



# 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

**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
- One Ethernet Cable (1.5 meter)
- One Quick Installation Guide
- Two Detachable Antennas
- 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



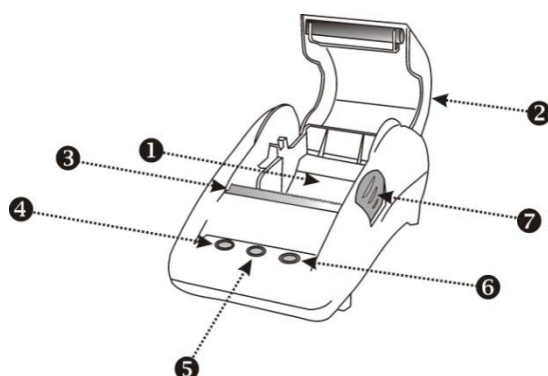


Figure 1-4-2 Front Panel

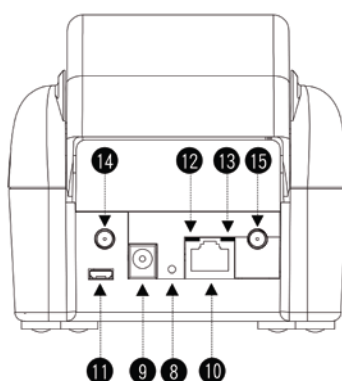


Figure 1-4-3 Rear Panel

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.

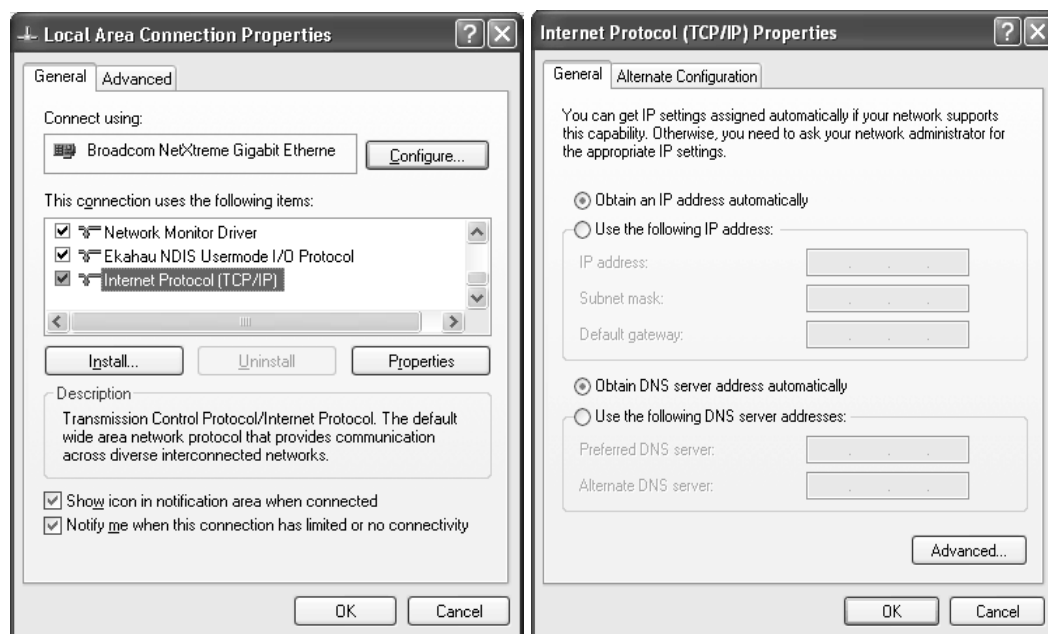


Figure 2-3-2 TCP/IP Setting

## 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**.

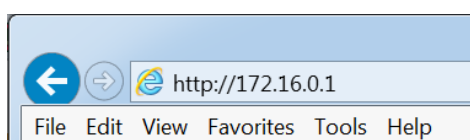


Figure 3-1-1 Web Browser Location Field (Factory Default)

**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.

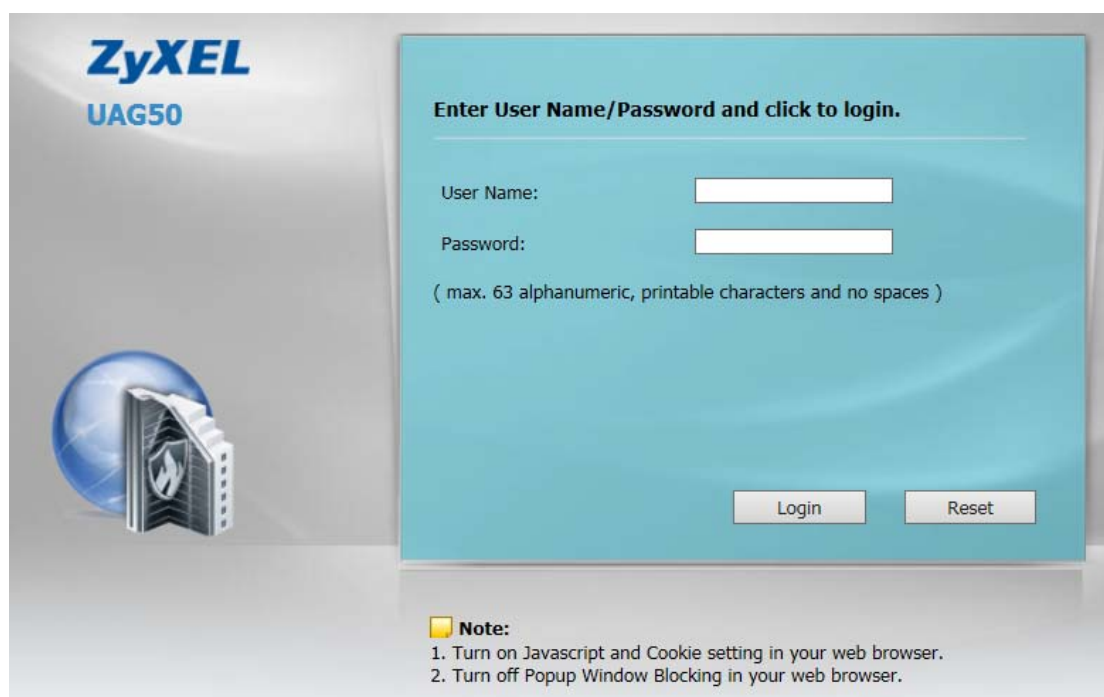


Figure 3-1-2 Configuration Tools Menu

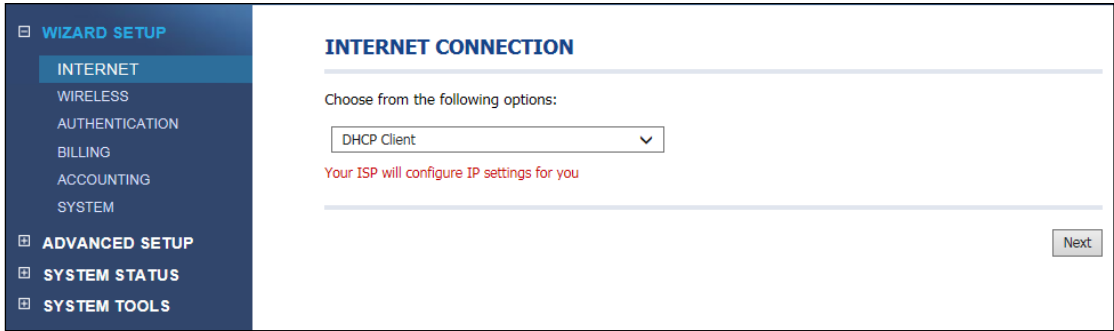


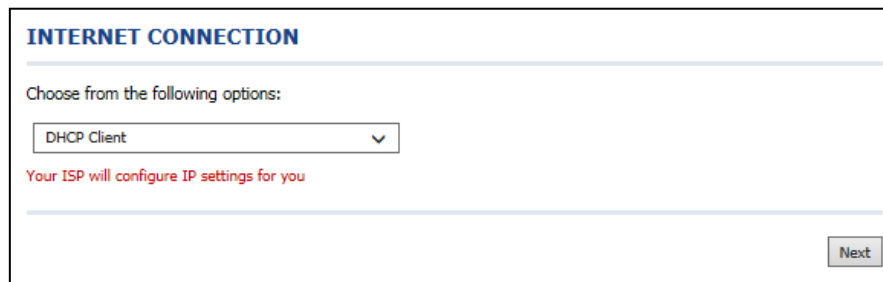
Figure 3-1-3 Wizard Setup Screen

SYSTEM			
Display the detailed system information <span style="float: right;">Refresh</span>			
<b>Service</b>			
Internet Connection	Fail	Wireless Service	OK
<b>System</b>			
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
<b>LAN IP</b>			
IP Address	172.16.0.1	Subnet Mask	255.255.255.0
<b>WAN IP</b>			
WAN Port Mode	DHCP Client (Disconnect)	IP Address	
Subnet Mask		Gateway IP address	
<b>DNS</b>			
Primary DNS Server		Secondary DNS Server	
<b>DHCP</b>			
DHCP Status	Server		
Start IP Address	172.16.0.2	End IP Address:	172.16.0.254
Lease Time	300		
<b>Wireless</b>			
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
<b>E-Mail Redirection</b>			
<b>Network Traffic</b>			
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
<b>Network Traffic</b>			
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
<b>Location Information</b>			
Location			
Address			
City		State	
Zip		Country	
Contact Name		Contact Telephone	
Contact FAX		Contact Email	
<b>SSL Certificate</b>			
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.

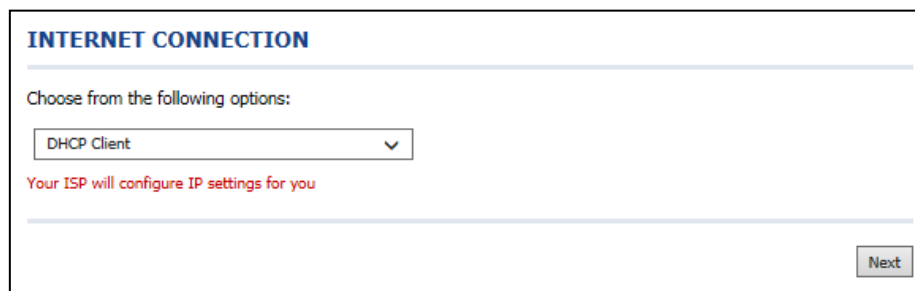


The screenshot shows a web interface titled "INTERNET CONNECTION". Below the title, it says "Choose from the following options:". There is a dropdown menu with "DHCP Client" selected. Below the dropdown, it says "Your ISP will configure IP settings for you" in red text. At the bottom right, there is a "Next" button.

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.



This screenshot is identical to Figure 3-1-5, showing the "INTERNET CONNECTION" screen with "DHCP Client" selected in the dropdown menu and the "Next" button at the bottom right.

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.

**INTERNET CONNECTION**

Choose from the following options:

Static IP Setting ▼

Enter static IP information from your ISP:

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway IP address: 0.0.0.0

Primary DNS Server:

Secondary DNS Server:

Next

Figure 3-1-7 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.

### INTERNET CONNECTION

---

Choose from the following options:

PPPoE (Mostly for ADSL modem users) ▼

Enter your username and password from your ISP

Username:

---

Password:

---

PPP MTU Setting:

---

TCP MSS Setting:

---

Service Name:

---

☒ **Connect on Demand**
Max Idle Time:  Min.

---

☐ **Keep alive**
Redial Period:  Sec.

---

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.

The screenshot shows the 'INTERNET CONNECTION' screen. At the top, it says 'Choose from the following options:' with a dropdown menu set to 'PPTP (Typically for Europe ADSL modem users)'. Below this, a red text prompt says 'Enter your username,password,and PPTP settings from your ISP:'. The form contains several input fields: 'My IP Address:', 'My Subnet Mask:', 'Gateway IP address:', 'PPTP Server IP Address:', 'Username:', 'Password:', 'PPP MTU Setting:' (with a default value of 1460), 'TCP MSS Setting:' (with a default value of 1400), and 'Connection ID/Name:'. At the bottom, there are two radio button options: 'Connect on Demand' (which is selected) and 'Keep alive'. The 'Connect on Demand' option has a 'Max Idle Time:' field set to 10 minutes. The 'Keep alive' option has a 'Redial Period:' field set to 30 seconds. A 'Next' button is located at the bottom right of the form.

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.

**WIRELESS SETTINGS**

Country :

Channel :  (Leave default if you don't know how to choose)

802.11 Mode :

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**.

AUTHENTICATION SERVICE

Do you need to authenticate users ?

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

☐ No,The users can access the Internet without authentication

Back

Next

Figure 3-1-11 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

BILLING PROFILE

What is your service and price plan ?

☐ No Billing Mode

Currency: 

☒ USD

☐ €

 (Number of decimals places: 

2

)

Time Base Profile

☒ Time to Finish

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

☐ Accumulation

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

No.	Name (max. 12 char.)	Usage time	Charge
1	<div>30 minutes</div>	<div>30</div> <div>minutes</div>	<div>1.00</div>
2	<div>1 hour</div>	<div>1</div> <div>hours</div>	<div>2.00</div>
3	<div>2 hours</div>	<div>2</div> <div>hours</div>	<div>3.00</div>

Figure 3-1-12 Billing Profile Setting

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

### Volume Based Profile

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

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.

The image shows two screenshots of the 'ACCOUNTING' settings page. The left screenshot shows the 'Three-buttons Printer Setting' section with three buttons (A, B, C) each set to '(01) 30 minutes, 30 minutes, USD1.00'. The right screenshot shows the same page with a red box highlighting the dropdown menu for Button A, which is expanded to show three options: '(01) 30 minutes, 30 minutes, USD1.00', '(02) 1 hour, 1 hours, USD2.00', and '(03) 2 hours, 2 hours, USD3.00'.

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.

### SYSTEM SETTING

Be sure to change your settings:

#### Username/ Password reset

Username:

Password:

re-type password:

#### Time Zone:

GMT

☐ Manual Setting

☒ NTP

Setting

Date:2015/5/4 Time:21:48:28

Server IP/Domain Name 1: 
NTP Fail, check your connection

Server IP/Domain Name 2: 
NTP Fail, check your connection

Update Time  hours

☐ Daylight Saving Time

Start Date:  Month /  Day

End Date:  Month /  Day

Secure Administrator IP Address ☒ All ☐ Selected

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 <b>Manual Setting</b> to set the system date and time.
NTP Setting		Click <b>Update</b> 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

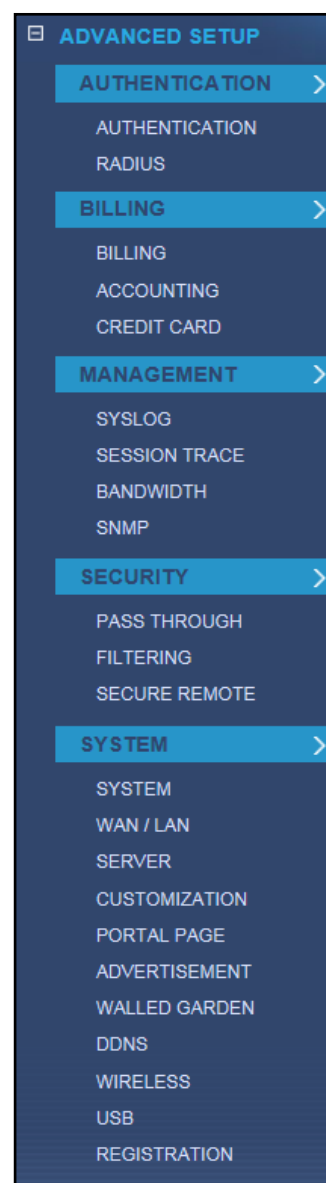


Figure 3-2-1 Advanced Setting Item

**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

AUTHENTICATION

Authentication Type	<div><div><input type="radio"/> No Authentication</div><div><input checked="" type="radio"/> Built-in Authentication</div><div><input type="radio"/> User Agreement</div><div><div><input type="radio"/> Redirect URL Link</div><div><div>http://</div><div></div><div>Code</div></div></div><div><input checked="" type="radio"/> Standard User Agreement Page</div></div> <div>* Authentication default setting would be mapping To ESSID 1.</div>
Current User Information Backup	<div><div>1</div>Min(s) (1 - 1440)</div>
SSL Login Page	<div><div><input checked="" type="radio"/> Disable</div><div><input type="radio"/> Enable</div></div>
User Idle Time Out	<div><div>5</div>Min(s) (1 - 1440)</div> <div>(Not function on "Time to Finish" billing mode)</div>

Apply

Figure 3-2-2 Authentication

Item	Default	Description
Authentication Type	Built-in Authentication	<p>Option: No Authentication, Built-in Authentication or User Agreement.</p> <p><b>No Authentication</b></p> <p>Subscriber can direct access the Internet without enter username and password.</p> <p><b>Built-in Authentication</b></p> <p>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.</p>

Item	Default	Description
		<b>User Agreement</b> 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
<pre> &lt;html&gt; &lt;head&gt; &lt;title&gt;UAG50&lt;/title&gt; &lt;/head&gt; &lt;body&gt;  &lt;center&gt; &lt;table width="75%" border="0"&gt; &lt;form method="post" action="http://1.1.1.1/agree.cgi" name="agree"&gt; &lt;tr&gt; &lt;td align="center" width="50%"&gt;  &lt;input type="submit" name="agree" value="Agree"&gt; &lt;/td&gt; &lt;td align="center" width="50%"&gt; &lt;input type="submit" name="disagree" value="Do not agree"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;/form&gt; &lt;/table&gt; &lt;/center&gt;  &lt;/body&gt; &lt;/html&gt; </pre>
<input type="button" value="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

**RADIUS**

**RADIUS :** Disable ▾

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

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

**Primary RADIUS Server**

Server IP:   
 Authentication Port:   
 Accounting Port:   
 Shared Secret Key:

**Secondary RADIUS Server**

Server IP:   
 Authentication Port:   
 Accounting Port:   
 Shared Secret Key:

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

☐ Accounting Service

Authentication Method CHAP ▾

Apply

Figure 3-2-4 Authentication Setting Screen

Item	Default	Description
------	---------	-------------

Item	Default	Description
RADIUS Authentication	Disable	<p><b>Disable (RADIUS Disable)</b></p> <p>Subscriber can direct access the Internet without entering username and password.</p> <p><b>Enable (RADIUS Authentication)</b></p> <p>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).</p>
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.

**BILLING**

☐ Enable Credit Card Service    ☐ No Billing Mode

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

☐ Tax Percentage:  %

**Time Base Profile**

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

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

No.	Active	Name (max. 12 characters)	Account Usage Time	Charge
1	<input checked="" type="checkbox"/>	<input type="text" value="30 minutes"/>	<input type="text" value="30"/> minutes ▾	<input type="text" value="1.00"/>
2	<input checked="" type="checkbox"/>	<input type="text" value="1 hour"/>	<input type="text" value="1"/> hours ▾	<input type="text" value="2.00"/>
3	<input checked="" type="checkbox"/>	<input type="text" value="2 hours"/>	<input type="text" value="2"/> hours ▾	<input type="text" value="3.00"/>
4	<input type="checkbox"/>	<input type="text" value="3 hours"/>	<input type="text" value="3"/> hours ▾	<input type="text" value="4.00"/>
5	<input type="checkbox"/>	<input type="text" value="5 hours"/>	<input type="text" value="5"/> hours ▾	<input type="text" value="5.00"/>
6	<input type="checkbox"/>	<input type="text" value="10 hours"/>	<input type="text" value="10"/> hours ▾	<input type="text" value="6.00"/>
7	<input type="checkbox"/>	<input type="text" value="1 day"/>	<input type="text" value="1"/> days ▾	<input type="text" value="10.00"/>
8	<input type="checkbox"/>	<input type="text" value="2 days"/>	<input type="text" value="2"/> days ▾	<input type="text" value="20.00"/>
9	<input type="checkbox"/>	<input type="text" value="7 days"/>	<input type="text" value="7"/> days ▾	<input type="text" value="50.00"/>
10	<input type="checkbox"/>	<input type="text" value="30 days"/>	<input type="text" value="30"/> days ▾	<input type="text" value="200.00"/>

**Volume Base Profile**

No.	Active	Name (max. 32 characters)	Volume	Charge
1	<input checked="" type="checkbox"/>	<input type="text" value="Volume Profile 1"/>	<input type="text" value="100"/> MBytes(1~4096)	<input type="text" value="1.00"/>
2	<input checked="" type="checkbox"/>	<input type="text" value="Volume Profile 2"/>	<input type="text" value="200"/> MBytes(1~4096)	<input type="text" value="2.00"/>
3	<input checked="" type="checkbox"/>	<input type="text" value="Volume Profile 3"/>	<input type="text" value="300"/> MBytes(1~4096)	<input type="text" value="3.00"/>
4	<input type="checkbox"/>	<input type="text" value="Volume Profile 4"/>	<input type="text" value="400"/> MBytes(1~4096)	<input type="text" value="4.00"/>
5	<input type="checkbox"/>	<input type="text" value="Volume Profile 5"/>	<input type="text" value="500"/> MBytes(1~4096)	<input type="text" value="5.00"/>

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 <b>FREE</b> 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).
<b>Time Base Profile</b>		
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.
<b>Volume Base Profile</b>		
You are able to set up to 5 records of volume base profile in UI.		
Active	-	Click on check box, to active or inactive the billing profile.
Name	-	It is the name of billing profile. The maximum allowed characters length is 12.
Account Usage time	-	Setting the volume of the account. When this volume is run out, user account will be discontinued.
Charge	-	Enter the unit rate amount.

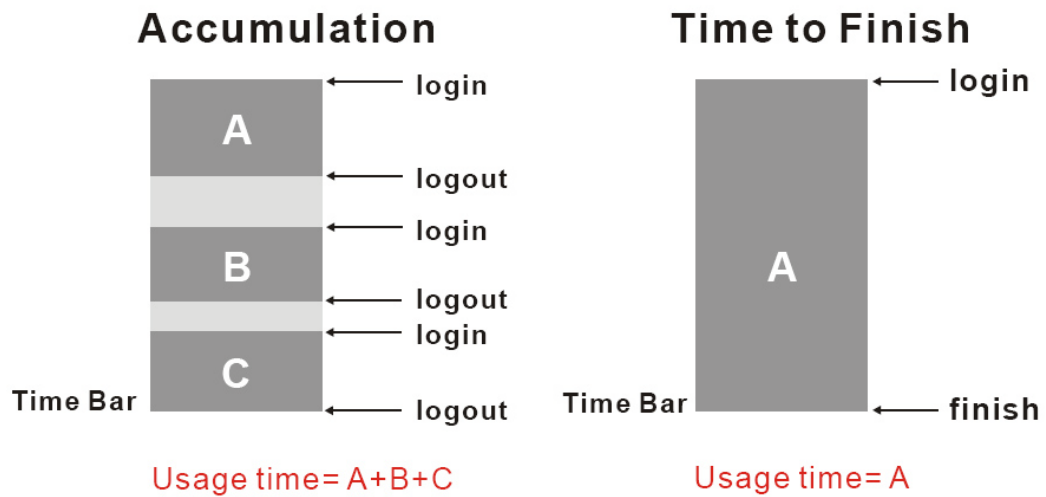


Figure 3-2-6 Accumulation and Time to Finish

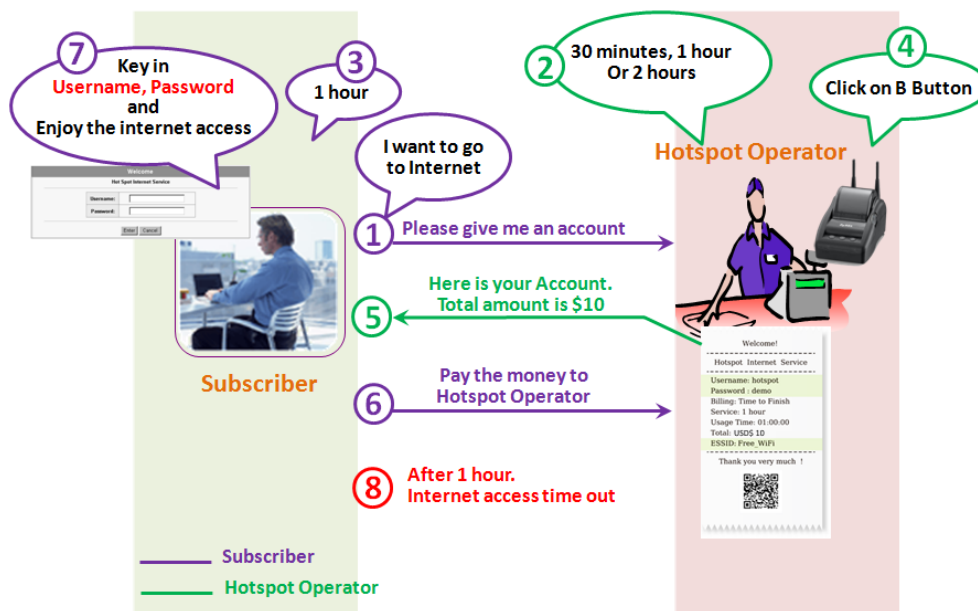


Figure 3-2-7 Pre-paid Procedure Diagram

### 3-2-2-2 Accounting

This function allow service provider to generate the subscriber accounts.

**ACCOUNTING**

Expiration

Un-used account will be deleted after 

hours

 automatically. (1~30)

Expiration

Accumulation account will be deleted after last logged out 

months

 automatically. (1~30)

Printout

Number of copies to print :

Top Up

☐ Can be replenished by subscriber

☐ Free Trial

Three-Button Printer / Web-based Account Generator Panel

Button A

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

Button B

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

Button C

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

Use

Button A

for Discount Price Plan based on "Button Presses":

Disable

(only valid for Three-Button Printer)

Discount Price Plan based on "Button Presses"

☒ Charge by levels

Level	Conditions	Button Presses	Unit Price
01	when > =	1	same as base charge
02	when > =	<input type="text"/>	<input type="text"/>
03	when > =	<input type="text"/>	<input type="text"/>
04	when > =	<input type="text"/>	<input type="text"/>
05	when > =	<input type="text"/>	<input type="text"/>
06	when > =	<input type="text"/>	<input type="text"/>
07	when > =	<input type="text"/>	<input type="text"/>
08	when > =	<input type="text"/>	<input type="text"/>
09	when > =	<input type="text"/>	<input type="text"/>
10	when > =	<input type="text"/>	<input type="text"/>

Apply

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.

☒ Free Trial

Enable Free Trial Service

Free Trial Button Name shown on Login Page:  (Max. 1 ~ 30 characters)

By ☒ Usage Time  Minute(s)(5 ~ 1440)

By ☐ Usage Volume  Mbyte(s)(1~1024)

Reset Time  :  (Hour : Minute)

Figure 3-2-9 Accounting Setting Screen\_Free Trial

Item	Default	Description
<b>Free Trial</b>		
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.

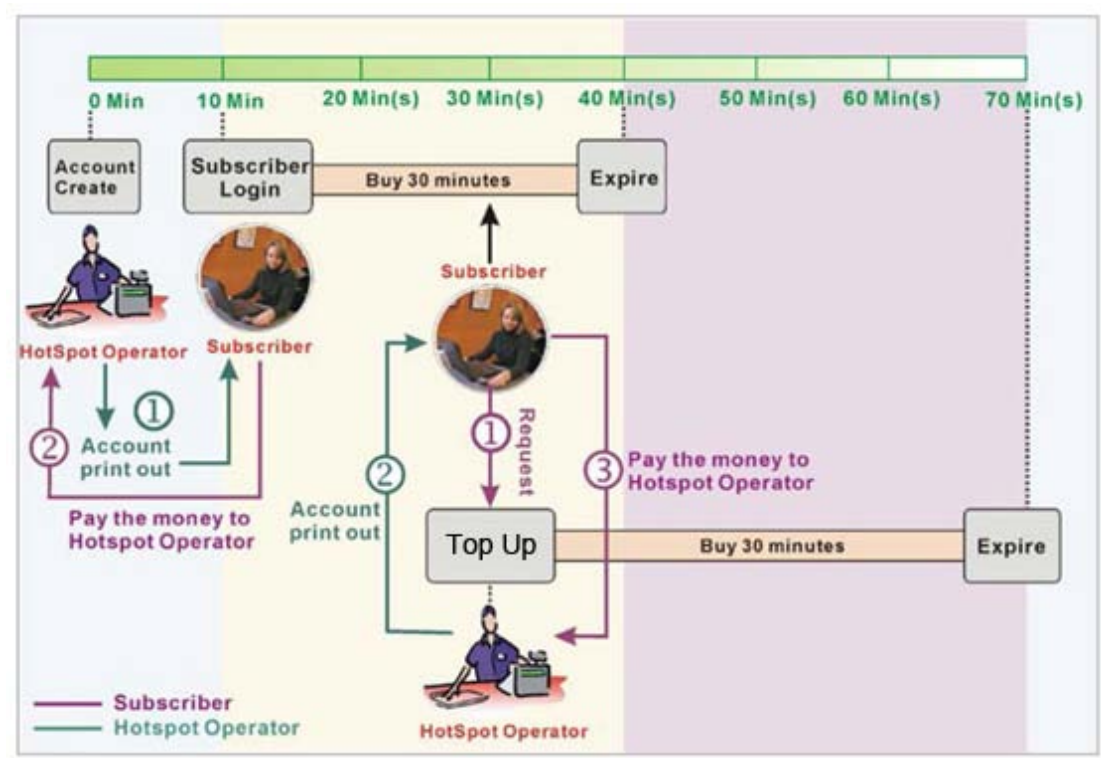


Figure 3-2-10 Account Process Diagram Can be topped up by subscriber=Enable

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.

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

Figure 3-2-13 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.

Three-Button Printer / Web-based Account Generator Panel

Button A	(01) 30 minutes, 30 minutes, USD1.00
Button B	(02) 1 hour, 1 hours, USD2.00
Button C	(03) 2 hours, 2 hours, USD3.00

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

Discount Price Plan based on "Button Presses" ☐ Charge by levels

Level	Conditions	Button Presses	Unit Price
01	when > =	1	same as base charge
02	when > =	3	1.5
03	when > =	7	1
04	when > =		
05	when > =		

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.

Three-Button Printer / Web-based Account Generator Panel

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

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

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

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

Discount Price Plan based on "Button Presses" ☒ Charge by levels

Level	Conditions	Button Presses	Unit Price
01	when > =	1	same as base charge
02	when > =	3	1.5
03	when > =	7	1
04	when > =		

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”

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

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.








CREDIT CARD	
<input checked="" type="radio"/> <b>Authorize.net</b>	
Version	3.1
Merchant ID	<input type="text"/> (max. 50 characters)
Merchant Transaction Key	<input type="text"/> (max. 50 characters)
Payment Gateway	https:// <input type="text"/> (max. 200 characters)
<input type="checkbox"/> Email Additional Information	Merchant Name: <input type="text"/> (max. 40 characters) <input type="checkbox"/> Username and Password <input type="checkbox"/> Usage Time
<input type="radio"/> <b>PayPal</b>	
Business	<input type="text"/> (max. 127 characters)
Currency Code	Australia Dollar <input type="button" value="v"/>
Identity Token	<input type="text"/> (max. 160 characters)
Payment Gateway	https:// <input type="text"/> (max. 200 characters)
Credit Card icons to be displayed on the login page	
<input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/> 	
<input type="button" value="Apply"/>	

Figure 3-2-20 Credit Card Setting Screen

Item	Default	Description
<b>Authorize.net</b>		
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	<a href="https://secure.authorize.net/gateway/transaction.dll">https://secure.authorize.net/gateway/transaction.dll</a>	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.
<b>Paypal</b>		
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/cg i-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

SYSLOG

Syslog

Log Settings

☒ Send to Syslog Server

☐ Syslog Server on LAN:

Server IP Address:

Server MAC Address:

☐ Syslog Server on WAN:

Server 1:

Server 2:

☒ Send to Email

IP Address or Domain Name:

SMTP Port:

Connection Security: 

None

☐ E-mail (SMTP) server needs to check my account

Username:

Password:

Name:

Email From: 

Email Address:

Email Address 1:

Email Address 2:

Apply

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
<b>Syslog on WAN</b>		
Server 1 IP Address	Empty	Enter IP address of first syslog server.
Server 2 IP Address	Empty	Enter IP address of second syslog server.
<b>Send to Email</b>	Disable	Enables or disables the send to e-mail function.
<b>E-mail Server</b>		
IP Address or Domain Name	Empty	Enter the SMTP server IP address or domain name. The maximum allowed characters length is 50.
SMTP Port	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
<b>Email From</b>		
Name	Empty	Enter the name you would like to appear in the "message from" field of your outgoing message. The maximum allowed characters length is 20.
Email Address	Empty	Enter your e-mail address. This is the address others will use to send email to Email Address 1/Email Address 2.
<b>Email To</b>		
Email Address 1	Empty	Enter your first e-mail address to receive the logs.
Email Address 2	Empty	Enter your second e-mail address to receive the logs.

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

Syslog		Log Settings		
<b>System</b>				
Syslog	Email	Log Name	Description	Sending Timing
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Device Information	A log including the device information will be sent according to specified interval time	Every <input type="text" value="10"/> minute(s) (5~60)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System Up Notice	A log will be sent, once system rebooted or restarted	When system rebooted or restarted
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System Account Activity Information	A log will be sent if system manager (Administrator) login to or logout from the device	When system manager login or logout
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Firmware Update Notice	A log will be sent if firmware update completed	When firmware update completed
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wireless Association Information	A log including wireless users information will be sent according to specified interval time	Every <input type="text" value="10"/> minute(s) (5~60)
<b>User</b>				
Syslog	Email	Log Name	Description	Sending Timing
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	User Login	A log including users information will be sent when user logged -in	When user logged-in
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	User Logout	A log including users information will be sent when user logged -out	When user logged-out
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Current User List	A log including logged-in users information will be sent according to specified interval time	Every <input type="text" value="10"/> minute(s) (5~60)
<b>Account and Billing</b>				
Syslog	Email	Log Name	Description	Sending Timing
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Account Information	A log will be sent when an account is created	When an account is created
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Billing Amount	A log will be sent when received amount	When received amount

Figure 3-2-22 Log Settings Screen

Item	Default	Description
<b>System</b>		
Device Information	Every 10 minute(s)	<p>The range is 5~60 minutes. The log included system information would be sent according to specified interval time.</p> <p><b>Format :</b></p> <p>PRODUCT=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;</p>

Item	Default	Description
		<p>LANRXERROR=99999;WIRELESSTXOK=99999;WIRELESSRXOK=99999;</p> <p>WIRELESSTXERROR=99999;WIRELESSRXERROR=99999;</p> <p>WAN_QUALITY=5;</p>
System Up Notice	When system rebooted or restarted	<p>If device have been rebooted or restarted, the log would be sent.</p> <p><b>Format :</b></p> <p>PRODUCT=UAG50;VER=2.00.00;LOGNAME=SUN;</p> <p>DATE=07Mar26;TIME=15:23:32;</p> <p>WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02;</p> <p>WLANMAC=09-00-0e-00-00-03;</p> <p>IP_ADDRESS=210.66.37.21;</p> <p>SYS_NAME=Cafehotspot;LOCATION=East;CITY=Taipei;</p> <p>COUNTRY=Taiwan;</p> <p>FIRMWARE=v1.01.02;MESSAGE=System_Up;</p> <p>Message = System_Reboot</p>
System Account Activity Information	When system manager login or logout	<p>A log will be sent if system manager (Administrator) login to or logout from the device</p> <p><b>Format:</b></p> <p>PRODUCT=UAG50;VER=2.00.00;LOGNAME=SUN;</p> <p>DATE=07Mar26;TIME=15:23:32;</p> <p>WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02;</p> <p>WLANMAC=09-00-0e-00-00-03;</p> <p>IP_ADDRESS=210.66.37.21;</p> <p>SYS_NAME=Cafehotspot;LOCATION=East;CITY=Taipei;</p> <p>COUNTRY=Taiwan;</p> <p>FIRMWARE=v1.01.02;MESSAGE=System_Up;</p> <p><b>Account Name</b> = Admin   Supervisor   Operator</p> <p><b>Status</b>= Login   Logout   Idle_Time_Out</p>

Item	Default	Description
Firmware Update Notice	When firmware update completed	<p>A log will be sent if firmware update completed</p> <p><b>Format:</b></p> <p>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</p> <p><b>Message</b> = Success   Fail</p>
Wireless Association Information	Every 10 minute(s)	<p>The range is range 5~60 minutes. A log including wireless users information will be sent according to specified interval time.</p> <p><b>Format:</b></p> <p>PRODUCT=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;</p>
<b>User</b>		
User Login	When user logged-in	<p>A log including users information will be sent when user logged-in</p> <p><b>Format:</b></p> <p>PRODUCT=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;</p> <p><b>User Type</b> = Dynamic / Super / User Agreement / Radius / No-Auth</p> <p><b>When User Replenish login format:</b></p> <p>PRODUCT=UAG50;VER=2.00.00;LOGNAME=URP;DATE=07Mar26;  TIME=15:23:32; WANMAC=09-00-0e-00-00-01;</p>

Item	Default	Description
		<p>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</p> <p><b>User Type</b> = Dynamic / Radius</p>
User Logout	When user logged-out	<p>A log including users information will be sent when user logged –out</p> <p><b>Format:</b>  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</p> <p><b>User Type</b> = Dynamic / Super / User Agreement / Radius /  No-Auth</p>
Current User List	Every 10 minute(s)	<p>The range is Range 5~60 minutes. A log including logged-in users information will be sent according to specified interval time</p> <p><b>Format:</b>  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</p>

Item	Default	Description
		<p>2-34-3e-01-02,</p> <p>INTERFACE=Wireless,USER_TYPE=Dynamic,RXDATA=1234</p> <p>,</p> <p>TXDATA=1234,USED_TIME=24:00:00,SESSION=100,WLAN_SIG=100%;</p> <p><b>User Type</b> = Dynamic / Super / User Agreement / Radius / No-Auth</p> <p><b>User Name</b> = If the type of user is Super/User Agreement/No-Auth , the username=****</p>
<b>Account and Billing</b>		
Account Information	When an account is created	<p>A log will be sent when an account is created</p> <p><b>Format:</b></p> <p>PRODUCT=UAG50;VER=2.00.00;LOGNAME=ACI;DATE=07Mar26;</p> <p>TIME=15:23:32;WANMAC=09-00-0e-00-00-01;</p> <p>LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03;</p> <p>IP_ADDRESS=210.66.37.21;USER_NAME=asdfg12;</p> <p>ACCOUNT_TYPE=TimetoFinish;</p> <p>ACCOUNT_SERIAL=000002;</p> <p>ACCOUNT_PRICE= USD20.00;</p> <p>ACCOUNT_USAGE_TIME=10:59:59;</p> <p>BILLING_INDEX=1;BILLING_UNIT=2;</p> <p><b>Account Type</b> = TimeToFinish / Accumulation / PostPaid</p> <p><b>Account Price = Currencyxx.xx</b></p> <p><b>Currency</b> = AUD   CHF   EUR   GBP   JPY   RIY   USD</p>
Billing Amount	When received amount	<p>A log will be sent when received amount</p> <p><b>Format:</b></p> <p>PRODUCT=UAG50;VER=2.00.00;LOGNAME=BLA;</p> <p>DATE=07Mar26;</p> <p>TIME=15:23:32;WANMAC=09-00-0e-00-00-01;</p> <p>LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03;</p> <p>IP_ADDRESS=210.66.37.21;USER_NAME=username;</p> <p>BILL_TYPE=Cash,</p> <p>BILL_AMOUNT= USD50.00</p> <p><b>Billing Type</b>= Cash   Credit_Card; <b>Billing Amount</b> = xx.xx</p> <p><b>Currency</b> = AUD   CHF   EUR   GBP   JPY   RIY   USD.....</p>



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

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

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

Figure 3-2-23 Session Trace Setting Screen

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

### 3-2-3-3 Bandwidth

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

**BANDWIDTH**

**Bandwidth Management:**

Disable ▾

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.

Maximum Upstream

☒ 64Kbps ▾

☐

64

 Kbps(64~5120)

Maximum Downstream

☒ 128Kbps ▾

☐

64

 Kbps(64~5120)

Apply

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.

The screenshot shows the 'SNMP' configuration page. At the top, there's a section for 'SNMP' with a dropdown menu set to 'Disable'. Below this are two input fields: 'SNMP Port' with the value '161' and a range '( 161 or 16100 ~ 16199 )', and 'Trap Port' with the value '162' and a range '( 162 or 16200 ~ 16299 )'. The main part of the screen is a table with 5 columns: 'No', 'Community Name', 'NMS Address', 'Privileges', and 'Status'. It contains 5 rows of configuration data. The first two rows are 'Valid', while the last three are 'Invalid'. An 'Apply' button is located at the bottom right.

No	Community Name	NMS Address	Privileges	Status
01	public	ANY	Read	Valid
02	private	ANY	Write	Valid
03		ANY	All	Invalid
04		ANY	All	Invalid
05		ANY	All	Invalid

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.

**FILTERING**

Filtering

Disable

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

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

This Web Site is blocked by System

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

☒ URL or Website:

☐ Start / End IP Address  ~

☐ IP Address:  Subnet Mask:

Add to list

**Restricted Destination List**

No.	Active	Address List	Delete
-----	--------	--------------	--------

Delete All

Apply

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 ' <b>Delete</b> ' to delete the filtering address(s).

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

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

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

3-2-4-3 Secure Remote

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

SECURE REMOTE

Secure Remote: 

Disable

This feature allows you to create a secure connection to a remote site or back end system with VPN PPTP Client. When this feature is enable, the RADIUS packet/syslog/HTTP/session trace will be transferred to this secure connection.

PPTP Client

Auto-connect at Start-up (Always connect)

PPTP Server IP address :

Username :

Password :

start/stop connection

Status 

refresh

VPN Tunnel : Offline

Client IP :

Apply

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.

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## 3-2-5 System

### 3-2-5-1 System

Define the UAG50 System configuration.

SYSTEM	
System/Host Name	<input type="text"/> (Max.=50)
Domain Name	<input type="text"/> (Max.=50)
Location Information	Location Name: <input type="text"/> (Max.=50)
	Address: <input type="text"/> (Max.=200)
	City: <input type="text"/> (Max.=50)
	State / Province: <input type="text"/> (Max.=50)
	Zip / Postal Code: <input type="text"/> (Max.=10)
	Country: <input type="text"/> (Max.=50)
	Contact Name: <input type="text"/> (Max.=50)
	Contact Telephone: <input type="text"/> (Max.=50)
	Contact FAX: <input type="text"/> (Max.=50)
	Contact Email: <input type="text"/> (Max.=50)
Date/Time	Time Zone: GMT <input type="button" value="v"/>
	<input type="radio"/> Manual Setting
	<input checked="" type="radio"/> NTP Setting      Date: 2015/5/4 Time: 22:40:22 <input type="button" value="Update Now"/>
	Date: 2015 <input type="button" value="v"/> / 05 <input type="button" value="v"/> / 04 <input type="button" value="v"/> (Year/Month/Day)
	Time: 22 <input type="button" value="v"/> : 40 <input type="button" value="v"/> : 22 <input type="button" value="v"/> (Hour : Minute : Second)
	Server IP/Domain Name 1 <input type="text"/> time.nist.gov Fail
	Server IP/Domain Name 2 <input type="text"/> pool.ntp.org Fail
	Update Time <input type="text"/> 0 hours
	<input type="checkbox"/> Daylight Saving Time      Start Date: 4 <input type="button" value="v"/> Month / 1 <input type="button" value="v"/> Day
	End Date: 10 <input type="button" value="v"/> Month / 31 <input type="button" value="v"/> Day
<input checked="" type="checkbox"/> NAT (Network Address Translation)	<input checked="" type="checkbox"/> IP Plug and Play
<input checked="" type="checkbox"/> Session Limit	<input type="text"/> 300 (1~1024)
<input checked="" type="checkbox"/> Layer 2 Isolation Security	
Secure administrator IP addresses	<input checked="" type="radio"/> Any <input type="radio"/> Specify
	1 <input type="text"/> ~ <input type="text"/>
	2 <input type="text"/> ~ <input type="text"/>
	3 <input type="text"/> ~ <input type="text"/>
	4 <input type="text"/> ~ <input type="text"/>
	5 <input type="text"/> ~ <input type="text"/>
<input type="checkbox"/> Multicast Pass Through	
<input checked="" type="checkbox"/> Allow remote user to ping the device	
SSL Certificate	<input checked="" type="radio"/> Default <input type="radio"/> Customer Certificate
<input checked="" type="checkbox"/> Multi-Press	
<input type="button" value="Apply"/>	

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.
<b>Date/Time</b>		
Time Zone	GMT	Select the appropriate time zone for your location.
Manual Setting	Click <b>Manual Setting</b> to set the system date and time.	
Date	Year/Month/Day	Enter the Date for the system.
Time	Hour:Minute:Second	Enter the Time for the system.
NTP Setting	Enable	Enables or disables NTP (Network Time Protocol) Time Server. Network Time Protocol can be utilized to synchronize the time on devices across a network. A NTP Time Server is utilized to obtain the correct time from a time source and adjust the local time.
Server IP/Domain Name	Empty	Enter the IP address/domain name of NTP server. The maximum allowed characters length is 100.
Update Time	0 hours	Enter the number of hours for update time.
Daylight Saving Time	Disable	Enables or disables Daylight Saving Time (DST).
	Month/Day	Set the Daylight Saving Time (DST) on the UAG50. Adjust the begin time and end time.
<b>NAT (Network Address Translation)</b>		
NAT	Enable	Enables or disables NAT Address Translation function.
User Session Limited	Enable,300	Enables or disables user session limit function. This feature provides you an ability to control a number of sessions allowed for 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	<p>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.</p> <p>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.</p>

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

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

**WAN / LAN**

**LAN**

The Device IP Address and Subnet mask settings

IP Address:

Subnet Mask:

**WAN MAC Address**

☒ Default

☐ Change to:  :  :  :  :  :

**WAN MTU Setting**

Wan Port Maximum Transmission Unit:

**WAN Port Mode**

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

☐ Static IP( Mostly for advanced Local Area Network environment )

☐ PPPoE( Mostly for ADSL modem users )

☐ PPTP( Mostly for Europe ADSL modem users )

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.
<b>Connect on Demand</b>	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.
<b>Max Idle Time</b>	10 Minutes	
<b>Keep alive</b>	Disable	This option keeps your PPPoE enabled Internet access connected indefinitely, even when it sits idle. The Redial Period maximum value is 65535 seconds.
<b>Redial Period</b>	30 Seconds	

3-2-5-3 Server

Server

SERVER

Server

Static DHCP

Web Server

☒ HTTP Port: 80 (80, 8010 - 8060)

☐ HTTPS Port: 443 (443, 4430 - 4440)

DHCP Server

☐ DHCP Disable

☐ DHCP Relay

☒ DHCP Server

IP Pool Starting Address: 172.16.0.2

Pool Size: 253 (Max.=253)

Lease Time: 300 (Minutes)

Primary DNS Server: 172.16.0.1

Secondary DNS Server:

Email Server Redirect

IP Address or Domain Name:

SMTP Port: 25 (25, 2500 - 2599)

Apply

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.

Server

Static DHCP

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

Apply

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.

**CUSTOMIZATION**

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

Choose a login page type:

Login page Auto-Resizing: Disable

☒ Standard  
☐ Redirect  
☐ Advanced  
☐ Frame

Custom the message on the **standard** login page:

<input type="checkbox"/> Logo	
Title	<input type="text" value="Welcome"/> (Max. 80 characters)
Subtitle	<input type="text" value="Unified Access Gateway"/> (Max. 80 characters)
Username	<input type="text" value="Username"/> (Max. 20 characters)
Password	<input type="text" value="Password"/> (Max. 20 characters)
Enter Button	<input type="text" value="Enter"/> (Max. 20 characters)
Cancel Button	<input type="text" value="Cancel"/> (Max. 20 characters)
<input type="checkbox"/> Footnote	<input type="text" value="Contact us if you have any"/> (Max. 240 characters)
<input checked="" type="checkbox"/> Copyright	<input type="text" value="Copyright (c) 2014-2015 All"/> (Max. 80 characters)
Background Color	<input type="text" value="FFFFFF"/> <a href="#">View Color Grid</a>

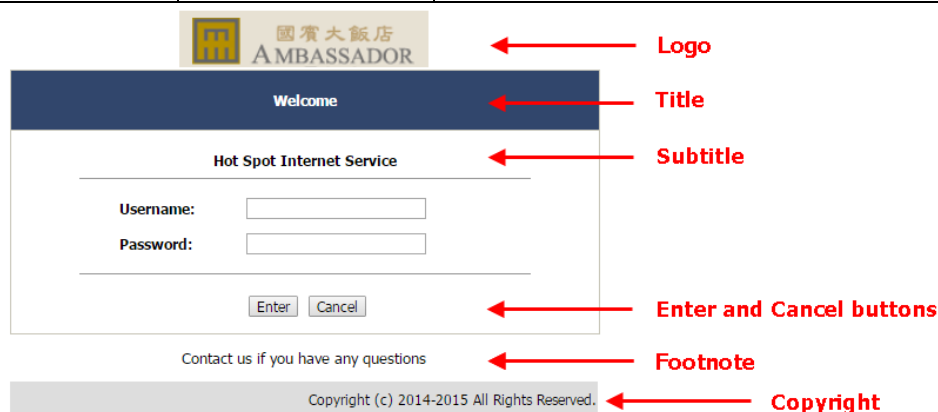
[Preview Standard Login Page](#)

Apply

Figure 3-2-33 Customization Setting Screen

Item	Default	Description
<b>Standard</b>		For some service providers, they may hope to have a customize subscriber's login page to the users. This function helps them to realize the ideal. The page elements are including login page title, background color, subtitle etc.
Logo	Disable	Select the check box to display service provider's logo.
Title	Welcome	Enter the title name of subscriber login page. The maximum allowed characters length is 80.
Subtitle	Hot Spot Internet Service	Enter the subtitle name of subscriber login page. The maximum allowed characters length is 80.
Footnote	Disable	Allow the administrator to input the footnote such like "Please Contact to our Customer Service Center, EXT 141". The maximum character of the footnote is 240.

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.



The screenshot shows a login page for Ambassador Hotel. At the top is the hotel's logo and name. Below that is a dark blue header with the word 'Welcome'. Underneath is a subtitle 'Hot Spot Internet Service'. The main area contains a login form with fields for 'Username' and 'Password', and 'Enter' and 'Cancel' buttons. At the bottom of the form area is a footnote 'Contact us if you have any questions'. The very bottom of the page has a grey bar with the copyright notice 'Copyright (c) 2014-2015 All Rights Reserved.'.

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
<div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <div style="background-color: #e0e0e0; text-align: center; padding: 5px; margin-bottom: 10px;"><b>Redirect Login Page Code</b></div> <pre> &lt;html&gt; &lt;head&gt; &lt;title&gt;UAG50&lt;/title&gt; &lt;/head&gt; &lt;body style="font-family: Arial" bgcolor="#FFFFFF"&gt; &lt;form method="post" action="http://1.1.1.1/login.cgi" name="apply"&gt; &lt;div align="center"&gt; &lt;table cellSpacing="0" cellPadding="0" width="50%" borderColorLight="#8e8e8e" border="1"&gt; &lt;tr&gt; &lt;td align="center" width="100%" bgColor="#8e8e8e" height="24"&gt; &lt;font face="Arial, Helvetica, sans-serif" size="2" color="#FFFFFF"&gt;&lt;b&gt;Welcome&lt;/b&gt;&lt;/font&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td align="center"&gt; &lt;table cellSpacing="0" cellPadding="4" width="100%" bgColor="#FFFFFF" border="0"&gt; &lt;tr&gt; &lt;td align="right" width="35%" style="font-family: Arial, Helvetica, sans-serif, font-size: 12pt"&gt; &lt;font color="#000000" size="2"&gt;&lt;b&gt;Username:&lt;/b&gt;&lt;/font&gt; &lt;/td&gt; &lt;td width="65%"&gt; &lt;input type="text" name="username" id="userValue" size="25"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td align="right" width="35%" style="font-family: Arial, Helvetica, sans-serif, font-size: 12pt"&gt; &lt;font color="#000000" size="2"&gt;&lt;b&gt;Password:&lt;/b&gt;&lt;/font&gt; &lt;/td&gt; &lt;td width="65%"&gt; &lt;input type="password" name="password" id="passwdValue" size="25"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td align="center" width="100%" style="font-family: Arial, font-size: 12pt" bgcolor="#F7F7F7" colspan="2"&gt; &lt;input type="submit" name="apply" value="Enter" style="font-family: Arial"&gt; &lt;input type="reset" name="clear" value="Clear" style="font-family: Arial"&gt; &lt;/td&gt; &lt;/tr&gt; &lt;/tr&gt; &lt;/table&gt; &lt;/div&gt; &lt;/div&gt; &lt;/body&gt; &lt;/html&gt; </pre> <div style="text-align: right; margin-top: 10px;"> <input type="button" value="Close"/> </div> </div>		
<b>Figure 3-2-35 Preview Redirect Login Page Code</b>		
<b>Advanced</b>	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.
<b>Frame</b>		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.

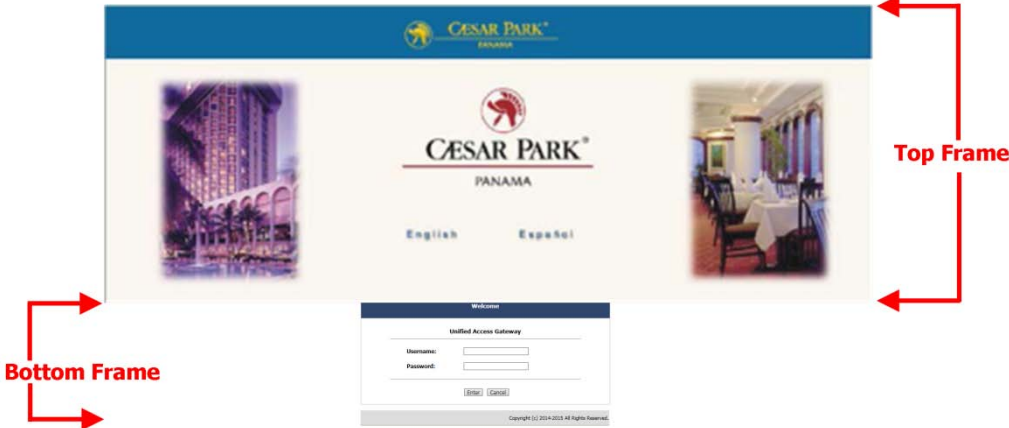


Figure 3-2-36 Example-Login Page Screen

### 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.

CUSTOMIZATION

Login Page

Logo

Information Window

Account Printout

Credit Card

User Agreement Page

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

☒ Display Information Window after a subscriber logs in successfully

Information Window

☐ Redirect

Type

☒ Pop Up

☒ Allow subscriber to close the pop-up window

Information Window Contents

Window Name	<input type="text" value="Information Window"/> (Max. 30 character)
Main message	<input type="text" value="You can use Internet now!"/> (Max. 30 character)
Message Description	<input type="text" value="This is an information wind"/> (Max. 150 character)
Time count label	<input type="text" value="Remaining Usage"/> (Max. 30 character)
<input type="checkbox"/> Warning/Alarm message	<input type="text" value="If you want to stop using ti"/> (Max. 150 character)
<input type="checkbox"/> Notice Message	<div><div>Notice Text 1</div><div><input type="text" value="Notice!"/> (Max. 150 character)</div><div>Notice Text 2</div><div><input type="text" value="If you are using a VPN (virt"/> (Max. 150 character)</div><div>Notice Text 3</div><div><input type="text"/> (Max. 150 character)</div></div>

Preview

Apply

Figure 3-2-38 Example-Login Page Screen

Information Window

You can use Internet now!

This is an information window that shows the usage.You can type `http://1.1.1.1/info` to open this window again without VPN connection.

Remaining Usage

If you want to stop using the Internet, click the "Logout" button.

Notice!

If you are using a VPN (virtual private network), close the message window before you open a VPN connection.

Window Name

Main message

Message Description

Time count label

Warning/Alarm message

Notice Message

Figure 3-2-39 Information Window

*Billing Type=Time to Finish*  
*Can be topped up by subscriber=Enable*

Information Window

You can use Internet now!

This is an information window that shows the usage.You can type `http://1.1.1.1/info` to open this window again without VPN connection.

Remaining Usage

Top Up

Figure 3-2-40 Information Window

*Billing Type=Accumulation*  
*Can be topped up by subscriber=Disable*

Information Window

You can use Internet now!

This is an information window that shows the usage.You can type http://1.1.1.1/info to open this window again without VPN connection.

Remaining Usage

HH:MM:SS

Logout

Figure 3-2-41 Information Window

*Billing Type=Accumulation*  
*Can be topped up by subscriber=Enable*

Information Window

You can use Internet now!

This is an information window that shows the usage.You can type http://1.1.1.1/info to open this window again without VPN connection.

Remaining Usage

HH:MM:SS

Top Up

Logout

Figure 3-2-42 Information Window

**Account Printout**

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

CUSTOMIZATION								
Login Page	Logo	Information Window	<b>Account Printout</b>	Credit Card	User Agreement Page			
<input checked="" type="checkbox"/> Title:								
<input checked="" type="radio"/> Format      Welcome! (Max.=75)								
1:								
<input type="radio"/> Format      Welcomel (Max.=75)								
2:								
<input checked="" type="checkbox"/> Subtitle:								
UAG50 (Max.=60)								
<input checked="" type="radio"/> Format      UAG50 (Max.=60)								
1:								
<input type="radio"/> Format								
2:								
Username:		Username: (Max.=24)						
Password:		Password: (Max.=24)						
<input checked="" type="checkbox"/> Billing Method:								
		Time to Finish: Time to Finish (Max.=24)						
Billing:		Accumulation: Accumulation (Max.=24)						
(Max.=24)								
		Traffic Base: Traffic Base (Max.=24)						
<input checked="" type="checkbox"/> Billing Profile:								
Service:		(Max.=24)						
<input checked="" type="checkbox"/> Purchase Unit:								
Unit:		(Max.=24)						
<input checked="" type="checkbox"/> Usage Time/Volume:								
Usage Time/Volume:		(Max.=24)						
<input checked="" type="checkbox"/> Price:								
Subtotal:		(Max.=24)						
<input checked="" type="checkbox"/> Tax:								
Tax:		(Max.=24)		TOTAL:	Total:	(Max.=24)		
<input checked="" type="checkbox"/> ESSID:								
ESSID:		(Max.=24)						
<input checked="" type="checkbox"/> Wireless Security								
WPA:		WPA: (Max.=24)						
WPA2:		WPA2: (Max.=24)						
MixMode:		WPA/WPA2: (Max.=24)						
WEP:		WEP: (Max.=24)						
<input type="checkbox"/> Additional Label 1:								
<input type="checkbox"/> Additional Label 2:								
<input checked="" type="checkbox"/> Print out Time:								
Format:		yyyy/mm/dd	HH:mm:ss	(HH:24h hh:12h tt:AM/PM)				
<input checked="" type="checkbox"/> Expiration Time:								
Description:		Activate account before: (Max.=24x3)						
Format:		yyyy/mm/dd	HH:mm:ss	(HH:24h hh:12h tt:AM/PM)				
Accumulation:		Please finish your usage time/volume within 3 months after your last logged out. (Max.=24x4)						
<input checked="" type="checkbox"/> Ending:								
Thank you !		(Max.=24x10)						
<input checked="" type="checkbox"/> QR Code:								

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

CUSTOMIZATION	
Login Page	Logo
Information Window	Account Printout
Credit Card	User Agreement Page
<b>Standard Login Page</b>	
Customize the additional credit card message for the standard login page	
Credit Card Message	<input type="text" value="or Click here to pay by card"/> (Max.80 characters)
<a href="#">Preview Standard Login Page</a>	
<b>Service Selection Page</b>	
Customize the message for the service selection page	
Service Selection Message	<input type="text" value="Please choose from the following"/> (Max. 80 characters)
Purchase Unit Message	<input type="text" value="How many units of Internet"/> (Max. 80 characters)
Notification Message 1	<input type="text" value="*Please kindly note that the time limit for"/> (Max. 160 characters)
Notification Message 2	<input type="text" value="*Please note that the time limit for"/> (Max. 160 characters)
Notification Message 3	<input type="text"/> (Max. 160 characters)
Enter Payment Information	<input type="text" value="Enter Payment Information"/> (Max. 160 characters)
Enter Credit Card Number	<input type="text" value="Credit card number:"/> (Max. 80 characters)
Enter Credit Card expiration date	<input type="text" value="Credit card expiration date:"/> (Max. 80 characters)
Enter Email Address	<input type="text" value="Enter Email Address"/> (Max. 80 characters)
Submit Button	<input type="text" value="Submit Transaction and Information"/> (Max. 40 characters)
<b>Additional Customer Data</b>	
Merchants may provide additional customer information with a transaction, based on their respective requirements.	
<input type="checkbox"/> Credit Card Code	<input type="text" value="Credit Card Code:"/> (Max. 80 characters)
<input type="checkbox"/> Customer ID	<input type="text" value="Customer ID:"/> (Max. 40 characters)
<input type="checkbox"/> First/Last Name	<input type="text" value="First Name:"/> (Max.20 characters) <input type="text" value="Last Name:"/> (Max.20 characters)
<input type="checkbox"/> Company	<input type="text" value="Company:"/> (Max. 40 characters)
<input type="checkbox"/> Address	<input type="text" value="Address:"/> (Max. 40 characters)
<input type="checkbox"/> City	<input type="text" value="City:"/> (Max. 40 characters)
<input type="checkbox"/> State/Province	<input type="text" value="State/Province:"/> (Max. 40 characters)
<input type="checkbox"/> ZIP/Postal Code	<input type="text" value="ZIP/Postal Code:"/> (Max. 40 characters)
<input type="checkbox"/> Country	<input type="text" value="Country:"/> (Max. 40 characters)
<input type="checkbox"/> Phone	<input type="text" value="Phone:"/> (Max. 40 characters)
<input type="checkbox"/> Fax	<input type="text" value="Fax:"/> (Max. 40 characters)
<a href="#">Preview of Service Selection Page</a>	
<b>Successful Page</b>	
Customize the message for the successful page	
Successful Message	<input type="text" value="You may now use the Internet"/> (Max. 80 characters)
Notification Message 1	<input type="text" value="IMPORTANT! Make a note of the time limit for"/> (Max. 160 characters)
Notification Message 2	<input type="text"/> (Max. 160 characters)
Account Information	<input type="text" value="This is your account information"/> (Max. 160 characters)
Username	<input type="text" value="Your username is"/> (Max. 80 characters)
Password	<input type="text" value="Your password is"/> (Max. 80 characters)
Usage Time	<input type="text" value="Your usage time is"/> (Max. 80 characters)
Expiration Time	<input type="text" value="Please activate your account"/> (Max.80 characters)
Format :	<input type="text" value="yyyy/mm/dd"/> <input type="text" value="HH:mm:ss"/> (HH:24h hh:12h tt:AM/PM)
Email Button	<input type="text" value="E-mail this webpage to me"/> (Max. 40 characters)
Submit Button	<input type="text" value="Use this account to LOG IN"/> (Max. 40 characters)
<a href="#">Preview of Successful Page</a>	
<b>Fail Page</b>	
Customize the message for the fail page	
Notification Message 1	<input type="text" value="SORRY, your card could not be used"/> (Max. 160 characters)
Notification Message 2	<input type="text" value="Please use your backup card"/> (Max. 160 characters)
Notification Message 3	<input type="text" value="Thank you!"/> (Max. 160 characters)
Try Again Button	<input type="text" value="Try Again"/> (Max. 40 characters)
Close Button	<input type="text" value="Close"/> (Max. 40 characters)
<a href="#">Preview of Fail Page</a>	
<a href="#">Apply</a>	

Figure 3-2-44 Credit Customization Setting Screen

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

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

### User Agreement Page

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

The screenshot shows the 'CUSTOMIZATION' interface with the 'User Agreement Page' tab selected. The form contains the following fields and controls:

- Title:** A text box containing 'User Agreement Page' with a character limit of '(max.100 Character)'.
- Title Text Color:** A color picker set to '000000' with a 'View Color Grid' link.
- Article:** A large text area with a character limit of '(max.5000 Character)'.
- Article Text Color:** A color picker set to '000000' with a 'View Color Grid' link.
- Article Background Color:** A color picker set to 'FFFFFF' with a 'View Color Grid' link.
- Page Background Color:** A color picker set to 'FFFFFF' with a 'View Color Grid' link.
- Agree Button:** A text box containing 'Agree' with a character limit of '(max.50 Character)'.
- Disagree Button:** A text box containing 'Do not agree' with a character limit of '(max.50 Character)'.

At the bottom right, there is a 'Standard User Agreement Page Preview' link and an 'Apply' button.

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.

PORTAL PAGE

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

URL Link

URL : http://

Apply

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.

ADVERTISEMENT

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

Frequency

☒ One Time Only

☐ Every

10

Min(s)

Sequence

☒ Randomly

☐ Orderly

(From 1 to 5)

URL Link 1

URL : http://

URL Link 2

URL : http://

URL Link 3

URL : http://

URL Link 4

URL : http://

URL Link 5

URL : http://

Apply

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.

WALLED GARDEN

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

Link 1	Name:	<input type="text"/>
	URL:	<div><div>http://</div><div>▼</div><div><input type="text"/></div></div>
Link 2	Name:	<input type="text"/>
	URL:	<div><div>http://</div><div>▼</div><div><input type="text"/></div></div>
Link 3	Name:	<input type="text"/>
	URL:	<div><div>http://</div><div>▼</div><div><input type="text"/></div></div>
Link 4	Name:	<input type="text"/>
	URL:	<div><div>http://</div><div>▼</div><div><input type="text"/></div></div>
Link 5	Name:	<input type="text"/>
	URL:	<div><div>http://</div><div>▼</div><div><input type="text"/></div></div>

Apply

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.

DDNS

Force to update every 24 hour(s) when WAN IP address keeps no change

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

Apply

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 <b>Update Status Now</b> 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

WIRELESS

General Setting

Country:

ETSI

Channel:

6

802.11 Mode:

802.11n + 802.11g + 802.11b

Channel Width:

20 MHZ

Multiple ESSID Setting

Item	ESSID	Security	Status	Auth Status	Edit
1	ZyXEL01	Open	Active	Built-in	Edit
2	ZyXEL02	Open	Inactive	No Auth	Edit
3	ZyXEL03	Open	Inactive	No Auth	Edit
4	ZyXEL04	Open	Inactive	No Auth	Edit
5	ZyXEL05	Open	Inactive	No Auth	Edit
6	ZyXEL06	Open	Inactive	No Auth	Edit
7	ZyXEL07	Open	Inactive	No Auth	Edit
8	ZyXEL08	Open	Inactive	No Auth	Edit

Do not change the below settings unless you are aware of the possible results. Click Default to restore the factory default settings.

Beacon Interval

200

(msec, range:1~1000, default:200)

RTS Threshold

2342

(range:256~2342, default:2342)

Fragmentation Threshold

2346

(range:256~2346, default:2346, even numbers only)

Preamble Type

Short Preamble

☒ Long Preamble

Dynamic Preamble

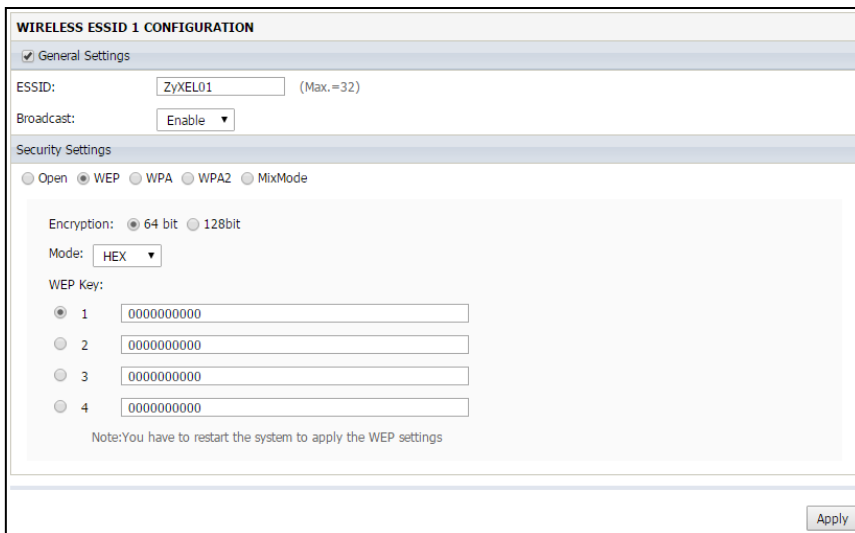
Default

Apply

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 <b>Edit</b> button for each of 8 ESSID setting.	

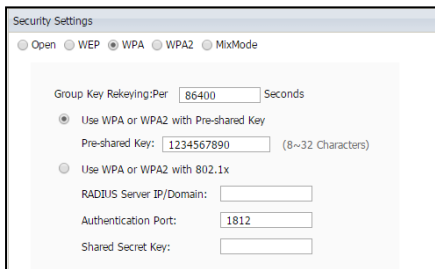


Item	Default	Description
 <p>The screenshot shows the 'WIRELESS ESSID 1 CONFIGURATION' screen. Under 'General Settings', the ESSID is 'ZyXEL01' (Max. = 32) and Broadcast is 'Enable'. Under 'Security Settings', 'Open' is selected. Encryption is set to '64 bit' and Mode is 'HEX'. There are four WEP Key fields, all containing '0000000000'. A note at the bottom states: 'Note: You have to restart the system to apply the WEP settings'. An 'Apply' button is at the bottom right.</p>		
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

 <p>The screenshot shows the 'Security Settings' screen. At the top, 'WPA' is selected among 'Open', 'WEP', 'WPA', 'WPA2', and 'MixMode'. Below, 'Group Key Rekeying: Per' is set to '86400' seconds. The option 'Use WPA or WPA2 with Pre-shared Key' is selected. The 'Pre-shared Key' field contains '1234567890' (8~32 Characters). Other options include 'Use WPA or WPA2 with 802.1x', 'RADIUS Server IP/Domain', 'Authentication Port' (1812), and 'Shared Secret Key'.</p>		
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.

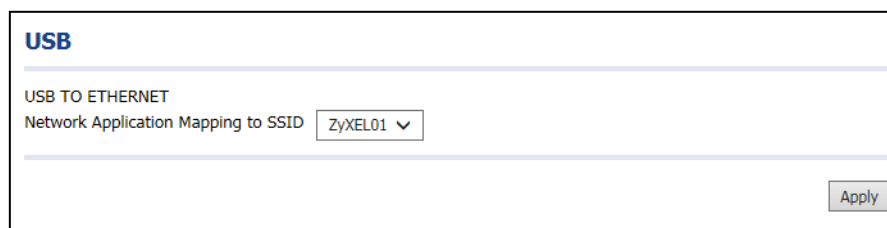


Figure 3-2-52 USB Setting Screen

### 3-2-5-11 Registration

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

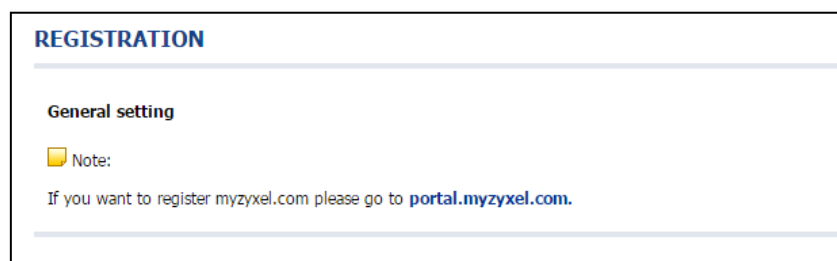


Figure 3-2-53 Registration Screen

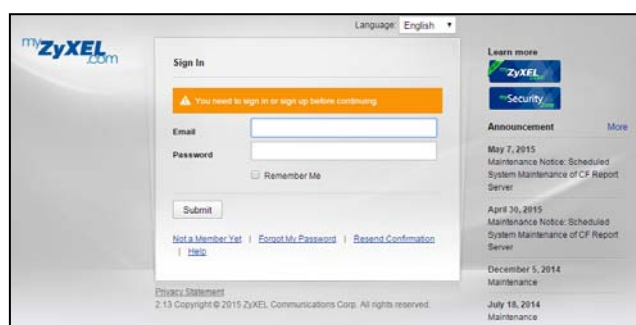


Figure 3-2-54 myzyxel.com Registration Website

## 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

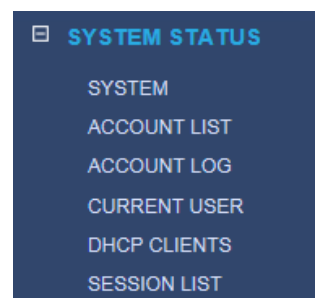


Figure 3-3-1 System Status Item Screen

### 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

<b>Service</b>			
Internet Connection	Fail	Wireless Service	OK
<b>System</b>			
System Name			
Firmware Version	1.00(AAZP.0)002	Wireless Version	2.7.1.6
Bootrom Version	1.00.01.001	Controller Firmware Version	1.00.03
WAN MAC Address	00:90:0E:03:F2:BD	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	000:02H:31M:27S
<b>LAN IP</b>			
IP Address	172.16.0.1	Subnet Mask	255.255.255.0
<b>WAN IP</b>			
WAN Port Mode	DHCP Client (Disconnect)	IP Address	
Subnet Mask		Gateway IP address	
<b>DNS</b>			
Primary DNS Server		Secondary DNS Server	
<b>DHCP</b>			
DHCP Status	Server		
Start IP Address	172.16.0.2	End IP Address	172.16.0.254
Lease Time	300		
<b>Wireless</b>			
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
<b>E-Mail Redirection</b>			
<b>Network Traffic</b>			
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
<b>Network Traffic</b>			
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
<b>Location Information</b>			
Location			
Address			
City		State	
Zip		Country	
Contact Name		Contact Telephone	
Contact FAX		Contact Email	
<b>SSL Certificate</b>			
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 created, login time, time/volume left expiration time and status.

ACCOUNT LIST								
List existing account's information.								Refresh
S/N	Status	Username	Usage Time/Volume	Time Created	Login Time	Time/Volume Left	Expiration Time	Delete
000001	Un-used	7wtm	00:30:00	2015-05-04 23:19:14		00:30:00	2015-05-05 23:19:14	<input type="checkbox"/>
000002	Un-used	4pii	00:30:00	2015-05-04 23:19:32		00:30:00	2015-05-05 23:19:32	<input type="checkbox"/>
000003	Un-used	0hzn	00:30:00	2015-05-04 23:19:50		00:30:00	2015-05-05 23:19:50	<input type="checkbox"/>

GO  PAGE First Previous Next End Delete Delete All

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.

ACCOUNT LOG							
List log of accounts.					Export	Clear Log	Refresh
S/N	Username	Time Created	Login Time	Usage Time/Volume	Charge	Payment Info	Status
000001	7wtm	2015-05-04 23:19:14		00:30:00	1.00	Cash	Un-used
000002	4pii	2015-05-04 23:19:32		00:30:00	1.00	Cash	Un-used
000003	0hzz	2015-05-04 23:19:50		00:30:00	1.00	Cash	Un-used

GO 1 PAGE First Previous Next End

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.

CURRENT USER							
Paid User: 1		Free Trial User: 0		Refresh			
No.	Interface	Type	Username	IP Address	MAC Address	Session	Delete
1	Ethernet	Dynamic	59kk	172.16.0.2	30:F9:ED:30:6C:B3	7	<input type="checkbox"/>

GO 1 PAGE First Previous Next End Delete Delete All

Figure 3-3-5 Current User List

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

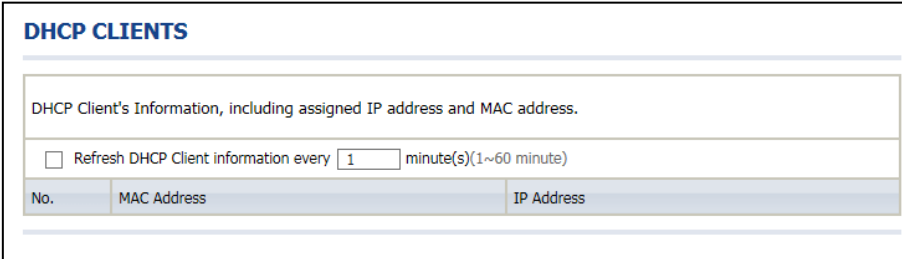
Click the column button (Interface, Type, Username, IP Address, ..., etc.) to sort the column in ascending/descending order.

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.



**DHCP CLIENTS**

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

☐ Refresh DHCP Client information every  minute(s)(1~60 minute)

No.	MAC Address	IP Address
-----	-------------	------------

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.



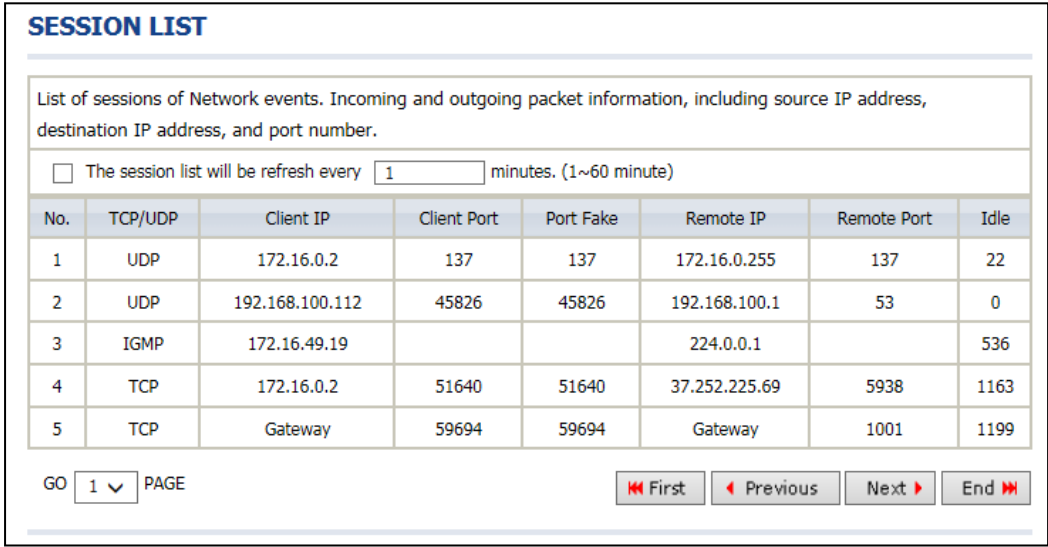


Figure 3-3-7 Session List Screen

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

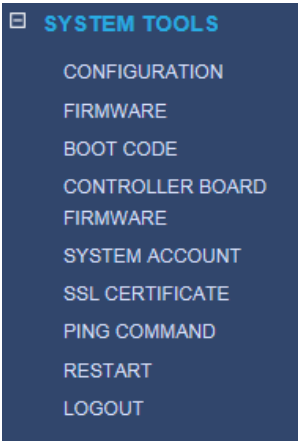


Figure 3-4-1 System Tools Item

3-4-1 Configuration

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

**CONFIGURATION**

Backup the system configuration from this device to your PC or restore your stored system configuration to this device.


	Click Backup to backup the system configuration from this device to your computer or to the remote TFTP server. Remote TFTP Server IP Address <input type="text"/> File Name <input type="text"/> <div>Apply</div>
Restore	To restore your stored system configuration to this device. Local PC File Path: <input type="text"/> <div>Browse...</div> Remote TFTP Server IP Address: <input type="text"/> File Name: <input type="text"/> <div>Apply</div>
Reset	Reset the system back to factory defaults <input type="checkbox"/> Keep subscriber profile <div>Apply</div>

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

**FIRMWARE**

Manual Firmware Upgrade    Scheduled Firmware Upgrade

To upgrade the firmware, click **Browse** to locate the firmware file or use remote TFTP server and click **Apply**.

Local PC File Path :

Browse... Apply

Remote TFTP Server IP Address :

File Name :  Apply

Figure 3-4-3 Manual Firmware Upgrade Setting Screen

Item	Default	Description
<b>This allow administrator to upgrade the firmware via HTTP.</b>		
Local PC File Path	Empty	Enter the file name and location in the Local PC File Path field.
<b>This allows administrator use TFTP server to upgrade firmware.</b>		
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
<div><div>Synchronization Check File Sample Code</div><div>Version= v1.00(AAZP.0)b02 Filename=UAG50_1.00(AAZP.0)b02.bin</div><div>Close</div></div> <p>Figure 3-4-5 Synchronization File Sample Code</p>		
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

BOOT CODE

To upgrade the Boot Code, click **Browse** to locate the file and click **Apply**.

Local PC File Path :

Figure 3-4-6 Boot Code Upgrade Setting Screen

3-4-4 Controller Board Firmware

CONTROLLER BOARD FIRMWARE

To upgrade the Controller Board Firmware, click **Select** to locate the file and click **Apply**.

Local PC File Path :

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.

**SYSTEM ACCOUNT**

**Administrator Account**  
Administrator can fully control this system and modify all settings.

Username :

Password :

Confirm :

Idle Time Out :  Min(s) (1~1440)

**Web-based Accounting Manager**  
Web-based accounting manager can operate the proprietary web-based accounting system.

Username :

Password :

Confirm :

Idle Time Out :  Min(s) (1~1440)

**Supervisor Account**  
Supervisor can only view system status and change password.

Username :

Password :

Confirm :

**Super Subscriber Account**  
Super subscriber is a built-in subscriber account for system test or premium usage.

Super Subscriber :

Idle Time Out :  Min(s) (1~1440)

Username :

Password :

Confirm :

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.

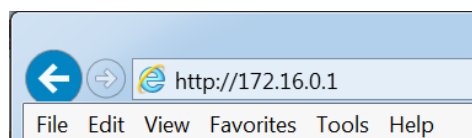


Figure 3-4-9 Web Browser Location Field (Factory Default)

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.

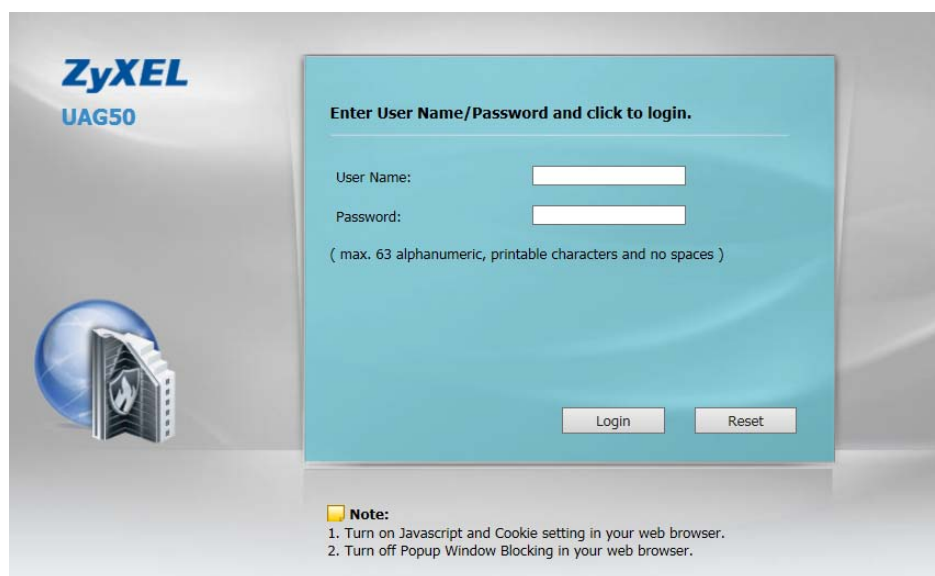


Figure 3-4-10 Administrator Account Login Screen (First Time)

### **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.

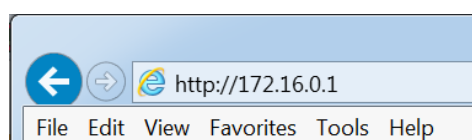


Figure 3-4-11 Web Browser Location Field (Factory Default)

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

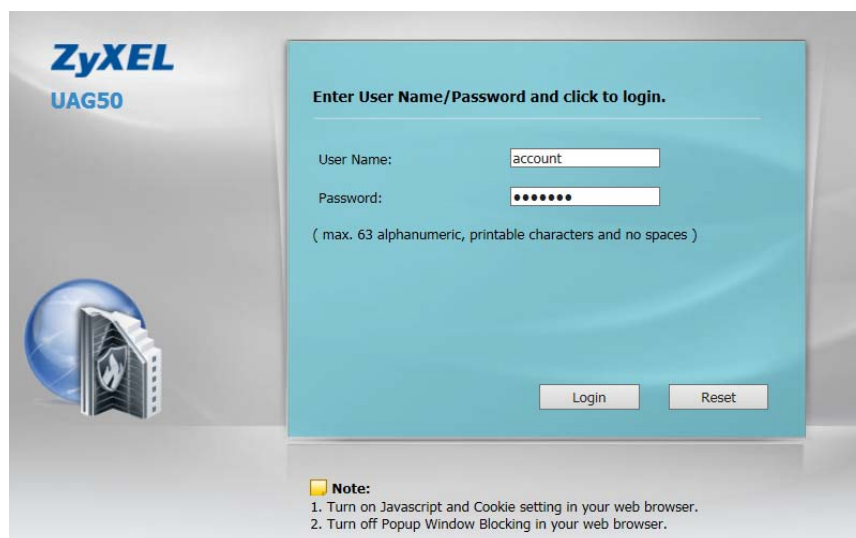


Figure 3-4-12 Web-Based Accounting Manager Login Screen

### **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.

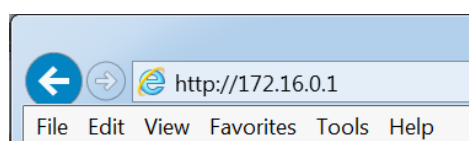
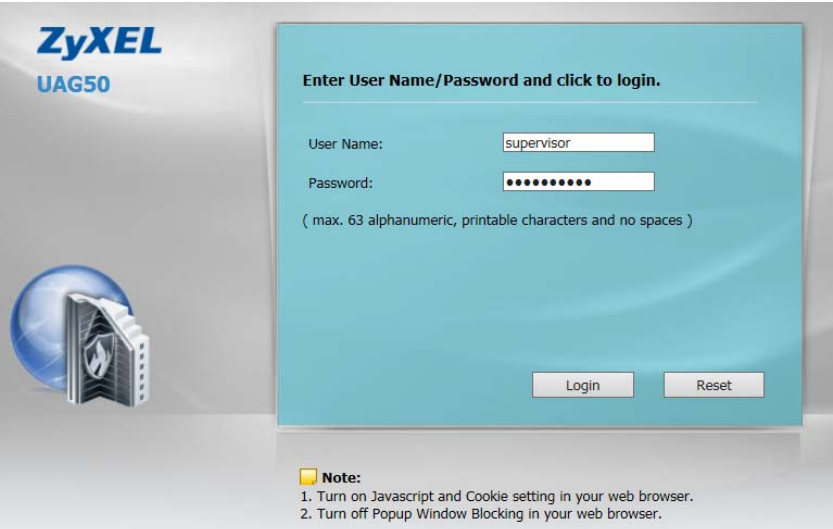


Figure 3-4-13 Web Browser Location Field (Factory Default)

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






The image shows the ZyXEL UAG50 Supervisor Account Login Screen. On the left, there is a logo for ZyXEL UAG50 and a graphic of a blue sphere with a white building-like structure. The main area is a light blue box with the text "Enter User Name/Password and click to login." Below this, there are two input fields: "User Name:" with the text "supervisor" and "Password:" with a masked password "••••••••". Below the password field, there is a note: "( max. 63 alphanumeric, printable characters and no spaces )". At the bottom of the box, there are two buttons: "Login" and "Reset". Below the box, there is a "Note:" section with two numbered instructions: "1. Turn on Javascript and Cookie setting in your web browser." and "2. Turn off Popup Window Blocking in your web browser."

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.



The image shows the Subscriber Login Page. It has a dark blue header with the text "Welcome". Below the header, there is a section titled "Unified Access Gateway". Inside this section, there are two input fields: "Username:" and "Password:". Below the password field, there are two buttons: "Enter" and "Cancel". At the bottom of the page, there is a footer with the text "Copyright (c) 2014-2015 All Rights Reserved."

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.

#### SSL CERTIFICATE

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

**Password for Private Key:**

---

**Certificate File:**

---

**Private Key File:**

---

**InterMediate Certificate File**   (Optional)

---

If your domain name on SSL Certificate file show the Asterisk "\*" characters, please enter the new domain name as

---

Apply

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.

PING COMMAND

This feature allows you to execute ping command.

Ping

Clear

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.

RESTART

Do you want to restart the system?

Apply

Figure 3-4-18 Restart Screen

3-4-9 Logout

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

LOGOUT

Do you want to log out from the web configurator?

Apply

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.

Step 1

The screenshot shows the 'CUSTOMIZATION' screen with the 'Account Printout' tab selected. The 'QR Code' checkbox is checked and highlighted with a red box. The 'Apply' button is also highlighted with a red box. The 'Print out Time' section shows the format 'yyyy/mm/dd' and the time '14:00:00'. The 'Expiration Time' section shows the format 'yyyy/mm/dd' and the time '14:00:00'. The 'Ending' section shows the text 'Thank you!'.

Step 2: Enable QR Code

Step 3: Click Apply

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.

**PASS THROUGH**
Step 1

Pass Through: Enable
Step 2: Choose Enable

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

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

☒ URL or Website: www.apple.com
Step 3: Add "www.apple.com"

☐ Start / End IP Address  ~

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

☐ Start / End IP Address  ~

☐ IP Address:  Subnet Mask:

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

Description  (max 20 characters)

Add to list

Step 4: Click Add to List

Pass Through List

Delete All

Apply

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.

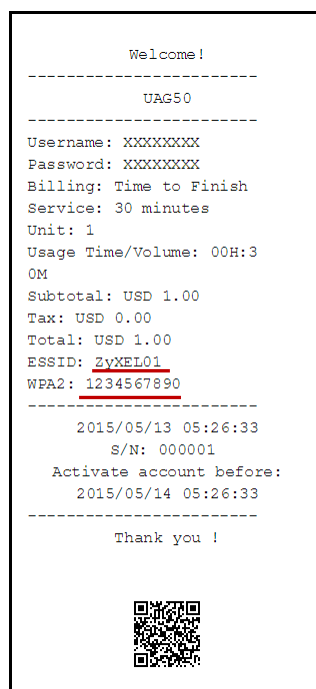


Figure 4-3-1 QR Coding Ticket

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

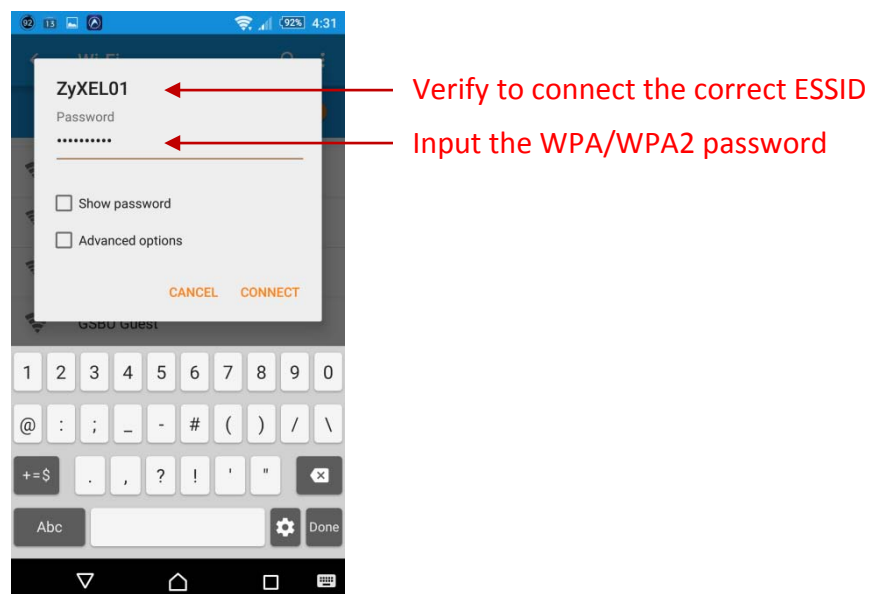


Figure 4-3-2 Password Input Screen

3. Open up QR code APP and Scan.

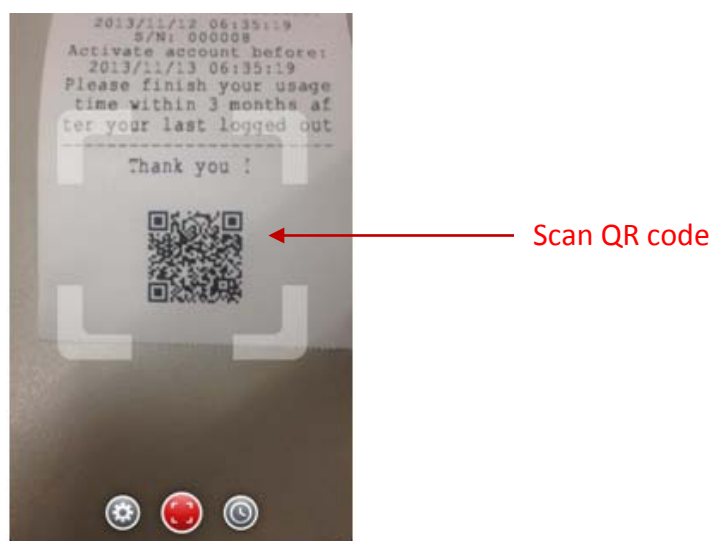


Figure 4-3-3 Scan 1 Screen

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

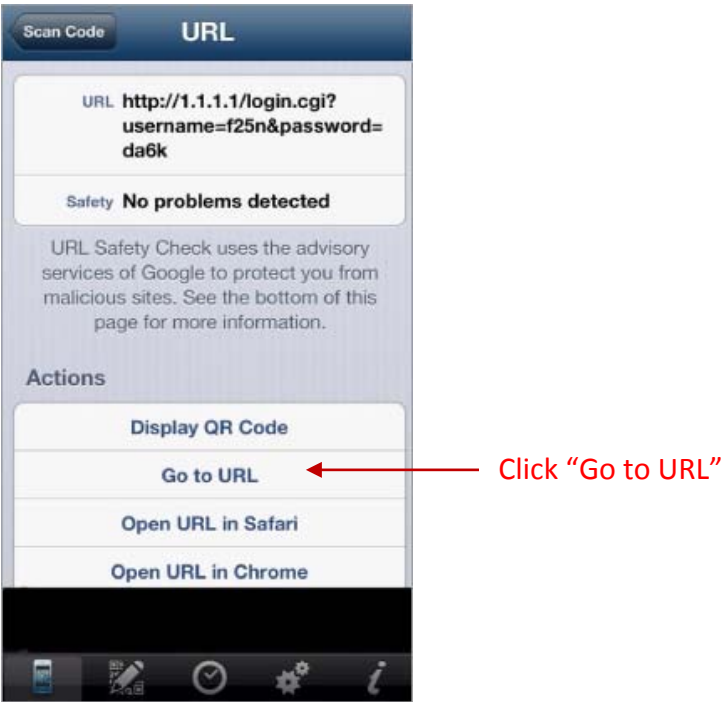


Figure 4-3-4 Scan 2 Screen

5. Client can use the Internet now.

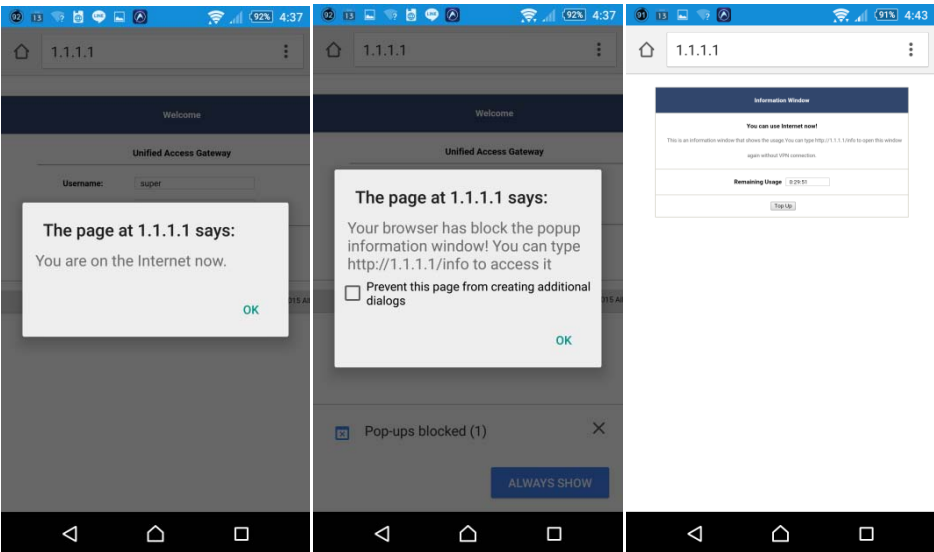


Figure 4-3-5 Scan Finish Screen



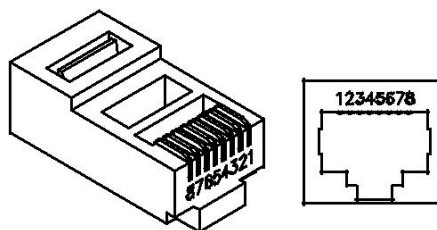
## Appendix A Signal Connection Arrangements

### 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 équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.
- Le présent émetteur radio de modèle s'il fait partie du matériel de catégorie I) 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 съществени 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 zařzení je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/EC.

Dansk (Danish)	Undertegnede ZyXEL erklærer herved, at følgende udstyr overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Deutsch (German)	Hiermit erkläre 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 ΖΥΧΕΛ ΔΗΛΩΝΕΙ ΟΤΙ εξοπλισμός ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
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/EE Direktivos 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-htigijiet essenzjali u ma provvedimenti oħrajn rilevanti 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 cerințele esențiale și 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 relevantnim 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 paesi 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 Ausnahme 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 is 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 frekvenču joslas izmantošanai ārpus telpām nepieciešama atļauja no Elektronisko sakaru direkcijas. Vairāk informācijas: <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 è organizzata e gestita dal produttore. L'utente che vorrà disfarsi della presente apparecchiatura dovrà 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 è 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)
<p>Екологична продуктова декларация</p> <p>RoHS Директива 2011/65/EC WEEE Директива 2012/19/EC PPW Директива 94/62/EC REACH Регламент (ЕС) № 1907/2006 ErP Директива 2009/125/EC</p> <p>Име/ titlu : Richard Hsu / Quality Management Подпис : <i>Richard Hsu</i> Дата (dd/mm/yyyy): 01/10/2014</p> <p> </p>	<p>Environmentální prohlášení o produktu</p> <p>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</p> <p>Jméno/ titul : Richard Hsu / Quality Management Podpis : <i>Richard Hsu</i> Datum (dd/mm/yyyy): 01/10/2014</p> <p> </p>	<p>Miljøvederklæring</p> <p>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</p> <p>Navn/ titel : Richard Hsu / Quality Management Underskrift : <i>Richard Hsu</i> Dato (dd/mm/åååå): 01/10/2014</p> <p> </p>	<p>Produkt-Umweltdeklaration</p> <p>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</p> <p>Name/ titel : Richard Hsu / Quality Management Unterschrift : <i>Richard Hsu</i> Datum (gg/mm/jj): 2014/10/01</p> <p> </p>
<p>Eesti keel (Estonian)</p> <p>Toote keskkonnadeklaratsioon</p> <p>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</p> <p>Nimi/ pealkiri : Richard Hsu / Quality Management Alkiri : <i>Richard Hsu</i> Kuupäev (pp/kk/aaaa): 01/10/2014</p> <p> </p>	<p>English</p> <p>Environmental product declaration</p> <p>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</p> <p>Name/ title : Richard Hsu / Quality Management Signature : <i>Richard Hsu</i> Date (dd/mm/yyyy): 01/10/2014</p> <p> </p>	<p>Español (Spanish)</p> <p>Declaraciones Ambientales de Producto</p> <p>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</p> <p>Nombre/ título : Richard Hsu / Quality Management Firma : <i>Richard Hsu</i> Fecha (aaaa/mm/dd): 2014/10/01</p> <p> </p>	<p>Français (French)</p> <p>Profil environnemental de produit</p> <p>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</p> <p>Nom/ titre : Richard Hsu / Quality Management Signature : <i>Richard Hsu</i> Date (aaaa/mm/jj): 2014/10/01</p> <p> </p>
<p>Hrvatski (Croatian)</p> <p>Deklaraciju o zbrinjavanju proizvoda</p> <p>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</p> <p>Ime/ nadim : Richard Hsu / Quality Management Podpis : <i>Richard Hsu</i> Datum (dd/mm/yyyy): 01/10/2014</p> <p> </p>	<p>Italiano (Italian)</p> <p>Dichiarazione ambientale di prodotto</p> <p>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</p> <p>Nome/ titolo : Richard Hsu / Quality Management Firma : <i>Richard Hsu</i> Data (aaaa/mm/gg): 2014/10/01</p> <p> </p>	<p>Latviešu valoda (Latvian)</p> <p>Produkta vides ietekmējuma deklarācija</p> <p>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/CE</p> <p>Nosaukums/ tituls : Richard Hsu / Quality Management Paraksts : <i>Richard Hsu</i> Datums (dd/mm/gggg): 01/10/2014</p> <p> </p>	<p>Lietuvių kalba (Lithuanian)</p> <p>Aplinkosaugingų gaminių deklaracija</p> <p>RoHS Direktyva 2011/65/ES WEEE Direktyva 2012/19/ES PPW Direktyva 94/62/EB REACH REGLAMENTAS (ES) Nr. 1907/2006 ErP Direktyva 2009/125/EB</p> <p>Vardas/ statusas : Richard Hsu / Quality Management Parašas : <i>Richard Hsu</i> Data (dd/mm/mmm): 01/10/2014</p> <p> </p>
<p>Magyar (Hungarian)</p> <p>Környezetvédelmi terméknyilatkozat</p> <p>RoHS 2011/65/EU irányelve WEEE 2012/19/EU irányelve PPW 94/62/EK irányelve REACH 1907/2006/EK Rendelet ErP 2009/125/EK irányelve</p> <p>Név/ cím : Richard Hsu / Quality Management Aláírás : <i>Richard Hsu</i> Dátum (éééé/hh/vv): 2014/10/01</p> <p> </p>	<p>Malti (Maltese)</p> <p>Dikjarazzjoni Ambjentali dwar il-Prodott</p> <p>RoHS Direttiva 2011/65/UE WEEE Direttiva 2012/19/UE PPW Direttiva 94/62/CE REACH REGOLAMENTO (KE) NRU 1907/2006 ErP Direttiva 2009/125/KE</p> <p>Isem/ itolu : Richard Hsu / Quality Management Firma : <i>Richard Hsu</i> Data (aaaa/vv/jj): 2014/10/01</p> <p> </p>	<p>Nederlands (Dutch)</p> <p>Milieuproductverklaring</p> <p>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</p> <p>Naam/ titel : Richard Hsu / Quality Management Handtekening : <i>Richard Hsu</i> Datum (dd/mm/jaar): 01/10/2014</p> <p> </p>	<p>Polski (Polish)</p> <p>Deklarację środowiskową produktu</p> <p>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</p> <p>Nazwisko/ tytuł : Richard Hsu / Quality Management Podpis : <i>Richard Hsu</i> Data (rrrr/mm/dd): 2014/10/01</p> <p> </p>
<p>Português (Portuguese)</p> <p>Declaração ambiental do produto</p> <p>RoHS Diretiva 2011/65/UE WEEE Diretiva 2012/19/UE PPW Diretiva 94/62/CE REACH Regulamento (CE) n.º 1907/2006 ErP Diretiva 2009/125/CE</p> <p>Nome/ título : Richard Hsu / Quality Management Assinatura : <i>Richard Hsu</i> Data (dd/mm/aaaa): 01/10/2014</p> <p> </p>	<p>Română (Romanian)</p> <p>Declarație de mediu privind produsele</p> <p>RoHS Directivă 2011/65/UE WEEE Directivă 2012/19/UE PPW Directivă 94/62/CE REACH REGULAMENTUL (CE) NR. 1907/2006 ErP Directivă 2009/125/CE</p> <p>Numele/ titlu : Richard Hsu / Quality Management Semnătură : <i>Richard Hsu</i> Data (dd/mm/aaaa): 01/10/2014</p> <p> </p>	<p>Slovenčina (Slovak)</p> <p>Vyhlasenie o environmentálnom výrobku</p> <p>RoHS Smernica 2011/65/EU WEEE Smernica 2012/19/EU PPW Smernica 94/62/ES REACH Nariadenie (ES) č. 1907/2006 ErP Smernica 2009/125/ES</p> <p>Meno/ titul : Richard Hsu / Quality Management Podpis : <i>Richard Hsu</i> Datum (dd/mm/yyyy): 01/10/2014</p> <p> </p>	<p>Slovenščina (Slovene)</p> <p>Okoljsko deklaracijo izdelka</p> <p>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</p> <p>Ime/ naziv : Richard Hsu / Quality Management Podpis : <i>Richard Hsu</i> Datum (dd/mm/llll): 01/10/2014</p> <p> </p>
<p>Suomi (Finnish)</p> <p>Standardiin perustuva ympäristötietusteloste</p> <p>RoHS Direktiiv 2011/65/EU WEEE Direktiiv 2012/19/EU PPW Direktiiv 94/62/EY REACH ASETUS (EY) N:o 1907/2006 ErP Direktiiv 2009/125/EY</p> <p>Nimi/ otsikko : Richard Hsu / Quality Management Allekirjoitus : <i>Richard Hsu</i> Päivämäärä (pp/kk/vvvv): 01/10/2014</p> <p> </p>	<p>Svenska (Swedish)</p> <p>Miljöproduktdeklaration</p> <p>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</p> <p>Namn/ titel : Richard Hsu / Quality Management Namnteckning : <i>Richard Hsu</i> Datum (dd/mm/åååå): 01/10/2014</p> <p> </p>	<p>Ελληνικά (Greek)</p> <p>Περιβαλλοντική δήλωση προϊόντος</p> <p>RoHS Οδηγία 2011/65/ΕΥ WEEE Οδηγία 2012/19/ΕΕ PPW Οδηγία 94/62/ΕΚ REACH Έ. αναπόσπαστο (ΕΚ) αριθ. 1907/2006 ErP Οδηγία 2009/125/ΕΚ</p> <p>Όνομα/ τίτλος : Richard Hsu / Quality Management Υπογραφή : <i>Richard Hsu</i> Ημερομηνία (pp/mm/aaaa): 01/10/2014</p> <p> </p>	<p>Norsk (Norwegian)</p> <p>Miljødeklarasjon</p> <p>RoHS Direktiv 2011/65/EU WEEE Direktiv 2012/19/EU PPW Direktiv 94/62/ES REACH Forordning (EF) nr. 1907/2006 ErP Direktiv 2009/125/EF</p> <p>Navn/ tittel : Richard Hsu / Quality Management Signatur : <i>Richard Hsu</i> Dato (dd/mm/åååå) : 01/10/2014</p> <p> </p>



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](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](http://www.zyxel.com).

## Open Source Licenses

This product contains in part some free software distributed under GPL license terms and/or GPL like licenses. Open source licenses are provided with the firmware package. You can download the latest firmware at [www.zyxel.com](http://www.zyxel.com). If you cannot find it there, contact your vendor or ZyXEL Technical Support at [support@zyxel.com.tw](mailto:support@zyxel.com.tw).

To obtain the source code covered under those Licenses, please contact your vendor or ZyXEL Technical Support at [support@zyxel.com.tw](mailto:support@zyxel.com.tw).