to 1000 and indicates the frequency interval of the beacon.
RTS Threshold	2347	This valid value range is 256-2342. This setting determines the packet size at which the HS960 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 HS960, or in areas where the clients are far apart and can detect only the HS960 and not each other.
Fragmentation Threshold	2432	This setting determines the size at which packets are fragmented. Enter a setting ranging from 256 to 2432 bytes. Use a low setting in areas where communication is poor or where there is a great deal of radio interference.
Preamble Type	Long Preamble	The preamble type is a section of data at the head of a packet that contains information the HS960 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		Select Open System, Shared Key or both.
		<b>Open System</b> – Allows any device to authenticate and then attempt to communicate with the HS960. Using open authentication, any wireless device can authenticate with the HS960, however the device can only communicate if its WEP key matches the HS960. Devices not using WEP do not attempt to authenticate with a Wireless Service Gateway that is using WEP.
		Shared Key – During shared key authentication, the HS960 sends an unencrypted challenge text string to any device attempting to communicate with the HS960. The device-requesting authentication encrypts the challenge text and sends it back to the HS960. If the challenge text is encrypted correctly, the HS960 allows the requesting device to authenticate. Both the unencrypted challenge and the encrypted challenge can be monitored, however, which leaves the HS960 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.
		Both – With this setting wireless stations can communicate with or without data encryption.



## 3-2-24 Account Generator

Socket Port [1001 Encryption: Cashle Secret 1. [10:59, 2. 3. 4. Ethernet Thermal Phinter IP Address : 6. 7.	(1001-1005) (mar.8 characters)
Encryption: C Enable Secret 1. [10.59, 2. 3. 4. Ethemet Thermal Printer IP Address : 6.	(mac8 chatacters)
2 2 3 4 Ethemet Thermal 6 Printer IP Address : 6	
8 9 10	

Figure 3-106 Account Generator Printer Setting Screen



Figure 3-107 Application





STATEM STATUS

SYSTEM TOOLS

Display HS960 system basic status, including,

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

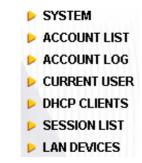


Figure 3-108 System Status Item Screen



# 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.

YSTEM			
splay the detailed syste	m information		
Service	Internet Connection	ок	
Service	Wireless Service	OK	
	System Name		
	Domain Name		
	Firmware Version	1.02.08	
	Wireless Version	1.2.8	
System	Bootrom Version	1.02	
	WAN MAC Address	00.90.0E:00.9E:CC	
	LAN MAC Address	00.90:0E:00.9E:C8	
	System Time	2006/4/28 16:48:50	
	System Up Time	00D:00H:22M:24S	
LAN IP	IP Address	10.59.1.1	
LAN IP	Subnet Mask	255.255.255.0	
	WAN Port Mode	Static IP	
WAN IP	IP Address	192.168.100.191	
Words IP	Subnet Mask	255.255.255.0	
	Gateway IP address	192.168.100.254	
n	Primary DNS Server	168.96.1.1	
DNS	Secondary DNS Server		
	DHCP Status	Server	
	Start IP Address	10.59.1.2	
DHCP	End IP Address:	10.59.1.254	
	Lease Time	300	
	ESSID	Wireless	
Wireless	Channel	6	
	Secure Mode	Disable	
E-Mail	192.168.100.3		

Figure 3-109 System Status Screen



Network Traffic	WAN Traffic	Tx Data: 470774 Px Data: 2471600 Tx Error: 0 Tx Data: 4394455 Px Data: 669411 Tx Error: 0 Re Error: 0
	Wireless Traffic	Tx Data: 2 Re Data: 0 Tx Error: 0 Re Error: 0
	Location	
	Address	
	Cty	
	State	
Location Information	Zip	
Location information	Country	
	Contact Name	
	Contact Telephone	
	Contact FAX	
	Contact Email	
	Country	00
	State	Local State
	Local City	Local City
SSL Certificate	Organization	Local Group
	Organization Unit	Local Host
	Common Name	11.1.1
	Email Address	mail@1.1.1.1

Figure 3-110 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.

ACCO	DUNT LI	ST					
List exist	ting account	's information.					refresh⊖
S/N	Status	Usemame	Usage Time	Time Created	Login Time	Expiration Time	Delete
000001	Un-used	ha92hk46	D:30:00	2005/2/14 13:44:46		2005/2/15 D1:44:46	
000002	Un-used	ubwnp552	1:00:00	2005/2/14 13:44:51		2005/2/15 D1:44:51	
000003	Un-used	gpgxgf54	2:00:00	2005/2/14 13:44:54		2005/2/15 D1:44:54	
000004	Un-used	38b6qm57	2.00.00	2005/2/14 13:44:57		2005/2/15 D1:44:57	
000005	In-used	yfp23n33	2.00.00	2005/2/14 13:45:03	2005/2/14 13:46:48	2005/2/14 15:45:40	
# 60	1 Page				#First 4	Delete De Previous Next •	elete Al End M

Figure 3-111 Account List

### 3-3-3 Account Log

The account log shows the accounts' log information.

ACCO	ACCOUNTLOG										
List acco	unt's lag.				Expo	d Clear Log	refresh 🕀				
S/N	Usemame	Time Created	Login Time	Usaga Time	Charge	Payment Info	Status				
000001	ha92hlo45	2005/2/14 13:44:46		0:30:00	1.00	Cash	Uniused				
000002	utwnp552	2005/2/14 13:44:51		1:00:00	2.00	Cash	Un-used				
000003	gpg×g154	2005/2/14 13:44:54		2:00:00	3.00	Cash	Un-used				
000004	3866 gm57	2005/2/14 13:44:57		2:00:00	3.00	Cash	Un-used				
000005	yip23n33	2005/2/14 13:45:03	2005/2/14 13:45:40	2:00:00	3.00	Cash	In-used				
MGO	1 Page			🗮 First	< Previo	us Next 🕨	End 🛤				

Figure 3-112 Account Log



### 3-3-4 Current User

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

list cur	st current user's information such as IP address and MAC address.									
No.	Туре	Usemame IP Address		MAC /	Address	Disconnect				
1	Dynamic	yfp23n33	192.168.100.192	00:00:6E	256:56:6E	r				
				_	Disconnect	Disconne	ct All			
HGC	1 Page			🗮 First	• Previous	Next ) End )				

Figure 3-113 Current User List

NO.	Туре	Usemame	IP Address	MAC Address	Disconnect
1	Superuser	super	192 168 100 192	00.00.6E-56-56-6E	D

Figure 3-114 Current User List (super account)

Tuna	ID Address	MAC Address
		00.0C.6E.56.56.6E
	Type Ion Auth	

Figure 3-115 Current User List (No Authentication)

### 3-3-5 DHCP Clients

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

#### DHCP CLIENTS

DHCP Clian	I's Information, including assigned IP address and MAC addr	955.
No.	MAC Address	IP Address
1	00:20:20:48:88:DE	10.59.1.2
2	00:C0:CA:19:7D:58	10.59.1.3

Figure 3-116 Current User Screen



## 3-3-6 Session List

The remote site administrator could monitor the real time usage status of HS960 via this page.

	sessions of Net d number.	work events. Incoming	and outgoing pa	cket information,	including source IP a	ddress, destination P	address,
# GO	1 Page				H First 📢 Pr	revious - Next 🕨	End H
Ne.	TCP/UDP	Client IP	Client Port	Port Fake	Remote IP	Remote Port	ldle
1	TOP	192.168.100.192	4672	50013	207.46.106.94	1963	25
2	TCP	192.168.100.192	4717	60046	207.46.108.47	1883	128

Figure 3-117 Session List Screen

### 3-3-7 LAN Devices

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

#### LAN DEVICE

	We detect below listed devices to check if alive every 5 min. You can manage below listed devices by clicking device name to access its Web-based UL									
NO.	Device Name	Status	Virtual Port (5900~5910) (60001~60050)	Device IP Address	Device Server Port	Device MAC Address	Application	Interface		
1	Ethernet Switch	ок	60001	192,168,100,123	80	00:90:0E:00:25:37	TCP	Wired		

Figure 3-118 LAN Devices Status Screen





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

WIZARD SETUP

ADVANCED BETUP

SYSTEM STATUS

STATEM TOO

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



Figure 3-119 System Tools Item



# 3-4-1 Configuration

Use the Configuration item to save, restore or reset configuration parameters of the HS960 .

#### CONFIGURATION

This feature can backup the system configuration from this device to your PC or restore your stored system configuration.	ration to this
Backup	
Click Backup to backup the system configuration from this device to your computer or to the remote TFTP server. Remote TFTP Server IP Address. File Name:	Apply
Restore	
To restore your stored system configuration to this device.	
Local PC File Path: Browse.	Apply
Remote TFTP Server IP Address:	Apply
Reset the system back to factory defaults	
Keep subscriber profile	Apply

#### Figure 3-120 Configuration Setting Screen

Item	Default	Description
Backup	Click it to save th	ne 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	e 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 settings but still reserve the subscriber profiles.



## 3-4-2 Firmware Upgrade

The Firmware Upgrade menu loads updated firmware into the flash ROM. After downloading the new firmware, the agent will automatically restart it.

#### Manual Firmware Upgrade

FIRMWARE			
Manual Firmware Upgrade	Scheduled Firmware Upgrade		
To upgrade the firm	vare, click <b>Browse</b> to loca	ate the firmware file or use remote TFT	P server and click Apply.
Local PC File Path		Browse	Apply
Remote TFTP Serve	er IP Address	File Name	Apply

Figure 3-121 Manual Firmware Upgrade Setting Screen

Note:

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

#### Scheduled Firmware Upgrade

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

FIRM	IWARE	
	al Firmware Scheduled Jpgrade Firmware Upg	
This f	eature allows you to upgrade th	he system firmware on a regular (hourly / daily / weekly) basis automatically.
6 0	Disable Enable	
	TFTP Server IP	
	File Synchronization	View Sample File
	Frequency	@ Weekly C Daily C Hourly Staday # OD # Hour OD # Min.
		Apply

Figure 3-122 Scheduled Firmware Upgrade Setting Screen

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

## 3-4-3 Boot Code

BOOT CODE	
To upgrade the Boot Code, click Browse to locate the file and click Apply	
Local PC file Path Browse.	
	Apply

Figure 3-123 Boot Code Upgrade Setting Screen



# 3-4-4 System Account

Use the System Account screen to change the system accounts.

SYSTEM ACCOUNT	
Administrator Account	
Administrator can fully control this system a	nd modify all settings.
Usemame:	admin
Password	Verver
Confirm	
Web-based Accounting Manager	
Web-based accounting manager can operat	e the proprietary web-based accounting system.
Usemame	account
Passwort	
Confirm	
Supervisor Account	
Supervisor can only view system status and	change password.
Usemame:	supervisor
Password	- COLORE
Confirm	
Super Subscriber Account	
Super subscriber is a built-in subscriber acc	ount for system test or premium usage.
Super Subscriber	Disable -
Ide Time Out	5 Nin(s)(1-1440)
Usomame	super
Password	anter
Confirm:	
	Apply

Figure 3-124 System Account Setting Screen



#### Administrator Account

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

kınsıckı	Isolar Help	
0	\$10.591.1	
	200	

Figure 3-125 Web Browser Location Field (Factory Default)

2 The HS960 configuration main menu will appear. Enter admin (default) as the Username and admin (default) as the password and click Login. If you are first time setting the system, the wizard setup screen will appear.

HS960	
Username: Password: Version 1.00.09	
Logn	Frest

Figure 3-126 Administrator Account Login Screen (First Time)

#### Or

#### System Quick View

System			refie sh
System/Host Name		Firmware Version	1.01.04
Location Name		Domain Name	
System Time	2005/2/14 14:18:40	System Up Time	00D:00H:34M:10S
WAN MAC address	00.90:0E:00.9B:CC	LAN MAC address	00:90:0E:00.9B:0B
Network			
WAN Status	Established	WAN Type	DHCP Client
WAN IP Address WAN Subnet Mask	192.168.100.125 255.255.255.0	LAN IP Address LAN Subnet Mask	10.59.1.1 255.255.256.0
Default Gateway	192.168.100.254	DNS	192.168.100.2
Nireless			
Wireless Service	OK	ESSID	Wireless
Wireless Channel	6	Secure Mode	Disable
Fraffic			
WAN	TxDate:198737 RxDate:7	18585 TxError:0 RxError:0	
LAN	TxData:2861020 RxData:	532634 TxError:0 RxError:0	

Wireless TxData:0 RxData:0 TxError:0 RxError:0

refrech 🖯

Figure 3-127 System Quick View



#### Web-Based Accounting Manager

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

ka Isaka Help	kunsche D
\$105911	0
Q \\$10.59.1.1	0

Figure 3-128 Web Browser Location Field (Factory Default)

2 The HS960 configuration main menu will appear. Enter **account** as the Username and **account** as the password and click **Login** 

	HS960
Use mame Password	
	Version 1.00.09
Login	FREE

Figure 3-129 Web-Based Accounting Manager Login Screen

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



Figure 3-130 Account Generator Panel



#### Supervisor Account

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

		marks <u>T</u> asks <u>I</u>		kmar
♥ 10.59.1.1	2	♥ № 10.5	0 10	(

Figure 3-131 Web Browser Location Field (Factory Default)

2 The HS960 configuration main menu will appear. Enter **supervisor** as the Username and **supervisor** as the password and click **Login**.

	HS960
Userna Passw	
	Version Fablice
Logi	Reset

Figure 3-132 Supervisor Account Login Screen

3 After a valid user name and password have been provided, the HS960 configuration homepage will appear.

## 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.

	HS960
Use mame: Password:	
V	Arsion 1.00.09
Login	Freset

Figure 3-133 Subscriber Login Page



# 3-4-5 SSL Certificate

The function allows you to download the registered CA certificate into the HS960 .

SSL CERTIFICATE		
This feature allows you to downlos	d the registered CA certificate into this device.	
Password for Private Key:		
Centificate File:	Drawte.	
Private Key File:	Drowse.	
		Apply

Figure 3-134 SSL Certificate Download Setting Screen

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

#### 3-4-6 Ping Command

The Ping function can check the HS960 networking connective or not.

This feature allows you to execute ping command.	
www.hietast Fing Clear	
Pizging www.hinet.net [61.219.38.89] with 32 bytes of data: Reply from: 61.219.38.89: bytes=32 tlme=90ms TTL=246 Reply from: 61.210.38.89: bytes=32 tlme=30ms TTL=246 Reply from: 61.210.38.99: bytes=32 tlme=30ms TTL=246 Reply from: 61.219.38.89: bytes=32 tlme=30ms TTL=246	

Figure 3-135 Ping Command Screen

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



## 3-4-7 Restart

If your HS960 is not operating correctly, you can choose this option to display the restart HS960 screen. Clicking the apply button restart the HS960, with all of your settings remaining intact.

RESTART	
Do you want to restart the system ?	
Apply	

Figure 3-136 Restart Screen

## 3-4-8 Logout

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

LOGOUT	
	Do you want to log out from the web configurator ?
	Apply
	Apply

Figure 3-137 Logout Screen

# APPENDIX A SIGNAL CONNECTION ARRANGEMENTS

NetGomm

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

The HS960 RJ-45 Ethernet port can connect to any networking devices that use a standard LAN interface, such as a Hub/Switch Hub or Router. Use unshielded twisted-pair (UTP) or shield twisted-pair (STP) cable to connect the networking device to the RJ-45 Ethernet port.

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

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

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

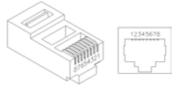


Figure A-1 RJ-45 Connector and Cable Pins

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

# APPENDIX B REGULATIONS/EMI COMPLIANCE

#### FCC Regulatory Statement

Part 15-Class B compliant device

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

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

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

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

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



# APPENDIX C: LEGAL & REGULATORY INFORMATION

This manual is copyright. Apart from any fair dealing for the purposes of private study, research, criticism or review, as permitted under the Copyright Act, no part may be reproduced, stored in a retrieval system or transmitted in any form, by any means, be it electronic, mechanical, recording or otherwise, without the prior written permission of NetComm Limited. NetComm Limited accepts no liability or responsibility, for consequences arising from the use of this product.

NetComm Limited reserves the right to change the specifications and operating details of this product without notice.

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All other trademarks are acknowledged the property of their respective owners.

# **Customer Information**

ACA (Australian Communications Authority) requires you to be aware of the following information and warnings:

- This unit shall be connected to the Telecommunication Network through a line cord which meets the requirements of the ACA TS008 Standard.
- (2) This equipment has been tested and found to comply with the Standards for C-Tick and or A-Tick as set by the ACA. These standards are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio noise and, if not installed and used in accordance with the instructions detailed within this manual, may cause interference to radio communications. However, there is no guarantee that interference will not occur with the installation of this product in your home or office. If this equipment does cause some degree of interference to radio or television reception, which can be determined by turning the equipment off and on, we encourage the user to try to correct the interference by one or more of the following measures:
  - Change the direction or relocate the receiving antenna.
  - Increase the separation between this equipment and the receiver.
  - Connect the equipment to an alternate power outlet on a different power circuit from that to which the receiver/TV is connected.
  - Consult an experienced radio/TV technician for help.
- (3) The power supply that is provided with this unit is only intended for use with this product. Do not use this power supply with any other product or do not use any other power supply that is not approved for use with this product by NetComm. Failure to do so may cause damage to this product, fire or result in personal injury.



# **Product Warranty**

The warranty is granted on the following conditions:

- 1. This warranty extends to the original purchaser (you) and is not transferable;
- 2. This warranty shall not apply to software programs, batteries, power supplies, cables or other accessories supplied in or with the product;
- The customer complies with all of the terms of any relevant agreement with NetComm and any other reasonable requirements of NetComm including producing such evidence of purchase as NetComm may require;
- 4. The cost of transporting product to and from NetComm's nominated premises is your responsibility; and,
- 5. NetComm does not have any liability or responsibility under this warranty where any cost, loss, injury or damage of any kind, whether direct, indirect, consequential, incidental or otherwise arises out of events beyond NetComm's reasonable control. This includes but is not limited to: acts of God, war, riot, embargoes, acts of civil or military authorities, fire, floods, electricity outages, lightning, power surges, or shortages of materials or labour.
- The customer is responsible for the security of their computer and network at all times. Security features may be disabled within the factory
  default settings. NetComm recommends that you enable these features to enhance your security.

The warranty is automatically voided if:

- 1. You, or someone else, use the product, or attempts to use it, other than as specified by NetComm;
- The fault or defect in your product is the result of a voltage surge subjected to the product either by the way of power supply or communication line, whether caused by thunderstorm activity or any other cause(s);
- 3. The fault is the result of accidental damage or damage in transit, including but not limited to liquid spillage;
- Your product has been used for any purposes other than that for which it is sold, or in any way other than in strict accordance with the user manual supplied;
- Your product has been repaired or modified or attempted to be repaired or modified, other than by a qualified person at a service centre authorised by NetComm; and,
- 6. The serial number has been defaced or altered in any way or if the serial number plate has been removed.

# **Limitations of Warranty**

The Trade Practices Act 1974 and corresponding State and Territory Fair Trading Acts or legalisation of another Government ("the relevant acts") in certain circumstances imply mandatory conditions and warranties which cannot be excluded. This warranty is in addition to and not in replacement for such conditions and warranties.

To the extent permitted by the Relevant Acts, in relation to your product and any other materials provided with the product ("the Goods") the liability of NetComm under the Relevant Acts is limited at the option of NetComm to:

- Replacement of the Goods; or
- Repair of the Goods; or
- Payment of the cost of replacing the Goods; or
- Payment of the cost of having the Goods repaired.

All NetComm ACN 002 490 486 products have a standard 12 months warranty from date of purchase. However some products have an extended warranty option (refer to packaging). To be eligible for the extended warranty you must supply the requested warranty information to NetComm within 30 days of the original purchase by registering on-line via the NetComm web site at

### www.netcomm.com.au

#### **Contact Information**

If you have any technical difficulties with your product, please do not hesitate to contact NetComm's Customer Support Department.

Email: support@netcomm.com.au

# www.netcomm.com.au

Note: NetComm Technical Support for this product only covers the basic installation and features outlined in the Quick Start Guide. For further information regarding the advanced features of this product, please refer to the configuring sections in this User Guide or contact a Network Specialist.



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