UAG50

Unified Access Gateway

Version 1.00
Edition 1, 05/2015

User's Guide

Login Details	
Login IP	https:// 172.16.0.1
User Name	admin
Password	1234

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IMPORTANT!

READ CAREFULLY BEFORE USE.

KEEP THIS GUIDE FOR FUTURE REFERENCE.

Screenshots and graphics in this book may differ slightly from your product due to differences in your product firmware or your computer operating system. Every effort has been made to ensure that the information in this manual is accurate.

Related Documentation

- Quick Start Guide

The Quick Start Guide shows how to connect the UAG and access the Web Configurator. It also contains a connection diagram and package contents list.

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1. Introduction

The UAG50 is a compact intelligent gateway. It provides Plug' Play Internet access, advanced security and network management.

The UAG50 is designed for service providers, system integrator or hotspot venue operator without backend-RADIUS-Server to have integrated solution for rapid deployment, which can start hotspot service quickly and easily and enhance service performance.

The UAG50 is an ideal solution for hotel lobbies, coffee bars, airport lounges, conference facilities and other sites that commonly host business travelers, and offers instant high-speed Internet connections. With its IP Plug and Play technology, it accepts any client configuration login, when client open browser the UAG50 immediately recognizes new end-user and redirects their browser to customized Web pages. There's no need for end-user to change any of their default network (Static IP), e-mail (SMTP Server behind firewall), or browser settings (HTTP Proxy) or load any special software to access hotspot service. It's completely Plug' Play with any browser.

The UAG50 provides QR code service. You can install any QR code APP to your mobile device, and then scan QR code on the ticket to get access of the Internet! You could save the time to key in the account and the password.

1-1 Package Contents

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

UAG50

- One UAG50
- One Thermal papers (50 meter)
- One Power Adapter (12V DC 1.5A)
- One Ethernet Cable (1.5 meter)
- One Quick Installation Guide
- Two Detachable Antennas (2dBi *2: Dipole,A8-A003-00110 or 5dBi*2: Dipole,A8-A003-00071)
- One Micro USB to RJ-45 converter

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

1-2 Features

- Wireless data rates up to 300 Mbps
- Supports up to 50 simultaneous Users
- IP Plug and Play (iPnP)
- Comprehensive security
  64/128-bit WEP encryption
  WPA encryption
  WPA2 Encryption
  IP/URL filtering
- Intelligent Management
- Built-in AAA (Authentication/Accounting/Authorization) and Billing mechanism
- Internet access via QR code scanning

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

1-3 Precautions

- Never remove or open the cover. You may suffer serious injury if you touch these parts.
- Never install the system in the wet locations.
- Use only the original fitting AC power adapter otherwise there is a danger of severe electrical shock.
- Avoid exposing the UAG50 to direct sunlight or another heat source.
- Choose a well-ventilated area to position your UAG50.

1-4 Outlook

Figure 1-4-1 UAG50

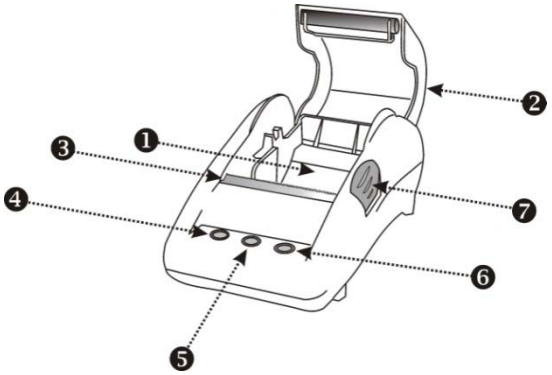


Figure 1-4-2 Front Panel

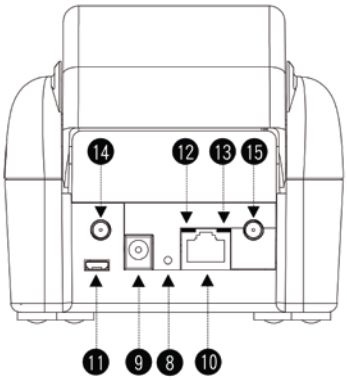


Figure 1-4-3 Rear Panel

1. Paper roll housing
2. Printer Cover
3. Tear Bar, for paper cutting
4. Button A
5. Button B
6. Button C
7. Push Button, for printer cover opening
8. Reset Button
9. DC power supply connector
10. RJ45 port
11. Micro USB to RJ-45 LAN Port
12. WLAN LED (Green)
13. WAN LED(Yellow)
14. SMA connector
15. SMA connector

- **WLAN LED:**

  Off: The wireless is not ready.

  Green light: The UAG50 has established a valid wireless connection.

  Green Blinking: The wireless connection is active.

- **WAN LED:**

Off: A port has not established any network connection.
Yellow light: A port has established a valid 10/100 Mbps network connection.
Yellow Blinking: 10/100 Mbps traffic is traversing the port.

- **Reset Button:** The UAG50 has a reset button at the rear panel of the device. Use this function to reset the system back to factory defaults.
- **Power Jack:** Used to connect the external power supply with the UAG50.

1-4-1 Printing a test page

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

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

1-4-2 How to load paper rolls

Please follow the steps to correctly load paper rolls.

1

2

3

4

Figure 1-4-4 Paper rolls loading

1-5 Technical Specifications

1-5-1 Hardware Specifications

Network Specification

- IEEE802.3 10BaseT Ethernet
- IEEE802.3u 100BaseTX Fast Ethernet
- IEEE802.11b/g/n Wireless LAN
- Wi-Fi Compatible

Connectors

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

Encryption

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

External Antenna Type

- Dual 2.4GHz detachable diversity antenna with reverse SMA

LED Indicators

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

Power Requirement

- External Power Adapter

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

Environment Conditions

- Operating Temperature: 0 to 50°C
- Storage Temperature: -10 to 60°C
- Operating Humidity: 20~80% non-condensing
- Storage Humidity: 20% to 95% non-condensing

Certifications

- CE, FCC, C-tick, NCC, BSMI

Dimension

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

Printer Tray

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

Paper Roll and Printing

- Paper width: 58 (+0/-1)mm
- Paper length: 50M (max.)
- Paper thickness: 65 um
- Paper roll outside diameter: 63 (+2/-2) mm
- Paper roll inside diameter: 12 (+0.5/-0) mm
- Paper Detection: Photo interrupter
- Printing width: 48 mm
- Printing Method: Direct thermal
- Printing Speed: 25.4 mm/ sec
- Dot resolution (dots/ mm): 8 (203 dpi)
- Thermal head service life: 108 pulses or 50Km

1-5-2 Software Specifications

Networking

- IEEE802.3 10BaseT Ethernet

- IEEE802.3u 100BaseTX Fast Ethernet
- IEEE802.11b Wireless LAN
- IEEE802.11g Wireless LAN
- IEEE802.11n Wireless LAN
- Supports 50 Simultaneous Users
- IP Plug and Play (iPnP)
- HTTP Proxy Support
- WEP64/128bit
- WPA-PSK (TKIP)
- WPA2-PSK(AES)
- WPA/WPA2 Mix mode
- SMTP Server Redirection
- DHCP Server(RFC 2131)
- DHCP Relay(RFC 1542)
- Static IP WAN Client
- DHCP WAN Client
- PPPoE WAN Client(RFC 2516)
- PPTP WAN Client
- NAT(RFC 1631)
- IP Routing
- NTP (Network Time Protocol) Support
- Local Account: 256
- Max Session Number: up to 16384

Marketing Cooperation

- Advertisement URL link
- Walled garden
- Customize login pages
- Portal Page

User Accounting and Authentication

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

Security and Firewall

- Layer 2 Isolation Security
- SSL User Login page/ Configuration Page
- SSL Administration
- VPN Pass through (IPSec/PPTP)
- Customize SSL Certificate
- Pass Through IP/MAC/URL Address
- Restricted Destination Filtering IP/URL
- VPN (IPSec/PPTP) Pass through
- PPTP VPN Client
- WEP
- WPA
- WPA2
- WPA/WPA2 Mix mode

Management

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

2. Installation

2-1 Connecting the Antennas

The UAG50 provides two antenna connectors on the rear of the unit.

2-2 Installation Requirements

Before installing the UAG50, make sure your network meets the following requirements.

System Requirements

The UAG50 requires one of the following types of software:

- Windows 98 Second Edition/NT/2000/XP/Vista
- Red Hat Linux 7.3 or later version
- MAC OS X 10.2.4 or later version
- Any TCP/IP-enabled systems like Mac OS and UNIX (TCP/IP protocol installed)
- Standard phone line for xDSL modem Or Coaxial cable for Cable modem
- Web Browser Software (IE 8.0 or later version, Chrome 14.0 or later version, Firefox 14.0,15.0,16.0, or 17.0, Safari 4.0 or 5.0)
- One computer with an installed 10Mbps, 100Mbps or 10/100Mbps Ethernet card
- UTP network Cable with a RJ-45 connection (Package contents)

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

ISP Requirements

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

Dynamic IP

- Dynamic IP Setting

Fixed IP

- Your fixed IP address for the UAG50
- Your subnet mask for the UAG50
- Your default gateway IP address
- Your DNS IP address

PPPoE

- Your user name and password from your ISP

PPTP

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

The Static IP settings for the PC

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

Note:

1. The gateway's default IP address setting is "172.16.0.1".
2. The gateway's default subnet mask setting is "255.255.255.0".

The Dynamic IP settings for the PC

We recommend that you leave your IP settings as automatically assigned. By default, the UAG50 is a DHCP server, and it will give your PC the necessary IP settings.

2-3 Getting Start

UAG50 Connection

1. Connect the DC power adapter to the UAG50 and plug it into a power socket.
2. Connect UAG50 and xDSL modem with an Ethernet Cable.

Figure 2-3-1 UAG50 Connection

Configure TCP/IP of your computer

For Windows user,

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

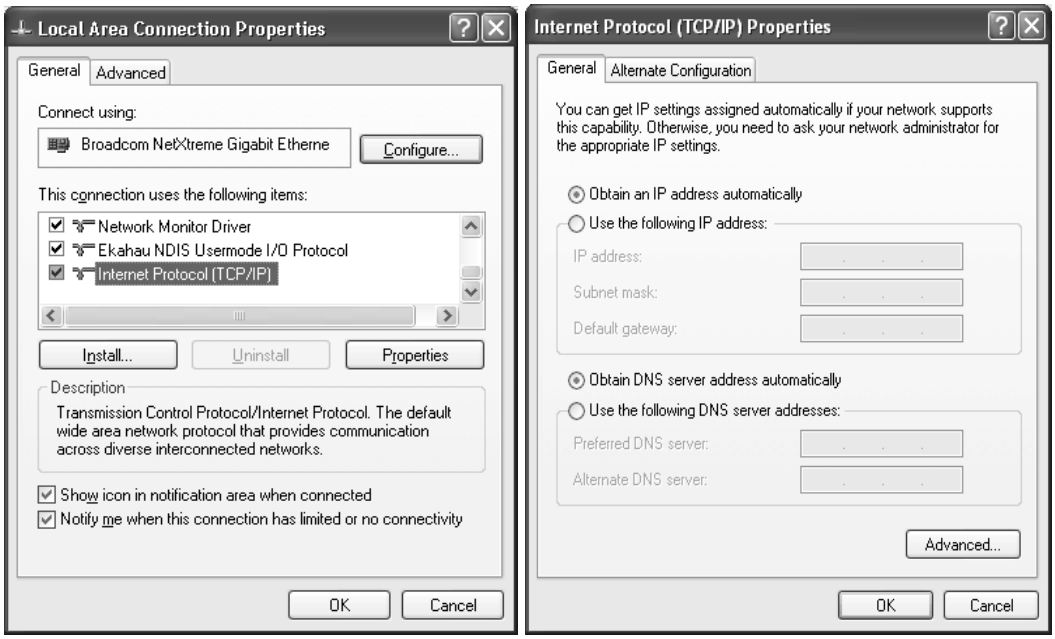


Figure 2-3-2 TCP/IP Setting

3. Configuring the UAG50

3-1 Setting Wizard

Step 1: The UAG50's default ESSID (wireless network name) is "ZyXEL01". Please search and connect to the wireless network.
Step 2: Start your browser, and then enter the factory default IP address **172.16.0.1** in your browser's location box. Press **Enter**.

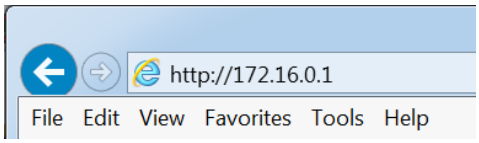


Figure 3-1-1 Web Browser Location Field (Factory Default)

Step 3: The UAG50 configuration tools menu will appear. In the Username and Password field, type the factory default user name **admin** and password **1234** and click **Login**. If you are first time setting the system, the wizard setup screen will appear. You will be guided, step-by-step, through a basic setup procedure.

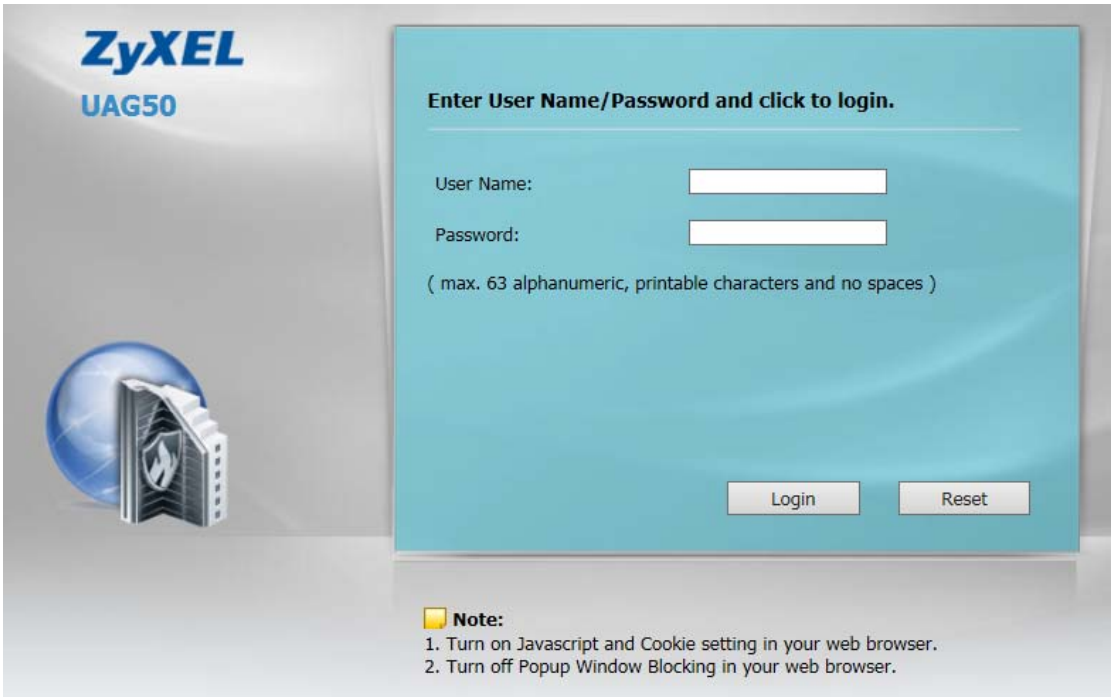


Figure 3-1-2 Configuration Tools Menu

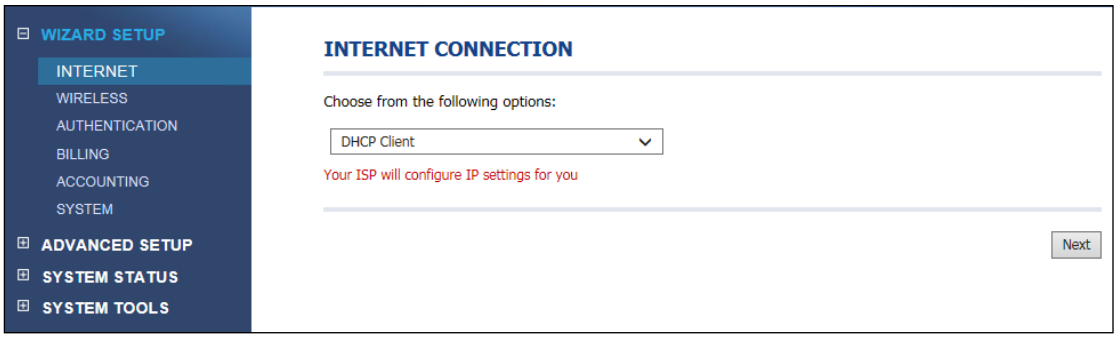
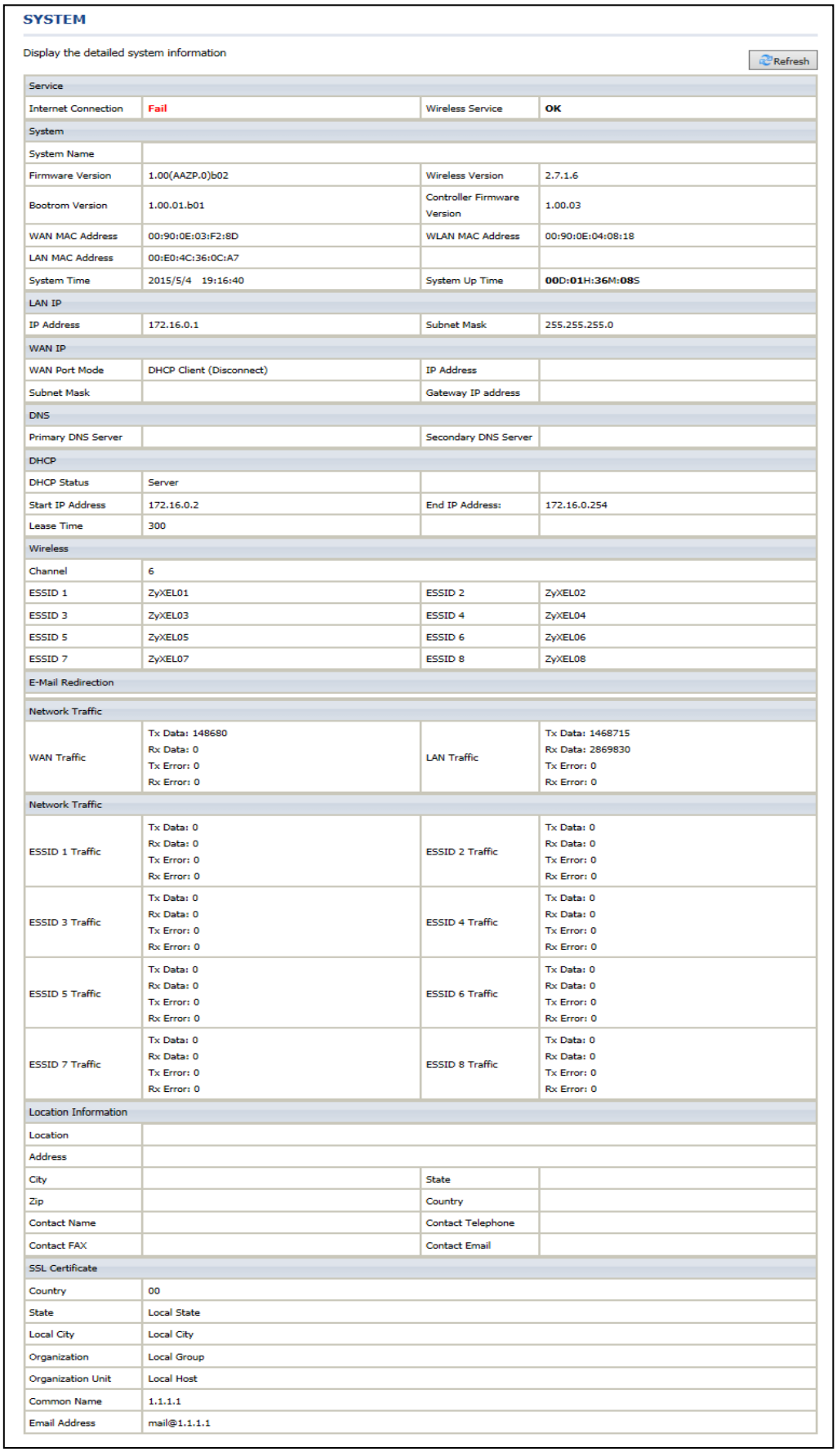


Figure 3-1-3 Wizard Setup Screen



SYSTEM

Display the detailed system information

Refresh

Service			
Internet Connection	Fail	Wireless Service	OK
System			
System Name			
Firmware Version	1.00(AAZP.0)b02	Wireless Version	2.7.1.6
Bootrom Version	1.00.01.b01	Controller Firmware Version	1.00.03
WAN MAC Address	00:90:0E:03:F2:8D	WLAN MAC Address	00:90:0E:04:08:18
LAN MAC Address	00:E0:4C:36:0C:A7		
System Time	2015/5/4 19:16:40	System Up Time	00D:01H:36M:08S
LAN IP			
IP Address	172.16.0.1	Subnet Mask	255.255.255.0
WAN IP			
WAN Port Mode	DHCP Client (Disconnect)	IP Address	
Subnet Mask		Gateway IP address	
DNS			
Primary DNS Server		Secondary DNS Server	
DHCP			
DHCP Status	Server		
Start IP Address	172.16.0.2	End IP Address:	172.16.0.254
Lease Time	300		
Wireless			
Channel	6		
ESSID 1	ZyXEL01	ESSID 2	ZyXEL02
ESSID 3	ZyXEL03	ESSID 4	ZyXEL04
ESSID 5	ZyXEL05	ESSID 6	ZyXEL06
ESSID 7	ZyXEL07	ESSID 8	ZyXEL08
E-Mail Redirection			
Network Traffic			
WAN Traffic	Tx Data: 148680 Rx Data: 0 Tx Error: 0 Rx Error: 0	LAN Traffic	Tx Data: 1468715 Rx Data: 2869830 Tx Error: 0 Rx Error: 0
Network Traffic			
ESSID 1 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0	ESSID 2 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0
ESSID 3 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0	ESSID 4 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0
ESSID 5 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0	ESSID 6 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0
ESSID 7 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0	ESSID 8 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0
Location Information			
Location			
Address			
City		State	
Zip		Country	
Contact Name		Contact Telephone	
Contact FAX		Contact Email	
SSL Certificate			
Country	00		
State	Local State		
Local City	Local City		
Organization	Local Group		
Organization Unit	Local Host		
Common Name	1.1.1.1		
Email Address	mail@1.1.1.1		

Figure 3-1-4 System Quick View

Step 4: Internet Connection Setting

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

Figure 3-1-5 Internet Connection Setting Screen

DHCP Client

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

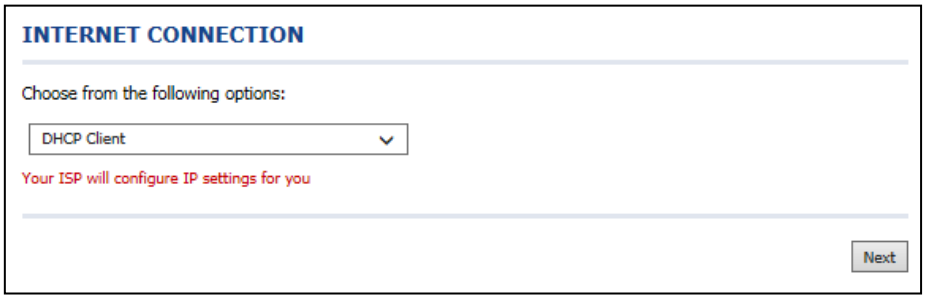


Figure 3-1-6 Internet Connection Setting Screen

Static IP Setting

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

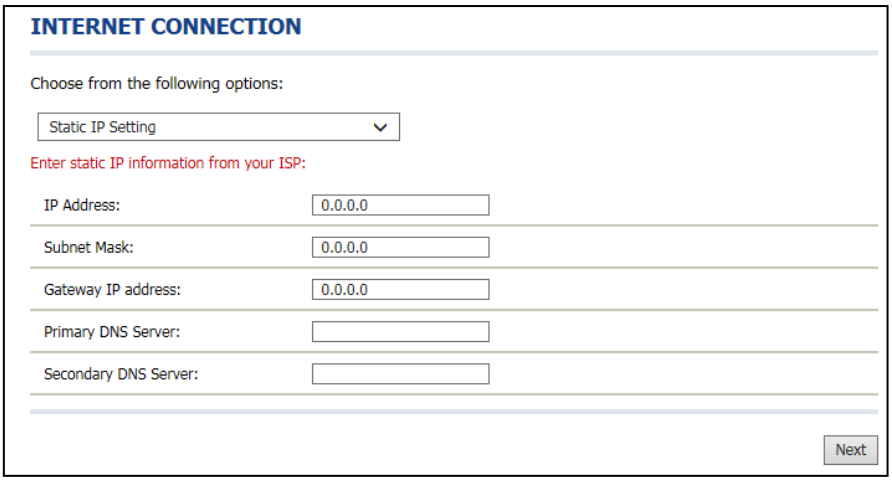


Figure 3-1-7 Internet Connection Setting Screen—Static IP Setting

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

PPPoE (Point-to-Point Protocol over Ethernet)

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

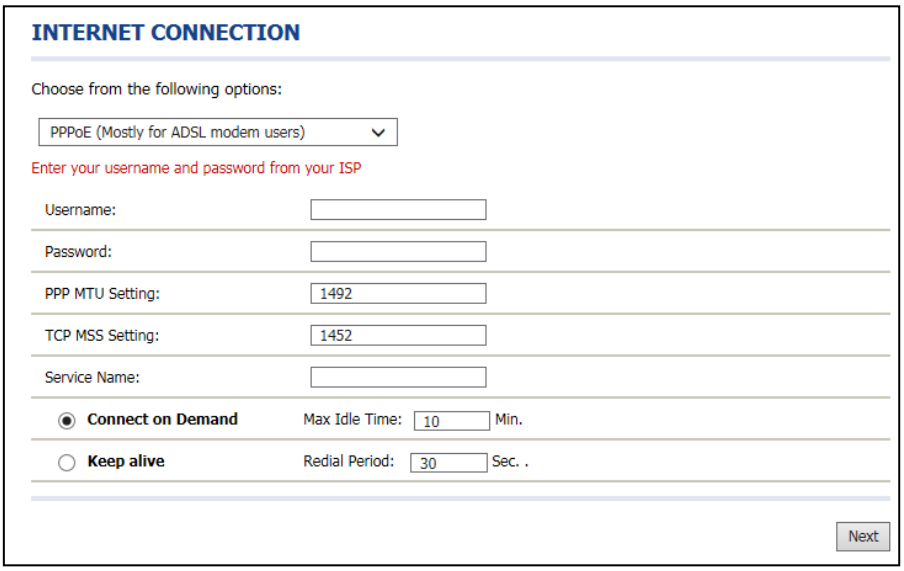


Figure 3-1-8 Internet Connection Setting Screen—PPPoE Setting

Item	Default	Description
Username	Empty	Enter the user name provided by your ISP. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter the user password provided by your ISP. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1492	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1452	MSS (Maximum Segment Size) specifies maximum segment size.
Service Name	Empty	Enter the service name provided by your ISP. The service name can consist of up to 64 alphanumeric characters and is case sensitive.
Connect on Demand and Max Idle Time		
Connect on Demand	Enable	You can configure your UAG50 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 UAG50 to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
Keep alive and Redial Period		
Keep alive	Disable	This option keeps your PPPoE enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	

PPTP Client (Point-to-Point Tunneling Protocol)

If PPTP Setting is selected, then this screen will appear. Please enter the IP address, Username and Password provided by your ISP.

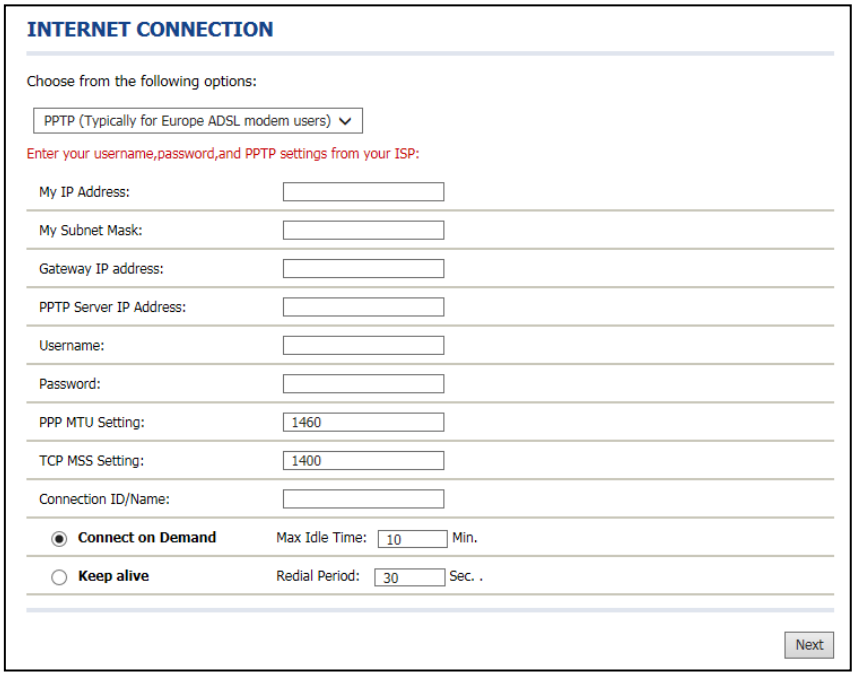


Figure 3-1-9 Internet Connection Setting Screen—PPPoE Setting

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 UAG50 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 UAG50 to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the radio button. If you want your Internet connection to remain, click the radio button of keep alive. The Max Idle Time maximum value is 65535 minutes.
Max Idle Time	10 Minutes	
Keep alive and Redial Period		

Keep alive	Disable	This option keeps your PPPoE enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
Redial Period	30 Seconds	

Step 5: Wireless Setting

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

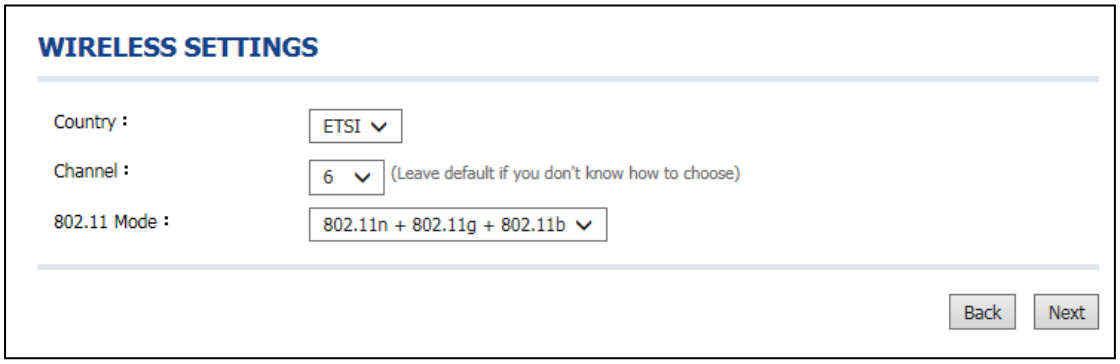


Figure 3-1-10 Wireless Setting Screen

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

Step 6: Authentication Setting

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

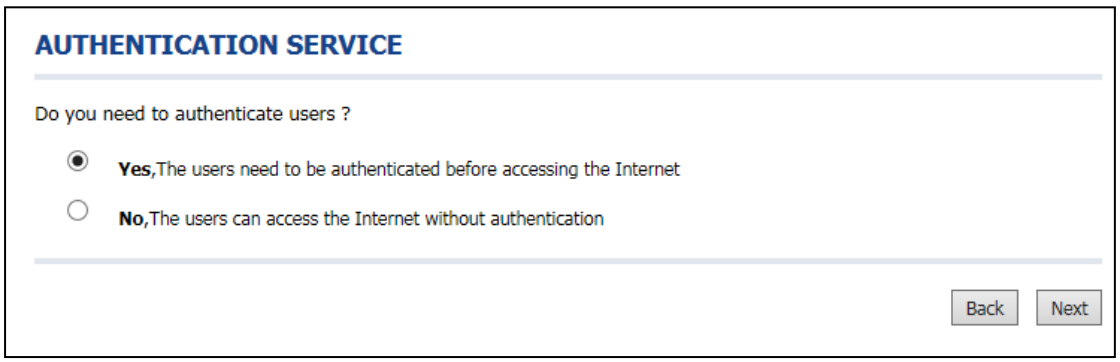


Figure 3-1-11 Authentication Service Setting Screen

Step 7: Billing Profile Setting

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

Time Base Profile

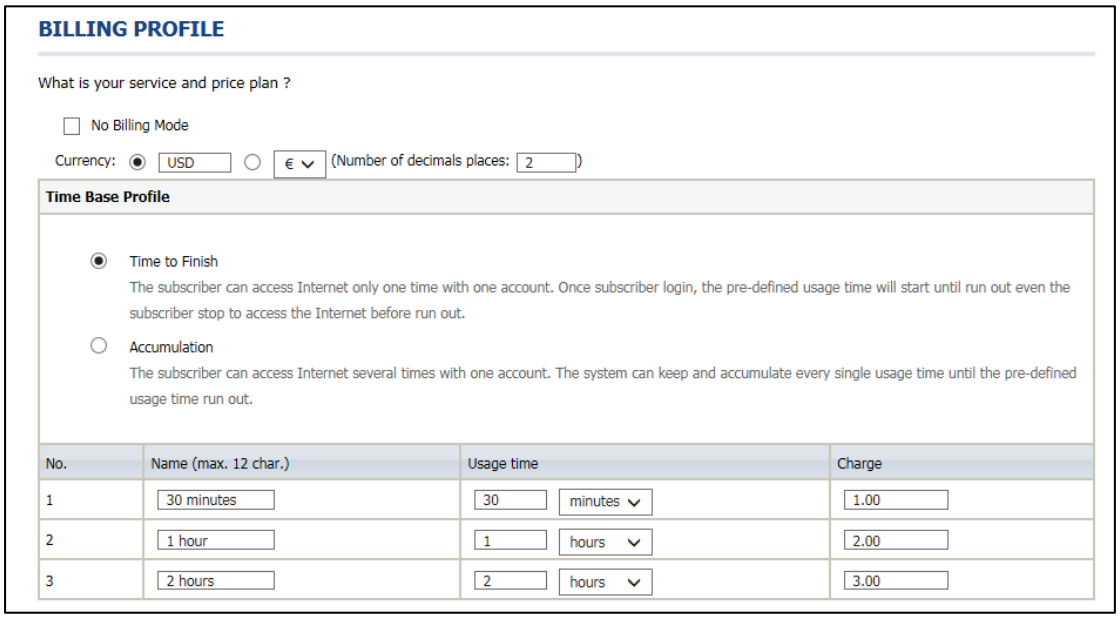


Figure 3-1-12 Billing Profile Setting

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

Volume Based Profile

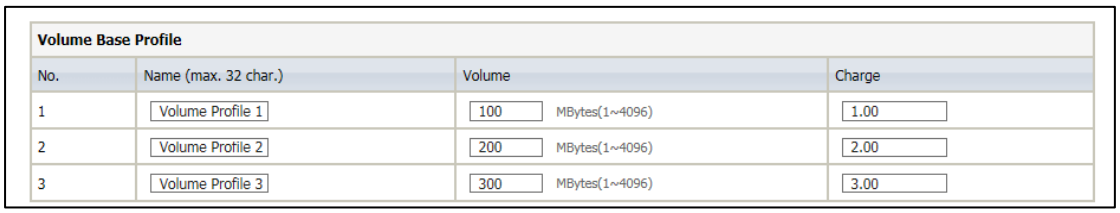


Figure 3-1-13 Billing Profile Setting – Volume base

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

Step 8: Accounting Setting

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

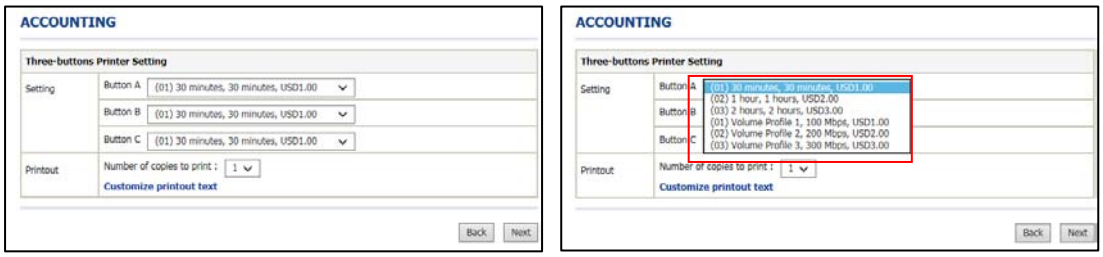


Figure 3-1-14 Accounting Setting

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

Step 9: System Setting

System Setting: The UAG50 allows changing the administrator's Username and Password, and system time setting.

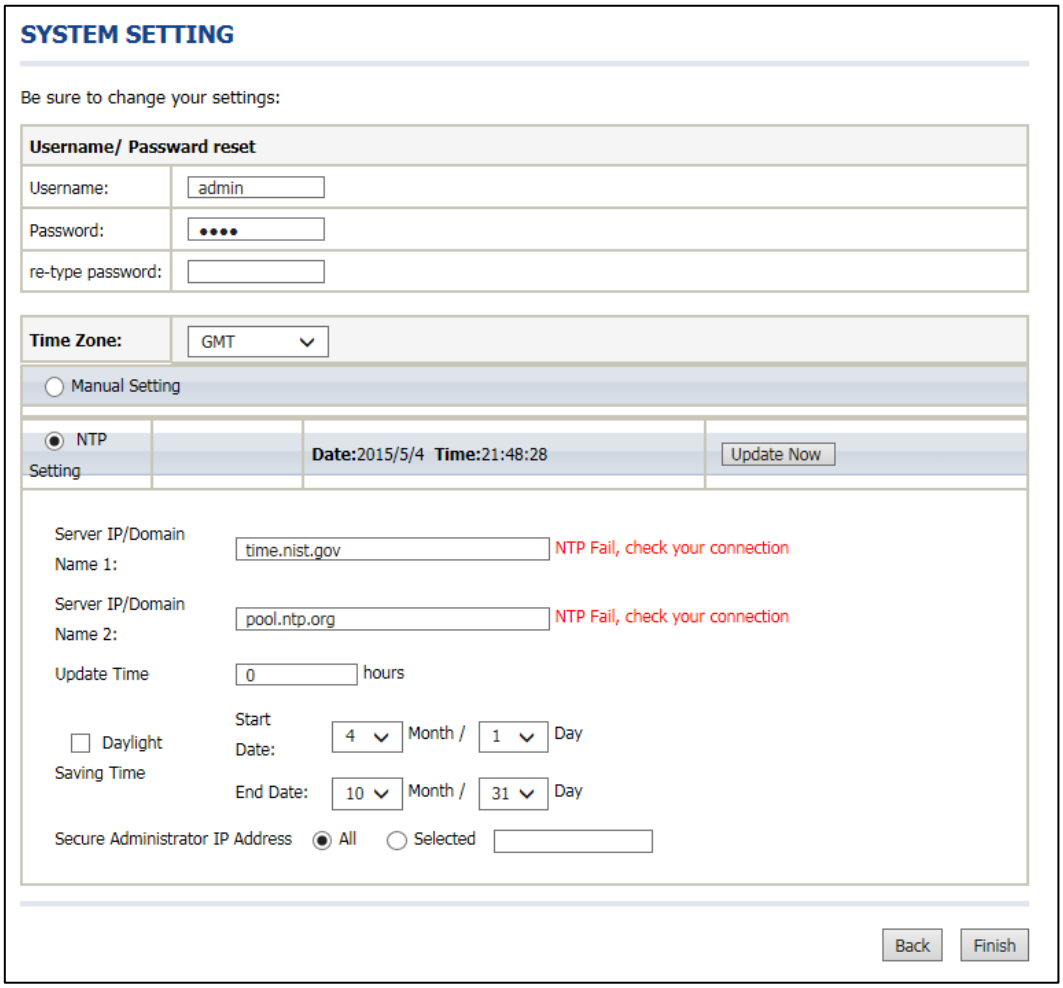


Figure 3-1-15 System Setting Screen

Item	Default	Description
Username	admin	Enter the user name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	admin	Enter the user password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
Time Zone	GMT	Enter the Time Zone for the system.
Manual Setting	YYYY/MM/DD HH:MM:SS	Click **Manual Setting** to set the system date and time.
NTP Setting		Click **Update** button to correct the system date and time.
Secure Administrator IP Address	All	This function allows remote user to management the device. You can specify one or any IP addresses for remote control the system.

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

Note:

1. This Web agent is best viewed with IE 8.0 or later version.
2. Username and Password can consist of up to 20 alphanumeric characters and are case sensitive.
3. If for some reason your password is lost or you cannot gain access to the UAG50 Configuration Program, please press the reset button to load the device to manufacturer defaults.
4. If the administrator doesn't send packet in 5 minutes (default), the UAG50 will log out automatically.
5. Proxy needs to set disable first when the administrator accesses admin UI.

3-2 Advanced Setup

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

AUTHENTICATION
- AUTHENTICATION
- RADIUS

BILLING
- BILLING
- ACCOUNTING
- CREDIT CARD

MANAGEMENT
- SYSLOG
- SESSION TRACE
- BANDWIDTH
- SNMP

SECURITY
- PASS THROUGH
- FILTERING
- SECURE REMOTE

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

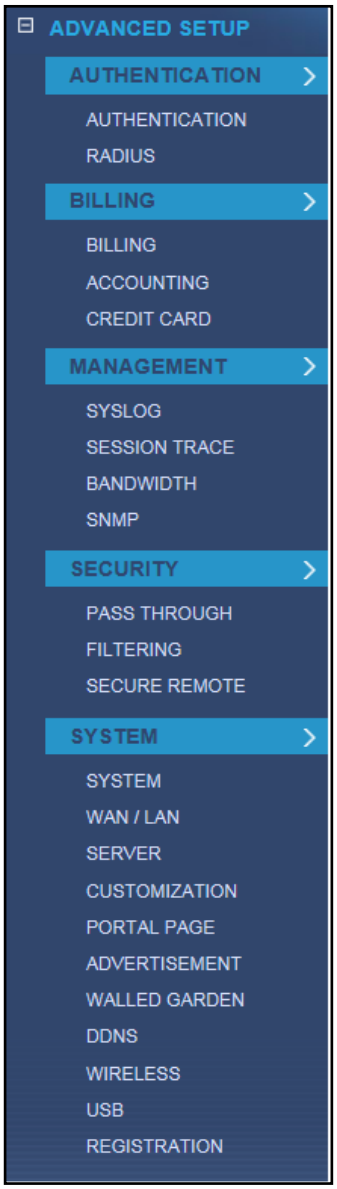


Figure 3-2-1 Advanced Setting Item

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

3-2-1 Authentication

3-2-1-1 Authentication

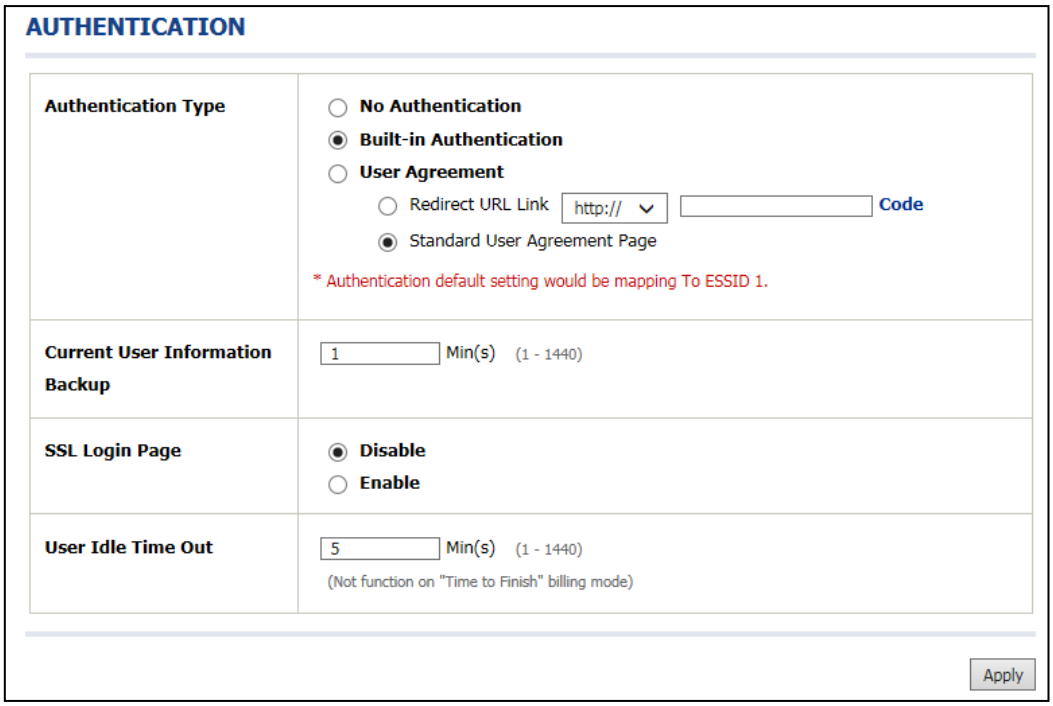


Figure 3-2-2 Authentication

Item	Default	Description
Authentication Type	Built-in Authentication	Option: No Authentication, Built-in Authentication or User Agreement. **No Authentication** Subscriber can direct access the Internet without enter username and password. **Built-in Authentication** UAG50 provides "Built-in Authentication" for service provider to build up an Internet service without any extra authentication software. If "Built-in Authentication" is selected, service provider can generate the subscriber account inside the device, and the system will authenticate the subscriber login according to the generated account.

Item	Default	Description
		User Agreement Subscriber must accept the service usage agreement before they can access the Internet.
Redirect Login Page URL	Empty	The input format can be http://www.yahoo.com. The maximum character of the URL Link is 200.
Code	Copy and paste the following HTML Code into your home page to produce redirect subscriber login page.	

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

Redirect Agreement Page Code

```
<html>
<head>
<title>UAG50</title>
</head>
<body>

<center>
<table width="75%" border="0">
<form method="post" action="http://1.1.1.1/agree.cgi" name="agree">
<tr>
<td align="center" width="50%">

<input type="submit" name="agree" value="Agree">
</td>
<td align="center" width="50%">
<input type="submit" name="disagree" value="Do not agree">
</td>
</tr>
</form>
</table>
</center>

</body>
</html>
```

Close

Figure 3-2-3 Preview Redirect Login Page Code

Item	Default	Description
Current User Information Backup	1 Min(s)	The system provides automatically backup account information and unused account to flash ROM. This function allow administrator to adjust the backup time. The default value is 1 minute. The Current User Information Backup valid range is 1 to 1440.

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.

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

3-2-1-2 RADIUS

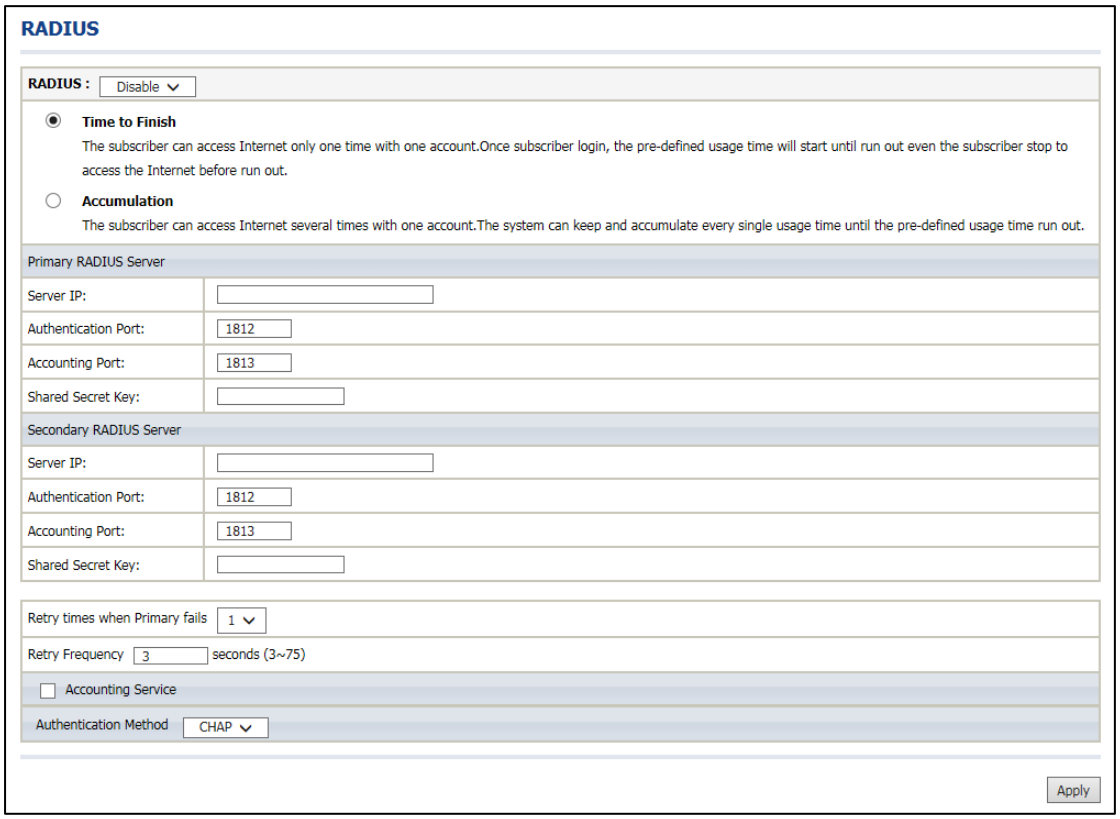


Figure 3-2-4 Authentication Setting Screen

Item	Default	Description

Item	Default	Description
RADIUS Authentication	Disable	**Disable (RADIUS Disable)** Subscriber can direct access the Internet without entering username and password. **Enable (RADIUS Authentication)** UAG50 provides "RADIUS Authentication" for service provider to build up an Internet service with RADIUS server. If RADIUS Authentication is enabled, all subscribers' authentication will send to RADIUS Server by RADIUS protocol (RFC 2865, 2866).
Time to Finish / Accumulation	Enable	Service provider provides two different accounting calculate for the Internet service.
Primary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number; the authentication port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number; the accounting port number must match with the RADIUS server setting. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	The share secret key, the key number also has to match with the Server setting. Up to 64 characters are allowed.
Secondary RADIUS Server		
Server IP	Empty	Enter the IP address of RADIUS server.
Authentication Port	1812	Enter the authentication port number; the authentication port number must match with the secondary RADIUS server setting. The allowed numbers are from 0 to 65535.
Accounting Port	1813	Enter the accounting port number; the accounting port number must match with the secondary RADIUS server setting. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	The share secret key, the key number also has to match with the secondary RADIUS Server setting. Up to 64 characters are allowed.
Retry times when Primary fail	1	Specify the retry times when primary fail.
Retry Frequency ~ Seconds	3	The field default value is 3 seconds.
Accounting Service	Disable	Enables or disables the accounting service.
Interim Update Time	5 Minutes	Specify the interim update time.

Item	Default	Description
Authentication Method	CHAP	CHAP Enter the authentication method of RADIUS server.

3-2-2 Billing

3-2-2-1 Billing

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

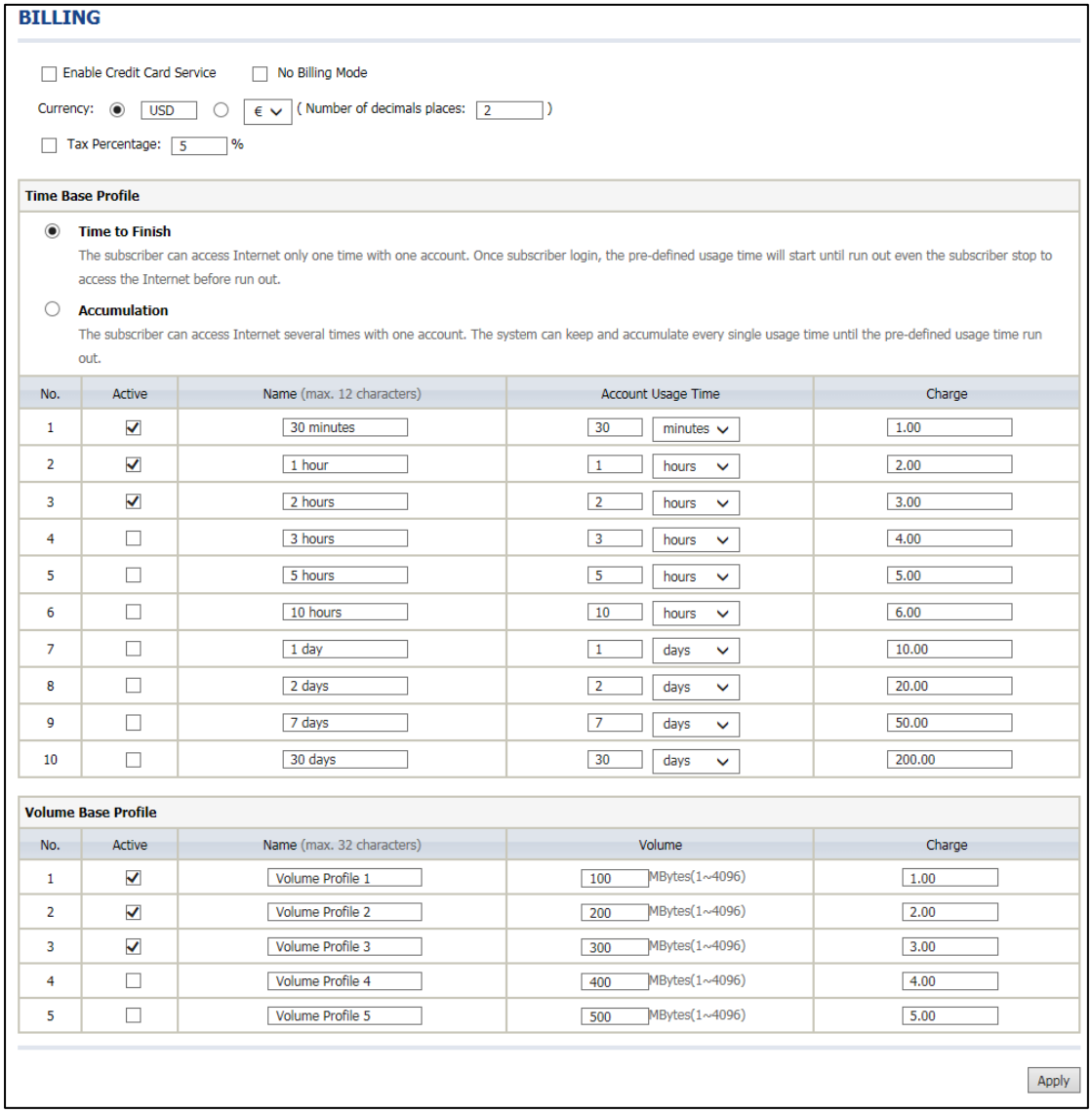


Figure 3-2-5 Billing Setting Screen

Item	Default	Description
Enable Credit Card Service	Disable	Enables or disables the credit card service. Before you enable credit card service, make sure that your credit service is configured to work and the currency is American dollars. You must be converting all prices on your billing page into American dollars (U.S. dollars). For details, see section 3-2-2-3 Credit Card. The credit card function only supports the American dollars.
No Billing Mode	Disable	If you would like to provide **FREE** Wi-Fi for users, please activate "No Billing Mode" the price and the tax won't be showed on the ticket.
Currency	USD	Enter the appropriate currency unit or currency symbol.
Number of decimals places	2	Enter the number. The field maximum value is 3.
Tax Percentage	Disable	This check box is used to indicate the taxable status of the account.
	5%	Enter the tax rate (i.e. a 5% sales tax is entered as 5).
Time Base Profile		
Time to Finish	Enable	The subscriber can access Internet only one time with one account. Once subscriber login, the pre-defined usage time will start until run out even the subscriber stop to access the Internet before run out.
Accumulation	Disable	The subscriber can access Internet many times with one account. The system can keep and accumulate every single usage time until the pre-defined usage time run out.
You are able to set up to 10 records of time base profile in UI.		
Active	-	Click on check box, active or inactive the billing profile.
Name	-	It is the name of billing profile. The maximum allowed characters length is 12.
Account Usage time	-	The duration of the billing period. When this period expires, user account will be discontinued.
Charge	-	Enter the unit rate amount (i.e. 35.00) that most of your accounts are charged for one day of service.
Volume Base Profile		
You are able to set up to 5 records of volume base profile in UI.		
Active	-	Click on check box, to active or inactive the billing profile.
Name	-	It is the name of billing profile. The maximum allowed characters length is 12.
Account Usage time	-	Setting the volume of the account. When this volume is run out, user account will be discontinued.
Charge	-	Enter the unit rate amount.

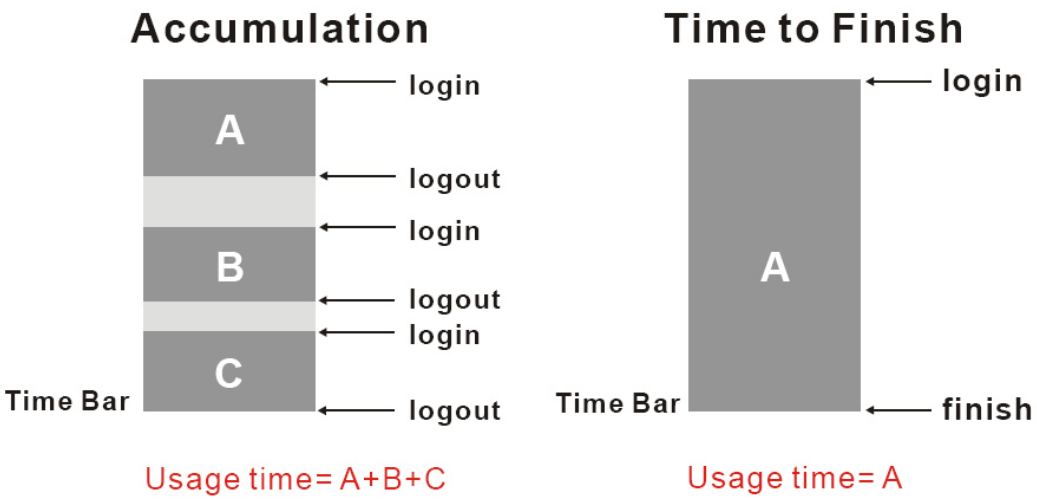


Figure 3-2-6 Accumulation and Time to Finish

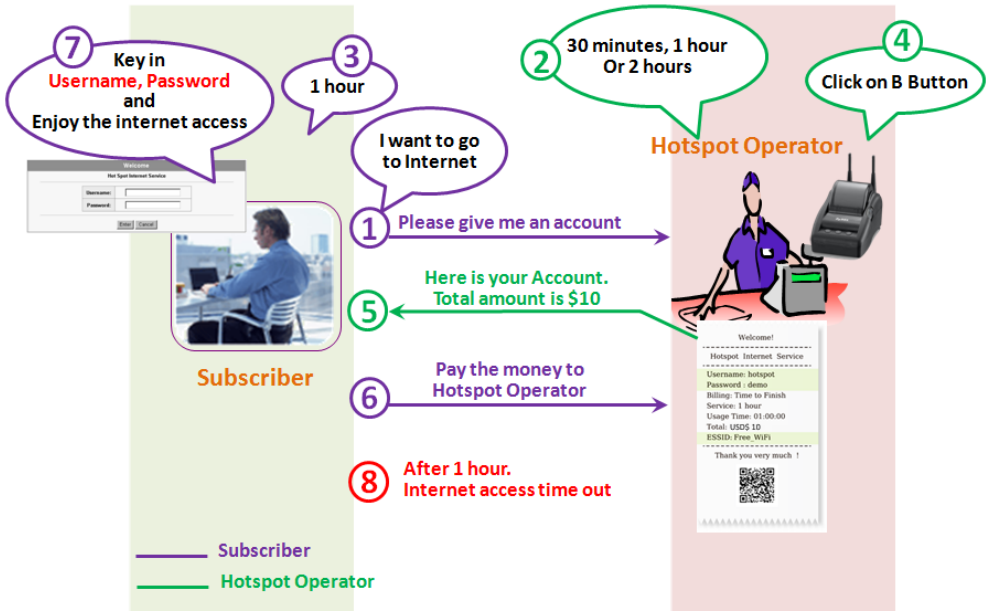


Figure 3-2-7 Pre-paid Procedure Diagram

3-2-2-2 Accounting

This function allow service provider to generate the subscriber accounts.

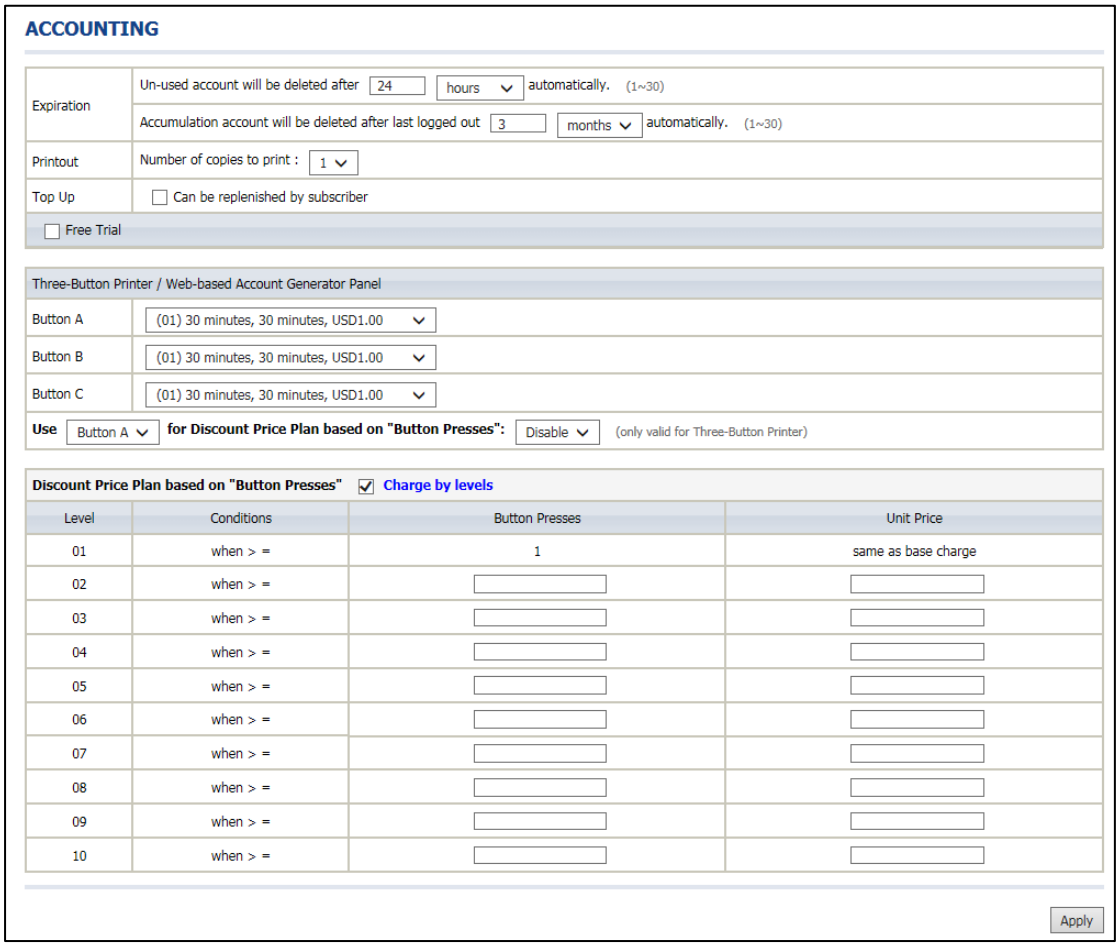


Figure 3-2-8 Accounting Setting Screen

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

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

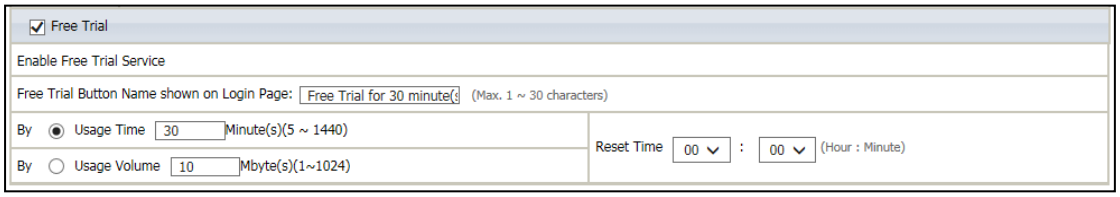


Figure 3-2-9 Accounting Setting Screen_Free Trial

Item	Default	Description
Free Trial		
Enable Free Trial Service	Disable	You could provide free trial to users by enable this function.
Free Trial Button Name shown on Login Page	Free Trial for 30 minute(s)	You could customize the text that shown on user login page. The maximum allowed characters length is 30.
Free Trial base	By Usage time	You could set the free trial to be based by time or by volume and you could also define the usage of free trial.
Reset Time	00:00	The gratuitous usage amount of "free Trial" is on a periodic time basis. The "Reset Time" defines the periodic cycle time. Based on the configuration, UAG50 grants users the gratuitous usage amount (time or volume) on each periodic cycle time.

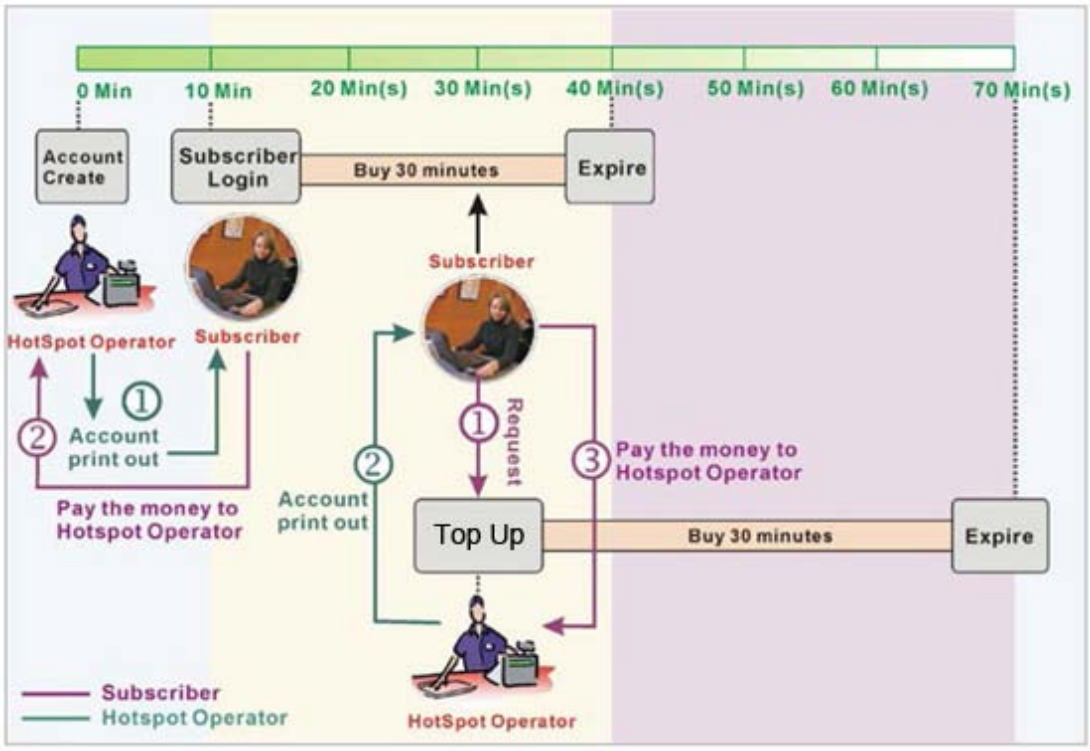


Figure 3-2-10 Account Process Diagram Can be topped up by subscriber=Enable

Item	Default	Description
Button A~C		Define each button's billing profile. Select one billing profile by clicking in the list box.
Use ~ for Discount Price Plan based on "Button Presses"	Button A, Disable	Select one button (A~C) by clicking in the list box to assign the base charge and select enable to active the discount price plan.

Figure 3-2-11 Account Generator Printer (Time to Finish)

Figure 3-2-12 Account Generator Printer (Accumulation)

Example: If press 7 times

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

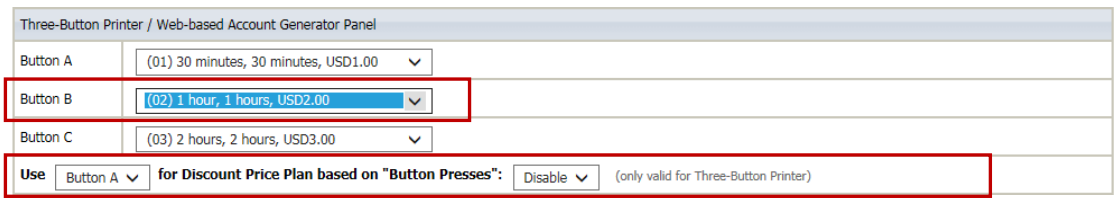


Figure 3-2-13 Example 1

Amount: 7 x $2.00= $14.00

Figure 3-2-14 Account Printout

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

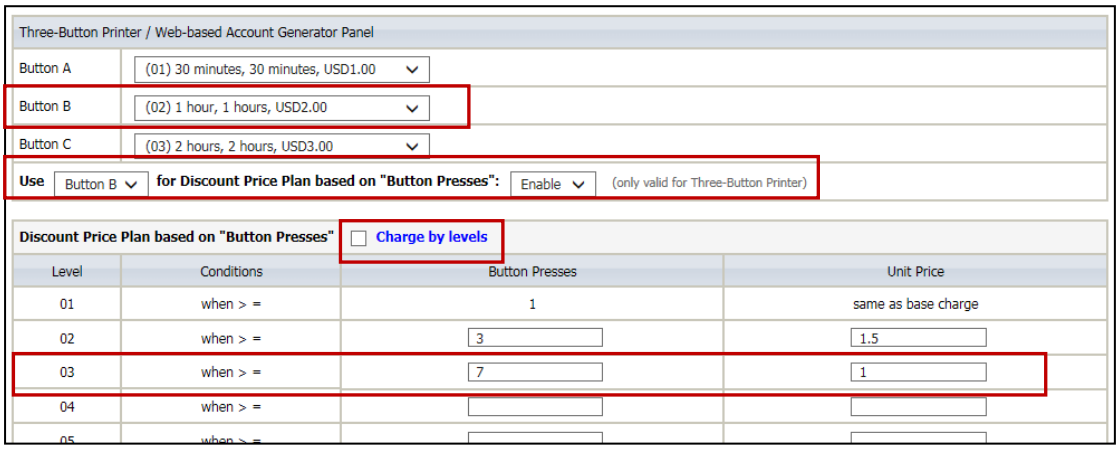


Figure 3-2-15 Example 2

Amount: 7 x $ 1 = $ 7.00

Below is an example of the account printout.

Figure 3-2-16 Account Printout

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

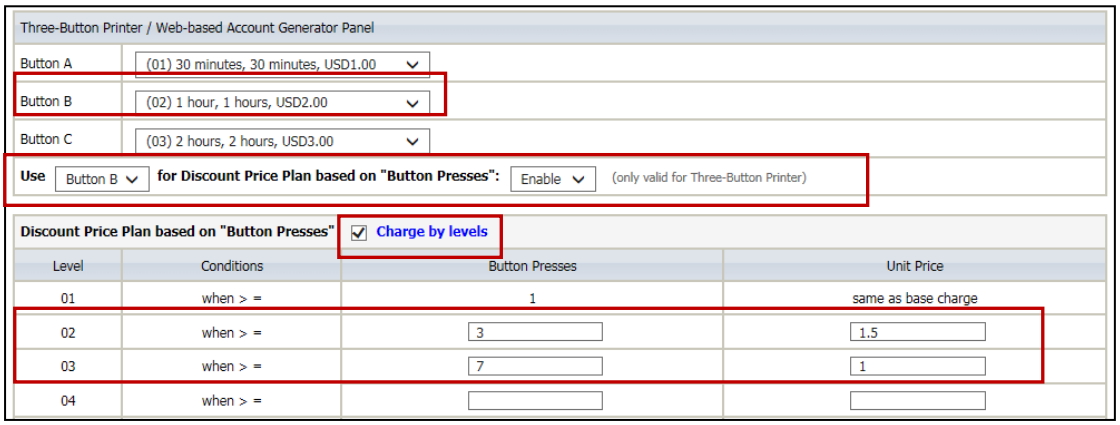


Figure 3-2-17 Example 3

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

Below is an example of the account printout.

Figure 3-2-18 Account Printout

- Discount Price Plan based on "Button Presses"

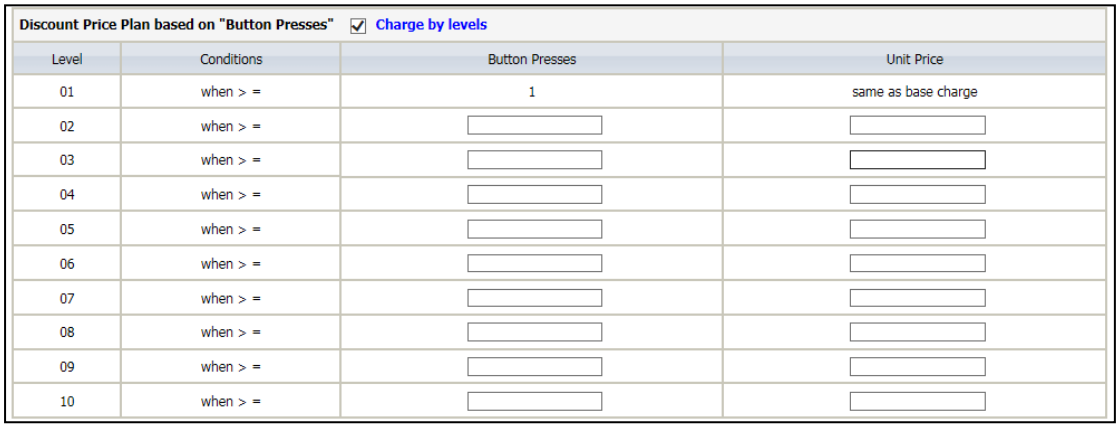


Figure 3-2-19 Discount Price Plan Setting Screen

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

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

3-2-2-3 Credit Card

UAG50 provides three credit card services (**Authorize.net**, **iValidate.net, Secure Pay, Paypal and WorldPay**) that allow service provider to authorize, process, and manage credit transactions directly from Internet.

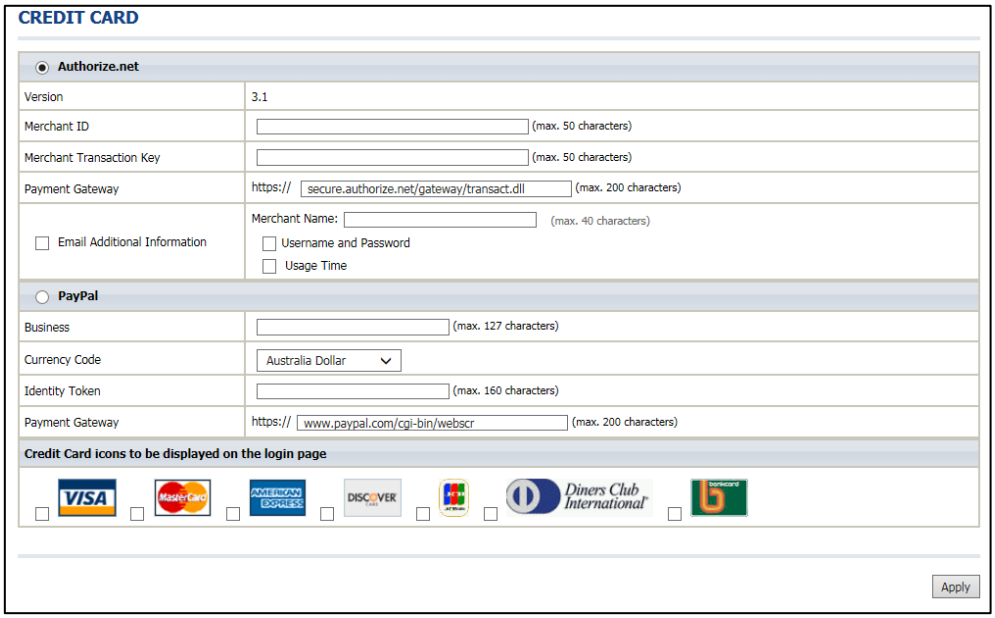


Figure 3-2-20 Credit Card Setting Screen

Item	Default	Description
Authorize.net		
Version	3.1	This field displays the merchant version.
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification Number that you're received from your Merchant Provider. The maximum character of the Merchant ID is 50.
Merchant Password	This is a Merchant password that you're received from your Merchant Provider.	
Need	Disable	If your Merchant Provider need password to authorize, click the check box to enable this function.
Password	Empty	Enter your Merchant password.
Merchant Transaction Key	Empty	The Merchant Transaction Key can be obtained directly from "Authorize.net". The Merchant Transaction Key is similar to a password and is used by the Payment Gateway to authenticate transactions. The maximum character of the Merchant Transaction Key is 50.
Payment Gateway	https://secure.authorize.net/gateway/transact.dll	Enter the address of Payment Gateway.
Email Additional Information	The Email Additional Information included subscriber username and password would be sent to subscriber.	
Email Additional Information	Disable	Indicates whether Email additional information should be sent to the subscriber (customer).
Merchant Name	Empty	Enter the merchant's company name. The maximum allowed characters length is 40.
Username and Password Enable/Disable	Disable	The Email Additional Information included subscriber username and password would be sent to subscriber.
Usage Time Enable/Disable	Disable	The Email Additional Information included subscriber usage time would be sent to the subscriber.
Paypal		
Business	Empty	Enter your Merchant PayPal account. This is a Merchant Identification account that you're register on PayPal. The maximum character of the Business is 127.
Currency Code	Australia dollar	To Drop-down the list. It's includes Australia dollar, Canadian Dollar, Euro, Pound Sterling, Japanese Yen , U.S. Dollars, Czech Koruna, Danish Kroner, Hong Kong Dollars, Hungarian Forint, New Zealand Dollars, Norwegian Kroner, Polish Zloty, Singapore Dollars, Swedish Kronor, Swiss

Item	Default	Description
		Francs.
Identity Token	Empty	Enter the Identities token form merchants profile in the Paypal site. The maximum character of the Identity Token is 160.
Payment Gateway	https://www.paypal/cgi-bin/webscr	Enter the address of Payment Gateway. The maximum character of the payment gateway is 100.
Credit Card icons to be displayed on the login page		Click on check box to display credit card icon on the login page.

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

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

3-2-3 Management

3-2-3-1 Syslog

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

Syslog Setting

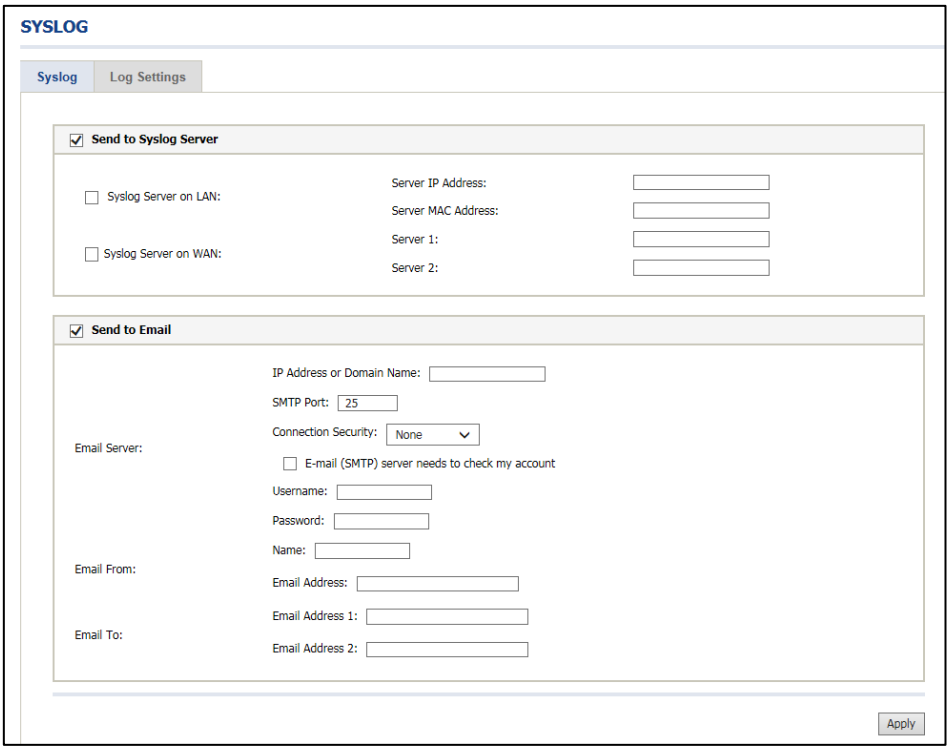


Figure 3-2-21 Syslog Setting Screen

Item	Default	Description
Send to Syslog Server	Disable	Enables or disables the syslog server function.
Syslog on LAN		
Server IP Address	Empty	Enter syslog server's IP address. The UAG50 will send all of its logs to the specified syslog server.
Server MAC Address	Empty	Enter the syslog server's MAC address. The UAG50 will send all of its logs to the specified syslog server.

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

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

Note: The UAG50 supports sending and receiving of DUT logs using web-based mail services, such as Yahoo Mail, Gmail and Outlook.com.

Log Categories

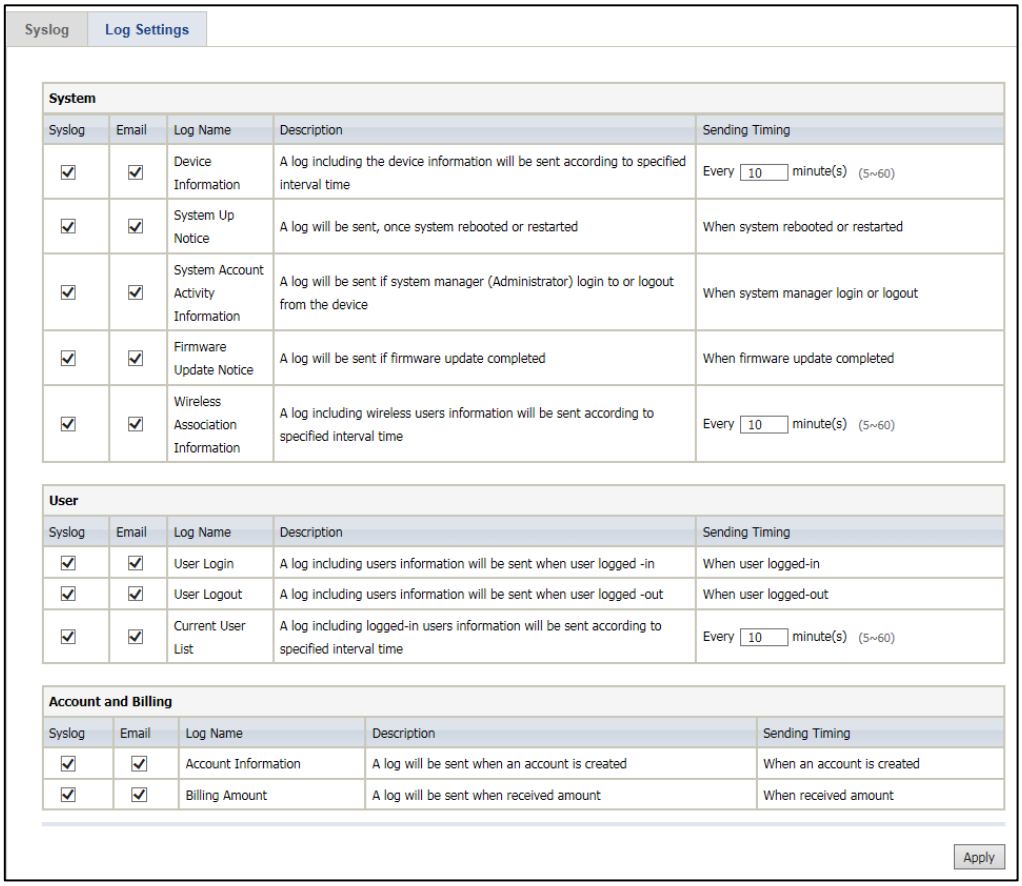


Figure 3-2-22 Log Settings Screen

Item	Default	Description
System		
Device Information	Every 10 minute(s)	The range is 5~60 minutes. The log included system information would be sent according to specified interval time. **Format：** PRODUCT=UAG50:VER=2.00.00;LOGNAME=DVI; DATE=07Mar26;TIME=11:30:00; 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;

Item	Default	Description
		LANRXERROR=99999;WIRELESSTXOK=99999;WIRELESSRXOK=99999; WIRELESSTXERROR=99999;WIRELESSRXERROR=99999; WAN_QUALITY=5;
System Up Notice	When system rebooted or restarted	If device have been rebooted or restarted, the log would be sent. **Format：** PRODUCT=UAG50;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
System Account Activity Information	When system manager login or logout	A log will be sent if system manager (Administrator) login to or logout from the device **Format：** PRODUCT=UAG50;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; **Account Name** = Admin | Supervisor | Operator **Status**= Login | Logout | Idle_Time_Out

Item	Default	Description
Firmware Update Notice	When firmware update completed	A log will be sent if firmware update completed **Format:** PRODUCT=UAG50;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_FRIMWARE=v1.00.01; NEW_FIRMWARE=v1.00.02 **Message** = Success | Fail
Wireless Association Information	Every 10 minute(s)	The range is range 5~60 minutes. A log including wireless users information will be sent according to specified interval time. **Format:** PRODUCT=UAG50;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;
User		
User Login	When user logged-in	A log including users information will be sent when user logged–in **Format:** PRODUCT=UAG50;VER=2.00.00;LOGNAME=ULI;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_NAME=asdfg12;USER_IP=172.16.0.1; USER_MAC=02-34-3e-01-00;INTERFACE=Ethernet; USER_TYPE=Dynamic; **User Type** = Dynamic / Super / User Agreement / Radius / No-Auth
		When User Replenish login format: PRODUCT=UAG50;VER=2.00.00;LOGNAME=URP;DATE=07Mar26; TIME=15:23:32; WANMAC=09-00-0e-00-00-01;

Item	Default	Description
		LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03; IP_ADDRESS=210.66.37.21;USER_NAME=asdfg12; REP_USER_NAME=kifm2fs3;USER_IP=172.16.0.1; USER_MAC=02-34-3e-01-00; INTERFACE=Ethernet; USER_TYPE=Dynamic; USED_TIME=24:00:00;TIME_LEFT=24:00:00 **User Type** = Dynamic / Radius
User Logout	When user logged-out	A log including users information will be sent when user logged –out **Format:** PRODUCT=UAG50;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 =172.16.0.1; 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 **User Type =** Dynamic / Super / User Agreement / Radius / No-Auth
Current User List	Every 10 minute(s)	The range is Range 5~60 minutes. A log including logged-in users information will be sent according to specified interval time **Format:** PRODUCT=UAG50;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=172.16.0.2,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=172.16.0.3,USER_MAC=0

Item	Default	Description
		2-34-3e-01-02, INTERFACE=Wireless,USER_TYPE=Dynamic,RXDATA=1234 , TXDATA=1234,USED_TIME=24:00:00,SESSION=100,WLAN_ SIG=100%; **User Type** = Dynamic / Super / User Agreement / Radius / No-Auth **User Name** = If the type of user is Super/User Agreement/No-Auth , the username=****
Account and Billing		
Account Information	When an account is created	A log will be sent when an account is created **Format:** PRODUCT=UAG50;VER=2.00.00;LOGNAME=ACI;DATE=07M ar26; 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; ACCOUNT_TYPE=TimetoFinish; ACCOUNT_SERIAL=000002; ACCOUNT_PRICE= USD20.00; ACCOUNT_USAGE_TIME=10:59:59; BILLING_INDEX=1;BILLING_UNIT=2; **Account Type** = TimeToFinish / Accumulation / PostPaid **Account Price = Currencyxx.xx** **Currency** = AUD | CHF | EUR | GBP | JPY | RIY | USD
Billing Amount	When received amount	A log will be sent when received amount **Format:** PRODUCT=UAG50;VER=2.00.00;LOGNAME=BLA; 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_NAME=username; BILL_TYPE=Cash, BILL_AMOUNT= USD50.00 **Billing Type**= Cash | Credit_Card； **Billing Amount** = xx.xx **Currency** = AUD | CHF | EUR | GBP | JPY | RIY | USD……

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.

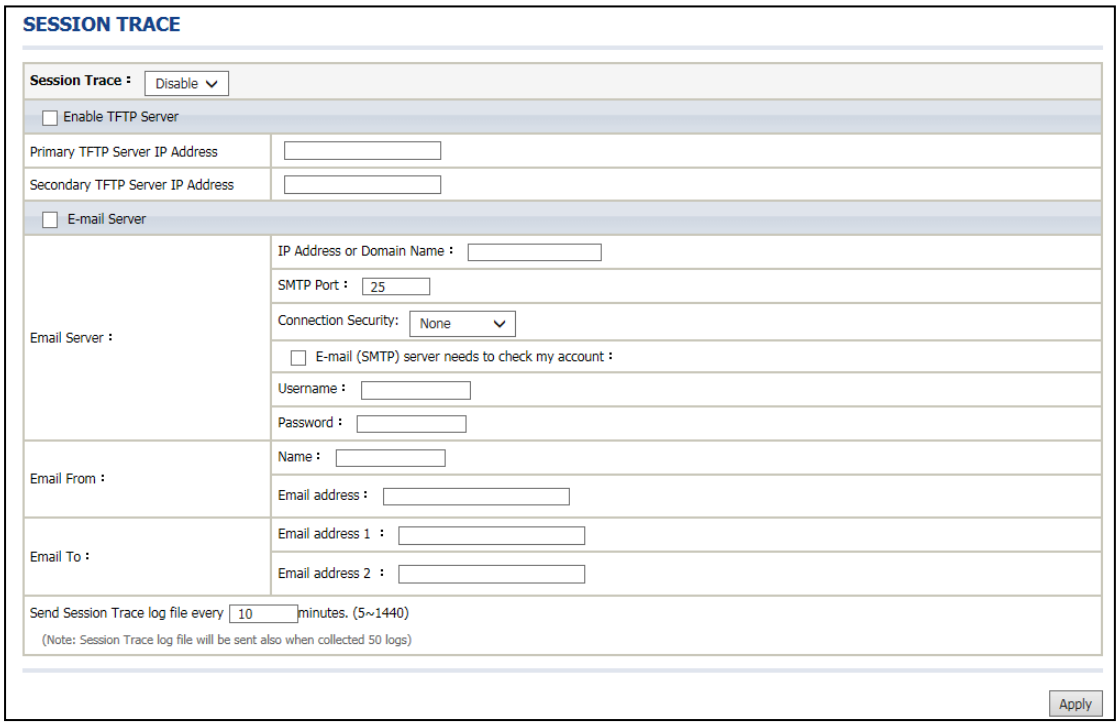


Figure 3-2-23 Session Trace Setting Screen

Item	Default	Description
TFTP Server		
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	Empty	Enter the IP address of the second TFTP server.

Item	Default	Description
Address		
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).
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	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
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.

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.

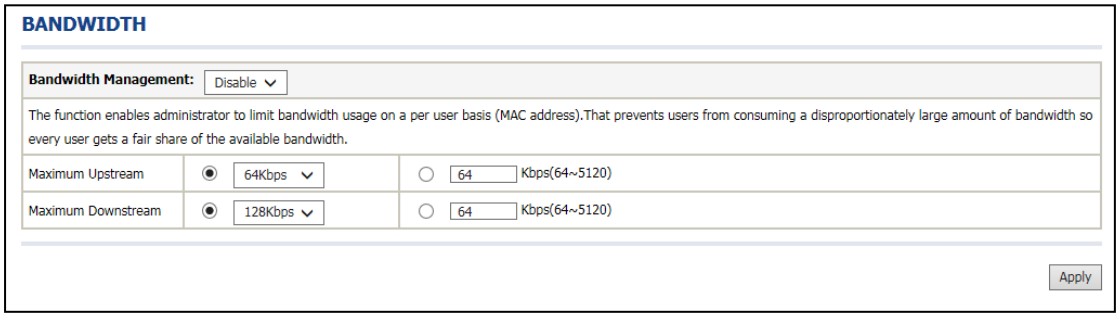


Figure 3-2-24 Bandwidth Setting Screen

Item	Default	Description
Bandwidth	Enable	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.

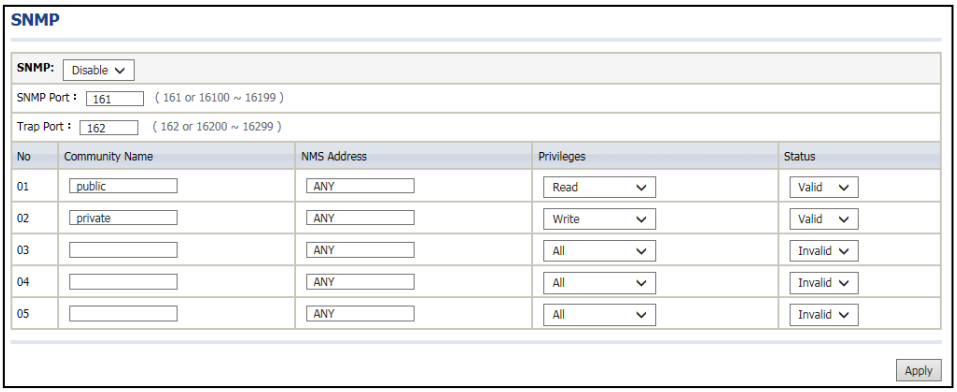


Figure 3-2-25 SNMP Setting Screen

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. 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.
Trap Port	162	
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 UAG50 system. Because some network devices might be constructed under the UAG50. However these devices needn't be checked and authorized. The UAG50 provides a pass through list and the administrator can control which devices can be pass through with authentication.

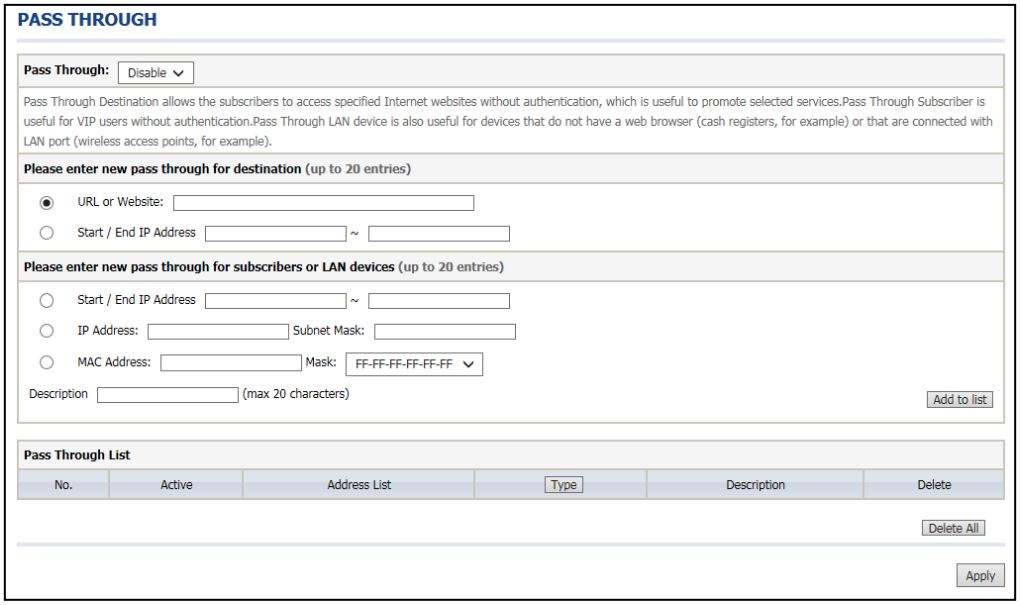


Figure 3-2-26 Pass through Setting Screen

Item	Default	Description
Pass Through	Enable	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 UAG50. (iOS 6 device and later is required.) 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.

Item	Default	Description
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 UAG50.	
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.

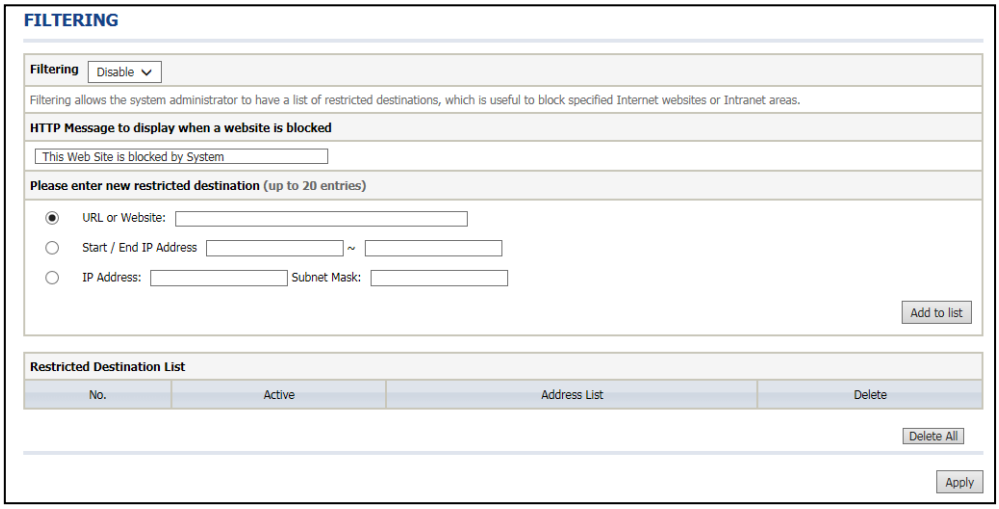


Figure 3-2-27 Filtering Setting Screen

Item	Default	Description
Filtering	Enable	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.
Restrict Destination		
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.
Address List	-	Display the filtering address(s).
Delete	Disable	Select the check boxes and click '**Delete**' to delete the filtering address(s).

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

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

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

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.

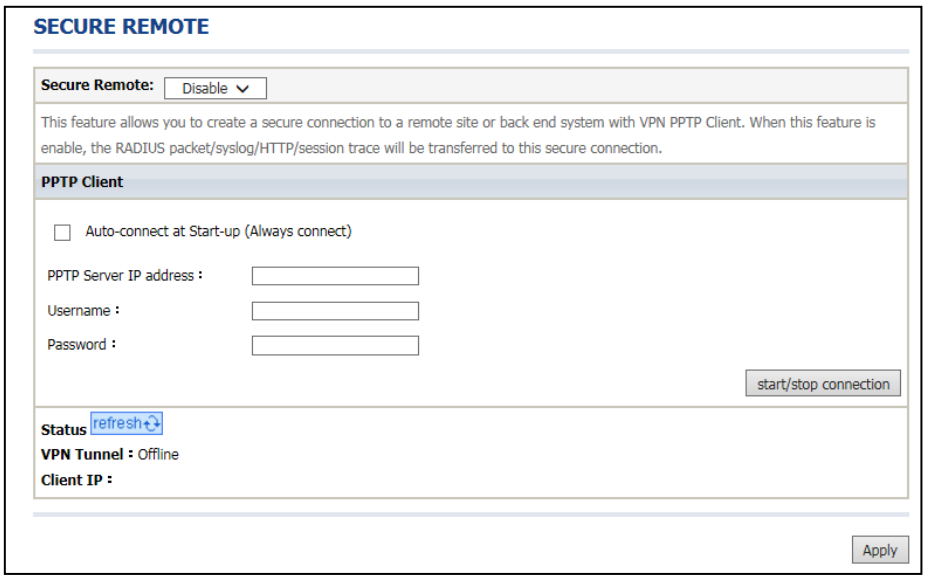


Figure 3-2-28 Secure Remote Setting Screen

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 UAG50 System configuration.

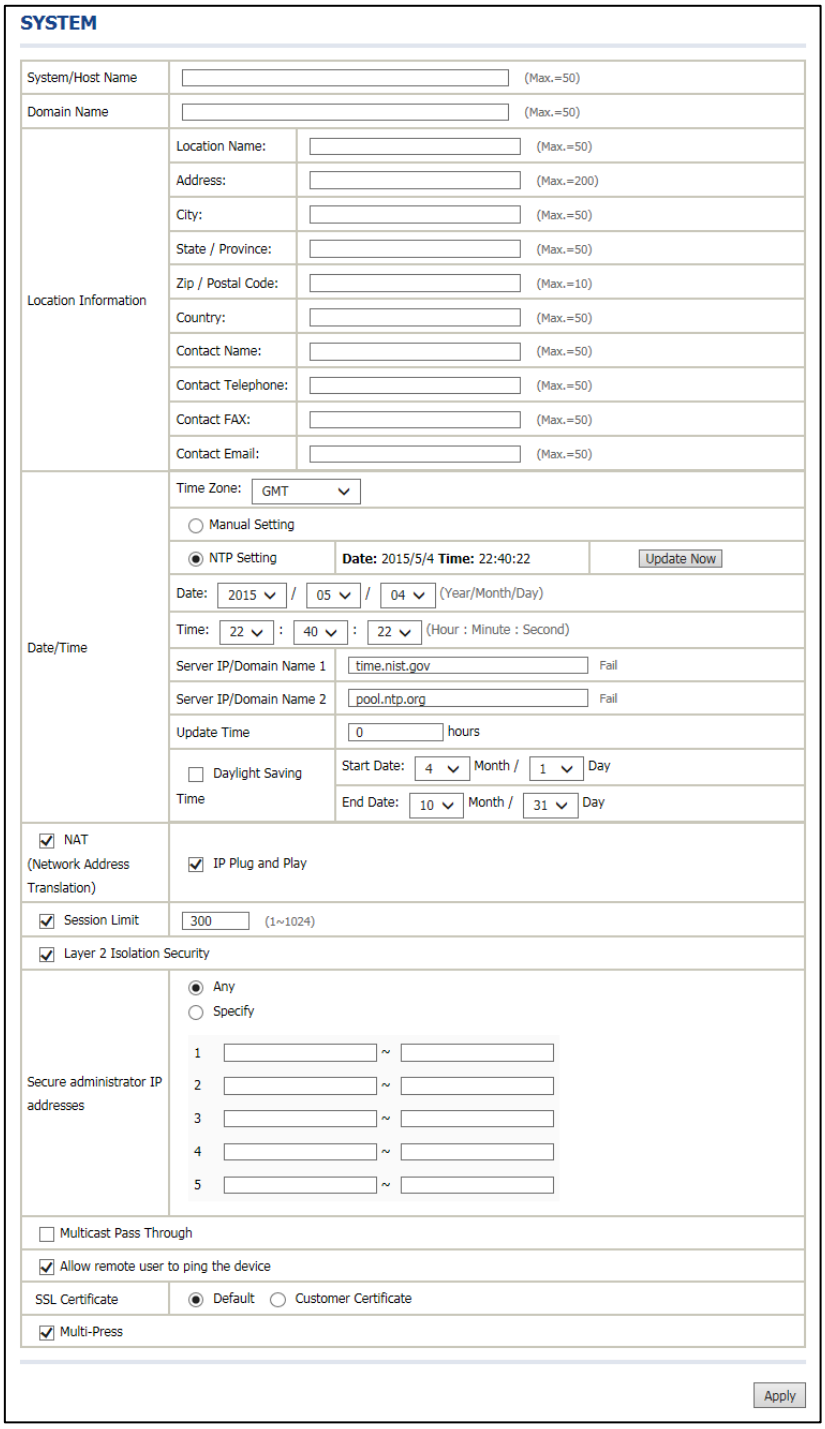


Figure 3-2-29 System Setting Screen

Item	Default	Description
System/Host Name	Empty	The system name can consist of up to 50 alphanumeric characters.
Domain Name	Empty	The Domain name can consist of up to 50 alphanumeric characters.
Location Information	Empty	Enter your location information.
Date/Time		
Time Zone	GMT	Select the appropriate time zone for your location.
Manual Setting	Click **Manual Setting** 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 UAG50. Adjust the begin time and end time.
NAT (Network Address Translation)		
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 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, everyone cannot communicate with each other.
Secure administrator IP Addresses	Any	Options: Any and Specify. Administrator can specify 5 IP addresses or a range to allow remote control access from network.

Item	Default	Description
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 UAG50 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

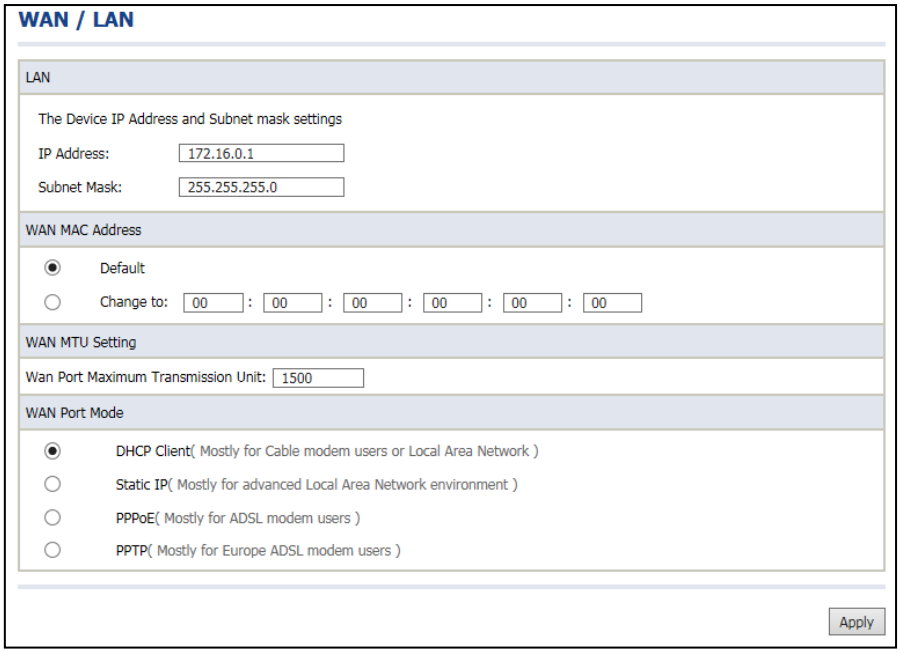


Figure 3-2-30 WAN/LAN Setting Screen

Item	Default	Description
LAN		
IP Address	172.16.0.1	The internal LAN IP address of your UAG50.
Subnet Mask	255.255.255.0	Enter the subnet mask for the IP address.
WAN MAC Address		
IP Address	The default MAC address is set to the WAN physical interface on device.	
DHCP Client	The device can work as a DHCP client. This allows the device to obtain the IP address and other TCP/IP settings from your ISP. If your xDSL/Cable comes with this feature, please enable Use DHCP Client.	
Static IP		
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 DNS Server	A secondary DNS server IP address for the xDSL/Cable connection (provided by your ISP). If the primary DNS Server IP were not available, meanwhile, Secondary DNS Server IP would start in the same time.	
PPPoE		

Item	Default	Description
User Name	Empty	Enter your PPPoE account name. The user name can consist of up to 80 alphanumeric characters and is case sensitive.
Password	Empty	Enter your PPPoE password. The password can consist of up to 80 alphanumeric characters and is case sensitive.
PPP MTU Setting	1492	MTU (Maximum Transfer Unit) specifies maximum transmission unit size.
TCP MSS Setting	1452	MSS (Maximum Segment Size) specifies maximum segment size.
Service Name	Empty	Enter the service name provided by your ISP. The service name can consist of up to 64 alphanumeric characters and is case sensitive.
Connect on Demand	Enable	You can configure your UAG50 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 UAG50 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	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	

3-2-5-3 Server

Server

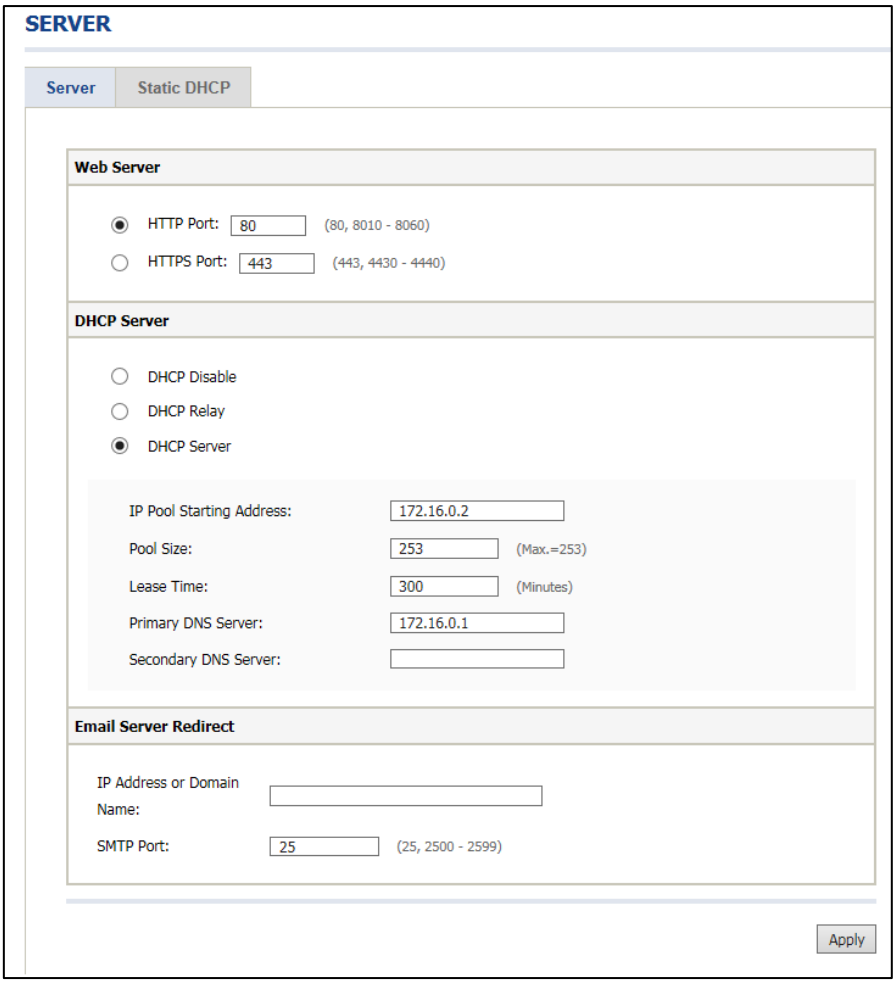


Figure 3-2-31 Server Setting Screen

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 the UAG50 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 UAG50 system, please tab the "https://HTTPS Port IP Address: Port Number".
Administrator Idle-Timeout	5 Minutes	The idle time out valid range is 1-1440. If the idle time out is set as 5

Item	Default	Description
		minutes, it means if the administrator doesn't send 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 UAG50's DHCP server is turned on and running by default when you install it in your network.	
DHCP Pool Starting Address	172.16.0.2	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	To prevent some subscriber's original Email server may protect by firewall or NAT network. UAG50 provides an extra Email server parameter to forward the subscriber's Email. The UAG50 not only forwards the subscribers' E-mail via other E-mail server but also changes the SMTP header. The recipient of your E-mail sees the message as if you sent it from your local Internet Service Provide, not form the hotel or other place. Note: Before setting this sever, please make sure the e-mail sever relay function is opened. It must not exceed 50 characters.	
IP Address or Domain Name	Empty	Enter the E-mail server IP address or domain name.
SMTP Port	25	Enter the SMTP port number for mail server. The SMTP port allowed range is 25 or 2500 to 2599.

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

Static DHCP

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

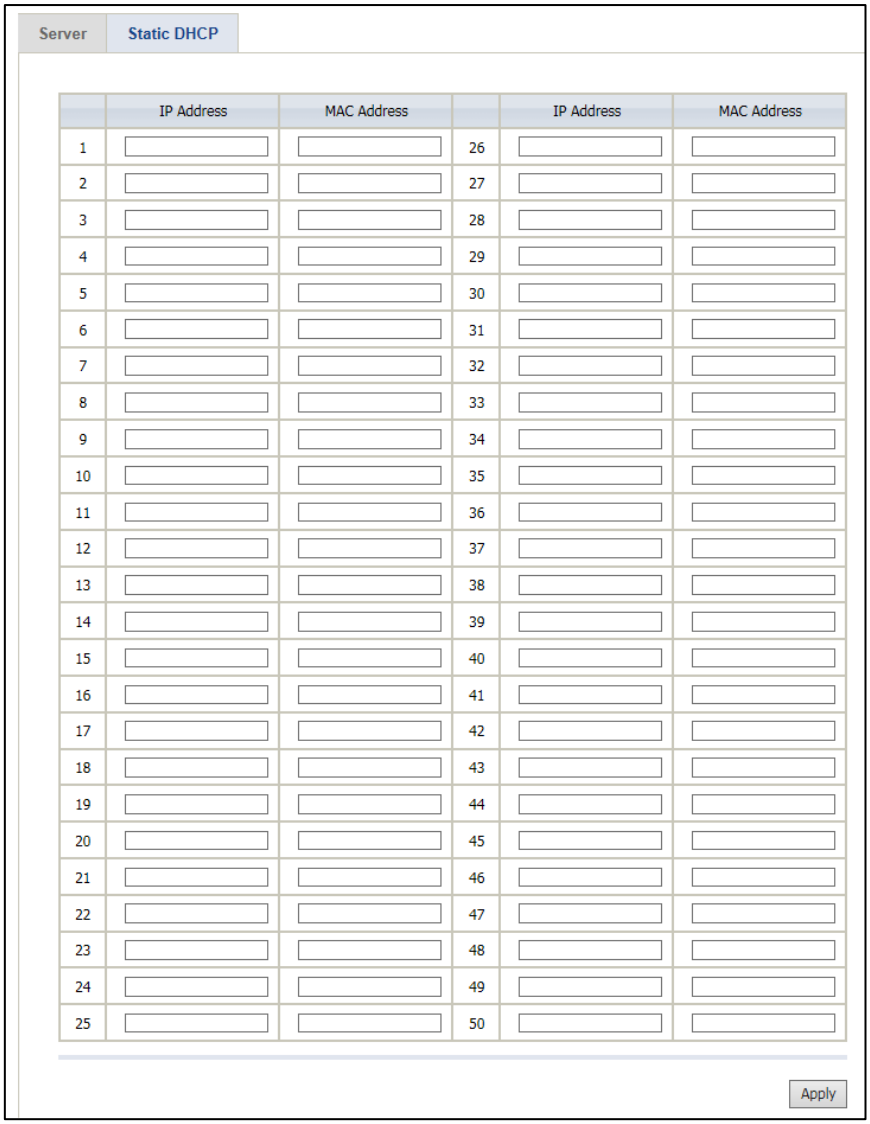


Figure 3-2-32 Server Setting Screen

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 UAG50 provides three different login page formats, including standard, redirect, advanced and frame format.

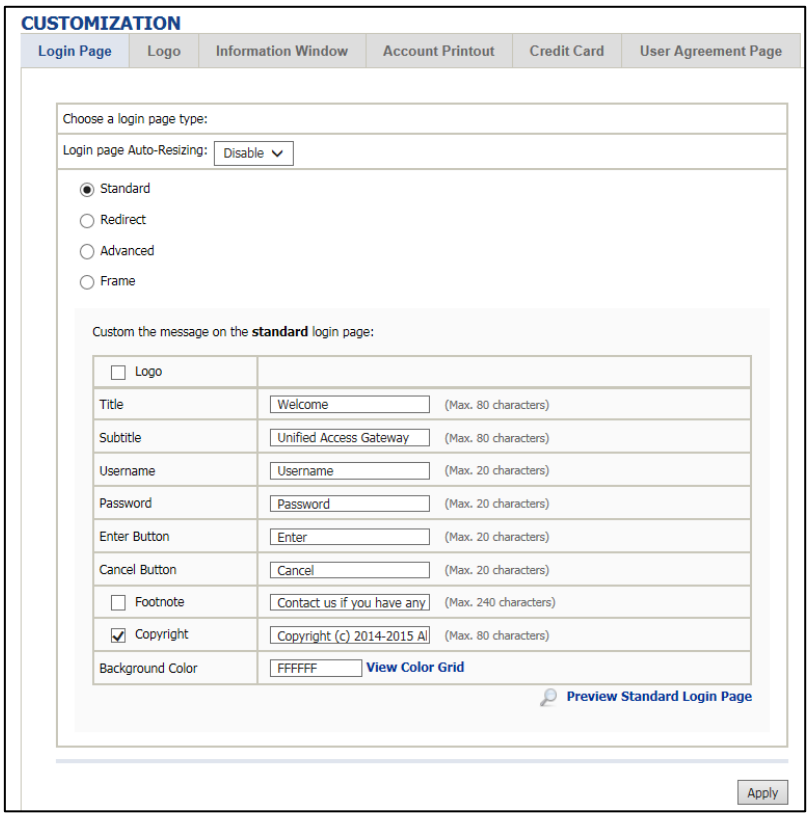


Figure 3-2-33 Customization Setting Screen

Item	Default	Description
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.	
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.

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 3-2-34 Login Page Screen		
edirect	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.		

Item	Default	Description

Redirect Login Page Code

```
<html>
<head>
<title>UAG50</title>
</head>
<body style="font-family: Arial" bgcolor="#FFFFFF">
<form method="post" action="http://1.1.1.1/login.cgi" name="apply">
<div align="center">
<table cellSpacing="0" cellPadding="0" width="50%" borderColorLight="#8e8e8e" border="1">
<tr>
<td align="center" width="100%" bgColor="#8e8e8e" height="24">
<font face="Arial, Helvetica, sans-serif" size="2" color="#FFFFFF"><b>Welcome</b></font>
</td>
</tr>
<tr>
<td align="center"> <table cellSpacing="0" cellPadding="4" width="100%" bgColor="#FFFFFF"
border="0"> <tr>
<td align="right" width="35%" style="font-family: Arial, Helvetica, sans-serif; font-size: 12pt">
<font color="#000000" size="2"><b>Username:</b></font>
</td>
<td width="65%">
<input type="text" name="username" id="userValue" size="25">
</td>
</tr>
<tr>
<td align="right" width="35%" style="font-family: Arial, Helvetica, sans-serif; font-size: 12pt">
<font color="#000000" size="2"><b>Password:</b></font>
</td>
<td width="65%">
<input type="password" name="password" id="passwdValue" size="25">
</td>
</tr>
<tr>
<td align="center" width="100%" style="font-family: Arial; font-size: 12pt" bgcolor="#F7F7F7"
colspan="2">
<input type="submit" name="apply" value="Enter" style="font-family: Arial">
<input type="reset" name="clear" value="Clear" style="font-family: Arial">
</form>
</td>
</tr>
</table>
</td>
</tr>
</table>
</div>
</body>
</html>
```

Close

Figure 3-2-35 *Preview Redirect Login Page Code*

Advanced	This function allow user to design login page of UAG50.	
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

Item	Default	Description
		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.
Frame	If "Frame" is selected the subscriber login page will be separate into Top Frame and Bottom Frame. Bottom Frame is a default format for username and password input, Top Frame is allowed to be specified a URL to link.	
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.

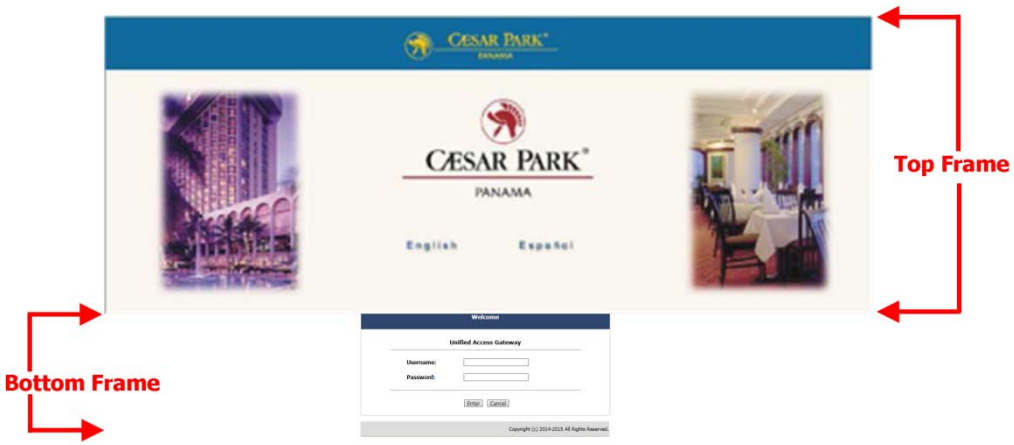


Figure 3-2-36 Example-Login Page Screen

Logo

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

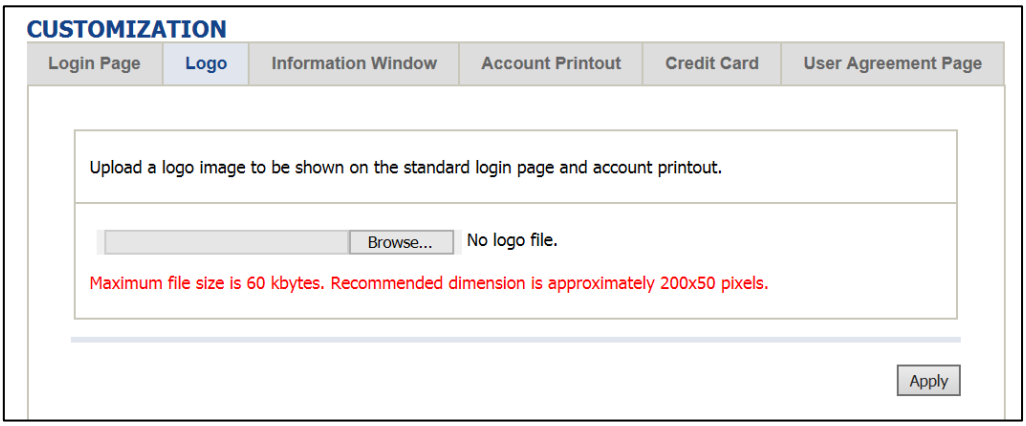


Figure 3-2-37 Logo Setting Screen

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.

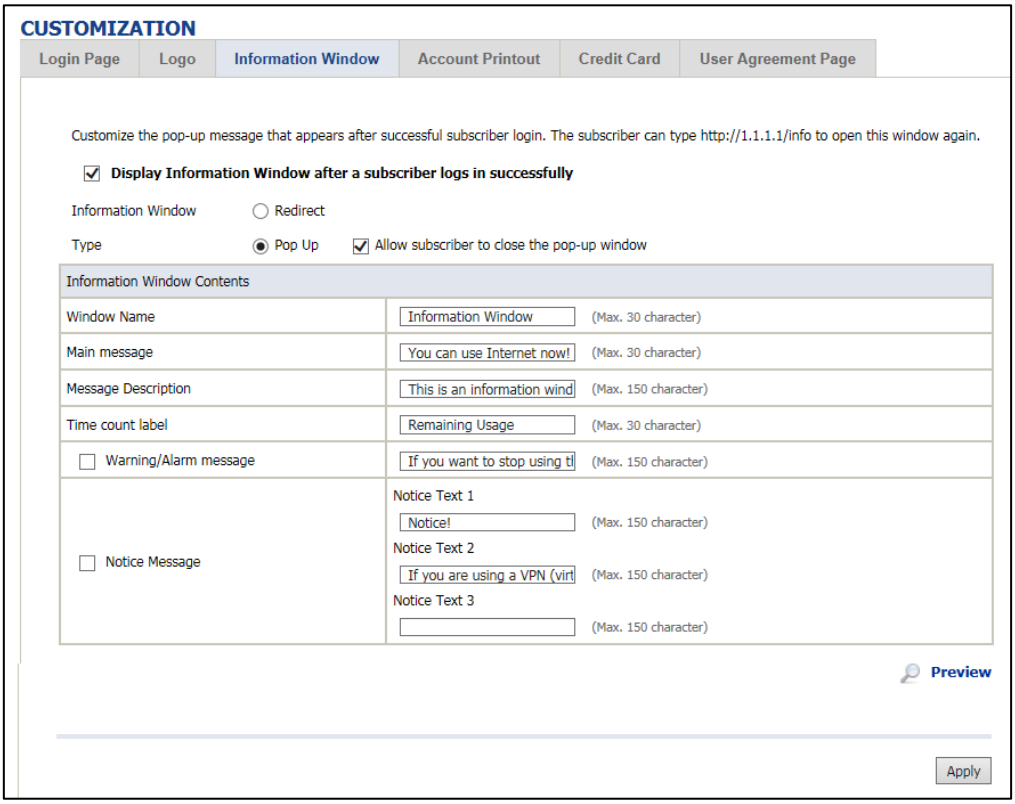


Figure 3-2-38 Example-Login Page Screen

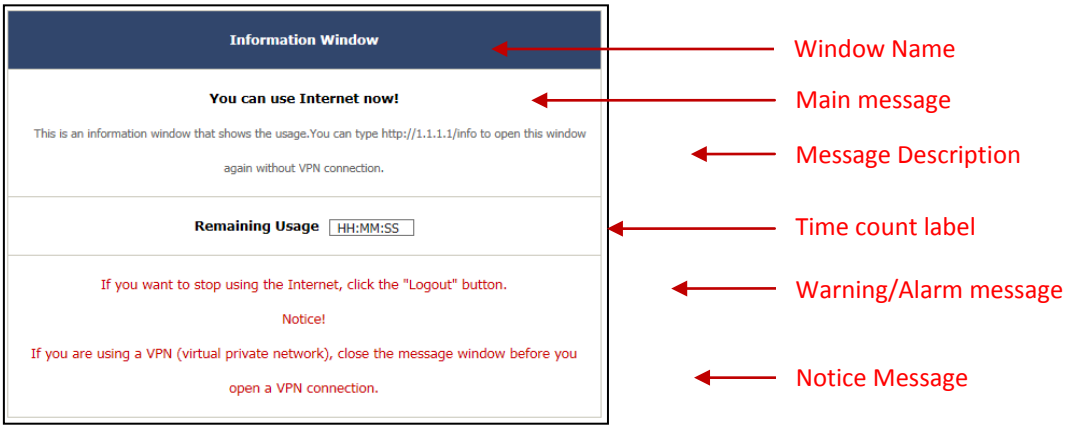


Figure 3-2-39 Information Window

Billing Type=Time to Finish

Can be topped up by subscriber=Enable

Figure 3-2-40 Information Window

Billing Type=Accumulation

Can be topped up by subscriber=Disable

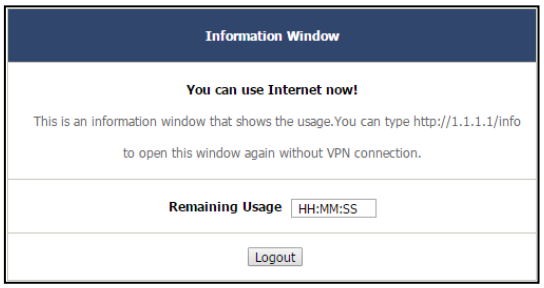


Figure 3-2-41 Information Window

Billing Type=Accumulation

Can be topped up by subscriber=Enable

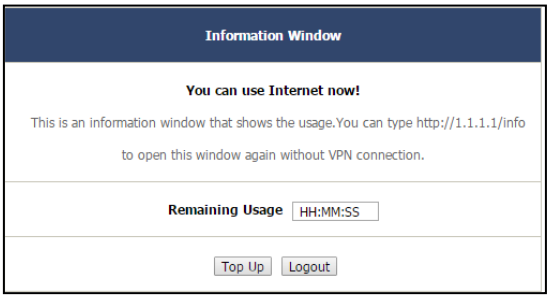


Figure 3-2-42 Information Window

Account Printout

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

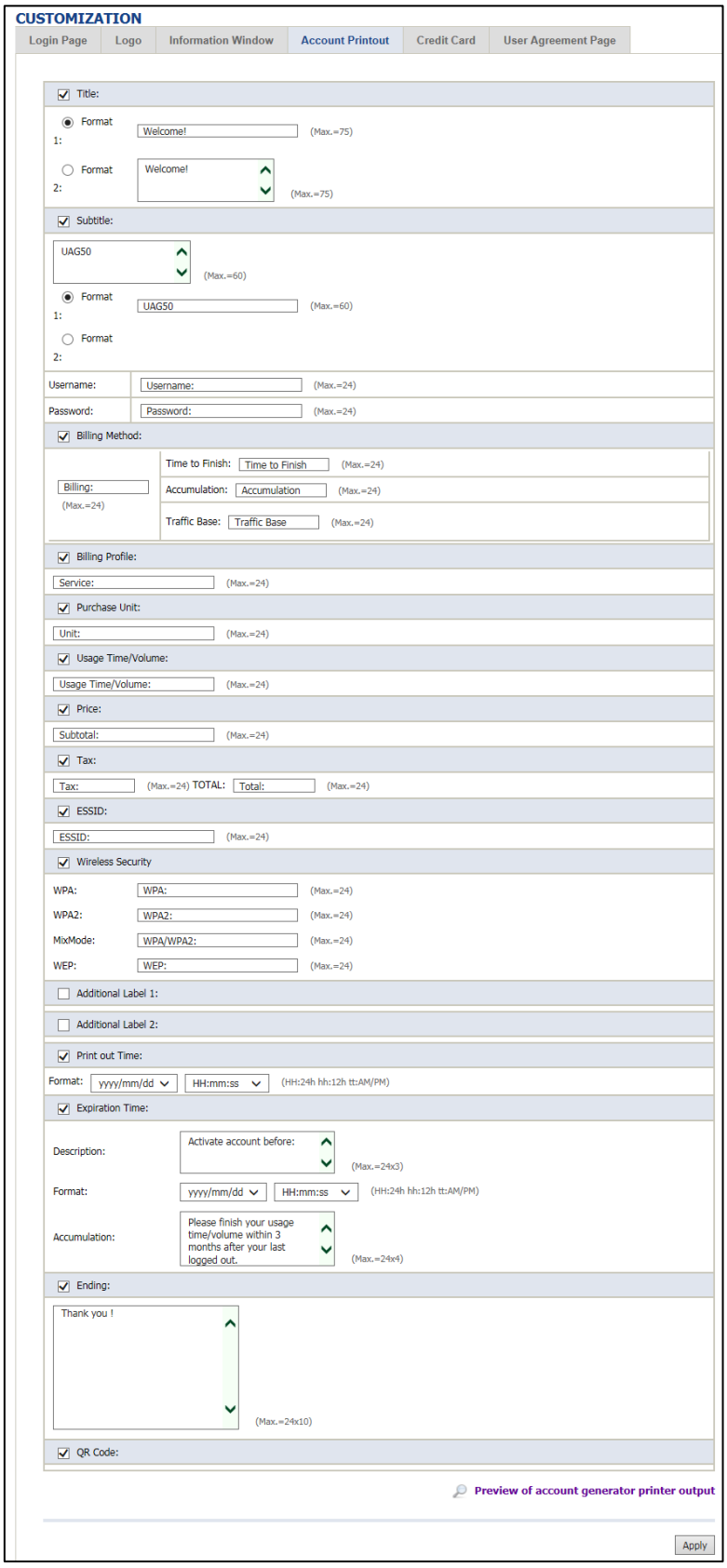


Figure 3-2-43 Account Printout Customization Setting Screen

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

Credit Card

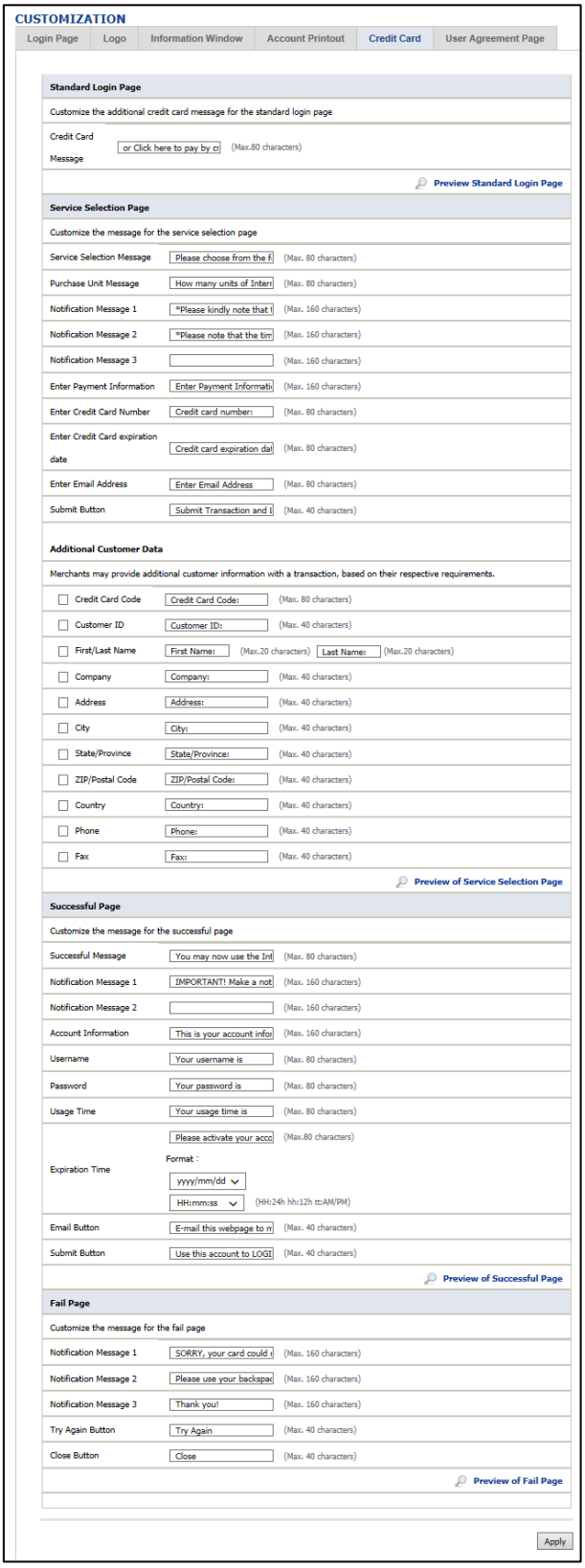


Figure 3-2-44 Credit Customization Setting Screen

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

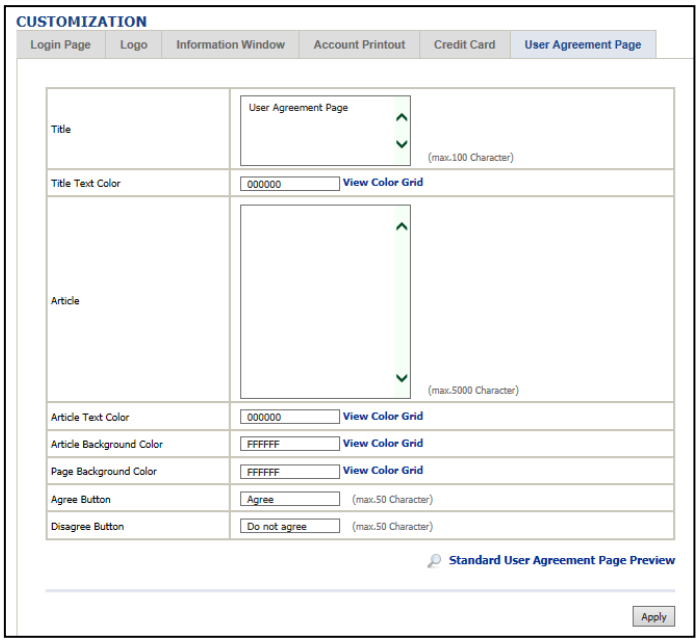


Figure 3-2-45 User Agreement Page Setting Screen

3-2-5-5 Portal Page

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

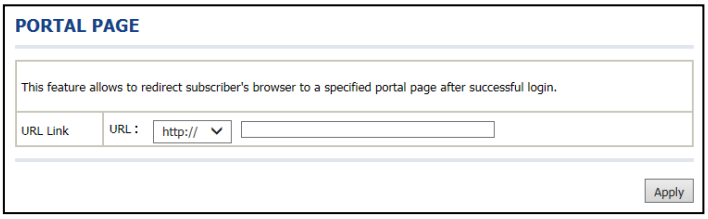


Figure 3-2-46 Portal Page Setting Screen

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.

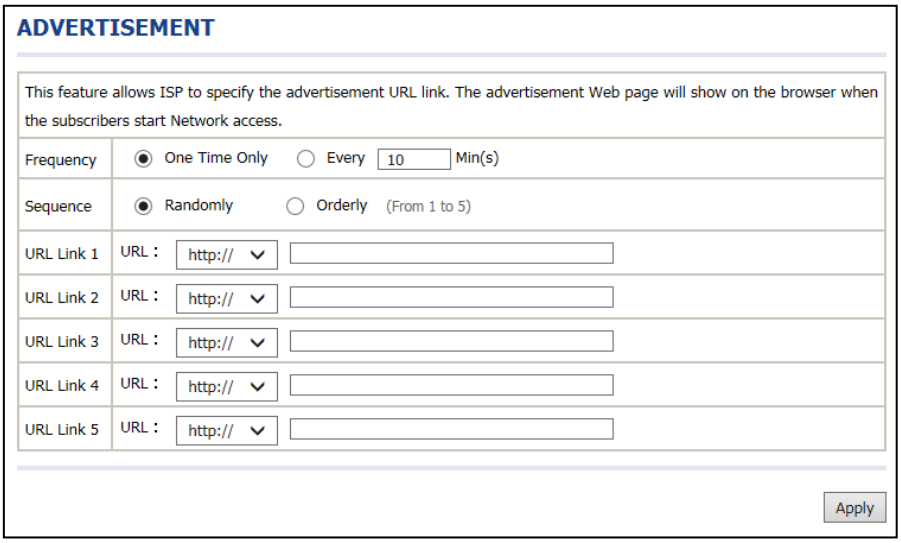


Figure 3-2-47 Advertisement URL Link Setting Screen

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 UAG50 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.

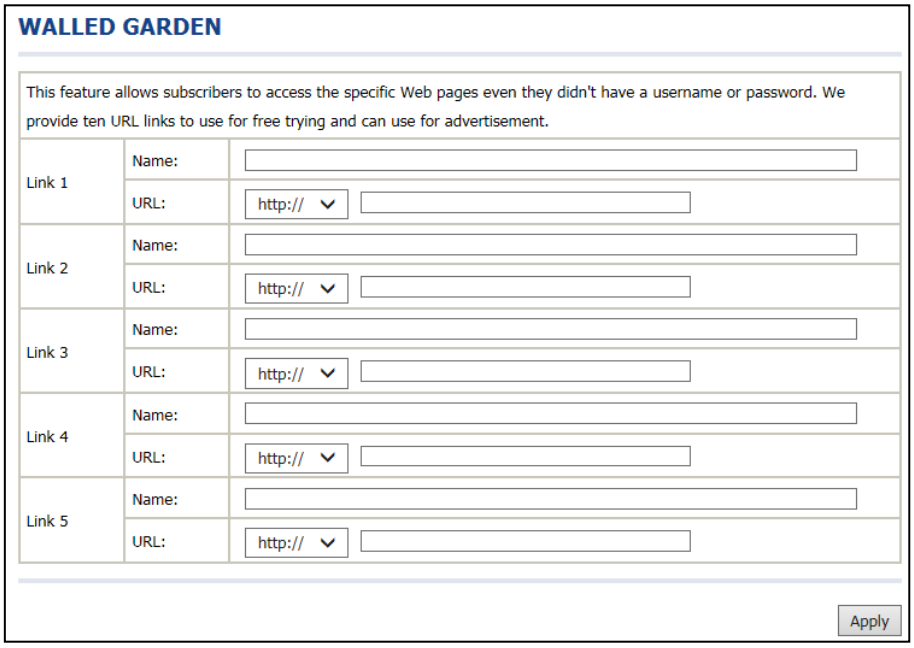


Figure 3-2-48 Walled Garden Setting Screen

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 UAG50 a new IP, the UAG50 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.

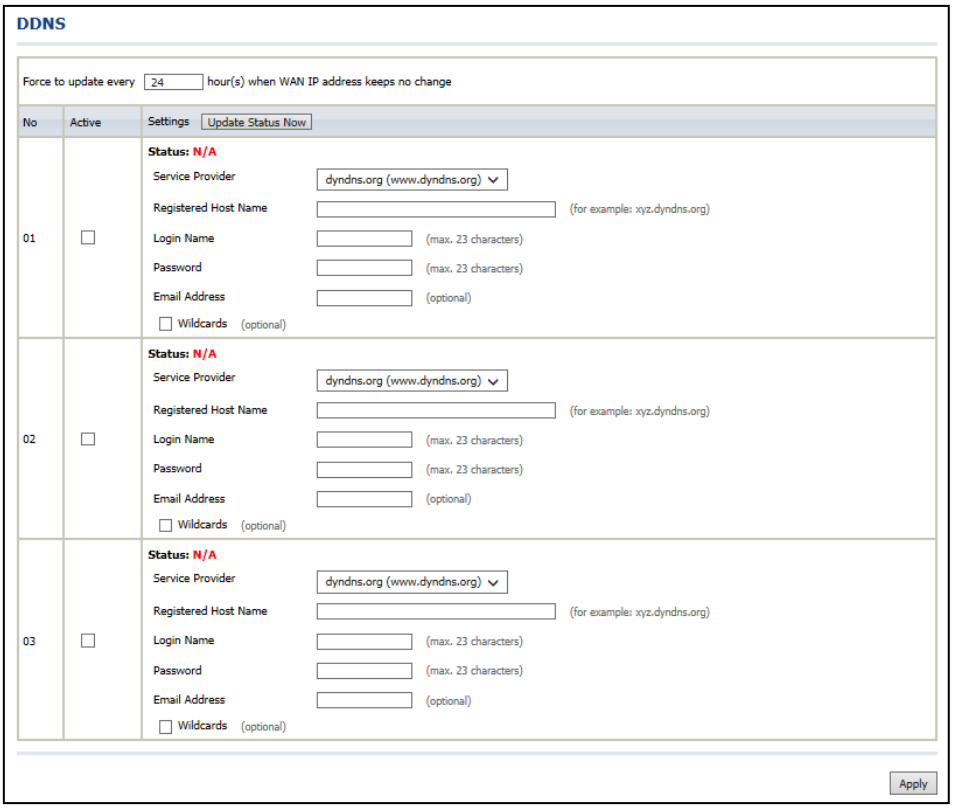


Figure 3-2-49 DDNS Setting Screen

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.	

Item	Default	Description
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

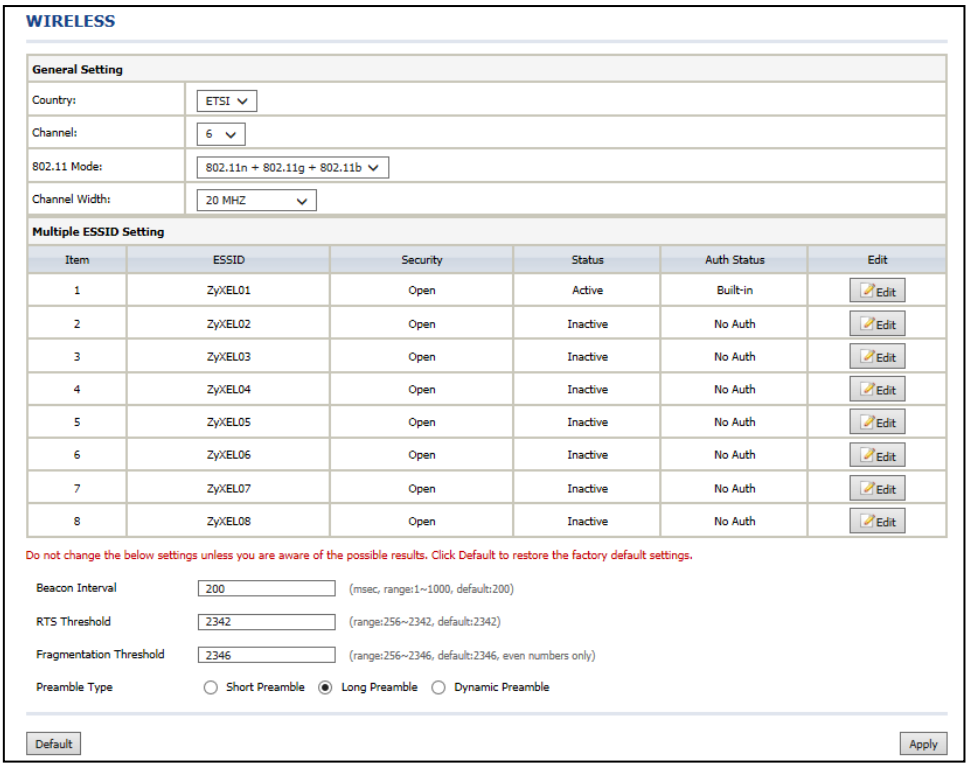


Figure 3-2-50 Wireless Setting Screen

Item	Default	Description
General Settings		
Country	ETSI	Select the country for wireless connection. ETSI : Channel 1~13 FCC: Channel 1~11
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	20 MHZ	Select the Channel Width for wireless connection.
Multiple ESSID Setting	Click **Edit** button for each of 8 ESSID setting.	

Item	Default	Description

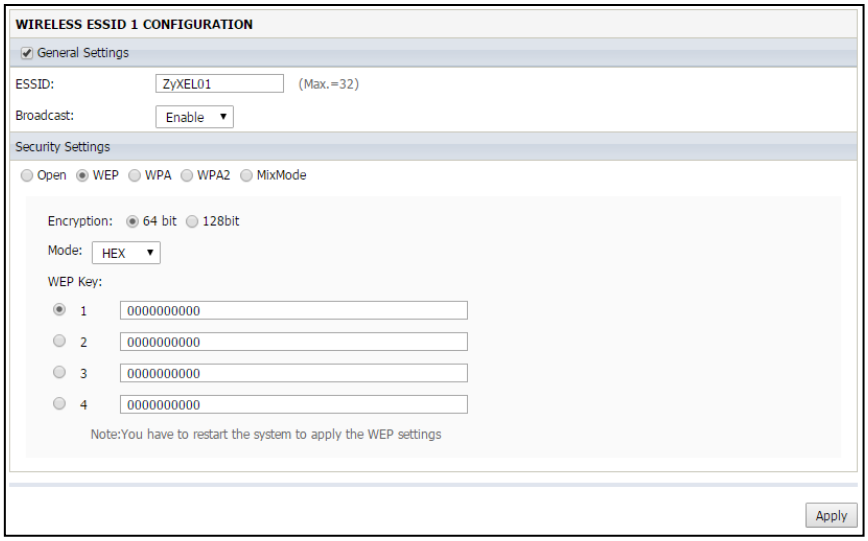
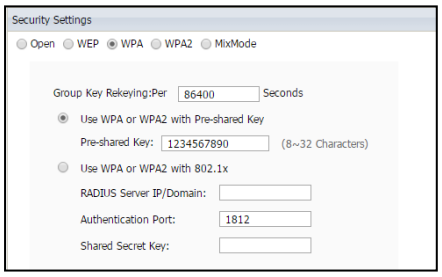



Figure 3-2-51 ESSID Setting Screen		
General Settings		
ESSID status	Active (ESSID1)	ESSID1 is active, and others are inactive by default.
ESSID name	The ESSID's name by default is "ZyXEL01". It is case sensitive and must not exceed 32 characters.	
Broadcast	Enable	This allows you to show or hide the 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	

Item	Default	Description
RADIUS Server IP/Domain	Empty	Enter the RADIUS server IP address or domain name. The maximum allowed characters length is 15.
Authentication Port	1812	Enter the authentication port number. The allowed numbers are from 0 to 65535.
Share Secret Key	Empty	Enter the RADIUS secret key
Beacon Interval	200	This value valid range is 1 to 1000 indicates the frequency interval of the beacon.
RTS Threshold	2347	This value valid range is 256-2342. This setting determines the packet size at which the UAG50 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 UAG50, or in areas where the clients are far apart and can detect only the UAG50 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 UAG50 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 UAG50 plugged in a USB to Ethernet adapter can expand the UAG50 Wi-Fi signal range. The administrator can connect UAG50 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.

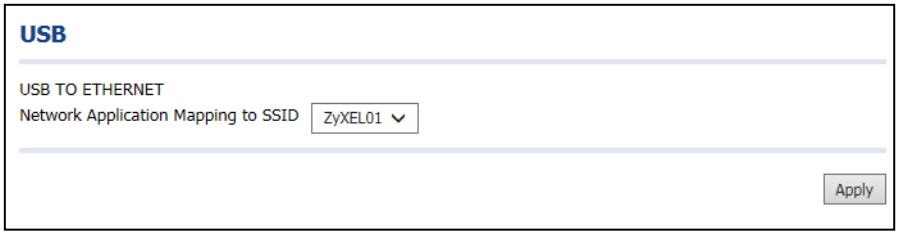


Figure 3-2-52 USB Setting Screen

3-2-5-11 Registration

You can register your UAG50 to get further services by clicking the URL link on this screen.

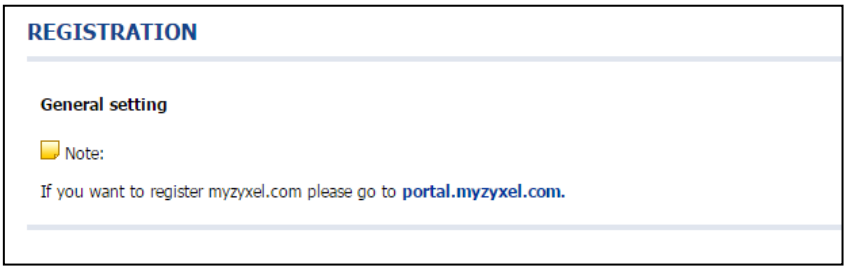


Figure 3-2-53 Registration Screen

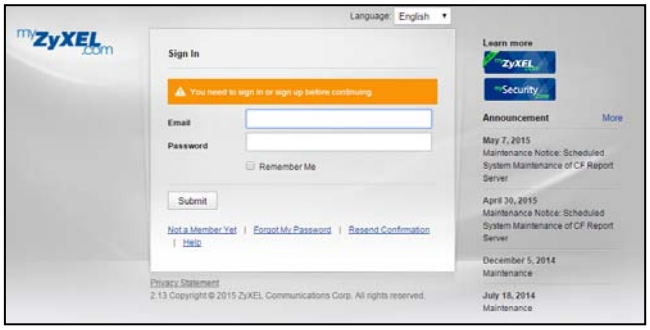


Figure 3-2-54 myzyxel.com Registration Website

3-3 System Status

Display UAG50 system basic status, including,

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

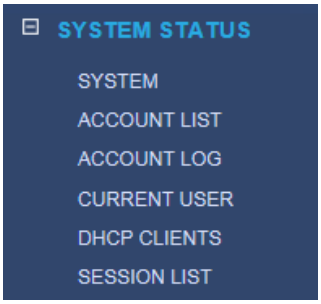
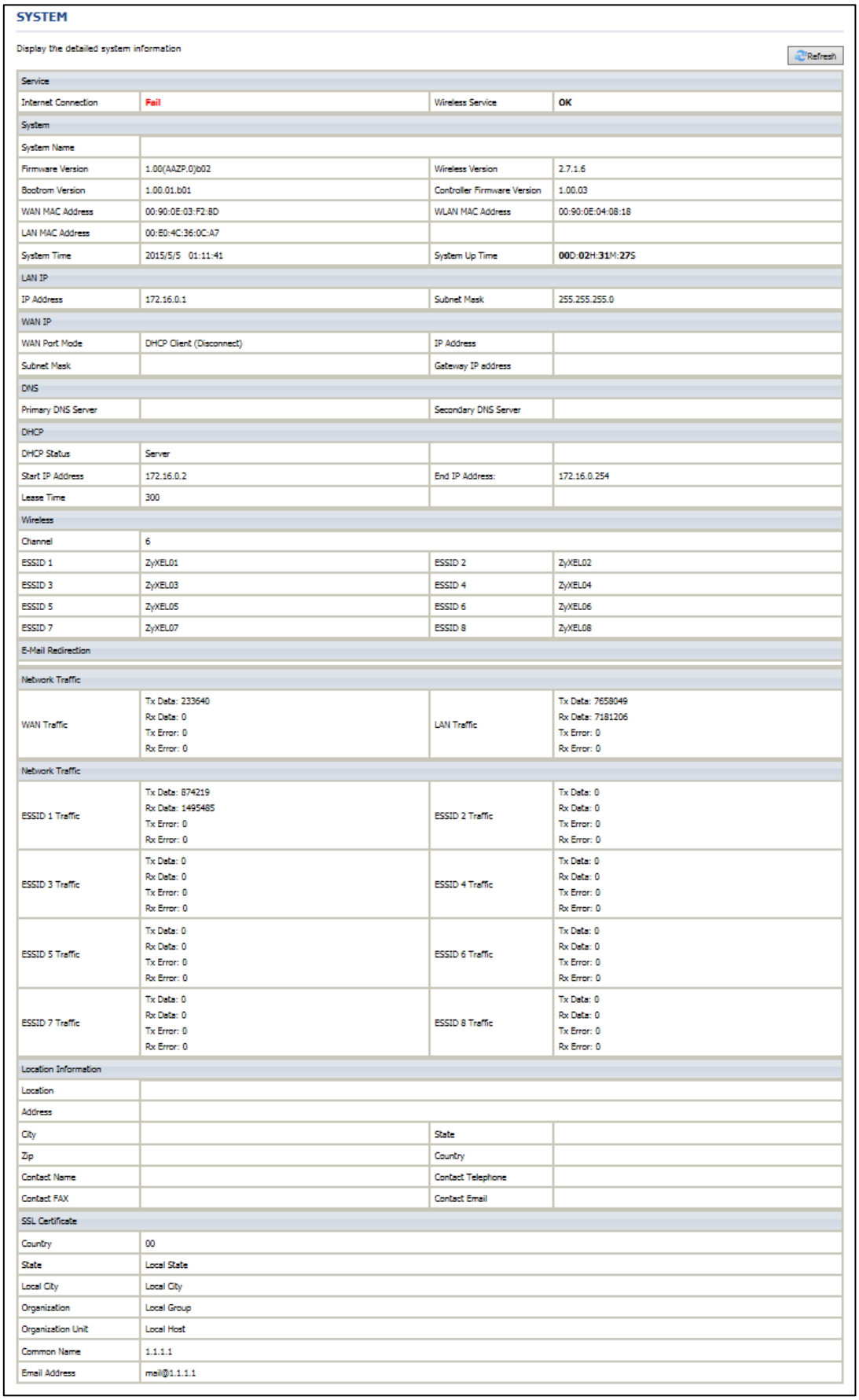


Figure 3-3-1 System Status Item Screen

3-3-1 System

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



SYSTEM

Display the detailed system information

Refresh

Service			
Internet Connection	Fail	Wireless Service	OK
System			
System Name			
Firmware Version	1.00(AAZP.0)b02	Wireless Version	2.7.1.6
Bootrom Version	1.00.01.b01	Controller Firmware Version	1.00.03
WAN MAC Address	00:90:0E:03:F2:8D	WLAN MAC Address	00:90:0E:04:08:18
LAN MAC Address	00:E0:4C:36:0C:A7		
System Time	2015/5/5 01:11:41	System Up Time	00D:02H:31M:27S
LAN IP			
IP Address	172.16.0.1	Subnet Mask	255.255.255.0
WAN IP			
WAN Port Mode	DHCP Client (Disconnect)	IP Address	
Subnet Mask		Gateway IP address	
DNS			
Primary DNS Server		Secondary DNS Server	
DHCP			
DHCP Status	Server		
Start IP Address	172.16.0.2	End IP Address:	172.16.0.254
Lease Time	300		
Wireless			
Channel	6		
ESSID 1	ZyXEL01	ESSID 2	ZyXEL02
ESSID 3	ZyXEL03	ESSID 4	ZyXEL04
ESSID 5	ZyXEL05	ESSID 6	ZyXEL06
ESSID 7	ZyXEL07	ESSID 8	ZyXEL08
E-Mail Redirection			
Network Traffic			
WAN Traffic	Tx Data: 233640 Rx Data: 0 Tx Error: 0 Rx Error: 0	LAN Traffic	Tx Data: 7658049 Rx Data: 7181206 Tx Error: 0 Rx Error: 0
Network Traffic			
ESSID 1 Traffic	Tx Data: 874219 Rx Data: 1495485 Tx Error: 0 Rx Error: 0	ESSID 2 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0
ESSID 3 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0	ESSID 4 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0
ESSID 5 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0	ESSID 6 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0
ESSID 7 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0	ESSID 8 Traffic	Tx Data: 0 Rx Data: 0 Tx Error: 0 Rx Error: 0
Location Information			
Location			
Address			
City		State	
Zip		Country	
Contact Name		Contact Telephone	
Contact FAX		Contact Email	
SSL Certificate			
Country	00		
State	Local State		
Local City	Local City		
Organization	Local Group		
Organization Unit	Local Host		
Common Name	1.1.1.1		
Email Address	mail@1.1.1.1		

Figure 3-3-2 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 personal Id, personal Id No, username, usage time/volume, time creted, login time, time/volume left expiration time and status.

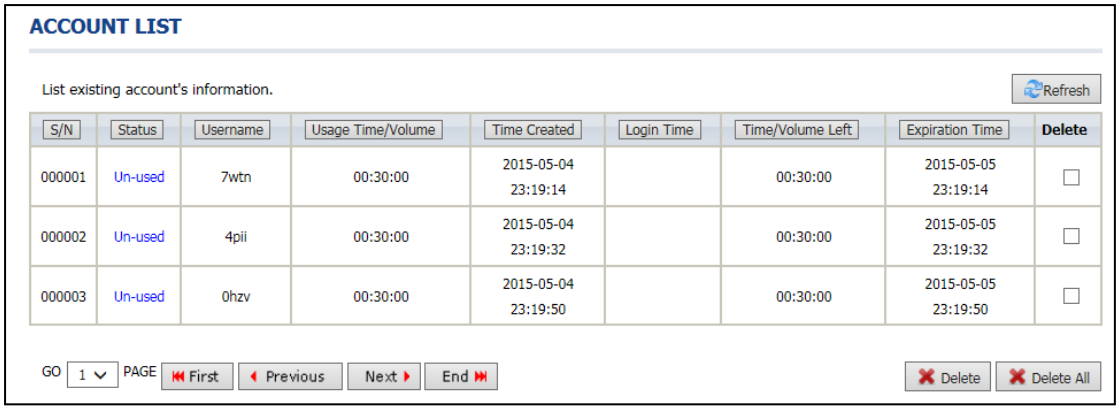


Figure 3-3-3 Account List

Click **refresh** button to update the account list page.

Click the column button (S/N, Status, Username, ….,etc.) to sort the column in ascending/descending order.

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

Click **Delete ALL** button to delete all accounts in account list.

Note: This page will refresh automatically every 5 minutes.

3-3-3 Account Log

The account log shows the accounts' log information.

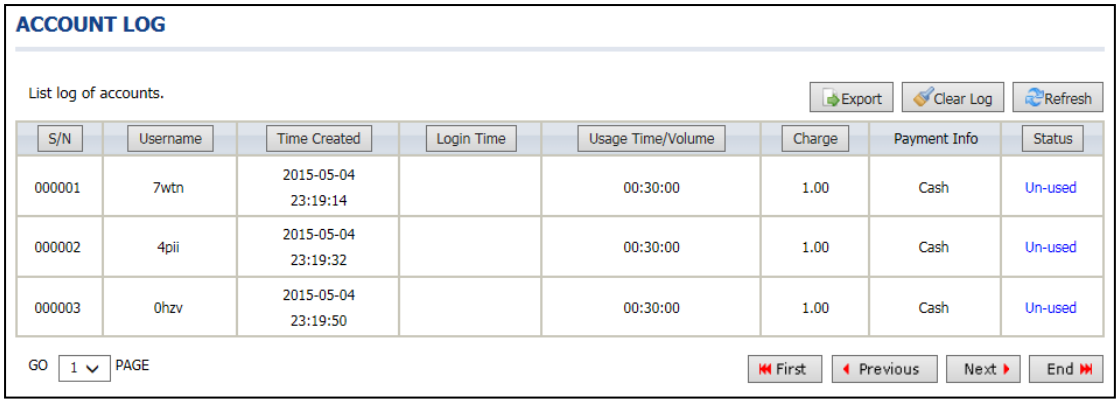


Figure 3-3-4 Account Log

Click Export to export the account logs to a text file format. (export.log)

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

Click **refresh** button to update the account log page.

Click the column button (S/N, Username, Time Created, …,etc.) to sort the column in ascending/descending order.

3-3-4 Current User

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

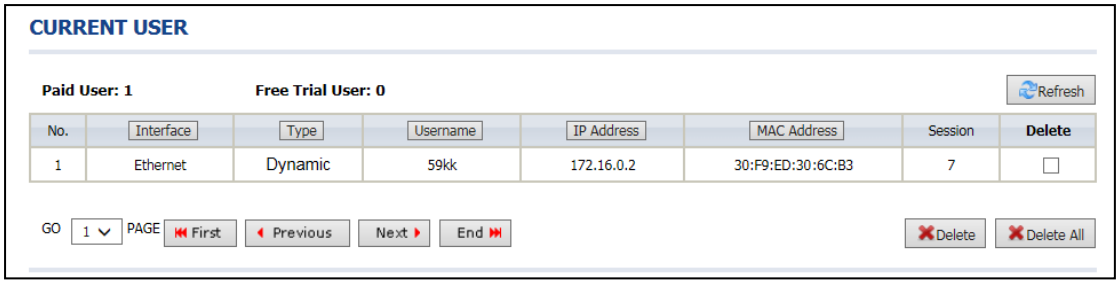


Figure 3-3-5 Current User List

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

Click the column button (Interface, Type, Username, IP Address, …, etc.) to sort the column in ascending/descending order.

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

Click **Delete ALL** to delete all accounts in current user list.

3-3-5 DHCP Clients

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

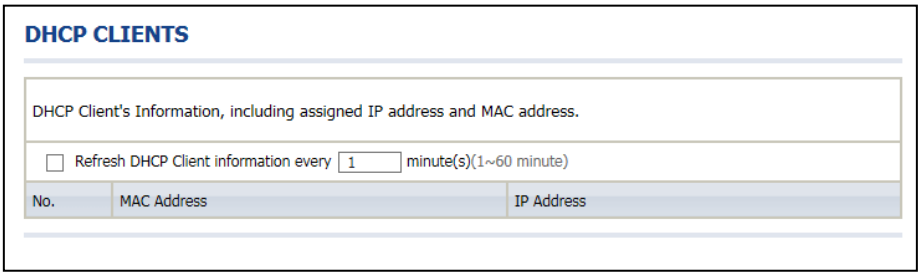
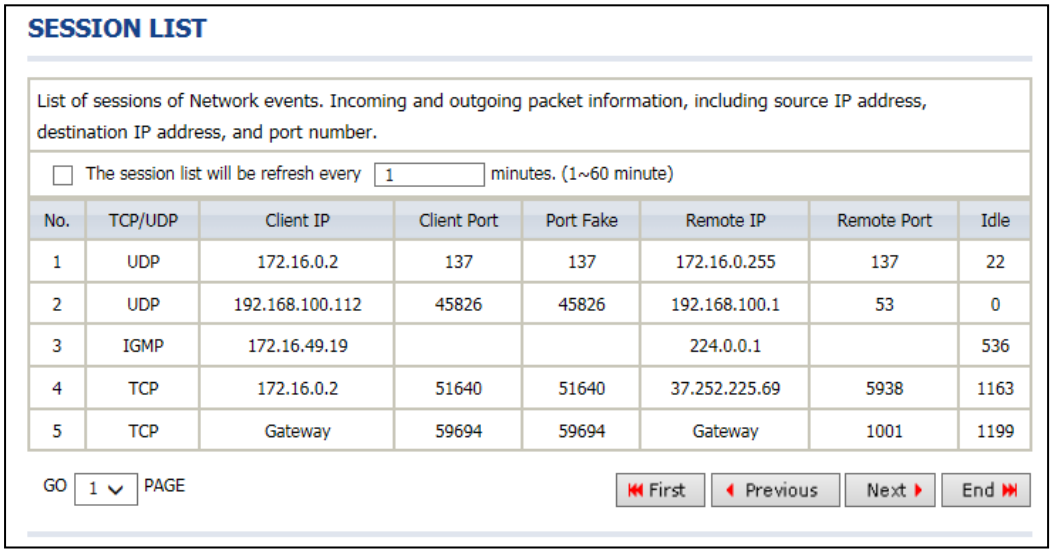


Figure 3-3-6 Current User Screen

3-3-6 Session List

The remote site administrator could monitor the real time usage status of UAG50 via this page.



SESSION LIST

List of sessions of Network events. Incoming and outgoing packet information, including source IP address, destination IP address, and port number.

☐ The session list will be refresh every 1 minutes. (1~60 minute)

No.	TCP/UDP	Client IP	Client Port	Port Fake	Remote IP	Remote Port	Idle
1	UDP	172.16.0.2	137	137	172.16.0.255	137	22
2	UDP	192.168.100.112	45826	45826	192.168.100.1	53	0
3	IGMP	172.16.49.19			224.0.0.1		536
4	TCP	172.16.0.2	51640	51640	37.252.225.69	5938	1163
5	TCP	Gateway	59694	59694	Gateway	1001	1199

GO 1 PAGE

First Previous Next End

Figure 3-3-7 Session List Screen

3-4 System Tools

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

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

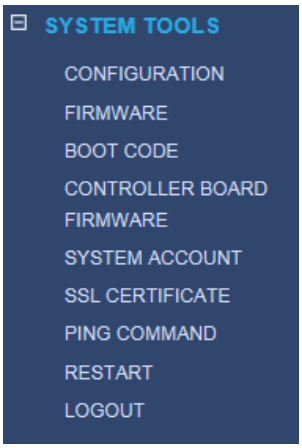


Figure 3-4-1 System Tools Item

3-4-1 Configuration

Use the Configuration item to save, restore or reset configuration parameters of the UAG50.

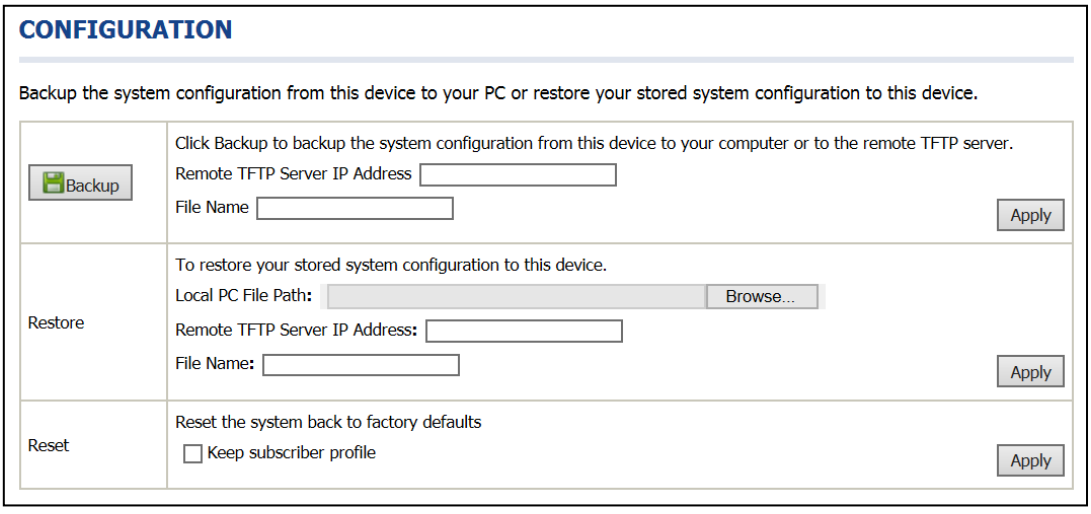


Figure 3-4-2 Configuration Setting Screen

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

3-4-2 Firmware Upgrade

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

Manual Firmware Upgrade

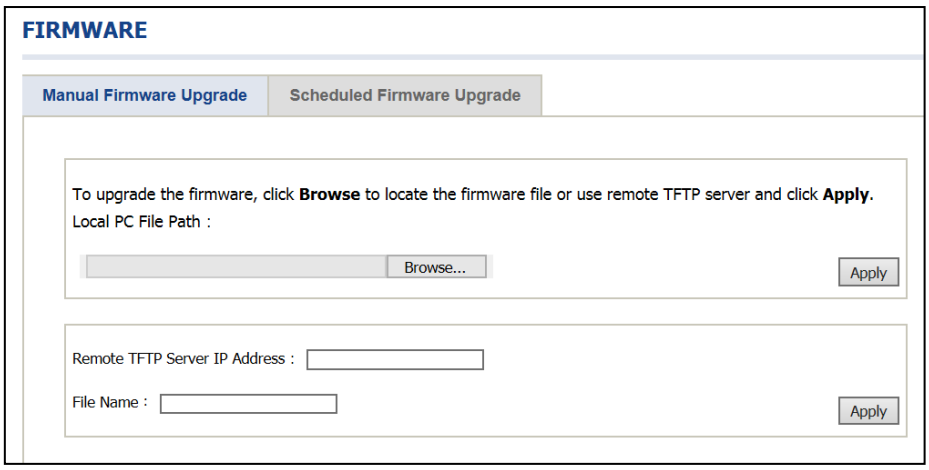


Figure 3-4-3 Manual Firmware Upgrade Setting Screen

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

Note:

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

Scheduled Firmware Upgrade

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

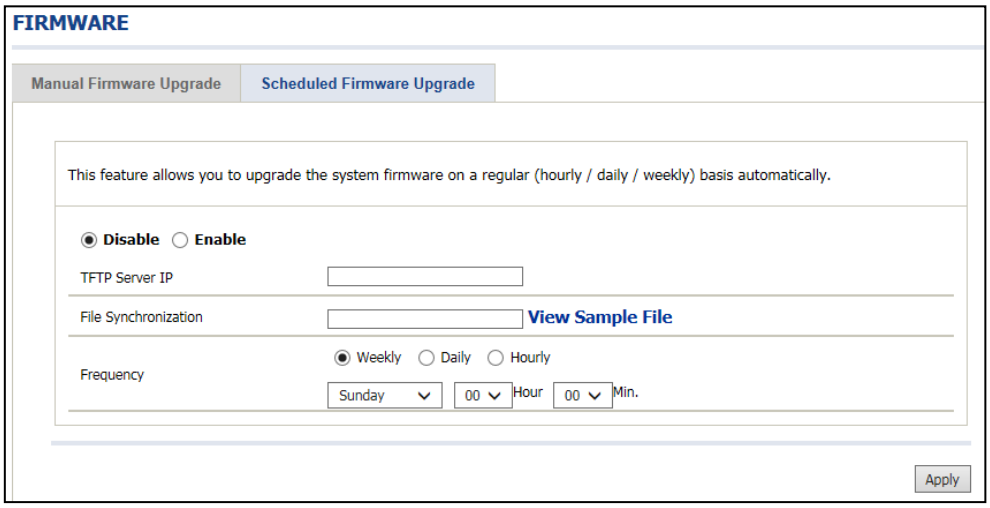
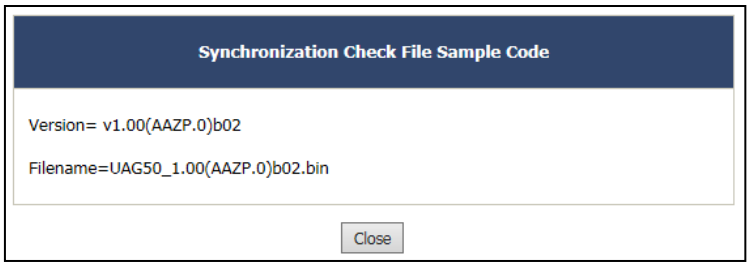


Figure 3-4-4 Scheduled Firmware Upgrade Setting Screen

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

Item	Default	Description
 Figure 3-4-5 Synchronization File Sample Code		
Frequency	Weekly	Set the firmware upgrade time. The default value is "Weekly".

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

3-4-3 Boot Code

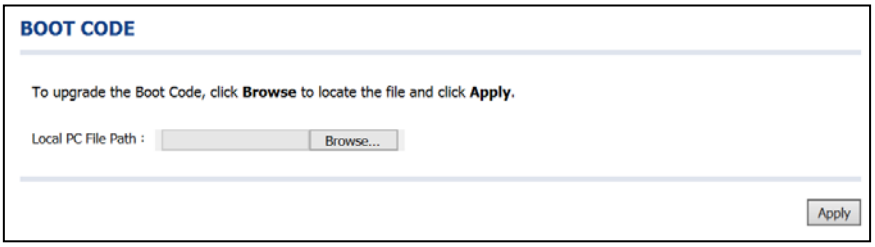


Figure 3-4-6 Boot Code Upgrade Setting Screen

3-4-4 Controller Board Firmware

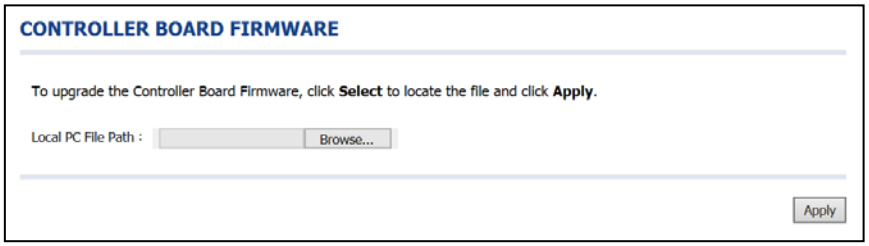


Figure 3-4-7 Controller Board Firmware Upgrade Setting Screen

3-4-5 System Account

Use the System Account screen to change the system accounts.

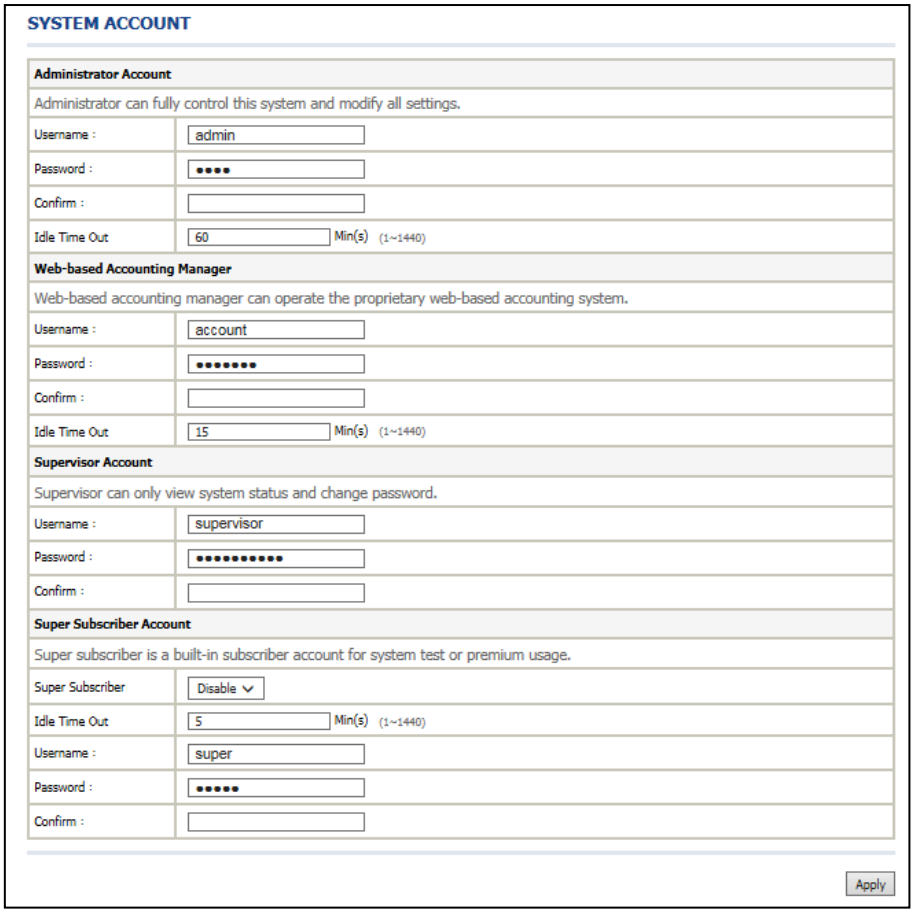


Figure 3-4-8 System Account Setting Screen

Item	Description
Username	The username can consist of up to 20 alphanumeric characters and is sensitive.
Password	The password can consist of up to 20 alphanumeric characters and is sensitive.
Confirm	The password for confirmation
Super Subscriber	Disables or enables the super account function.
Idle Time Out	The user idle time out valid is 1 to 1440 minutes. If the idle time out is set as 5 minutes, it means if the account doesn't send packet in 5 minutes, the account will logout automatically.

Administrator Account

Step 1: Start your Web browser and enter the factory default IP address **172.16.0.1** in your browser's location box. Press Enter.

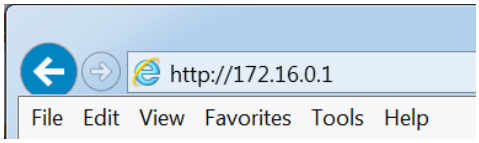


Figure 3-4-9 Web Browser Location Field (Factory Default)

Step 2: The UAG50 configuration main menu will appear. Enter **admin** as the Username and **1234** as the password and click **Login**. If you are first time setting the system, the wizard setup screen will appear.

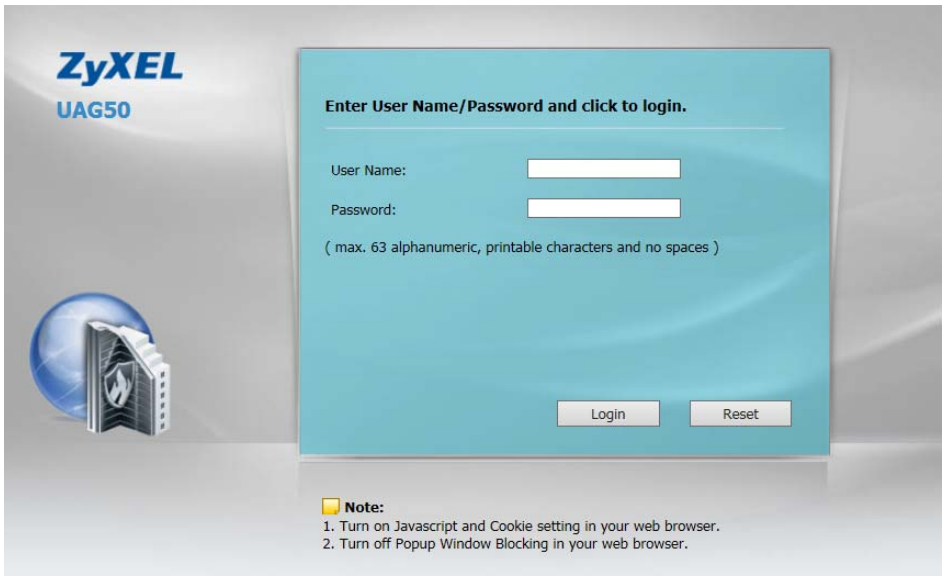


Figure 3-4-10 Administrator Account Login Screen (First Time)

Web-Based Accounting Manager

Step 1: Start your Web browser and enter the factory default IP address **172.16.0.1** in your browser's location box. Press Enter.

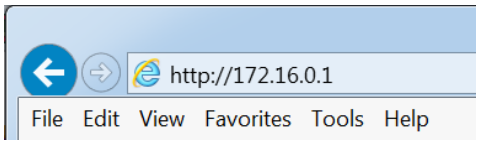


Figure 3-4-11 Web Browser Location Field (Factory Default)

Step 2: The UAG50 configuration main menu will appear. Enter **account** as the Username and **account** as the password and click **Login.**

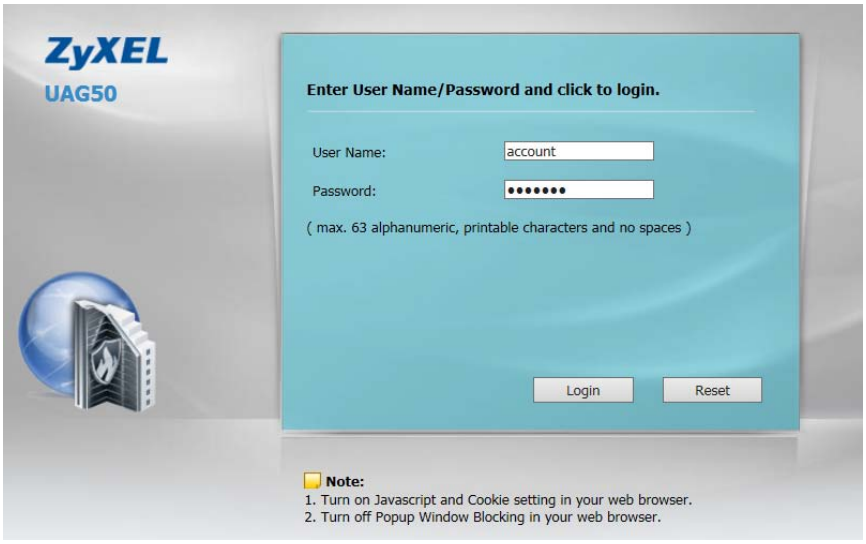


Figure 3-4-12 Web-Based Accounting Manager Login Screen

Supervisor Account

Step 1: Start your Web browser and enter the factory default IP address **172.16.0.1** in your browser's location box. Press Enter.

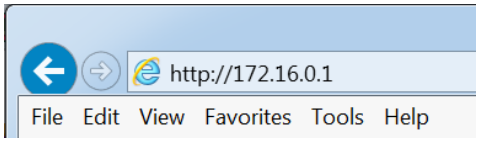


Figure 3-4-13 Web Browser Location Field (Factory Default)

Step 2: The UAG50 configuration main menu will appear. Enter **supervisor** as the Username and **supervisor** as the password and click **Login**.

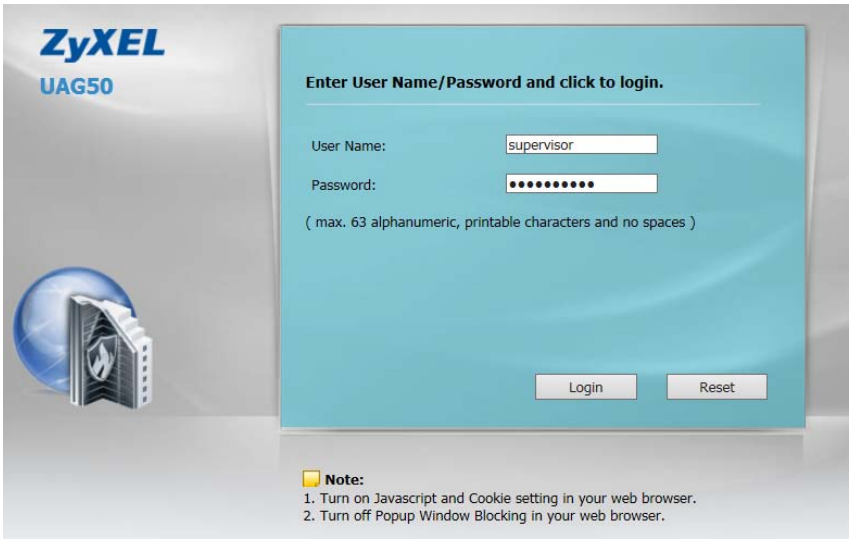


Figure 3-4-14 Supervisor Account Login Screen

Step 3: After a valid user name and password have been provided, the UAG50 configuration homepage will appear. "WIZARD SETUP" and "ADVANCED SETUP" are disabled.

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.

Figure 3-4-15 Subscriber Login Page

3-4-6 SSL Certificate

The function allows you to download the registered CA certificate into the UAG50.

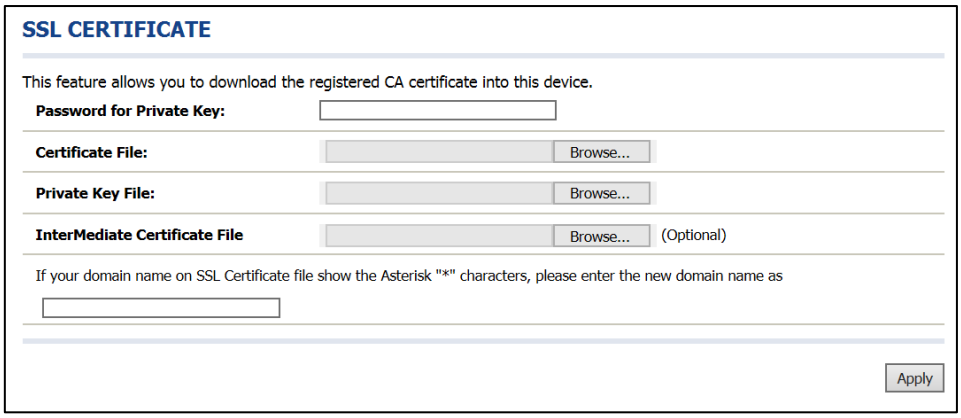


Figure 3-4-16 SSL Certificate Download Setting Screen

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

3-4-7 Ping Command

The Ping function can check the UAG50 networking connective or not.

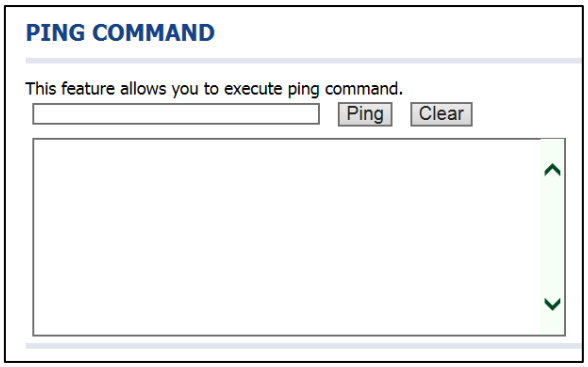


Figure 3-4-17 Ping Command Screen

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

3-4-8 Restart

If your UAG50 is not operating correctly, you can choose this option to display the restart UAG50 screen. Clicking the apply button restart the UAG50, with all of your settings remaining intact.

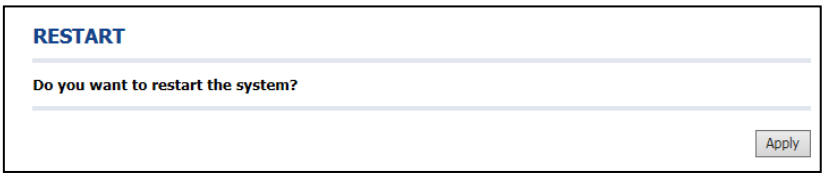


Figure 3-4-18 Restart Screen

3-4-9 Logout

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

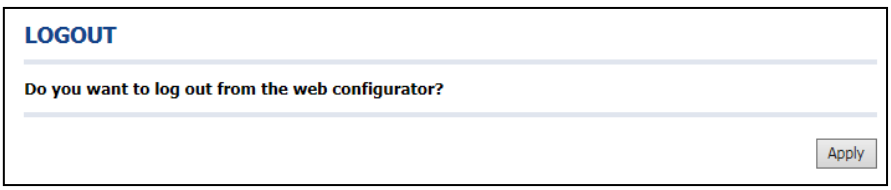


Figure 3-4-19 Logout Screen

4. QR Code Service

4-1 QR code setting

Please find **Advance setting** > **System > Customization** > **Account Printout** > **QR code**. If you don't print out the QR Code on the ticket, please disable it and click **Apply** button.

Figure 4-1-1 QR Coding Setting Screen

4-2 Additional information for QR code use

If you will activate QR code service for Apple iOS 6 device and later,

1. Please find **Advance setting** > **Security** > **Pass Through**.
2. Choose "Enable".
3. Add **www.apple.com** into PASS THROUGH list in UAG50 because iOS6 device and later is required.
4. Click **Add to List** button.
5. Choose Active on the **Pass Through List**.

For certain QR code Apps, please add **go.redirectingat.com, 54.225.129.12 and 23.23.152.51 (for APP ScanLife)** and follow the above steps.

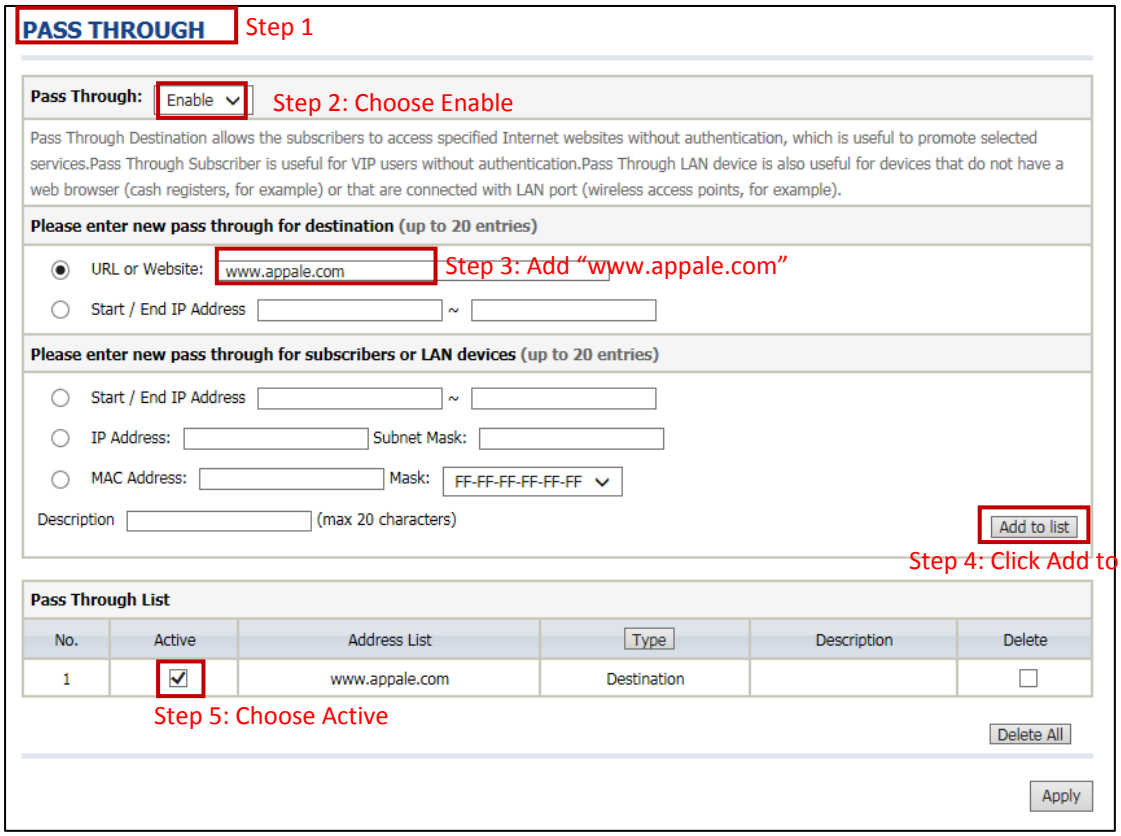


Figure 4-2-1 Pass Through Setting Screen

4-3 Use QR code to access the Internet

Please follow the steps to access the Internet for clients.

1. Print out the Ticket. You can find the ESSID and WPA/WPA2 printed on the ticket.

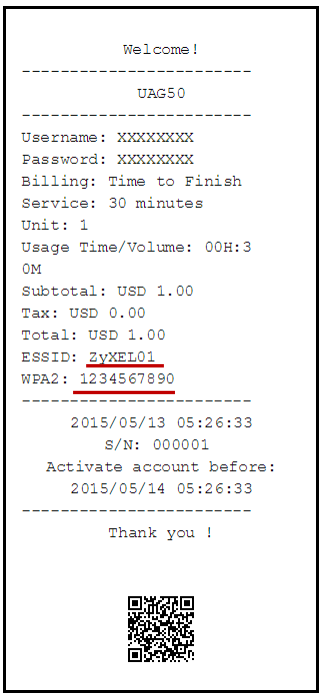


Figure 4-3-1 QR Coding Ticket

2. Connect to the **ESSID** (ex: ZyXEL01), input **WPA/WPA2** password (ex: 1234567890).

Figure 4-3-2 Password Input Screen

3. Open up QR code APP and Scan.

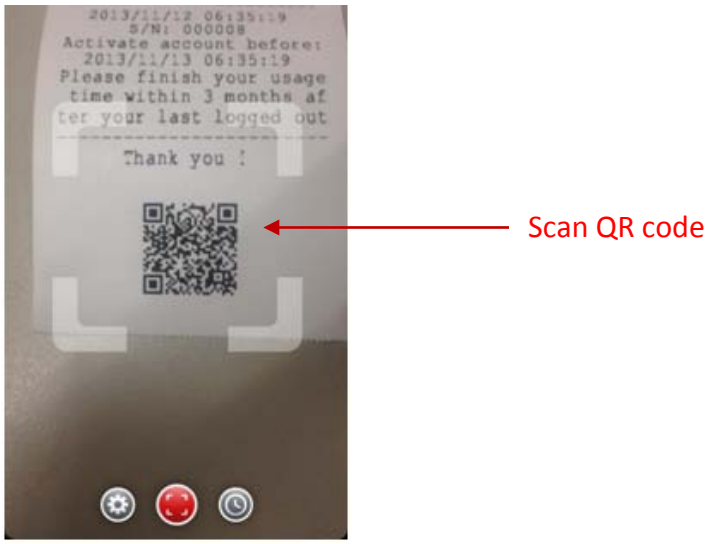


Figure 4-3-3 Scan 1 Screen

4. Some Apps may require user to click "Go to URL".

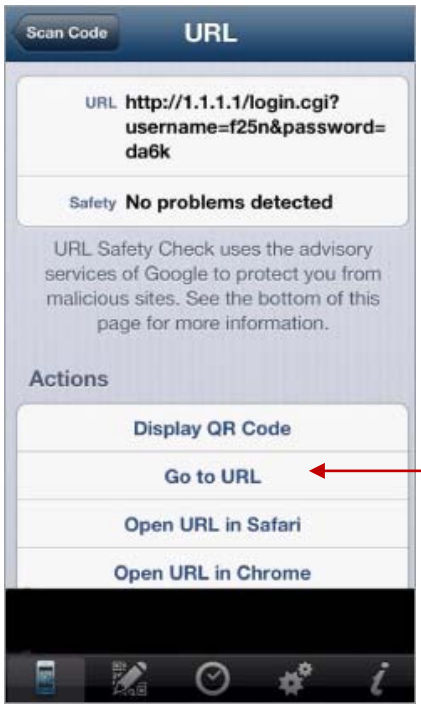


Figure 4-3-4 Scan 2 Screen

5. Client can use the Internet now.

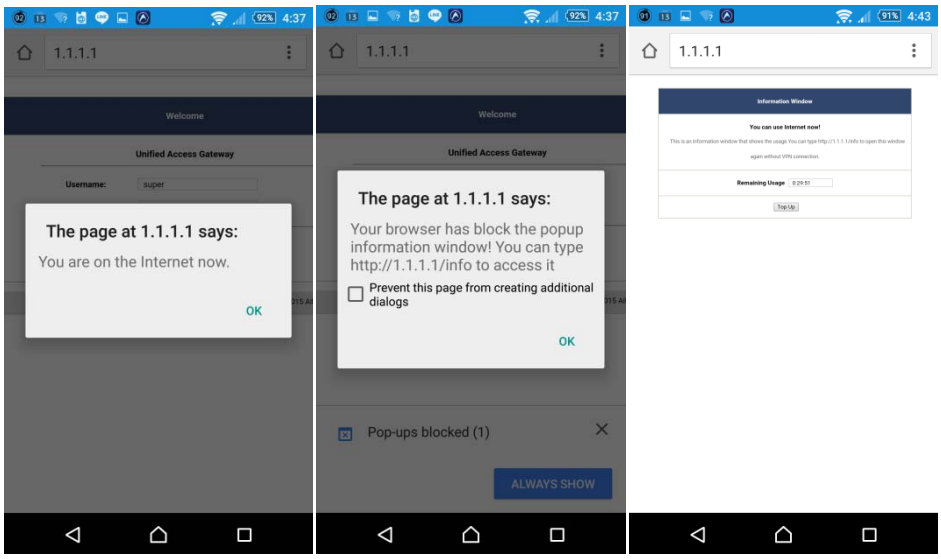


Figure 4-3-5 Scan Finish Screen

Appendix A Signal Connection Arrangements

RJ-45 Ethernet Port

The UAG50 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.

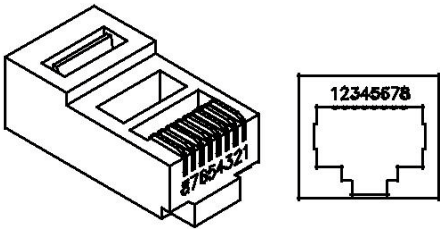


Figure RJ-45 Connector and Cable Pins

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

Appendix B Legal Information

Copyright

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Regulatory Notice and Statement

UNITED STATE AMERICA

The following information applies if you use the product within USA area.

FCC EMC Statement

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

1 This device may not cause harmful interference, and

2 this device must accept any interference received, including interference that may cause undesired operation.

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

- This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to 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 is found 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 or devices.

3 Connect the equipment to an outlet other than the receiver's.

4 Consult a dealer or an experienced radio/TV technician for assistance.

FCC Radiation Exposure Statement

- This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
- This transmitter must be at least 20 cm from the user and must not be co-located or operating in conjunction with any other antenna or transmitter.

CANADA

The following information applies if you use the product within Canada area.

Industry Canada ICES statement

CAN ICES-3 (B)/NMB-3(B)

Industry Canada RSS-GEN & RSS-210 statement

- This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
- This radio transmitter has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
- Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
- Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée quivalente (p.i.r.e.) ne dépassepas l'intensité nécessaire à l'établissement d'une communication satisfaisante.
- Le présent émetteur radio de modèle s'il fait partie du matériel de catégorieI) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Industry Canada radiation exposure statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé.Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

EUROPEAN UNION

The following information applies if you use the product within the European Union.

Declaration of Conformity with Regard to EU Directive 1999/5/EC (R&TTE Directive)

Compliance information for 2.4GHz and/or 5GHz wireless products relevant to the EU and other Countries following the EU Directive 1999/5/EC (R&TTE).

Български (Bulgarian)	С настоящото ZyXEL декларира, че това оборудване е в съответствие със съществените изисквания и другите приложими разпоредбите на Директива 1999/5/EC.
Español (Spanish)	Por medio de la presente ZyXEL declara que el equipo cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Čeština (Czech)	ZyXEL tímto prohlašuje, že tento zařízení je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/EC.

Dansk (Danish)	Undertegnede ZyXEL erklærer herved, at følgende udstyr udstyr overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Deutsch (German)	Hiermit erklärt ZyXEL, dass sich das Gerät Ausstattung in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EU befindet.
Eesti keel (Estonian)	Käesolevaga kinnitab ZyXEL seadme seadmed vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
Ελληνικά (Greek)	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ ZyXEL ΔΗΛΩΝΕΙ ΟΤΙ εξοπλισμός ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EC.
English	Hereby, ZyXEL declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Français (French)	Par la présente ZyXEL déclare que l'appareil équipements est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/EC.
Hrvatski (Croatian)	ZyXEL ovime izjavljuje da je radijska oprema tipa u skladu s Direktivom 1999/5/EC.
Íslenska (Icelandic)	Hér með lýsir, ZyXEL því yfir að þessi búnaður er í samræmi við grunnkröfur og önnur viðeigandi ákvæði tilskipunar
Italiano (Italian)	Con la presente ZyXEL dichiara che questo attrezzatura è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviešu valoda (Latvian)	Ar šo ZyXEL deklarē, ka iekārtas atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių kalba (Lithuanian)	Šiuo ZyXEL deklaruoja, kad šis įranga atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Magyar (Hungarian)	Alulírott, ZyXEL nyilatkozom, hogy a berendezés megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EK
Malti (Maltese)	Hawnhekk, ZyXEL, jiddikjara li dan tagħmir jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
Nederlands (Dutch)	Hierbij verklaart ZyXEL dat het toestel uitrusting in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EC.
Polski (Polish)	Niniejszym ZyXEL oświadcza, że sprzęt jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
Português (Portuguese)	ZyXEL declara que este equipamento está conforme com os requisitos essenciais e outras disposições da Directiva
Română (Romanian)	Prin prezenta, ZyXEL declară că acest echipament este în conformitate cu cerinţele esenţiale şi alte prevederi relevante ale Directivei 1999/5/EC.
Slovenčina (Slovak)	ZyXEL týmto vyhlasuje, že zariadenia spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/EC.
Slovenščina (Slovene)	ZyXEL izjavlja, da je ta oprema v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/EC.
Suomi (Finnish)	ZyXEL vakuuttaa täten että laitteet tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska (Swedish)	Härmed intygar ZyXEL att denna utrustning står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EC.
Norsk (Norwegian)	Erklærer herved ZyXEL at dette utstyret er I samsvar med de grunnleggende kravene og andre relevante bestemmelser I direktiv 1999/5/EF.

National Restrictions

This product may be used in all EU countries (and other countries following the EU Directive 2014/53/EU) without any limitation except for the countries mentioned below:

Ce produit peut être utilisé dans tous les pays de l'UE (et dans tous les pays ayant transposés la directive 2014/53/UE) sans aucune limitation, excepté pour les pays mentionnés ci-dessous:

Questo prodotto è utilizzabile in tutte i paesi EU (ed in tutti gli altri paesi che seguono le direttiva 2014/53/UE) senza nessuna limitazione, eccetto per i paesii menzionati di seguito:

Das Produkt kann in allen EU Staaten ohne Einschränkungen eingesetzt werden (sowie in anderen Staaten die der Richtlinie 2014/53/EU folgen) mit Außnahme der folgenden aufgeführten Staaten:

In the majority of the EU and other European countries, the 2.4GHz and 5GHz bands have been made available for the use of wireless local area networks (LANs). Later in this document you will find an overview of countries in which additional restrictions or requirements or both are applicable.

The requirements for any country may evolve. ZyXEL recommends that you check with the local authorities for the latest status of their national regulations for both the 2.4GHz and 5GHz wireless LANs.

The following countries have restrictions and/or requirements in addition to those given in the table labeled "*Overview of Regulatory Requirements for Wireless LANs*":.

Belgium

The Belgian Institute for Postal Services and Telecommunications (BIPT) must be notified of any outdoor wireless link having a range exceeding 300 meters. Please check http://www.bipt.be for more details.

Draadloze verbindingen voor buitengebruik en met een reikwijdte van meer dan 300 meter dienen aangemeld te worden bij het Belgisch

Instituut voor postdiensten en telecommunicatie (BIPT). Zie http://www.bipt.be voor meer gegevens.

Les liaisons sans fil pour une utilisation en extérieur d'une distance supérieure à 300 mètres doivent être notifiées à l'Institut Belge des services Postaux et des Télécommunications (IBPT). Visitez http://www.ibpt.be pour de plus amples détails.

Denmark

In Denmark, the band 5150 - 5350 MHz zs also allowed for outdoor usage. I Danmark må frekvensbåndet 5150 - 5350 også anvendes udendørs.

Italy

This product meets the National Radio Interface and the requirements specified in the National Frequency Allocation Table for Italy. Unless this wireless LAN product is operating within the boundaries of the owner's property, its use requires a "general authorization." Please check http://www.sviluppoeconomico.gov.it/ for more details.

Questo prodotto è conforme alla specifiche di Interfaccia Radio Nazionali e rispetta il Piano Nazionale di ripartizione delle frequenze in Italia. Se non viene installato all 'interno del proprio fondo, l'utilizzo di prodotti Wireless LAN richiede una "Autorizzazione Generale". Consultare http://www.sviluppoeconomico.gov.it/ per maggiori dettagli.

Latvia

The outdoor usage of the 2.4 GHz band requires an authorization from the Electronic Communications Office. Please check http://www.esd.lv for more details.

2.4 GHz frekvenèu joslas izmantoðanai ârpus telpâm nepiecieðama atïauja no Elektronisko sakaru direkcijas. Vairâk informâcijas: http://www.esd.lv.

Notes:

1. Although Norway, Switzerland and Liechtenstein are not EU member states, the EU Directive 2014/53/EU has also been implemented in those countries.

2. The regulatory limits for maximum output power are specified in EIRP. The EIRP level (in dBm) of a device can be calculated by adding the gain of the antenna used(specified in dBi) to the output power available at the connector (specified in dBm).

List of national codes

COUNTRY	ISO 3166 2 LETTER CODE	COUNTRY	ISO 3166 2 LETTER CODE
Austria	AT	Liechtenstein	LI
Belgium	BE	Lithuania	LT

Bulgaria	BG	Luxembourg	LU
Croatia	HR	Malta	MT
Cyprus	CY	Netherlands	NL
Czech Republic	CR	Norway	NO
Denmark	DK	Poland	PL
Estonia	EE	Portugal	PT
Finland	FI	Romania	RO
France	FR	Serbia	RS
Germany	DE	Slovakia	SK
Greece	GR	Slovenia	SI
Hungary	HU	Spain	ES
Iceland	IS	Sweden	SE
Ireland	IE	Switzerland	CH
Italy	IT	Turkey	TR
Latvia	LV	United Kingdom	GB

Safety Warnings

- Do NOT use this product near water, for example, in a wet basement or near a swimming pool.
- Do NOT expose your device to dampness, dust or corrosive liquids.
- Do NOT store things on the device.
- Do NOT install, use, or service this device during a thunderstorm. There is a remote risk of electric shock from lightning.
- Connect ONLY suitable accessories to the device.
- Do NOT open the device or unit. Opening or removing covers can expose you to dangerous high voltage points or other risks. ONLY qualified service personnel should service or disassemble this device. Please contact your vendor for further information.
- Make sure to connect the cables to the correct ports.
- Place connecting cables carefully so that no one will step on them or stumble over them.
- Always disconnect all cables from this device before servicing or disassembling.
- Use ONLY an appropriate power adaptor or cord for your device. Connect it to the right supply voltage (for example, 110V AC in North America or 230V AC in Europe).
- Do NOT allow anything to rest on the power adaptor or cord and do NOT place the product where anyone can walk on the power adaptor or cord.
- Do NOT use the device if the power adaptor or cord is damaged as it might cause electrocution.
- If the power adaptor or cord is damaged, remove it from the device and the power source.
- Do NOT attempt to repair the power adaptor or cord. Contact your local vendor to order a new one.
- Do not use the device outside, and make sure all the connections are indoors. There is a remote risk of electric shock from lightning.
- Do NOT obstruct the device ventilation slots, as insufficient airflow may harm your device.
- Antenna Warning! This device meets ETSI and FCC certification requirements when using the included antenna(s). Only use the included antenna(s).
- If you wall mount your device, make sure that no electrical lines, gas or water pipes will be damaged.
- The PoE (Power over Ethernet) devices that supply or receive power and their connected Ethernet cables must all be completely indoors.
- This product is for indoor use only (utilisation intérieure exclusivement).
- FOR COUNTRY CODE SELECTION USAGE (WLAN DEVICES)

  Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all Wi-Fi product marketed in US must fixed to US operation channels only.

Environment statement

ErP (Energy-related Products)

ZyXEL products put on the EU market in compliance with the requirement of the European Parliament and the Council published

Directive 2009/125/EC establishing a framework for the setting of ecodesign requirements for energy-related products (recast), so called as "ErP Directive (Energy-related Products directive) as well as ecodesign requirement laid down in applicable implementing measures,power consumption has satisfied regulation requirements which are:

Network standby power consumption < 12W, and/or
Off mode power consumption < 0.5W, and/or

Standby mode power consumption < 0.5W.

Wireless setting, please refer to "Wireless" chapter for more detail.

WEEE Directive

Your product is marked with this symbol, which is known as the WEEE mark. WEEE stands for Waste Electronics and Electrical Equipment. It means that used electrical and electronic products should not be mixed with general waste. Used electrical and electronic equipment should be treated separately.

"INFORMAZIONI AGLI UTENTI"

Ai sensi della Direttiva 2012/19/UE del Parlamento europeo e del Consiglio, del 4 luglio 2012, sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE)

Il simbolo del cassonetto barrato riportato sull'apparecchiatura o sulla sua confezione indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti.

La raccolta differenziata della presente apparecchiatura giunta a fine vita e organizzata e gestita dal produttore. L'utente che vorra disfarsi della presente apparecchiatura dovra quindi contattare il produttore e seguire il sistema che questo ha adottato per consentire la raccolta separata dell'apparecchiatura giunta a fine vita.

L'adeguata raccolta differenziata per l'avvio successivo dell'apparecchiatura dismessa al riciclaggio, al trattamento e allo smaltimento ambientalmente compatibile contribuisce ad evitare possibili effetti negativi sull'ambiente e sulla salute e favorisce il reimpiego e/o riciclo dei materiali di cui e composta l'apparecchiatura.

Lo smaltimento abusivo del prodotto da parte del detentore comporta l'applicazione delle sanzioni amministrative previste dalla normativa vigente."

Environmental Product Declaration

Български (Bulgarian)	Čeština (Czech)	Dansk (Danish)	Deutsch (German)
Екологична продуктова декларация	Environmentální prohlášení o produktu	Miljøvaredeklaration	Produkt-Umweltdeklaration
RoHS Директива 2011/65/EC WEEE Директива 2012/19/EC PPW Директива 94/62/ЕО REACH РЕГЛАМЕНТ (ЕО) № 1907/2006 ErP Директива 2009/125/ЕО	RoHS Směrnice 2011/65/EU WEEE Směrnice 2012/19/EU PPW Směrnice 94/62/ES REACH Nařízení (ES) č. 1907/2006 ErP Směrnice 2009/125/ES	RoHS Direktiv 2011/65/EU WEEE Direktiv 2012/19/EU PPW Direktiv 94/62/EF REACH Forordning (EF) nr. 1907/2006 ErP Direktiv 2009/125/EF	RoHS Richtlinie 2011/65/EU WEEE Richtlinie 2012/19/EU PPW Richtlinie 94/62/EG REACH VERORDNUNG (EG) Nr. 1907/2006 ErP Richtlinie 2009/125/EG
Име/ титла : Richard Hsu / Quality Management Division Senior Manager Подпис : Дата (дд/мм/гггг): 01/10/2014	Jméno/ titul : Richard Hsu / Quality Management Division Senior Manager Podpis : Datum (dd/mm/rrr): 01/10/2014	Navn/ titel : Richard Hsu / Quality Management Division Senior Manager Underskrift : Dato (dd/mm/åååå): 01/10/2014	Name/ titel : Richard Hsu / Quality Management Division Senior Manager Unterschrift : Datum (jjjj/mm/tt): 2014/10/01
Eesti keel (Estonian)	**English**	**Español (Spanish)**	**Français (French)**
Toote keskkonnadeklaratsiooni	Environmental product declaration	Declaraciones Ambientales de Producto	Profil environnemental de produit
RoHS Direktiiv 2011/65/EL WEEE Direktiiv 2012/19/EL PPW Direktiiv 94/62/EÜ REACH MÄÄRUS (EÜ) nr 1907/2006 ErP Direktiiv 2009/125/EÜ	RoHS Directive 2011/65/EU WEEE Directive 2012/19/EU PPW Directive 94/62/EC REACH Regulation (EC) No 1907/2006 ErP Directive 2009/125/EC	RoHS Directiva 2011/65/UE WEEE Directiva 2012/19/UE PPW Directiva 94/62/CE REACH REGLAMENTO (CE) nº 1907/2006 ErP Directiva 2009/125/CE	RoHS Directive 2011/65/UE WEEE Directive 2012/19/UE PPW Directive 94/62/CE REACH RÈGLEMENT (CE) N° 1907/2006 ErP Directive 2009/125/CE
Nimi/ pealkiri : Richard Hsu / Quality Management Division Senior Manager Allkiri : Kuupäev (pp/kk/aaaa): 01/10/2014	Name/ title : Richard Hsu / Quality Management Division Senior Manager Signature : Date (dd/mm/yyyy) : 01/10/2014	Nombre/ título : Richard Hsu / Quality Management Division Senior Manager Firma : Fecha (aaaa/mm/dd): 2014/10/01	Nom/ titre : Richard Hsu / Quality Management Division Senior Manager Signature : Date (aaaa/mm/jj): 2014/10/01
Hrvatski (Croatian)	**Italiano (Italian)**	**Latviešu valoda (Latvian)**	**Lietuvių kalba (Lithuanian)**
Deklaraciju o zbrinjavanju proizvoda	Dichiarazione ambientale di prodotto	Produkta vides ietekmējuma deklarācija	Aplinkosauginę gaminio deklaraciją
RoHS Direktiva 2011/65/EU WEEE Direktiva 2012/19/EU PPW Direktiva 94/62/EZ REACH Uredbe (EZ) br. 1907/2006 ErP Direktiva 2009/125/EZ	RoHS Direttiva 2011/65/UE WEEE Direttiva 2012/19/UE PPW Direttiva 94/62/CE REACH REGOLAMENTO (CE) n. 1907/2006 ErP Direttiva 2009/125/CE	RoHS Direktīva 2011/65/ES WEEE Direktīva 2012/19/ES PPW Direktīva 94/62/EK REACH Regula (EK) Nr. 1907/2006 ErP Direktīva 2009/125/EK	RoHS Direktyva 2011/65/ES WEEE Direktyva 2012/19/ES PPW Direktyva 94/62/EB REACH REGLAMENTAS (EB) Nr. 1907/2006 ErP Direktyva 2009/125/EB
Ime/ naslov : Richard Hsu / Quality Management Division Senior Manager Potpis : Datum (dd/mm/yyyy): 01/10/2014	Nome/ titolo : Richard Hsu / Quality Management Division Senior Manager Firma : Data (aaaa/mm/gg): 2014/10/01	Nosaukums/ tituls : Richard Hsu / Quality Management Division Senior Manager Paraksts : Datums (dd/mm/gggg): 01/10/2014	Vardas/ titulas : Richard Hsu / Quality Management Division Senior Manager Parašas : Data (dd/mm/mmmm): 01/10/2014
Magyar (Hungarian)	**Malti (Maltese)**	**Nederlands (Dutch)**	**Polski (Polish)**
Környezetvédelmi terméknyilatkozatot	Dikjarazzjoni Ambjentali dwar il-Prodott	Milieuproductverklaring	Deklarację środowiskową produktu
RoHS 2011/65/EU Irányelve WEEE 2012/19/EU Irányelve PPW 94/62/EK Irányelve REACH 1907/2006/EK Rendelete ErP 2009/125/EK Irányelve	RoHS Direttiva 2011/65/UE WEEE Direttiva 2012/19/UE PPW Direttiva 94/62/KE REACH REGOLAMENT (KE) NRU 1907/2006 ErP Direttiva 2009/125/KE	RoHS Richtlijn 2011/65/EU WEEE Richtlijn 2012/19/EU PPW Richtlijn 94/62/EG REACH Verordening (EG) nr. 1907/2006 ErP Richtlijn 2009/125/EG	RoHS Dyrektywa 2011/65/UE WEEE Dyrektywa 2012/19/UE PPW Dyrektywa 94/62/WE REACH Rozporządzenie (WE) nr 1907/2006 ErP Dyrektywa 2009/125/WE
Név/ cím : Richard Hsu / Quality Management Division Senior Manager Aláírás : Dátum (éééé/hh/nn): 2014/10/01	Isem/ titolu : Richard Hsu / Quality Management Division Senior Manager Firma : Data (ssss/xx/jj): 2014/10/01	Naam/ titel : Richard Hsu / Quality Management Division Senior Manager Handtekening : Datum (dd/mm/jaar): 01/10/2014	Nazwisko/ tytuł : Richard Hsu / Quality Management Division Senior Manager Podpis : Data (rr/mm/dd): 2014/10/01
Português (Portuguese)	**Română (Romanian)**	**Slovenčina (Slovak)**	**Slovenščina (Slovene)**
Declaração ambiental do produto	Declarație de mediu privind produsele	Vyhlásenie o environmentálnom výrobku	Okoljsko deklaracijo izdelka
RoHS Directiva 2011/65/UE WEEE Directiva 2012/19/UE PPW Directiva 94/62/CE REACH Regulamento (CE) n.º 1907/2006 ErP Directiva 2009/125/CE	RoHS Directiva 2011/65/UE WEEE Directiva 2012/19/UE PPW Directiva 94/62/CE REACH REGULAMENTUL (CE) NR. 1907/2006 ErP Directiva 2009/125/CE	RoHS Smernica 2011/65/EÚ WEEE Smernica 2012/19/EÚ PPW Smernica 94/62/ES REACH Nariadenie (ES) č. 1907/2006 ErP Smernica 2009/125/ES	RoHS Direktiva 2011/65/EU WEEE Direktiva 2012/19/EU PPW Direktiva 94/62/ES REACH Uredba (ES) št. 1907/2006 ErP Direktiva 2009/125/ES
Nome/ título : Richard Hsu / Quality Management Division Senior Manager Assinatura : Data (dd/mm/aaaa): 01/10/2014	Numele/ titlu : Richard Hsu / Quality Management Division Senior Manager Semnătura : Data (zz/ll/aaaa): 01/10/2014	Meno/ titul : Richard Hsu / Quality Management Division Senior Manager Podpis : Dátum (dd/mm/rrr): 01/10/2014	Ime/ naziv : Richard Hsu / Quality Management Division Senior Manager Podpis : Datum (dd/mm/llll): 01/10/2014
Suomi (Finnish)	**Svenska (Swedish)**	**Ελληνικά (Greek)**	**Norsk (Norwegian)**
Standardiin perustuva ympäristötuoteseloste	Miljöproduktdeklaration	Περιβαλλοντική δήλωση προϊόντος	Miljødeklarasjon
RoHS Direktiivi 2011/65/EU WEEE Direktiivi 2012/19/EU PPW Direktiivi 94/62/EY REACH ASETUS (EY) N:o 1907/2006 ErP Direktiivi 2009/125/EY	RoHS Direktiv 2011/65/EU WEEE Direktiv 2012/19/EU PPW Direktiv 94/62/EG REACH Förordning (EG) nr 1907/2006 ErP Direktiv 2009/125/EG	RoHS Οδηγία 2011/65/ΕΕ WEEE Οδηγία 2012/19/ΕΕ PPW Οδηγία 94/62/ΕΚ REACH Κ(ανονισμού (ΕΚ) αριθ. 1907/2006 ErP Οδηγία 2009/125/ΕΚ	RoHS Direktiv 2011/65/EU WEEE Direktiv 2012/19/EU PPW Direktiv 94/62/EF REACH Forordning (EF) nr. 1907/2006 ErP Direktiv 2009/125/EF
Nimi/ otsikko : Richard Hsu / Quality Management Division Senior Manager Allekirjoitus : Päivämäärä (pp/kk/vvvv): 01/10/2014	Namn/ titel : Richard Hsu / Quality Management Division Senior Manager Namnteckning : Datum (dd/mm/åååå): 01/10/2014	Δνομα/ τίτλος : Richard Hsu / Quality Management Division Senior Manager Υπογραφή : Ημερομηνία (ηη/μμ/εεεε): 01/10/2014	Navn/ tittel : Richard Hsu / Quality Management Division Senior Manager Signatur : Dato (dd/mm/åååå) : 01/10/2014

台灣

以下訊息僅適用於產品銷售至台灣地區

第十二條　經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條　低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Viewing Certifications

Go to http://www.zyxel.com to view this product's documentation and certifications.

ZyXEL Limited Warranty

ZyXEL warrants to the original end user (purchaser) that this product is free from any defects in material or workmanship for a specific period (the Warranty Period) from the date of purchase. The Warranty Period varies by region. Check with your vendor and/or the authorized ZyXEL local distributor for details about the Warranty Period of this product. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, ZyXEL will, at its discretion, repair or replace the defective products or components without charge for either parts or labor, and to whatever extent it shall deem necessary to restore the product or components to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal or higher value, and will be solely at the discretion of ZyXEL. This warranty shall not apply if the product has been modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions.

Note

Repair or replacement, as provided under this warranty, is the exclusive remedy of the purchaser. This warranty is in lieu of all other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular use or purpose. ZyXEL shall in no event be held liable for indirect or consequential damages of any kind to the purchaser.

To obtain the services of this warranty, contact your vendor. You may also refer to the warranty policy for the region in which you bought the device at http://www.zyxel.com/web/support_warranty_info.php.

Registration

Register your product online to receive e-mail notices of firmware upgrades and information at www.zyxel.com.

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