

**Log Categories**

**SYSLOG**

Syslog	Email	Log Name	Description	Sending Timing
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Device Information	A log including the device information will be sent according to specified interval time	Every <input type="text" value="10"/> minute(s) ) (5~60)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System Up Notice	A log will be sent, once system rebooted or restarted	When system rebooted or restarted
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System Account Activity Information	A log will be sent if system manager (Administrator) login to or logout from the device	When system manager login or logout
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Firmware Update Notice	A log will be sent if firmware update completed	When firmware update completed
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wireless Association Information	A log including wireless users information will be sent according to specified interval time	Every <input type="text" value="10"/> minute(s) ) (5~60)

User				
Syslog	Email	Log Name	Description	Sending Timing
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	User Login	A log including users information will be sent when user logged-in	When user logged-in
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	User Logout	A log including users information will be sent when user logged-out	When user logged-out
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Current User List	A log including logged-in users information will be sent according to specified interval time	Every <input type="text" value="10"/> minute(s) ) (5~60)

Account and Billing				
Syslog	Email	Log Name	Description	Sending Timing
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Account Information	A log will be sent when an account is created	When an account is created
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Billing Amount	A log will be sent when received amount	When received amount

**Apply**

Figure 3-2-17 Log Settings Screen

Item	Default	Description
<b>System</b>		
Device Information	Every 10 minute(s)	<p>The range is 5~60 minutes. The log included system information would be sent according to specified interval time.</p> <p><b>Format :</b></p> <p>PRODUCT=HSP500:VER=2.00.00;LOGNAME=DVI; DATE=07Mar26;TIME=11:30:00;</p>

Item	Default	Description
		<p>WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02;  WLANMAC=09-00-0e-00-00-03;  IP_ADDRESS=210.66.37.21;  SYS_UP_TIME=14D23H34M21S;WANTXOK=99999;  WANRXOK=99999;WANTXERROR=99999;WANRXERROR=99999;  LANTXOK=99999;LANRXOK=99999;LANTXERROR=99999;  LANRXERROR=99999;WIRELESSTXOK=99999;WIRELESSRXOK=99999;  WIRELESSTXERROR=99999;WIRELESSRXERROR=99999;  WAN_QUALITY=5;</p>
System Up Notice	When system rebooted or restarted	<p>If device have been rebooted or restarted, the log would be sent.</p> <p><b>Format :</b></p> <p>PRODUCT=HSP500;VER=2.00.00;LOGNAME=SUN;  DATE=07Mar26;TIME=15:23:32;  WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02;  WLANMAC=09-00-0e-00-00-03;  IP_ADDRESS=210.66.37.21;  SYS_NAME=Cafehotspot;LOCATION=East;CITY=Taipei;  COUNTRY=Taiwan;  FIRMWARE=v1.01.02;MESSAGE=System_Up;  Message = System_Reboot</p>
System Account Activity Information	When system manager login or logout	<p>A log will be sent if system manager (Administrator) login to or logout from the device</p> <p><b>Format:</b></p> <p>PRODUCT=HSP500;VER=2.00.00;LOGNAME=SUN;  DATE=07Mar26;TIME=15:23:32;  WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02;  WLANMAC=09-00-0e-00-00-03;  IP_ADDRESS=210.66.37.21;  SYS_NAME=Cafehotspot;LOCATION=East;CITY=Taipei;  COUNTRY=Taiwan;  FIRMWARE=v1.01.02;MESSAGE=System_Up;</p> <p><b>Account Name</b> = Admin   Supervisor   Operator</p> <p><b>Status</b>= Login   Logout   Idle_Time_Out</p>
Firmware Update Notice	When firmware update	A log will be sent if firmware update completed

Item	Default	Description
	completed	<p><b>Format:</b></p> <p>PRODUCT=HSP500;VER=2.00.00;LOGNAME=FUN;  DATE=07Mar26;TIME=15:23:32;  WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02;  WLANMAC=09-00-0e-00-00-03;  IP_ADDRESS=210.66.37.21;  MESSAGE=Success;OLD_FIRMWARE=v1.00.01;  NEW_FIRMWARE=v1.00.02</p> <p><b>Message</b> = Success   Fail</p>
Wireless Association Information	Every 10 minute(s)	<p>The range is range 5~60 minutes. A log including wireless users information will be sent according to specified interval time.</p> <p><b>Format:</b></p> <p>PRODUCT=HSP500;VER=2.00.00;LOGNAME=WAI;  DATE=07Mar26;TIME=15:23:32;  WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02;  WLANMAC=09-00-0e-00-00-03;  IP_ADDRESS=210.66.37.21;  USER_NUM=15;SEQ=1-5;USER_MAC=02-34-3e-01-00;</p>
<b>User</b>		
User Login	When user logged-in	<p>A log including users information will be sent when user logged-in</p> <p><b>Format:</b></p> <p>PRODUCT=HSP500;VER=2.00.00;LOGNAME=ULI;DATE=07  Mar26;  TIME=15:23:32;WANMAC=09-00-0e-00-00-01;  LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03;  IP_ADDRESS=210.66.37.21;USER_NAME=asdfg12;USER_IP  =10.59.1.1;  USER_MAC=02-34-3e-01-00;INTERFACE=Ethernet;  USER_TYPE=Dynamic;</p> <p><b>User Type</b> = Dynamic / Super / User Agreement / Radius / No-Auth</p> <p><b>When User Replenish login format:</b></p> <p>PRODUCT=HSP500;VER=2.00.00;LOGNAME=URP;DATE=07  Mar26;  TIME=15:23:32; WANMAC=09-00-0e-00-00-01;  LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03;</p>

Item	Default	Description
		<p>IP_ADDRESS=210.66.37.21;USER_NAME=asdfg12;      REP_USER_NAME=kifm2fs3;USER_IP=10.59.1.1;      USER_MAC=02-34-3e-01-00; INTERFACE=Ethernet;      USER_TYPE=Dynamic;      USED_TIME=24:00:00;TIME_LEFT=24:00:00  <b>User Type</b> = Dynamic / Radius</p>
User Logout	When user logged-out	<p>A log including users information will be sent when user logged –out</p> <p><b>Format:</b></p> <p>PRODUCT=HSP500;VER=2.00.00;LOGNAME=ULO;DATE=07 Mar26;      TIME=15:23:32;WANMAC=09-00-0e-00-00-01;      LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03;      IP_ADDRESS=210.66.37.21;USER_NAME=asdfg12;USER_IP=10.59.1.1;      USER_MAC=02-34-3e-01-00;INTERFACE=Ethernet;      USER_TYPE=Dynamic;RXDATA=1234; TXDATA=1234;      USED_TIME=24:00:00;LOGOUT_TYPE=Time_Up;TIME_LEFT=24:00:00  <b>User Type</b> = Dynamic / Super / User Agreement / Radius / No-Auth</p>
Current User List	Every 10 minute(s)	<p>The range is Range 5~60 minutes. A log including logged-in users information will be sent according to specified interval time</p> <p><b>Format:</b></p> <p>PRODUCT=HSP500;VER=2.00.00;LOGNAME=CUL;DATE=07 Mar26;      TIME=15:23:32;WANMAC=09-00-0e-00-00-01;      LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03;      IP_ADDRESS=210.66.37.21;USER_NUM=0;SEQ=1-5;      USER_NAME=asdfg12,USER_IP=10.59.1.2,USER_MAC=02-34-3e-01-00,      INTERFACE=Ethernet,USER_TYPE=Dynamic,RXDATA=1234,      TXDATA=1234,USED_TIME=24:00:00,SESSION=100,WLAN_SIG=N/A;      USER_NAME=dk6uf2eg,USER_IP=10.59.1.3,USER_MAC=02-34-3e-01-02,</p>

Item	Default	Description
		<p>INTERFACE=Wireless,USER_TYPE=Dynamic,RXDATA=1234 ,</p> <p>TXDATA=1234,USED_TIME=24:00:00,SESSION=100,WLAN_SIG=100%;</p> <p><b>User Type</b> = Dynamic / Super / User Agreement / Radius / No-Auth</p> <p><b>User Name</b> = If the type of user is Super/User Agreement/No-Auth , the username=****</p>
<b>Account and Billing</b>		
Account Information	When an account is created	<p>A log will be sent when an account is created</p> <p><b>Format:</b></p> <p>PRODUCT=HSP500;VER=2.00.00;LOGNAME=ACI;DATE=07 Mar26;</p> <p>TIME=15:23:32;WANMAC=09-00-0e-00-00-01;</p> <p>LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03;</p> <p>IP_ADDRESS=210.66.37.21;USER_NAME=asdfg12;</p> <p>ACCOUNT_TYPE=TimetoFinish;</p> <p>ACCOUNT_SERIAL=000002;</p> <p>ACCOUNT_PRICE= USD20.00;</p> <p>ACCOUNT_USAGE_TIME=10:59:59;</p> <p>BILLING_INDEX=1;BILLING_UNIT=2;</p> <p><b>Account Type</b> = TimeToFinish / Accumulation / PostPaid</p> <p><b>Account Price</b> = <b>Currency</b>xx.xx</p> <p><b>Currency</b> = AUD   CHF   EUR   GBP   JPY   RIY   USD</p>
Billing Amount	When received amount	<p>A log will be sent when received amount</p> <p><b>Format:</b></p> <p>PRODUCT=HSP500;VER=2.00.00;LOGNAME=BLA;</p> <p>DATE=07Mar26;</p> <p>TIME=15:23:32;WANMAC=09-00-0e-00-00-01;</p> <p>LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03;</p> <p>IP_ADDRESS=210.66.37.21;USER_NAME=username;</p> <p>BILL_TYPE=Cash,</p> <p>BILL_AMOUNT= USD50.00</p> <p><b>Billing Type</b>= Cash   Credit_Card; <b>Billing Amount</b> = xx.xx</p> <p><b>Currency</b> = AUD   CHF   EUR   GBP   JPY   RIY   USD.....</p>

Click **Apply** button to save the new settings and the success dialog box appears. Click

on **Back** to return to Logs setting screen.

### 3-2-3-2 Session Trace

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

**SESSION TRACE**

Session Trace : <input type="button" value="Disable"/>											
<b>TFTP Server</b>	<input type="checkbox"/> Enable Primary TFTP Server IP Address <input type="text"/> Secondary TFTP Server IP Address <input type="text"/>										
<b>E-mail Server</b>	<input type="checkbox"/> Enable <table border="1"> <tr> <td>Email Server :</td> <td>IP Address or Domain Name : <input type="text"/></td> </tr> <tr> <td></td> <td>SMTP Port : <input type="text" value="25"/></td> </tr> <tr> <td colspan="2"> <input type="checkbox"/> E-mail (SMTP) server account :            Username : <input type="text"/>            Password : <input type="text"/> </td> </tr> <tr> <td>Email From :</td> <td>Name : <input type="text"/>            Email address : <input type="text"/></td> </tr> <tr> <td>Email To :</td> <td>Email address 1 : <input type="text"/>            Email address 2 : <input type="text"/></td> </tr> </table>	Email Server :	IP Address or Domain Name : <input type="text"/>		SMTP Port : <input type="text" value="25"/>	<input type="checkbox"/> E-mail (SMTP) server account : Username : <input type="text"/> Password : <input type="text"/>		Email From :	Name : <input type="text"/> Email address : <input type="text"/>	Email To :	Email address 1 : <input type="text"/> Email address 2 : <input type="text"/>
Email Server :	IP Address or Domain Name : <input type="text"/>										
	SMTP Port : <input type="text" value="25"/>										
<input type="checkbox"/> E-mail (SMTP) server account : Username : <input type="text"/> Password : <input type="text"/>											
Email From :	Name : <input type="text"/> Email address : <input type="text"/>										
Email To :	Email address 1 : <input type="text"/> Email address 2 : <input type="text"/>										
Send Session Trace log file every <input type="text" value="10"/> minutes. (5~1440) <small>(Note: Session Trace log file will also be sent also when 50 logs are collected)</small>											
<input type="button" value="Apply"/>											

Figure 3-2-18 Session Trace Setting Screen

Item	Default	Description
<b>TFTP Server</b>		
Session Trace	Disable	Disables or enables session trace function.
Primary TFTP Server IP Address	Empty	Enter the IP address of the primary TFTP server.
Secondary TFTP Server IP Address	Empty	Enter the IP address of the second TFTP server.
Send Session Trace log file every~ minutes.	10 minutes	The field means to send the session trace log file every interval minutes. The value range is 5 to 1440 (minutes).
<b>Send to Email</b>	Disable	Enables or disables the send to e-mail function.

Item	Default	Description
<b>E-mail Server</b>		
IP Address or Domain Name	Empty	Enter the SMTP server IP address or domain name. The maximum allowed characters length is 50.
SMTP Port	Empty	The SMTP port allowed range is 25 or 2500 to 2599.
E-mail (SMTP) Server needs to check my account	Disable	If your SMTP server requires authentication before accepting e-mail, click on check box. These values (username and password) are supplied by your network administrator, SMTP server provider or ISP.
Username	Empty	Enter the username for the SMTP server. The maximum allowed characters length is 64.
Password	Empty	Enter the password for the SMTP server
<b>Email From</b>		
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.
<b>Email To</b>		
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.

### 3-2-3-3 Bandwidth

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

**BANDWIDTH**

<b>Bandwidth Management:</b> <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button" value="Disable"/>								
<p>The function enables administrator to limit bandwidth usage on a per user basis (MAC address). That prevents users from consuming a disproportionately large amount of bandwidth so every user gets a fair share of the available bandwidth.</p>								
<p>Please setup the maximum Upstream/Downstream bandwidth</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;">           Maximum Upstream             <input checked="" type="radio"/> 64Kbps <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> </td> <td style="width: 33%; border: none;"> <input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)         </td> <td style="width: 33%; border: none;"> <input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)         </td> </tr> <tr> <td style="border: none;">           Maximum Downstream             <input checked="" type="radio"/> 128Kbps <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> </td> <td style="border: none;"> <input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)         </td> <td style="border: none;"> <input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)         </td> </tr> </table>			Maximum Upstream <input checked="" type="radio"/> 64Kbps <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/>	<input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)	<input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)	Maximum Downstream <input checked="" type="radio"/> 128Kbps <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/>	<input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)	<input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)
Maximum Upstream <input checked="" type="radio"/> 64Kbps <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/>	<input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)	<input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)						
Maximum Downstream <input checked="" type="radio"/> 128Kbps <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/>	<input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)	<input type="radio"/> 64 <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button"/> Kbps(64~5120)						
<input style="border: 1px solid #0070C0; border-radius: 15px; padding: 5px 15px; background-color: #0070C0; color: white; font-weight: bold;" type="button" value="Apply"/>								

Figure 3-2-19 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.

### 3-2-3-4 SNMP

The SNMP Agent Configuration screen enables you to access to your device via Simple Network Management Protocol. If you are not familiar with SNMP, please consult your Network Administrator or consult SNMP reference material. You must first enable SNMP on the SNMP Agent Configuration screen.

Figure 3-2-20 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
Trap Port		
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.

### 3-2-4 Security

#### 3-2-4-1 Pass Through

This function allow administrator to set some special devices pass through the HSP500 system. Because some network devices might be constructed under the HSP500. However these devices needn't be checked and authorized. The HSP500 provides a pass through list and the administrator can control which devices can be pass through with authentication.

**PASS THROUGH**

**Pass Through:**

Pass Through Destination allows the subscribers to access specified Internet websites without authentication, which is useful to promote selected services. Pass Through Subscriber is useful for VIP users without authentication. Pass Through LAN device is also useful for devices that do not have a web browser (cash registers, for example) or that are connected with LAN port (wireless access points, for example).

**Please enter new pass through for destination (up to 20 entries)**

URL or Website:

Start / End IP Address:  ~

**Please enter new pass through for subscribers or LAN devices (up to 20 entries)**

Start / End IP Address:  ~

IP Address:  Subnet Mask:

MAC Address:  Mask: FF-FF-FF-FF-FF-FF

**Description:**  (max 20 characters)

**Pass Through List**

No.	Active	Address List	Type	Description	Delete

Figure 3-2-21 Pass through Setting Screen

Item	Default	Description
Pass Through	Disable	Enables or disables the pass through function.
Destination URL/IP Address Pass Through		
URL or Website	Empty	Enter the URL Page; please use this format such like "http://www.yahoo.com". The maximum character of the URL Page is 50. Note: 1. Please add www.apple.com into PASS THROUGH list in HSP500. (iOS 6 device and later is required.)

Item	Default	Description
		2. Please add go.redirectingat.com for certain QR code apps.
Start / End IP Address	Empty	Enter the start / end IP address of you wants pass through.
Subscriber IP/MAC Address or LAN Device Pass Through		
Start / End IP Address	Empty	Enter the start / end IP address of you wants pass through.
IP Address	Empty	Enter the IP address of you wants pass through.
Subnet Mask	Empty	Enter the subnet mask of you wants pass through.
MAC Address	Empty	Enter the MAC address of you wants pass through.
Mask	Empty	Enter the subnet mask of you wants pass through.
Pass Through List	Display the pass through Information of HSP500.	
No.	-	The index number of pass through address.
Active	Disable	Click on check box, active or inactive the pass through address.
Address List	-	Display the pass through address(s).
Type	-	Display the type of pass through address.
Delete	Disable	Select the check boxes and click 'Delete' to delete the pass through address(s).

Click **Add to List** button to add a new entry. Click **Apply** button to save the new settings. Click **Delete All & Apply** button to delete all entries.

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

### 3-2-4-2 Filtering

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

**FILTERING**

**Filtering**

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

**HTTP Message to display when a website is blocked**

**Please enter new restricted destination** (up to 20 entries)

URL or Website:   
 Start / End IP Address:  ~   
 IP Address:  Subnet Mask:

**Restricted Destination List**

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

Figure 3-2-22 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.
<b>Restrict Destination</b>		
URL or Website	Empty	Enter the URL Page of you wants to filter; please use this format such like "http://www.yahoo.com". The maximum character of the URL Page is 50.
Start IP Address	Empty	Enter the start IP address of you wants to filter.
IP Address	Empty	Enter the destination IP address of you wants to filter.
Subnet Mask	Empty	Enter the destination subnet mask.
No	-	The index number of filtering address.
Active	Disable	Click on check box, active or inactive the filtering address.

Item	Default	Description
Address List	-	Display the filtering address(s).
Delete	Disable	Select the check boxes and click ' <b>Delete</b> ' to delete the filtering address(s).

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

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

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

### 3-2-4-3 Secure Remote

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

**SECURE REMOTE**

<b>Secure Remote:</b> <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button" value="Disable"/>	
<p>This feature allows you to create a secure connection to a remote site or back end system with VPN PPTP Client. When this feature is enable, the RADIUS packet/syslog/HTTP/session trace will be transferred to this secure connection.</p>	
<b>PPTP Client</b>	<input type="checkbox"/> Auto-connect at Start-up (Always connect) PPTP Server IP address : <input type="text"/> Username : <input type="text"/> Password : <input type="text"/> <input type="button" value="Start connection"/>
Status <input style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px;" type="button" value="refresh"/> VPN Tunnel : Offline Client IP :	
<input style="border: 1px solid #0070C0; border-radius: 10px; background-color: #0070C0; color: white; padding: 5px 10px;" type="button" value="Apply"/>	

Figure 3-2-23 Secure Remote Setting Screen

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

Click **refresh** button to delete all entries.

### 3-2-5 System

#### 3-2-5-1 System

Define the HSP500 System configuration.

SYSTEM																					
System/Host Name	<input type="text"/> (Max.=50)																				
Domain Name	<input type="text"/> (Max.=50)																				
Location Information	Location Name: <input type="text"/> (Max.=50)																				
	Address: <input type="text"/> (Max.=200)																				
	City: <input type="text"/> (Max.=50)																				
	State / Province: <input type="text"/> (Max.=50)																				
	Zip / Postal Code: <input type="text"/> (Max.=10)																				
	Country: <input type="text"/> (Max.=50)																				
	Contact Name: <input type="text"/> (Max.=50)																				
	Contact Telephone: <input type="text"/> (Max.=50)																				
	Contact FAX: <input type="text"/> (Max.=50)																				
	Contact Email: <input type="text"/> (Max.=50)																				
Date/Time	Time Zone: <input type="button" value="GMT"/> <input type="radio"/> Manual Setting																				
	Date: <input type="button" value="2014"/> / <input type="button" value="09"/> / <input type="button" value="22"/> (Year/Month/Day)																				
	Time: <input type="button" value="07"/> : <input type="button" value="08"/> : <input type="button" value="56"/> (Hour : Minute : Second)																				
	<input type="radio"/> NTP Setting	Date: 2014/09/22 Time: 07:08:56 <input type="button" value="Update Now"/>																			
	Server IP/Domain Name 1	<input type="text" value="time.nist.gov"/> Success																			
	Server IP/Domain Name 2	<input type="text" value="www.nist.gov"/> Fail																			
	Update Time	<input type="text" value="0"/> hours																			
	<input type="checkbox"/> Daylight Saving Time	Start Date: <input type="button" value="4"/> Month / <input type="button" value="1"/> Day End Date: <input type="button" value="10"/> Month / <input type="button" value="31"/> Day																			
	NAT (Network Address Translation)	<input type="radio"/> Enable <input checked="" type="checkbox"/> IP Plug and Play <input type="radio"/> Disable																			
	Session Limit	<input type="radio"/> Enable <input type="text" value="300"/> (1~1024) <input type="radio"/> Disable																			
Layer 2 Isolation Security	<input type="radio"/> Enable <input type="radio"/> Disable																				
Secure administrator IP addresses	<input type="radio"/> Any <input type="radio"/> Specific <table border="1"> <tr><td>1</td><td><input type="text"/></td><td>~</td><td><input type="text"/></td></tr> <tr><td>2</td><td><input type="text"/></td><td>~</td><td><input type="text"/></td></tr> <tr><td>3</td><td><input type="text"/></td><td>~</td><td><input type="text"/></td></tr> <tr><td>4</td><td><input type="text"/></td><td>~</td><td><input type="text"/></td></tr> <tr><td>5</td><td><input type="text"/></td><td>~</td><td><input type="text"/></td></tr> </table>	1	<input type="text"/>	~	<input type="text"/>	2	<input type="text"/>	~	<input type="text"/>	3	<input type="text"/>	~	<input type="text"/>	4	<input type="text"/>	~	<input type="text"/>	5	<input type="text"/>	~	<input type="text"/>
1	<input type="text"/>	~	<input type="text"/>																		
2	<input type="text"/>	~	<input type="text"/>																		
3	<input type="text"/>	~	<input type="text"/>																		
4	<input type="text"/>	~	<input type="text"/>																		
5	<input type="text"/>	~	<input type="text"/>																		
Multicast Pass Through	<input type="radio"/> Enable <input type="radio"/> Disable																				
Allow remote user to ping the device	<input type="radio"/> Enable <input type="radio"/> Disable																				
SSL Certificate	<input type="radio"/> Default <input type="radio"/> Customer Certificate																				
Multi-Press	<input type="radio"/> Enable <input type="radio"/> Disable																				
<input type="button" value="Apply"/>																					

Figure 3-2-24 System Setting Screen

Item	Default	Description
System/Host Name	Empty	The system name can consist of up to <b>50</b> alphanumeric characters.
Domain Name	Empty	The Domain name can consist of up to <b>50</b> alphanumeric characters.
Location Information	Empty	Enter your location information.
<b>Date/Time</b>		
Time Zone	GMT	Select the appropriate time zone for your location.
Manual Setting	Click <b>Manual Setting</b> to set the system date and time.	
Date	Year/Month/Day	Enter the Date for the system.
Time	Hour:Minute:Second	Enter the Time for the system.
NTP Setting	Enable	Enables or disables NTP (Network Time Protocol) Time Server. Network Time Protocol can be utilized to synchronize the time on devices across a network. A NTP Time Server is utilized to obtain the correct time from a time source and adjust the local time.
Server IP/Domain Name	Empty	Enter the IP address/domain name of NTP server. The maximum allowed characters length is 100.
Update Time	0 hours	Enter the number of hours for update time.
Daylight Saving Time	Disable	Enables or disables Daylight Saving Time (DST).
	Month/Day	Set the Daylight Saving Time (DST) on the HSP500. Adjust the begin time and end time.
<b>NAT (Network Address Translation)</b>		
NAT	Enable	Enables or disables NAT Address Translation function.
User Session Limited	Enable,300	Enables or disables user session limit function. This feature provides you an ability to control a number of sessions allowed for particular user(s) at the one time.
IP Plug and Play (iPnP Technology)	Enable	Enables or disables plug & play function. When enabled, the user needn't change their network configuration to access the Internet.
Layer 2 Isolation Security	Enable	If enable plug and play is selected, you can enable Layer 2 Isolation Security function. When the "Layer 2 Isolation Security" enabled, everyone cannot communicate with each other.
Secure administrator IP Addresses	Any	Options: Any and Specify. Administrator can specify 5 IP addresses or a range to allow remote control access from

Item	Default	Description
		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 HSP500 through Internet. Ping is normally used to test the physical connection between two devices, to ensure that everything is working correctly.
SSL Certificate	Disable	Option: default or customize certificate, These are two ways to create a certificate, one is purchase a certificate from a certificate authority (Ex. Verisign or Thawte), and another is creating a self-certificate (For example: Uses OpenSSL tool).
Multi-Press	Enable	If the Multi-Press is enabled, the unit on the ticket will equal to the times of press at one time. So the venue could control the unit on each ticket by Multi press function.  If the Multi-Press is disabled, The unit on ticket will not be affected by the times of button pressed. It means no matter how many times the button has been pressed at one time, the unit on the ticket will stay as 1.

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

## 3-2-5-2 WAN/LAN

WAN / LAN	
LAN	<b>Device IP Address and Subnet mask settings</b> IP Address: <input type="text" value="10.59.1.1"/> Subnet Mask: <input type="text" value="255.255.255.0"/>
WAN MAC Address	<input checked="" type="radio"/> Default <input type="radio"/> Change to: <input type="text" value="00"/> : <input type="text" value="00"/> : <input type="text" value="00"/> : <input type="text" value="00"/> : <input type="text" value="00"/>
WAN MTU Setting	Wan Port Maximum Transmission Unit <input type="text" value="1500"/>
WAN Port Mode	<input checked="" type="radio"/> <b>DHCP Client</b> ( Mostly for Cable modem users or Local Area Network ) <input type="radio"/> <b>Static IP</b> ( Mostly for advanced Local Area Network environment ) <b>Static IP information (from your ISP)</b> IP Address: <input type="text" value="0.0.0.0"/> Subnet Mask: <input type="text" value="0.0.0.0"/> Gateway IP address: <input type="text" value="0.0.0.0"/> Primary DNS Server: <input type="text"/> Secondary DNS Server: <input type="text"/>  <input type="radio"/> <b>PPPoE</b> ( Usually for ADSL modem users ) <b>Your ISP requires a username and password.</b> Username: <input type="text"/> Password: <input type="text"/> PPP MTU Setting: <input type="text" value="1492"/> TCP MSS Setting: <input type="text" value="1452"/> Service Name: <input type="text"/> <input checked="" type="radio"/> <b>Connect on Demand</b> Max Idle Time: <input type="text" value="10"/> Min. <input type="radio"/> <b>Keep alive</b> Redial Period: <input type="text" value="30"/> Sec.  <input type="radio"/> <b>PPTP</b> (Usually for Europe ADSL modem users ) <b>Your ISP requires a username, password, and PPTP setting</b> My IP Address: <input type="text"/> My Subnet Mask: <input type="text"/> Gateway IP address: <input type="text"/> PPTP Server IP Address: <input type="text"/> Username: <input type="text"/> Password: <input type="text"/> PPP MTU Setting: <input type="text" value="1460"/> TCP MSS Setting: <input type="text" value="1400"/> Connection ID/Name: <input type="text"/> <input checked="" type="radio"/> <b>Connect on Demand</b> Max Idle Time: <input type="text" value="10"/> Min. <input type="radio"/> <b>Keep alive</b> Redial Period: <input type="text" value="30"/> Sec.
<input type="button" value="Apply"/>	

Figure 3-2-25 WAN/LAN Setting Screen

Item	Default	Description
<b>LAN</b>		
IP Address	10.59.1.1	The internal LAN IP address of your HSP500.
Subnet Mask	255.255.255.0	Enter the subnet mask for the IP address.
<b>WAN MAC Address</b>		
IP Address	The default MAC address is set to the WAN physical interface on device.	
<b>DHCP Client</b>	The device can work as a DHCP client. This allows the device to obtain the IP address and other TCP/IP settings from your ISP. If your xDSL/Cable comes with this feature, please enable Use DHCP Client.	
<b>Static IP</b>		
IP Address	Enter the IP address for the xDSL/Cable connection (provided by your ISP).	
Subnet Mask	Enter the subnet mask for the IP address.	
Gateway IP Gateway	Enter the Gateway IP address for the xDSL/Cable connection (provided by your ISP).	
Primary DNS Server	A primary DNS server IP address for the xDSL/Cable connection (provided by your ISP).	
Secondary Server	DNS	A secondary DNS server IP address for the xDSL/Cable connection (provided by your ISP). If the primary DNS Server IP were not available, meanwhile, Secondary DNS Server IP would start in the same time.
<b>PPPoE</b>		
User Name	Empty	Enter your PPPoE account name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter your PPPoE password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1492	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1452	MSS (Maximum Segment Size) specifies maximum segment size.
Service Name	Empty	Enter the service name provided by your ISP. The service name can consist of up to 64 alphanumeric characters and is case sensitive.
<b>Connect on Demand</b>	Enable	You can configure your HSP500 to cut your connection with your ISP after a specified period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect on Demand enables your HSP500 to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
<b>Max Idle Time</b>	10 Minutes	
<b>Keep alive</b>	Disable	This option keeps your PPPoE enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
<b>Redial Period</b>	30 Seconds	

### 3-2-5-3 Server

#### Server

**SERVER**

**Server**      **Static DHCP Table**

<b>Web Server</b>	<input checked="" type="radio"/> <b>HTTP Port:</b> <input type="text" value="80"/> (80,8010-8060) <input type="radio"/> <b>HTTPS Port:</b> <input type="text" value="443"/> (443,4430-4440) <b>Administrator Idle-Timeout:</b> <input type="text" value="5"/> Min(s) (1 - 1440) <b>Account Manager Idle-Timeout:</b> <input type="text" value="5"/> Min(s) (1 - 1440)					
<b>DHCP Server</b>	<input type="radio"/> <b>DHCP Disable</b> <input checked="" type="radio"/> <b>DHCP Relay</b> <input type="text"/> <b>DHCP Server IP Address:</b> <input type="text"/> <input checked="" type="radio"/> <b>DHCP Server</b> <table border="1"> <tr> <td><b>IP Pool Starting Address:</b> <input type="text" value="10.59.1.2"/></td> </tr> <tr> <td><b>Pool Size:</b> <input type="text" value="253"/> (Max=253)</td> </tr> <tr> <td><b>Lease Time:</b> <input type="text" value="300"/> (Minutes)</td> </tr> <tr> <td><b>Primary DNS Server:</b> <input type="text" value="168.95.1.1"/></td> </tr> <tr> <td><b>Secondary DNS Server:</b> <input type="text"/></td> </tr> </table>	<b>IP Pool Starting Address:</b> <input type="text" value="10.59.1.2"/>	<b>Pool Size:</b> <input type="text" value="253"/> (Max=253)	<b>Lease Time:</b> <input type="text" value="300"/> (Minutes)	<b>Primary DNS Server:</b> <input type="text" value="168.95.1.1"/>	<b>Secondary DNS Server:</b> <input type="text"/>
<b>IP Pool Starting Address:</b> <input type="text" value="10.59.1.2"/>						
<b>Pool Size:</b> <input type="text" value="253"/> (Max=253)						
<b>Lease Time:</b> <input type="text" value="300"/> (Minutes)						
<b>Primary DNS Server:</b> <input type="text" value="168.95.1.1"/>						
<b>Secondary DNS Server:</b> <input type="text"/>						
<b>Email Server Redirect</b>	<input type="text"/> <b>IP Address or Domain Name:</b> <input type="text"/> <b>SMTP Port:</b> <input type="text"/> (25, 2500 - 2599)					
<input type="button" value="Apply"/>						

Figure 3-2-26 Server Setting Screen

Item	Default	Description
<b>Web Server</b>		
<b>HTTP Port</b>	80	Enter the HTTP port number. The HTTP port allowed range is 80 or 8010 to 8060. For access the HSP500 system under NAT, please tab the “ <a href="http://HTTP Port IP Address: Port Number">http://HTTP Port IP Address: Port Number</a> ”.
<b>HTTPS Port</b>	443	Enter the HTTPS port number. The HTTPS port allowed range is 443 or 4430 to 4440. For access the HSP500 system, please tab the “ <a href="https://HTTPS Port IP Address: Port Number">https://HTTPS Port IP Address: Port Number</a> ”.
<b>Administrator Idle-Timeout</b>	5 Minutes	The idle time out valid range is 1-1440. If the idle time out is set as 5 minutes, it means if the administrator doesn't send packet in 5 minutes, the administrator will logout automatically.
<b>DHCP Server</b>	Enable	There are three types of DHCP Services. DHCP Disable—Disable the DHCP server function. DHCP Relay—Enable DHCP Relay function.

Item	Default	Description
		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 HSP500's DHCP server is turned on and running by default when you install it in your network.
DHCP Pool Starting Address	10.59.1.2	Enter the DHCP Pool Starting IP address.
Pool Size	253	The DHCP pool size range is 1 to 512.
Lease Time	300 Minutes	The DHCP lease time. The DHCP lease time range is 1 to 71582788 minutes.
Primary DNS Server	168.95.1.1	Enter the IP address of the network's primary DNS server.
Secondary DNS Server	Empty	Enter the IP address of a second DNS server on the network.
Email Server Redirect		<p>To prevent some subscriber's original Email server may protect by firewall or NAT network. HSP500 provides an extra Email server parameter to forward the subscriber's Email. The HSP500 not only forwards the subscribers' E-mail via other E-mail server but also changes the SMTP header. The recipient of your E-mail sees the message as if you sent it from your local Internet Service Provider, not from the hotel or other place.</p> <p>Note: Before setting this sever, please make sure the e-mail sever relay function is opened. It must not exceed 50 characters.</p>
IP Address or Domain Name	Empty	Enter the E-mail server IP address or domain name.
SMTP Port	25	Enter the SMTP port number for mail server. The SMTP port allowed range is 25 or 2500 to 2599.

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

### Static DHCP

This function allows subscriber to assign IP address on the LAN to specific individual computers based on their MAC Address.

	IP	MAC		IP	MAC
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

**Apply**

Figure 3-2-27 Server Setting Screen

Item	Default	Description
IP Address	Empty	Enter the IP address that subscriber want to assign to the computer on LAN with the MAC address the subscriber will also specify.
MAC Address	Empty	Enter the MAC address of a computer on your LAN.

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

### 3-2-5-4 Customization

#### Login Page

The HSP500 provides three different login page formats, including standard, redirect, advanced and frame format.

**CUSTOMIZATION**

[Login Page](#) [Logo](#) [Information Window](#) [Account Printout](#) [Credit Card](#) [User Agreement Page](#)

Choose a login page type:																					
<input type="radio"/> <b>Standard</b>	<p>Custom the message on the <b>standard</b> login page:</p> <table border="1"> <tr> <td><input type="checkbox"/> Logo</td> <td></td> </tr> <tr> <td>Title</td> <td><input type="text" value="Welcome"/> (Max. 80 characters)</td> </tr> <tr> <td>Subtitle</td> <td><input type="text" value="Wireless Subscriber Gateway"/> (Max. 80 characters)</td> </tr> <tr> <td>Username</td> <td><input type="text" value="Username"/> (Max. 20 characters)</td> </tr> <tr> <td>Password</td> <td><input type="text" value="Password"/> (Max. 20 characters)</td> </tr> <tr> <td>Enter Button</td> <td><input type="text" value="Enter"/> (Max. 20 characters)</td> </tr> <tr> <td>Cancel Button</td> <td><input type="text" value="Cancel"/> (Max. 20 characters)</td> </tr> <tr> <td><input type="checkbox"/> Footnote</td> <td><input type="text" value="Contact us if you have any qu..."/> (Max. 240 characters)</td> </tr> <tr> <td><input checked="" type="checkbox"/> Copyright</td> <td><input type="text" value="Copyright (c) 2013-2015 All F..."/> (Max. 80 characters)</td> </tr> <tr> <td>Background Color</td> <td><input type="text" value="FFFFFF"/> <a href="#">View Color Grid</a></td> </tr> </table> <p><a href="#">Preview Standard Login Page</a></p>	<input type="checkbox"/> Logo		Title	<input type="text" value="Welcome"/> (Max. 80 characters)	Subtitle	<input type="text" value="Wireless Subscriber Gateway"/> (Max. 80 characters)	Username	<input type="text" value="Username"/> (Max. 20 characters)	Password	<input type="text" value="Password"/> (Max. 20 characters)	Enter Button	<input type="text" value="Enter"/> (Max. 20 characters)	Cancel Button	<input type="text" value="Cancel"/> (Max. 20 characters)	<input type="checkbox"/> Footnote	<input type="text" value="Contact us if you have any qu..."/> (Max. 240 characters)	<input checked="" type="checkbox"/> Copyright	<input type="text" value="Copyright (c) 2013-2015 All F..."/> (Max. 80 characters)	Background Color	<input type="text" value="FFFFFF"/> <a href="#">View Color Grid</a>
<input type="checkbox"/> Logo																					
Title	<input type="text" value="Welcome"/> (Max. 80 characters)																				
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Username	<input type="text" value="Username"/> (Max. 20 characters)																				
Password	<input type="text" value="Password"/> (Max. 20 characters)																				
Enter Button	<input type="text" value="Enter"/> (Max. 20 characters)																				
Cancel Button	<input type="text" value="Cancel"/> (Max. 20 characters)																				
<input type="checkbox"/> Footnote	<input type="text" value="Contact us if you have any qu..."/> (Max. 240 characters)																				
<input checked="" type="checkbox"/> Copyright	<input type="text" value="Copyright (c) 2013-2015 All F..."/> (Max. 80 characters)																				
Background Color	<input type="text" value="FFFFFF"/> <a href="#">View Color Grid</a>																				
<input type="radio"/> <b>Redirect</b>	Redirect Login Page URL : <input type="text"/> <a href="#">Code</a>																				
<input type="radio"/> <b>Advanced</b>	<table border="1"> <tr> <td>Welcome Slogan</td> <td></td> </tr> <tr> <td>Page Background</td> <td> <input type="radio"/> None  <input type="radio"/> Background Color <input type="text" value="ffffff"/> <a href="#">View Color Grid</a> </td> </tr> <tr> <td>Article</td> <td><input type="text"/></td> </tr> <tr> <td>Article Text Color</td> <td><input type="text" value="000000"/> <a href="#">View Color Grid</a></td> </tr> <tr> <td>Article Background Color</td> <td> <input type="radio"/> None  <input type="radio"/> <input type="text" value="ffffff"/> <a href="#">View Color Grid</a> </td> </tr> <tr> <td>Information</td> <td><input type="text"/></td> </tr> <tr> <td>Comments</td> <td><input type="text"/></td> </tr> </table>	Welcome Slogan		Page Background	<input type="radio"/> None <input type="radio"/> Background Color <input type="text" value="ffffff"/> <a href="#">View Color Grid</a>	Article	<input type="text"/>	Article Text Color	<input type="text" value="000000"/> <a href="#">View Color Grid</a>	Article Background Color	<input type="radio"/> None <input type="radio"/> <input type="text" value="ffffff"/> <a href="#">View Color Grid</a>	Information	<input type="text"/>	Comments	<input type="text"/>						
Welcome Slogan																					
Page Background	<input type="radio"/> None <input type="radio"/> Background Color <input type="text" value="ffffff"/> <a href="#">View Color Grid</a>																				
Article	<input type="text"/>																				
Article Text Color	<input type="text" value="000000"/> <a href="#">View Color Grid</a>																				
Article Background Color	<input type="radio"/> None <input type="radio"/> <input type="text" value="ffffff"/> <a href="#">View Color Grid</a>																				
Information	<input type="text"/>																				
Comments	<input type="text"/>																				
<input type="radio"/> <b>Frame</b>	<table border="1"> <tr> <td>Top Frame</td> <td>URL : <input type="text" value="http://"/> <input type="button" value=""/></td> </tr> <tr> <td>Bottom Frame</td> <td>This frame will show the standard login page</td> </tr> </table>	Top Frame	URL : <input type="text" value="http://"/> <input type="button" value=""/>	Bottom Frame	This frame will show the standard login page																
Top Frame	URL : <input type="text" value="http://"/> <input type="button" value=""/>																				
Bottom Frame	This frame will show the standard login page																				
<a href="#">Apply</a>																					

Figure 3-2-28 Customization Setting Screen

Item	Default	Description
<b>Standard</b>		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.
Logo	Disable	Select the check box to display service provider's logo.
Title	Welcome	Enter the title name of subscriber login page. The maximum allowed characters length is 80.
Subtitle	Hot Spot Internet Service	Enter the subtitle name of subscriber login page. The maximum allowed characters length is 80.
Footnote	Disable	Allow the administrator to input the footnote such like "Please Contact to our Customer Service Center, EXT 141". The maximum character of the footnote is 240.
Copyright	Enable	The copyright is allowed the administrator to input a paragraph in the subscriber login page for copyright information. The maximum character of the copyright is 80.
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.
<b>Redirect</b>		This allow service provider to redirect the subscriber's browser to a specified home page.
Copy and paste the following HTML Code into your home page to produce redirect subscriber login page.		

Figure 3-2-29 Login Page Screen

Item	Default	Description
<b>Redirect Login Page Code</b>		
<pre> &lt;html&gt; &lt;body style="font-family: Arial" bgcolor="#FFFFFF"&gt; &lt;form method="post" action="http://1.1.1.1/login.cgi" name="apply"&gt; &lt;div align="center"&gt; &lt;table cellSpacing="0" borderColorDark="#FFFFFF" cellPadding="4" width="50%" bgColor="#F7F7F7" borderColorLight="#99dca0" border="1"&gt; &lt;tr&gt; &lt;td align="center" width="100%" bgColor="#d7f0d7" colSpan="2"&gt; &lt;font size="2"&gt;&lt;b&gt;Welcome&lt;/b&gt;&lt;/font&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td align="right" width="35%" bgColor="#eaeaea"&gt; &lt;font color="#000080" size="2"&gt;&lt;b&gt;Username:&lt;/b&gt;&lt;/font&gt; &lt;/td&gt; &lt;td width="65%"&gt; &lt;input type="text" name="username" size="25"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td align="right" width="35%" bgColor="#eaeaea"&gt; &lt;font color="#000080" size="2"&gt;&lt;b&gt;Password:&lt;/b&gt;&lt;/font&gt; &lt;/td&gt; &lt;td width="65%"&gt; &lt;input type="password" name="password" size="25"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td align="center" width="100%" colspan="2"&gt; &lt;input type="submit" name="apply" value="Enter" style="font-family: Arial"&gt; &lt;input type="reset" name="clear" value="Clear" style="font-family: Arial"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;/table&gt; &lt;/div&gt; &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>		
<input style="width: 60px; height: 20px;" type="button" value="Apply"/>		
<b>Figure 3-2-30 Preview Redirect Login Page Code</b>		
<b>Advanced</b>	This function allow user to design login page of HSP500.	
Welcome Slogan	Welcome	The maximum allowed characters length is 80.
Page Background	None	The page background can be none or specified color. For the background color format please views the color grid. The allowed format is Hexadecimal.
Article	Empty	The article is allowed the administrator to input a paragraph in the subscriber login page for advisement or announcement. The maximum character of the article is 1024.
Article Text Color	000000	The article text color can be specified color. For the specified text color format please views the color grid. The allowed format is Hexadecimal.
Article Background Color	None	The article background can be specified color. For the background color format please views the color grid. The allowed format is Hexadecimal.
Information	Empty	Allow the administrator to input the text information such like address, telephone number and fax information. The maximum character of the information is 80.
Comments	Empty	Allow the administrator to input the text comments such like "Please Contact to our Customer Service Center, EXT 141". The maximum character of the comment is 80.
<b>Frame</b>	If "Frame" is selected the subscriber login page will be separate into Top Frame and	

Item	Default	Description
	Bottom Frame.  Bottom Frame is a default format for username and password input, Top Frame is allowed to be specified a URL to link.	
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 3-2-31 Example-Login Page Screen

### Logo

This function allows service provider to upload the customer's logo image file which can be shown on the standard login page.

**CUSTOMIZATION**

[Login Page](#) **Logo** [Information Window](#) [Account Printout](#) [Credit Card](#) [User Agreement Page](#)

Upload a logo image to be shown on the standard login page and account printout.

[Select](#) [Delete](#)

Maximum file size is 60 kbytes. Recommended dimension is approximately 200x50 pixels.

[Apply](#)

Figure 3-2-32 Logo Setting Screen

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

Click **Apply** button to save the logo file to system.

Click **Delete** button to delete the logo file.

### Information Window

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

#### **CUSTOMIZATION**

Customize the pop-up message that appears after successful subscriber login. The subscriber can type <http://1.1.1.1/info> to open this window again.

**Display Information Window after a subscriber logs in successfully**

Information Window Type	<input type="radio"/> Redirect
	<input checked="" type="radio"/> Pop Up <input checked="" type="checkbox"/> Allow subscriber to close the pop-up window

**Information Window Contents**

Window Name	Information Window <small>(Max. 30 character)</small>
Main message	You can use Internet now! <small>(Max. 30 character)</small>
Message Description	This is an information window. <small>(Max. 150 character)</small>
Time count label	Remaining Usage <small>(Max. 30 character)</small>
Warning/Alarm message	If you want to stop using the <small>(Max. 150 character)</small>
Notice Message	Notice Text 1 Notice! Notice Text 2 If you are using a VPN (virtu) Notice Text 3

[Preview](#) [Apply](#)

Figure 3-2-33 Example-Login Page Screen

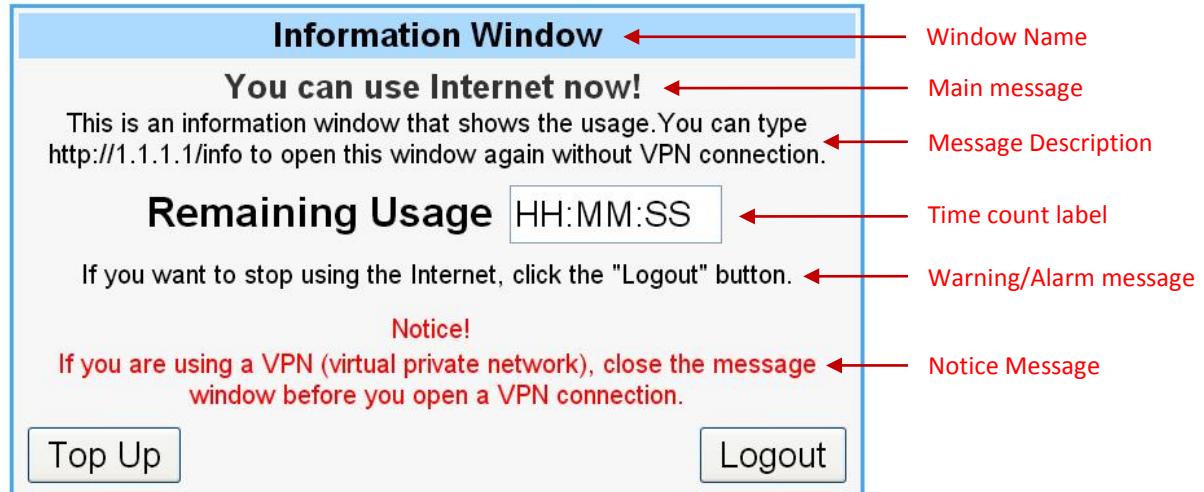


Figure 3-2-34 Information Window

*Billing Type=Time to Finish*

*Can be topped up by subscriber=Enable*



Figure 3-2-35 Information Window

*Billing Type=Accumulation*

*Can be topped up by subscriber=Disable*



Figure 3-2-36 Information Window

*Billing Type=Accumulation*

*Can be topped up by subscriber=Enable*



Figure 3-2-37 Information Window

### Account Printout

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

The image shows the 'Account Printout' customization setting screen. At the top, there is a navigation bar with tabs: CUSTOMIZATION, Login Page, Logo, Information Window, Account Printout (which is selected and highlighted in blue), Credit Card, and User Agreement Page. The main area contains several configuration sections:

- Title:** Two radio button options: 'Format 1: Welcome!' and 'Format 2: ' (Max=75).
- Subtitle:** Two radio button options: 'Format 1: WG-500P' and 'Format 2: ' (Max=60).
- Username:** Text input field for 'Username' (Max=24).
- Password:** Text input field for 'Password' (Max=24).
- Billing Method:** Text input field for 'Billing' (Max=24) and 'Time to Finish' (Max=24), and a 'Accumulation' field (Max=24).
- Billing Profile:** Text input field for 'Service' (Max=24).
- Purchase Unit:** Text input field for 'Unit' (Max=24).
- Usage Time:** Text input field for 'Usage Time' (Max=24).
- Price:** Text input field for 'Total' (Max=24).
- Tax:** Text input field for 'Tax' (Max=24) and 'TOTAL' (Max=24).
- ESSID:** Text input field for 'ESSID' (Max=24).
- Wireless Security:** Text input fields for 'WPA' (Max=24), 'WPA2' (Max=24), and 'MiMoMode' (Max=24).
- Additional Label 1:** Text input field for 'Label' (Max=24) and 'Value' (Max=24).
- Additional Label 2:** Text input field for 'Label' (Max=24) and 'Value' (Max=24).
- Print out Time:** A section with 'Format' dropdowns for 'yyyy/mm/dd' and 'HH: mm : ss' (Max=24), and a 'Description' field (Max=24). It also includes a note: 'Activate your account before:' and 'Please finish your usage time within 3 months after your last login.' Below this is an 'Expiration Time' section with similar format dropdowns and a note: 'Please finish your usage time within 3 months after your last login.' There is also an 'Accumulation' field (Max=24x4).
- Ending:** A text input field for 'Thank you' (Max=24x10).
- QR Code:** A checkbox labeled 'Printout the QR Code'.
- Preview:** A link labeled 'Preview of account generator printer output'.
- Buttons:** A 'Preview' button and an 'Apply' button.

Figure 3-2-38 Account Printout Customization Setting Screen

**Note:** If you don't print out QR code on the ticket, please disable "QR Code".

**Credit Card****CUSTOMIZATION**Login Page | Logo | Information Window | Account Printout | **Credit Card** | User Agreement Page

<b>Standard Login Page</b>		Customize the additional credit card message for the standard login page:	
		Credit Card Message	or Click here to pay by credit card (Max:80 characters)
		<a href="#">Preview Standard Login Page</a>	
<b>Service Selection Page</b>		Customize the message for the service selection page	
		Service Selection Message	Choose from the following (Max:80 characters)
		Purchase Unit Message	How much Internet access (Max:80 characters)
		Notification Message 1	*Note: There is no refund or (Max:160 characters)
		Notification Message 2	*Please note that time block (Max:160 characters)
		Notification Message 3	(Max:160 characters)
		Enter Payment Information	Enter Payment Information (Max:160 characters)
		Enter Credit Card Number	Credit card number: (Max:80 characters)
		Enter Credit Card expiration date	Credit card expiration date: (Max:80 characters)
		<input type="checkbox"/> Card Verification Value	Security code: (Max:80 characters)
		Enter Email Address	Enter Email Address: (Max:80 characters)
		Email Button	Email this webpage to my (Max:40 characters)
		Submit Button	Submit Transaction and Log in (Max:40 characters)
<b>Additional Customer Data</b>			
Merchants may provide additional customer information with a transaction, based on their respective requirements.			
		<input type="checkbox"/> Credit Card Code	Credit Card Code: (Max:80 characters)
		<input type="checkbox"/> Customer ID	Customer ID: (Max:40 characters)
		<input type="checkbox"/> First/Last Name	First Name: (Max:20 characters) Last Name: (Max:20 characters)
		<input type="checkbox"/> Company	Company: (Max:40 characters)
		<input type="checkbox"/> Address	Address: (Max:40 characters)
		<input type="checkbox"/> City	City: (Max:40 characters)
		<input type="checkbox"/> State/Province	State/Province: (Max:40 characters)
		<input type="checkbox"/> ZIP/Postal Code	ZIP/Postal Code: (Max:40 characters)
		<input type="checkbox"/> Country	Country: (Max:40 characters)
		<input type="checkbox"/> Phone	Phone: (Max:40 characters)
		<input type="checkbox"/> Fax	Fax: (Max:40 characters)
<a href="#">Preview of Service Selection Page</a>			
<b>Successful Page</b>		Customize the message for the successful page	
		Successful Message	You may now use the Internet (Max:80 characters)
		Notification Message 1	IMPORTANT! Make a note (Max:160 characters)
		Notification Message 2	(Max:160 characters)
		Account Information	This is your account information (Max:160 characters)
		Username	Your username is (Max:80 characters)
		Password	Your password is (Max:80 characters)
		Usage Time	Your usage time is (Max:80 characters)
		Please activate your account (Max:80 characters)	
		Format :	
		Expiration Time	yyyy/mm/dd <input style="width: 100px; height: 20px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px;" type="button" value="..."/> (HH:24h hh:12h tt:AM/PM)
		Email Button	E-mail this webpage to my (Max:40 characters)
		Submit Button	Use this account to LOGIN (Max:40 characters)
<a href="#">Preview of Successful Page</a>			
<b>Fail Page</b>		Customize the message for the fail page	
		Notification Message 1	Your card could not be processed (Max:160 characters)
		Notification Message 2	Please enter a different credit card number (Max:160 characters)
		Notification Message 3	Thank you! (Max:160 characters)
		Try Again Button	Try Again (Max:40 characters)
<a href="#">Preview of Fail Page</a>			
<input style="width: 100px; height: 20px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px;" type="button" value="Apply"/>			

Figure 3-2-39 Credit Customization Setting Screen

Item	Description
<b>Standard Login Page</b>	This function allow service provider to customize the additional credit card message for the standard login page.
<b>Service Selection Page</b>	This function allow service provider to customize the additional credit card message for the standard login page.
<b>Fail Page</b>	This function allow service provider to customize the message for the fail page.

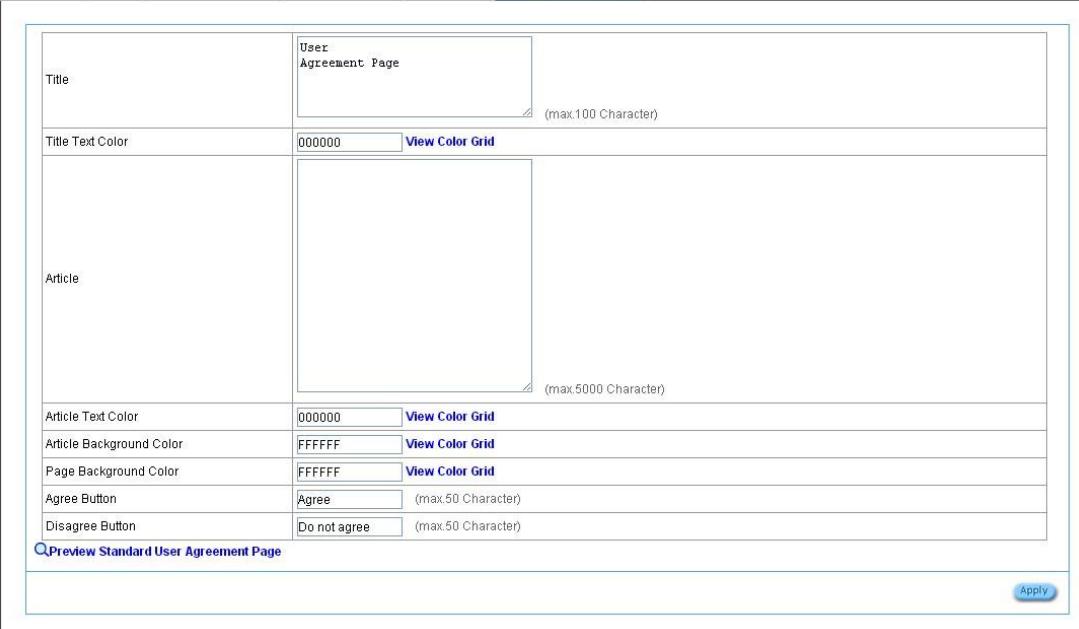
Click **Apply** button, the success dialog box appears. Click on **Back** to return to Credit Card Customization setting screen.

### User Agreement Page

This function allow user to design user agreement page of Internet Subscriber Server.

**CUSTOMIZATION**

[Login Page](#) [Logo](#) [Information Window](#) [Account Printout](#) [Credit Card](#) [User Agreement Page](#)



The screenshot shows a web-based configuration interface for the User Agreement Page. At the top, there is a navigation bar with tabs: Login Page, Logo, Information Window, Account Printout, Credit Card, and User Agreement Page (which is highlighted in blue). Below the navigation bar, there are several configuration sections:

- Title:** A text input field containing "User Agreement Page" with a note "(max.100 Character)" below it.
- Title Text Color:** A color picker with the hex code "000000" and a "View Color Grid" link.
- Article:** A large text area for the user agreement content, with a note "(max.5000 Character)" below it.
- Article Text Color:** A color picker with the hex code "000000" and a "View Color Grid" link.
- Article Background Color:** A color picker with the hex code "FFFFFF" and a "View Color Grid" link.
- Page Background Color:** A color picker with the hex code "FFFFFF" and a "View Color Grid" link.
- Agree Button:** A text input field containing "Agree" with a note "(max.50 Character)" below it.
- Disagree Button:** A text input field containing "Do not agree" with a note "(max.50 Character)" below it.

At the bottom of the configuration area, there is a "Preview Standard User Agreement Page" link and an "Apply" button.

Figure 3-2-40 User Agreement Page Setting Screen

### 3-2-5-5 Portal Page

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



PORTAL PAGE

Set to redirect subscriber to a portal page after successful login.

URL Link URL :

Figure 3-2-41 Portal Page Setting Screen

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

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

### 3-2-5-6 Advertisement

The system allow service provider to input 5 URL links for advertisement link purpose.

**ADVERTISEMENT**

Specify URLs for advertisements. Advertisements are displayed at the start of network access.

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

Figure 3-2-42 Advertisement URL Link Setting Screen

Item	Default	Description
Frequency	One Time Only	One Time Only—One Time Only means to send the advertisement link once after the subscriber Login. Every~Min(s)—The field means to send the advertisement link every interval minutes. The value range is 1 to 60 (minutes).
Sequence	Randomly	Randomly—Display the advertisement page in the random order. From 1 to 10 —Display the advertisement page in the order as setting.
URL Link 1~5	Empty	This function allows the administrator to input ten different websites in the table for advertisement. And these 5 websites will display to the subscribers at random when the subscribers login in the HSP500 system. The input format can be “http://www.yahoo.com”. The maximum character of the URL Link # is 200.

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

### 3-2-5-7 Walled Garden

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

#### WALLED GARDEN

Specify URLs that can be accessed without a username and password. These URLs are commonly used for advertisement or promotional purposes.		
Link 1	Name: <input type="text"/>	URL : <input type="text"/> http:// <input type="button" value="▼"/>
Link 2	Name: <input type="text"/>	URL : <input type="text"/> http:// <input type="button" value="▼"/>
Link 3	Name: <input type="text"/>	URL : <input type="text"/> http:// <input type="button" value="▼"/>
Link 4	Name: <input type="text"/>	URL : <input type="text"/> http:// <input type="button" value="▼"/>
Link 5	Name: <input type="text"/>	URL : <input type="text"/> http:// <input type="button" value="▼"/>
<input type="button" value="Apply"/>		

Figure 3-2-43 Walled Garden Setting Screen

Item	Description
Name	The name is allowed user to set the prompt string in user customize login page. The maximum allowed characters length is 80.
URL 1~5	The input format can be "http://www.yahoo.com". The maximum character of the Link# is 200.

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

### 3-2-5-8 DDNS

The DDNS service (Dynamic Domain Name Service), an IP Registry provides a public central database where information such as email addresses, host names, IP addresses etc. can be stored and retrieved. This solves the problems if your DNS server uses an IP associated with dynamic IP addresses. When the ISP assigns the HSP500 a new IP, the HSP500 must inform the DDNS server the change of this IP so that the server can update its IP-to-DNS entry. Once the IP-to-DNS table in the DDNS server is updated, the DNS name for your web server (i.e., xyz.dyndns.org) is still usable.

**DDNS**

Force to update every  hour(s) when WAN IP address does not change.

No.	Active	Settings <input type="button" value="Update Status Now"/>
01	<input type="checkbox"/>	<p><b>Status : N/A</b></p> <p>Service Provider <input type="text" value="dyndns.org (www.dyndns.org)"/></p> <p>Registered Host Name <input type="text"/> (Example: xyz.dyndns.org)</p> <p>Login Name <input type="text"/> (max. 23 characters)</p> <p>Password <input type="text"/> (max. 23 characters)</p> <p>Email Address <input type="text"/> (optional)</p> <p><input type="checkbox"/> Wildcards (optional)</p>
02	<input type="checkbox"/>	<p><b>Status : N/A <input type="checkbox"/> Wildcards (optional)</b></p> <p>Service Provider <input type="text" value="dyndns.org (www.dyndns.org)"/></p> <p>Registered Host Name <input type="text"/> (Example: xyz.dyndns.org)</p> <p>Login Name <input type="text"/> (max. 23 characters)</p> <p>Password <input type="text"/> (max. 23 characters)</p> <p>Email Address <input type="text"/> (optional)</p> <p><input type="checkbox"/> Wildcards (optional)</p>
03	<input type="checkbox"/>	<p><b>Status : N/A</b></p> <p>Service Provider <input type="text" value="dyndns.org (www.dyndns.org)"/></p> <p>Registered Host Name <input type="text"/> (Example: xyz.dyndns.org)</p> <p>Login Name <input type="text"/> (max. 23 characters)</p> <p>Password <input type="text"/> (max. 23 characters)</p> <p>Email Address <input type="text"/> (optional)</p> <p><input type="checkbox"/> Wildcards (optional)</p>

Figure 3-2-44 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 <b>Update Status Now</b> button to do manual update.	
Settings	Enter the account information of DDNS Server.	
Status	YY/MM/DD HH:MM:SS	Display the update date, time and status. The Status area shows the update time and current state of the DDNS Client.  N/A—DDNS Client service not installed.  Update Successfully—DDNS Client service installed; service running.  Update Fail—DDNS Client service installed; service not running.
Service Provider	Dyndns.org (www.dyndns.org)	Select a DDNS service provider by clicking in the list box.  Note: Before configuring the DDNS settings, you have to register a dynamic domain at one of the dynamic domain service providers' list box.
Registered Host Name	Empty	Enter the host name of DDNS server. The maximum character of the registered host name is 100.
Login Name	Empty	Enter the user name of DDNS server.
Password	Empty	Enter the user password of DDNS server.
Email Address	Empty	Enter your email address. The DDNS Server will e-mail you important information once your Internet Name has been successfully registered.
Wildcards (optional)	Disable	Enable this function to be able to use *.mydomain.dyndns.org and not only mydomain.dyndns.org.

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

## 3-2-5-9 Wireless

**WIRELESS**

<b>General Setting</b>	Country: <input type="button" value="ETSI ▾"/>																																																						
	Channel: <input type="button" value="6 ▾"/>																																																						
	802.11 Mode: <input type="button" value="802.11n + 802.11g + 802.11b ▾"/>																																																						
	Channel Width: <input type="button" value="Auto 20/40 MHZ ▾"/>																																																						
<b>Multiple ESSID Setting</b>	<table border="1"> <thead> <tr> <th>Item</th> <th>ESSID</th> <th>Security</th> <th>Status</th> <th>Auth Status</th> <th>Edit</th> </tr> </thead> <tbody> <tr><td>1</td><td>Handlink_WG-500P</td><td>WEP</td><td>Active</td><td>Built-in</td><td><input type="button" value="Edit"/></td></tr> <tr><td>2</td><td>██████████</td><td>Open</td><td>Inactive</td><td>No Auth</td><td><input type="button" value="Edit"/></td></tr> <tr><td>3</td><td>██████████</td><td>Open</td><td>Inactive</td><td>No Auth</td><td><input type="button" value="Edit"/></td></tr> <tr><td>4</td><td>██████████</td><td>Open</td><td>Inactive</td><td>No Auth</td><td><input type="button" value="Edit"/></td></tr> <tr><td>5</td><td>██████████</td><td>Open</td><td>Inactive</td><td>No Auth</td><td><input type="button" value="Edit"/></td></tr> <tr><td>6</td><td>██████████</td><td>Open</td><td>Inactive</td><td>No Auth</td><td><input type="button" value="Edit"/></td></tr> <tr><td>7</td><td>██████████</td><td>Open</td><td>Inactive</td><td>No Auth</td><td><input type="button" value="Edit"/></td></tr> <tr><td>8</td><td>██████████</td><td>Open</td><td>Inactive</td><td>No Auth</td><td><input type="button" value="Edit"/></td></tr> </tbody> </table>	Item	ESSID	Security	Status	Auth Status	Edit	1	Handlink_WG-500P	WEP	Active	Built-in	<input type="button" value="Edit"/>	2	██████████	Open	Inactive	No Auth	<input type="button" value="Edit"/>	3	██████████	Open	Inactive	No Auth	<input type="button" value="Edit"/>	4	██████████	Open	Inactive	No Auth	<input type="button" value="Edit"/>	5	██████████	Open	Inactive	No Auth	<input type="button" value="Edit"/>	6	██████████	Open	Inactive	No Auth	<input type="button" value="Edit"/>	7	██████████	Open	Inactive	No Auth	<input type="button" value="Edit"/>	8	██████████	Open	Inactive	No Auth	<input type="button" value="Edit"/>
Item	ESSID	Security	Status	Auth Status	Edit																																																		
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Do not change the below settings unless you are aware of the possible results. Click <b>Default</b> to restore the factory default settings.																																																							
<b>Beacon Interval</b>	<input type="text" value="200"/> (msec, range:1~1000, default:200)																																																						
<b>RTS Threshold</b>	<input type="text" value="2342"/> (range:256~2342, default:2342)																																																						
<b>Fragmentation Threshold</b>	<input type="text" value="2346"/> (range:256~2346, default:2346, even numbers only)																																																						
<b>Preamble Type</b>	<input type="radio"/> Short Preamble <input checked="" type="radio"/> Long Preamble <input type="radio"/> Dynamic Preamble																																																						
<input type="button" value="Default"/> <input type="button" value="Apply"/>																																																							

Figure 3-2-45 Wireless Setting Screen

Item	Default	Description
<b>General Settings</b>		
Country	ETSI	Enter the Country for wireless connection.
Channel	6	Select the channel ID for wireless connection.
802.11 Mode	802. 11n + 802.11g + 802.11b	Enter the 802.11 Mode for wireless connection.
Channel Width	Auto 20/40 MHZ	Select the Channel Width for wireless connection.
<b>Multiple ESSID Setting</b>	Click <b>Edit</b> button for each of 8 ESSID setting.	

Item	Default	Description								
<b>WIRELESS ESSID 1 CONFIGURATION</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; padding: 5px;"> <b>General Settings</b> </td> <td style="width: 35%; padding: 5px;"> <input checked="" type="radio"/> Active      <input type="radio"/> Inactive            ESSID: <input style="width: 150px;" type="text" value="Handlink_WG-500P"/> (Max.=32)            Broadcast: <input style="width: 100px;" type="button" value="Enable"/> </td> <td style="width: 50%; padding: 5px;"> </td> </tr> <tr> <td colspan="3" style="padding: 10px;"> <b>Security Settings</b> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; padding: 5px;"> <input type="radio"/> Open  <input checked="" type="radio"/> WEP            Encryption: <input checked="" type="radio"/> 64 bit      <input type="radio"/> 128bit            Mode: <input style="width: 50px;" type="button" value="HEX"/>            WEP Key:  <input checked="" type="radio"/> 1 <input style="width: 150px;" type="text" value="1234567890"/>  <input type="radio"/> 2 <input style="width: 150px;" type="text" value="0000000000"/>  <input type="radio"/> 3 <input style="width: 150px;" type="text" value="0000000000"/>  <input type="radio"/> 4 <input style="width: 150px;" type="text" value="0000000000"/> </td> <td style="width: 85%; padding: 5px;">           Note: You have to restart the system to apply the WEP settings  <input type="radio"/> WPA      <input type="radio"/> WPA2      <input type="radio"/> MixMode            Group Key Rekeying: Per <input style="width: 50px;" type="text" value="86400"/> Seconds  <input checked="" type="radio"/> Use WPA or WPA2 with Pre-shared Key            Pre-shared Key: <input style="width: 150px;" type="text" value="1234567890"/> (8~32 Characters)  <input type="radio"/> Use WPA or WPA2 with 802.1x            RADIUS Server IP/Domain: <input style="width: 150px;" type="text"/>            Authentication Port: <input style="width: 50px;" type="text" value="1812"/>            Shared Secret Key: <input style="width: 150px;" type="text"/> </td> </tr> </table> </td> </tr> </table>			<b>General Settings</b>	<input checked="" type="radio"/> Active <input type="radio"/> Inactive ESSID: <input style="width: 150px;" type="text" value="Handlink_WG-500P"/> (Max.=32) Broadcast: <input style="width: 100px;" type="button" value="Enable"/>		<b>Security Settings</b> <table border="0" style="width: 100%; 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<input style="width: 50px;" type="button" value="Apply"/>										

Figure 3-2-46 ESSID Setting Screen

General Settings		
ESSID status	Active (ESSID1)	ESSID1 is active, and others are inactive by default.
ESSID name		The ESSID's name by default is related to the last 4 numbers of WLAN MAC. If the WLAN MAC is "00-90-0E-00-12-34", the default is "Xentino-1234_1". It is case sensitive and must not exceed 32 characters.
Broadcast	Enable	This allows you to show or hide the ESSID name when users search the Wi-Fi signal.
Security Settings		
Security	Open	Select Open to allow wireless station to communicate with the device without any data encryption. Select WPA / WPA2 / MixMode for data encryption.
Group Key Re-Keying	86400 Seconds	Enter a number in the field to set the force re-keying interval.
Use WPA or WPA2 with Pre-shared Key	Disable	
Pre-Shared Key	Empty	Enter a pre-shared key from 8 to 63 case sensitive ASCII characters.
Use WPA or WPA2 with 802.1x	Disable	
RADIUS Server IP/Domain	Empty	Enter the RADIUS server IP address or domain name. The maximum allowed characters length is 15.

Item	Default	Description
Authentication Port	1812	Enter the authentication port number. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	Enter the RADIUS secret key
Beacon Interval	200	This value valid range is 1 to 1000 indicates the frequency interval of the beacon.
RTS Threshold	2347	This value valid range is 256-2342. This setting determines the packet size at which the HSP500 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 HSP500, or in areas where the clients are far apart and can detect only the HSP500 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 HSP500 and client devices need when sending and receiving packets. The setting menu allows you to select a long, short or dynamic preamble type.

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

Click **Default** button to load the default manufacturer configuration to the system. All this page (Wireless) configuration setup will be replaced by default settings.

### 3-2-5-10 USB

The HSP500 plugged in a USB to Ethernet adapter can expand the HSP500 Wi-Fi signal range. The administrator can connect HSP500 USB port to another AP/router Ethernet port with a USB 2.0 to RJ45 Ethernet network adapter. After the activation, the administrator can change the ESSID.



Figure 3-2-47 USB Setting Screen

## Appendix A Signal Connection Arrangements

### RJ-45 Ethernet Port

The HSP500 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 cables. 100Mbps: Use EIA/TIA-568-100-Category 5 cable.

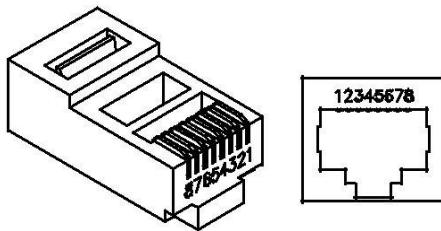


Figure RJ-45 Connector and Cable Pins

**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.

### FCC RF Radiation Exposure Statement

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

## LIMITED WARRANTY

### HSP500

#### **What the warranty covers:**

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

#### **How long the warranty is effective:**

The HSP500 is warranted for one year for all parts and one year for all labor from the date of the first consumer purchase.

#### **Who the warranty protects:**

This warranty is valid only for the first consumer purchaser.

#### **What the warranty does not cover:**

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

#### **How to get service:**

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

#### **Limitation of implied warranties:**

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

#### **Exclusion of damages:**

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

## HSP500 Wireless HotSpot Gateway with Printer

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