WG-500P

Hotspot in a Printer

User Manual



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1 Introduction

The WG-500P is a compact intelligent gateway. It provides Plug' Play Internet access, advanced security and network management.

The WG-500P 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 WG-500P 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 WG-500P 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 WG-500P 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 the account and the password.

1-1 Package Contents

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

WG-500P

- One WG-500P
- One Thermal papers (50 meter)
- One Power Adapter
- One Ethernet Cable (1.5 meter)
- One Quick Installation Guide
- Two Detachable Antenna
- One Product CD

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

1-2 Features

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

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

1-3 Precautions

- Never remove or open the cover. You may suffer serious injury if you touch these parts.
- Never install the system in the wet locations.
- Use only the original fitting AC power adapter otherwise there is a danger of severe electrical shock.
- Avoid exposing the WG-500P to direct sunlight or another heat source.
- Choose a well-ventilated area to position your WG-500P.

1-4 Outlook



Figure 1-4-1 WG-500P



Figure 1-4-2 Front Panel



Figure 1-4-3 Rear Panel

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

WLAN LED:

Off: The wireless is not ready.

Green light: The WG-500P has established a valid wireless connection. Green Blinking: The wireless connection is active.

• UPLINK LED:

Off: A port has not established any network connection.

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

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

- **Reset Button:** The WG-500P 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 WG-500P.

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.





3



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
- ANSI/IEEE 802.3 NWay auto-negotiation
- Wi-Fi Compatible

Connectors

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

Encryption

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

External Antenna Type

• Dual detachable diversity antenna with reverse SMA

LED Indicators

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

Power Requirement

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

Environment Conditions

• Operating Temperature: 0 to 50°C

- Storage Temperature: -10 to 60°C
- Operating Humidity: 20~80% non-condensing
- Storage Humidity: 20% to 90% non-condensing

Certifications

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

Dimension

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

Printer Tray

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

Paper Roll and Printing

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

1-5-2 Software Specifications

Networking

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

- Supports 30 Simultaneous Users
- IP Plug and Play (iPnP)
- HTTP Proxy Support
- WEP64/128bit
- WPA-PSK (TKIP)
- WPA2-PSK(AES)
- WPA/WPA2 Mix mode
- SMTP Server Redirection
- DHCP Server(RFC 2131)
- DHCP Relay(RFC 1542)
- Static IP WAN Client
- DHCP WAN Client
- PPPoE WAN Client(RFC 2516)
- PPTP WAN Client
- NAT(RFC 1631)
- IP Routing
- NTP (Network Time Protocol) Support
- Local Account: 256
- Max Session Number: up to 16384

Marketing Cooperation

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

User Accounting and Authentication

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

Security and Firewall

- Layer 2 Isolation Security
- SSL User Login page/ Configuration Page

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

Management

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

2 Installation

2-1 Connecting the Antennas

The WG-500P provides two antenna connectors on the rear of the unit.

2-2 Installation Requirements

Before installing the WG-500P, make sure your network meets the following requirements.

System Requirements

The WG-500P requires one of the following types of software:

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

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

ISP Requirements

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

Dynamic IP

• Dynamic IP Setting

Fixed IP

- Your fixed IP address for the WG-500P
- Your subnet mask for the WG-500P
- Your default gateway IP address
- Your DNS IP address

<u>PPPoE</u>

• Your user name and password from your ISP

PPTP

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

The Static IP settings for the PC

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

Note:

- 1. The gateway's default IP address setting is "10.59.1.1".
- 2. The gateway's default subnet mask setting is "255.255.255.0".

The Dynamic IP settings for the PC

We recommend that you leave your IP settings as automatically assigned. By default, the WG-500P is a DHCP server, and it will give your PC the necessary IP settings.

2-3 Getting Start

WG-500P Connection

- 1. Connect the DC power adapter to the WG-500P and plug it into a power socket.
- 2. Connect WG-500P and xDSL modem with an Ethernet Cable.





Configure TCP/IP of your computer

For Windows user,

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

+ Local Area Connection Properties	Internet Protocol (TCP/IP) Properties		
General Advanced	General Alternate Configuration		
Connect using: Broadcom NetXtreme Gigabit Etherne	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.		
This connection uses the following items:	Obtain an IP address automatically		
🗹 🐨 Network Monitor Driver	O Use the following IP address:		
Ekahau NDIS Usermode I/O Protocol	IP address: A second		
Internet Protocol (TCP/IP) ✓	Subnet mask:		
	Default gateway:		
Description	Obtain DNS server address automatically		
Transmission Control Protocol/Internet Protocol. The default	Use the following DNS server addresses:		
wide area network protocol that provides communication across diverse interconnected networks.	Preferred DNS server:		
✓ Show icon in notification area when connected ✓ Notify me when this connection has limited or no connectivity	Alternate DNS server:		
	Advanced		
OK Cancel	OK Cancel		

Figure 2-3-2 TCP/IP Setting

3 Configuring the WG-500P

3-1 Setting Wizard

Step 1: The ESSID's name by default is related to the last 4 numbers of Wlan MAC. If the Wlan MAC is "00-90-0E-00-12-34", the default is "Wireless-1234_1(2,3,4)". Please serach ESSID "Wireless-1234_1" and connect it.

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

2

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

Step 3: The WG-500P configuration tools menu will appear. In the Username and Password field, type the factory default user name **admin** and password **admin** and click **Login**. If you are first time setting the system, the wizard setup screen will appear. You will be guided, step-by-step, through a basic setup procedure.

	WG-500P	
Username :		
Password :		
	Version 1.00.01a	
Login	Reset	

Figure 3-1-2 Configuration Tools Menu

HANDLINK	WIZARD SETUP ADVANCED SETUP	SYSTEM STATUS	SYSTEM TOOLS
1 INTERNET 2 WIRELESS 3 SYSTEM	Internet Connection Choose from the following options: DHCP Client Your ISP will configure IP settings for you.	Next >	
		MGAL	

Figure 3-1-3 Wizard Setup Screen

System Quick View

System			refresh (}
System/Host Name		Firmware Version	1.07.06
Location Name		Domain Name	
System Time	2012/7/2 16:08:58	System Up Time	00D:00H:01M:11S
WAN MAC address	00:90:0E:00:60:C1	WLAN MAC address	00:90:0E:00:60:C0

Network

WAN Status	LAN IP Address	WAN Type	DHCP Client
WAN IP Address	None	LAN IP Address	10.59.1.1
WAN Subnet Mask	None	LAN Subnet Mask	255.255.255.0
Default Gateway	None	DNS	

Wireless

Wireless Service	OK	ESSID 1	Wireless-1234_1
Wireless Channel	10	ESSID 2	Wireless-1234_2
		ESSID 3	Wireless-1234_3
		ESSID 4	Wireless-1234_4

Traffic

WAN	TxData:10 RxData:0 TxError:0 RxError:0
LAN	TxData:83 RxData:77 TxError:0 RxError:0
ESSID 1	TxData:2 RxData:0 TxError:0 RxError:0
ESSID 2	TxData:2 RxData:0 TxError:0 RxError:0
ESSID 3	TxData:2 RxData:0 TxError:0 RxError:0
ESSID 4	TxData:2 RxData:0 TxError:0 RxError:0

refresh€



Note:

- 1. This Web agent is best viewed with IE 5.0 or Netscape 6.0 and above browsers.
- 2. Username and Password can consist of up to 20 alphanumeric characters and are case sensitive.
- 3. If for some reason your password is lost or you cannot gain access to the

WG-500P Configuration Program, please press the reset button to load the device to manufacturer defaults.

- 4. If the WG-500P doesn't send packet in 5 minutes (default), the WG-500P wills logout automatically.
- 5. Proxy needs to set disable first when administrator accesses admin UI.

Step 4: Internet Connection Setting

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

Internet Connection	
Choose from the following options:	
DHCP Client	
Your ISP will configure IP settings for you.	
	Next>

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.

Internet Connection		
Choose from the following options:		
DHCP Client	~	
Your ISP will configure IP settings for you.		
		Next>

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 one from the following selecti	ons:		
Static IP Setting			
Enter static IP information from you	ır 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>	

ltem	Default	Description
IP Address	0.0.0.0	Enter the IP address provided by your ISP.
Subnet Mask	0.0.0.0	Enter the subnet mask for the IP address.
Gateway IP Address	0.0.0.0	Enter the Gateway IP Address provided by your ISP.
Primary DNS Server	Empty	Enter the primary DNS server IP address for the xDSL/Cable connection
		(provided by your ISP).
Secondary DNS Server	Empty	Enter the secondary DNS server IP address for the xDSL/Cable connection
		(provided by your ISP). 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 selection PPPoE (Mostly for ADSL mod Enter your username and passw	em users)		
Username:			
Password:			
PPP MTU Setting:	1492		
TCP MSS Setting:	1452		
Service Name:			
Onnect on Demand	Max Idle Time: 10 Min.		
Keep alive	Redial Period: 30 Sec.		
5-	Next>		

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

ltem	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

WG-500P Hotspot in a Printer

		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 Deman	d and Max Idle 1	īme
Connect on	Enable	You can configure your WG-500P to cut your connection with your ISP after a
Demand		specified period of time (Max Idle Time). If you have been disconnected due
Max Idle Time	10 Minutes	to inactivity, Connect on Demand enables your WG-500P to automatically
		re-establish your connection as soon as you attempt to access the Internet
		again. If you wish to activate Connect on Demand, click the radio button. If
		you want your Internet connection to remain, click the radio button of keep
		alive. The Max Idle Time maximum value is 65535 minutes.
Keep alive and Red	ial Period	
Keep alive	Disable	This option keeps your PPPoE enabled Internet access connected
Redial Period	30 Seconds	indefinitely, even when it sits idle. The Redial Period maximum value is 65535
		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.

Internet Connection	Internet Connection			
Choose from the following selections:				
PPTP (Typically for Europe ADSL modem users) 💌				
Enter your username, password, and PPTP settings from your ISP:				
My IP Address:				
My Subnet Mask:				
Gateway IP address:				
PPTP Server IP Address:				
Username:				
Password:				
PPP MTU Setting:	1460			
TCP MSS Setting:	1400			
Connection ID/Name:				
Onnect on Demand	Max Idle Time: 10 Min.			
O Keep alive	Redial Period: 30 Sec.			
	Next>			

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	d Max Idle Tim	ne
Connect on Demand	Enable	You can configure your WG-500P to cut your connection with your ISP after
Max Idle Time	10	a specified period of time (Max Idle
	Minutes	Time). If you have been disconnected due to inactivity, Connect on Demand

		enables your WG-500P to automatically re-establish your connection as
		soon as you attempt to access the Internet again. If you wish to activate
		Connect on Demand, click the radio button. If you want your Internet
		connection to remain, click the radio button of keep alive. The Max Idle Time
		maximum value is 65535 minutes.
Keep alive and Redial P	eriod	
Keep alive	Disable	This option keeps your PPPoE enabled Internet access connected
Redial Period	30	indefinitely, even when it sits idle. The Redial Period maximum value is
	Seconds	65535 seconds.

Step 5: Wireless Setting

Wireless Setting: This page allows you to Channel ID and 802.11 Mode for wireless connection.

	Wireless Settings	
1 INTERNET 2 WIRELESS 3 SYSTEM	Channel :	6 🖌 (Leave default if you don't know how to choose)
	802.11 Mode:	802.11n + 802.11g + 802.11b 🛩
	< Back	Next>

Figure 3-1-10 Wireless Setting Screen

ltem	Default	Description
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: System Setting

System Setting: WG-500P allows to change the administrator's Username and Password, and an NTP server setting.

	admin				
assword:	Confirm:				
ime Zone: 🛛	GMT	*			
Manual S	etting				
			8		
ate: 2011 🔊	/ 1	v / 1 v	(Year/Mo	nth/Day)	
ime: 00 🗸	00 🗸	: 00 🗸 (H	lour : Min	ute : Secc	ond)
NTP Settin	ng D	ate: 2004/7/	2 Time: 1	6:06:02	Update Now
Server IP/		time nist o	1017		
Domain Nar	ne 1:	Larrie	Jov		
Domain Nar Server IP/ Domain Nar	me 1: me 2:	www.nist.	30v 30v		
Domain Nar Server IP/ Domain Nar Update Tim	me 1: me 2: e	www.nist.	gov ho	urs	
Domain Nar Server IP/ Domain Nar Update Tim	me 1: me 2: e	24 Start Da	gov ho	urs	
Domain Nar Server IP/ Domain Nar Update Tim Dayligh Saving Tim	ne 1: ne 2: e t	24 Start Da End Dat	gov ho ite: 4 ie: 10	urs Montr Montr	n/1 ♥ Day n/31 ♥ Day
Domain Nar Server IP/ Domain Nar Update Tim Dayligh Saving Tim	ne 1: ne 2: e t	24 Start Da End Dat	gov ho tte: 4 te: 10	v Montr	n/ 1 v Day n/ 31 v Day

Figure 3-1-11 System Setting Screen

ltem	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	Click Manual Setting to set the system date and time.
	HH:MM:SS	
NTP Setting		Click Update button to correct the system date and time.
Secure Administrator	All	This function allows remote user to management the device. You can
IP Address		specify one or any IP addresses for remote control the system.

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

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

<u>SYSTEM</u>

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



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 Type	No Authentication Built-in Authentication User Agreement Redirect URL Link Code Standard User Agreement page Assign To ESSID 1 v	
Current User Information Backup	1 Min(s) (1 - 1440)	
SSL Login Page	 Disable Enable 	
User Idle Time Out	5 Min(s) (1 - 1440) (Notfunction on "Time to Finish" billing mode)	
		Apply

Figure 3-2-2 Authentication

Item	Default	Description
Authentication Type	No Authentication	Option: No Authentication, Built-in Authentication or
		User Agreement.
		No Authentication
		Subscriber can direct access the Internet without
		enter username and password.
		Built-in Authentication
		WG-500P 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.
		User Agreement
		Subscriber must accept the service usage agreement
		before they can access the Internet.
Redirect Login Page URL	Empty	The input format can be http://www.yahoo.com. The
		maximum character of the URL Link is 200.
Code	Copy and paste the	following HTML Code into your home page to produce

	redirect subscriber login page.
Copy and paste the follow	ring HTML Code into your home page to produce user

agreement login page.

Redirect Login Page Code
<html></html>
<body bgcolor="#FFFFF" style="font-family: Arial"></body>
<form action="http://1.1.1.1/login.cgi" method="post" name="apply"></form>
<di∨ align="center"></di∨>
<table <="" bgcolor="#F7F7F7" bordercolordark="#FFFFF" cellpadding="4" cellspacing="0" td="" width="50%"></table>
borderColorLight="#9dcda0" border="1">
Welcome

Figure 3-2-3 Preview Redirect Login Page Code

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

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

3-2-1-2 RADIUS

Disable	
Enable	
Time to Finish	
The subscriber can access the Internet on	y for a single session. After the subscriber logs in, Internet access is available until the session ends or time runs out, whichever comes first.
Accumulation	
The subscriber can access the Internet mu	Itiple times with one account. The system accumulates the time of each session until the purchased time limit is reached.
	Server IP
	Authentication Port 1812
Primary RADIUS Server	Accounting Port 1813
	Shared Secret Key:
	Server IP:
	Authentication Port 1812
Secondary RADIUS Server	Accounting Port 1813
	Shared Secret Key:
Retry times when Primary fails 🛽 🔽	
Retry Frequency 3 seconds (3~75)	
	©Enable
Accounting Service	Disable
	Interim Update Time: 5 (Minute)
	CHAP 💌
Authentication Method	
Authentication Method WISPr Smart Client	
Authentication Method MSPr Smart Client	
Authentication Method WISPr Smart Client Enable	© Directly Reply
Authentication Method WISPr Smart Client Enable Login Mode	O Directly Reply O Proxy Reply with "Redirect Login Page" URL
Authentication Method MSPr Smart Client Chable Login Mode	Orrowy Reply O Prowy Reply with "Redirect Login Page" URL O Prowy Reply with Specific URL:
Authentication Method WISPr Smart Client Enable Login Mode	O Directly Reply O Proxy Reply with "Redirect Login Page" URL O Proxy Reply with Specific URL:

Figure 3-2-4 Authentication Setting Screen

ltem	Default	Description
RADIUS Authentication	Disable	Option: No Authentication or RADIUS Server.
		Disable (No Authentication)
		Subscriber can direct access the Internet without enter username and
		password.
		Enable (RADIUS Authentication)
		WG-500P provides "RADIUS Authentication" for service provider to
		build up an Internet service with RADIUS server. If RADIUS
		Authentication is enabled, all subscribers' authentication will send to
		RADIUS Server by RADIUS protocol (RFC 2865, 2866).
Time to Finish/	Enable	Service provider provides two different accounting calculate for the
Accumulation		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 Serve	ər	
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	1	Specify the retry times when primary fail.
Primary fail		
Retry Frequency ~	3	The field default value is 3 seconds.
Seconds		
Accounting Service	Disable	Enables or disables the accounting service.
Interim Update Time	5 Minutes	Specify the interim update time.
Authentication Method	CHAP	CHAP Enter the authentication method of RADIUS server.
WISPr Smart Client		
Enable	Disable	Enables or disables WISPr Smart Client roaming function.
Login Mode	Directly Reply	Options: Directly Reply, Proxy Reply with "Redirect Login Page" URL
		and Proxy Reply with Specific URL. The login mode information for
		the IPASS GIS connection. (Provided by your ISP).

3-2-2 BILLING

3-2-2-1 Billing

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

Pre-Paid				
The subscribe	ers can access Internet with pr	e-defined usage time.		
Enable Cre	dit Card Service WG-500P			
Time to Fir The subsc met before	tish :riber can access Internet only e run out.	one time with one account. Once subscriber logir	n, the pre-defined usage time will start until run	out even the subscriber stop to access the In
Accumula The subsc	tion riber can access Internet seve	ral times with one account. The system can keep	and accumulate every single usage time until	the pre-defined usage time run out.
illing Profile				
Currency:	e 💲 💌 Number of	decimals places: 2)		
No.	Active	Name (max. 12 characters)	Account Usage Time	Charge
01	8	30 minutes	30 minutes 💌	1.00
02	8	1 hour	1 hours 💌	2.00
	8	2 hours	2 hours 💌	3.00
03				la au
03	8	3 hours	3 hours ⊻	4.00
03 04 05	0	3 hours 5 hours	5 hours V	5.00
03 04 05 06	 	3 hours 5 hours 10 hours	5 hours V 10 hours V	4.00 5.00 6.00
03 04 05 06 07		3 hours 5 hours 10 hours 1 day	3 nours v 5 nours v 10 hours v 1 days v	4.00 5.00 6.00 10.00
03 04 05 06 07 08		3 hours 5 hours 10 hours 1 day 2 days	3 nours 5 hours 10 hours 1 days 2 days	4.00 5.00 6.00 10.00 20.00
03 04 05 06 07 08 09		3 hours 5 hours 10 hours 1 day 2 days 7 days	3 nours 5 hours 10 hours 1 days 2 days 7 days	4.00 6.00 10.00 20.00 50.00

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.
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		
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.
Idle Time Out	5 Min(s)	The idle time out valid range is 1-1440. 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.
Billing Profile		
Currency	\$	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).
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.



Usage time= A+B+C

Usage time= A





Figure 3-2-7 Pre-paid Procedure Diagram

3-2-2-2 Accounting

This function allow service provider to generate the subscriber accounts.

Expiration	Delete unused accounts automatically Delete accumulation accounts after las	after 12 hours 💉 (1~30) t logged out 3 months 🗸 (1~30)	
Printout	Number of copies to print : 1 💌		
Top UP	Can be replenished by subscriber		
Three- Button F	Printer / Web-based Account Generator Panel	i i i i i i i i i i i i i i i i i i i	Preview/Operate
Button A	(01) 30 minutes , 30 minutes , \$1.00 💌		
Button B	(01) 30 minutes , 30 minutes , \$1.00 💌		
Button C	(01) 30 minutes , 30 minutes , \$1.00 💌		
Print to ® Acc	count Generator Printer 🔍 💿 Connected Printe	erQ	
Use Button A	👻 for Discount Price Plan based on "Button	Presses": Disable 💉 (only valid for Three-Button Prir	nter)
Discount Price	Plan based on "Button Presses" 🕜 Charge b	oy levels	di seconda d
Discount Price Level	Plan based on "Button Presses" 🕜 Charge b Conditions	oy levels Button Presses	Unit Price
Discount Price Level 01	Plan based on "Button Presses" $ Conditionswhen > =$	oylevels Button Presses 1	Unit Price same as base charge
Discount Price Level 01 02	Plan based on "Button Presses" < Charge I Conditions when >= when >=	Button Presses 1 0	Unit Price same as base charge
Discount Price Level 01 02 03	Conditions Conditions when >= when >= when >= when >=	Button Presses 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Unit Price same as base charge
Discount Price Level 01 02 03 04	Water Conditions Conditions when >= when >= when >= when >= when >= when >= when >=	Button Presses 1 0 0 0 0	Unit Price same as base charge
Discount Price Level 01 02 03 03 04 05	Water based on "Button Presses" < Charge I Conditions when >=	Button Presses 1 0 0 0 0 0 0 0	Unit Price Same as base charge
Discount Price Level 01 02 03 04 05 06	Water based on "Button Presses" < Charge I Conditions when >=	Button Presses 1 0 0 0 0 0 0 0 0	Unit Price Same as base charge
Discount Price Level 01 02 03 04 05 06 06 07	Water based on "Button Presses" < Charge I Conditions when >=	Button Presses 1 0 0 0 0 0 0 0 0 0 0 0 0	Unit Price same as base charge
Discount Price Level 01 02 03 04 05 06 06 07 08	Water based on "Button Presses" < Charge I Conditions when >=	Button Presses 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Unit Price same as base charge
Discount Price Level 01 02 03 04 05 06 06 07 07 08 08	Water based on "Button Presses" < Charge I Conditions when >= when >=	Sutton Presses 1 0	Unit Price same as base charge

Figure 3-2-8 Accounting Setting Screen

Item	Default	Description	
Expiration			
Un-used account will be deleted 24 hours Enter the number of hours/minutes/days. The field maximum		Enter the number of hours/minutes/days. The field maximum	
after ~hours automatically		value is 30 hours/minutes/days.	
Accumulation account will be	3 months	Enter the number and select time unit from list box. The field	
deleted after last logged in ~		maximum value is 30 month/ days/ hours.	
Printout			
Number of copies to print	1	The system allows you to print all your bills. Select one number of	
		copies by clicking in the list box.	
Can be Top Up by subscriber		Click the check box to enable the Top Up function.	



Figure 3-2-9 Account Process DiagramCan be replenished 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.	
Print to	Account Generator Printer	Select a printer to print out your account.	
Use ~ for Discount	Button A, Disable	Select one button (A~C) by clicking in the list box to assign	
Price Plan based on		the base charge and select enable to active the discount	
"Button Presses"		price plan.	

Click **Preview/Operate** button to preview and operate account generator panel.

	Account Generator Panel	
Choose from the following selections: 30 minutes 1 hour 2 hours	Choose from the following selections: 30 minutes 1 hour 2 ho	urs

Figure 3-2-10 Account Generator Panel

Welcome!
Hotspot Internet Service
Username: 4n27
Password: 7ndx
Billing: Time to Finish
Service: 1 hour
Unit: 7
Usage Time: 07:00:00
Total: USD 11.00
ESSID: Handlink_WG-500P
WPA/WPA2: 1234567890
2013/08/12 17:57:34
S/N: 000206
Please activate your acc
2013/08/13 17:57:34
Thank you very much !
1 4 6 7 7

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



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

Note: Before configuring the accounting, you have to setting the billing profile of Web-based account generator panel.

Example: If press 7 times

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

	Three-Button F	Printer / Web-based Account Generator Panel	Preview/Operate
	Button A	(01) 30 minutes , 30 minutes , \$1.00 💌	
	Button B	(02) 1 hour , 1 hours , \$2.00	
	Button C	(01) 30 minutes , 30 minutes , \$1.00 💌	
	Print to 💿 A	ccount Generator Printer 🔍 O Connected Printer 🔍	
ſ	Use Button B	v for Discount Price Plan based on "Button Presses": Enable v (only valid for Three-Button Printer)	

Figure 3-2-13 Example 1

Amount: 7 x \$2.00= \$14.00

Welcome! _____ Hotspot Internet Service Username: 4n27 Password: 7ndx Billing: Time to Finish Service: 1 hour Unit: 7 Usage Time: 07:00:00 Total: USD 11.00 ESSID: Handlink_WG-500P WPA/WPA2: 1234567890 _____ - -2013/08/12 17:57:34 S/N: 000206 Please activate your acc ount before 2013/08/13 17:57:34 _____ Thank you very much !

Figure 3-2-14 Account Printout

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

Three- Butto	on Printer / Web-based Account Generator Panel	Preview/Operate
Button A	(01) 30 minutes , 30 minutes , \$1.00 💌	
Button B	(02) 1 hour , 1 hours , \$2.00	
Button C	(01) 30 minutes , 30 minutes , \$1.00 💌	
Print to 🧕	${ar \odot}$ Account Generator Printer ${f Q}_{}$ ${f O}$ Connected Printer ${f Q}_{}$	
Use Button	1 B 💌 for Discount Price Plan based on "Button Presses": Enable 💌 (only valid for Three-Button Printer)	

evel	Conditions	Button Presses	Unit Price
01	when > =	1	same as base charge
02	when > =	3	1.5
03	when > =	7	1
04	when > =	0	
05	when > =	0	
06	when > =	0	
07	when > =	0	

Figure 3-2-15 Example 2

Amount: 7 x \$ 1 = \$ 7.00

Below is an example of the account printout.

Welcome!
Hotspot Internet Service
Username: 4n27
Password: 7ndx
Billing: Time to Finish
Service: 1 hour
Unit: 7
Usage Time: 07:00:00
Total: USD 11.00
ESSID: Handlink_WG-500P
WPA/WPA2: 1234567890
2013/08/12 17:57:34
S/N: 000206
Please activate your acc
ount before
2013/08/13 17:57:54
Thank you very much !
100 C 100 C

Figure 3-2-16 Account Printout

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

Three-Butto	n Printer / Web-based Account Generator Panel	Preview/Operate
Button A	(01) 30 minutes , 30 minutes , \$1.00 💌	
Button B	(02) 1 hour , 1 hours ,\$2.00	
Button C	(01) 30 minutes , 30 minutes , \$1.00 💌	
Print to 🧕	Account Generator Printer ${\sf Q}_{\circ}$ O Connected Printer ${\sf Q}_{\circ}$	
Use Button	For Discount Price Plan based on "Button Presses": Enable 💌 (only valid for Three-Button Printer)	

evel	Conditions	Button Presses	Unit Price
01	when > =	1	same as base charge
02	when > =	3	1.5
03	when > =	7	1
04	when > =	0	
05	when > =	0	
06	when > =	0	
07	when > =	0	

Figure 3-2-17 Example 3

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

Below is an example of the account printout.

Welcome!
Hotspot Internet Service
Username: 4n27
Password: 7ndx
Billing: Time to Finish
Service: 1 hour
Unit: 7
Usage Time: 07:00:00
Total: USD 11.00
ESSID: Handlink_WG-500P
WPA/WPA2: 1234567890
2013/08/12 17:57:34
S/N: 000206
Please activate your acc
ount before
2013/08/13 17:57:34
Thank you very much !
国新教授国
5154 655230
11000000
首點認識

Figure 3-2-18 Account Printout 41

• Discount Price Plan based on "Button Presses"

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

Apply

Figure 3-2-19 Discount Price Plan Setting Screen

ltem	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

WG-500P 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.

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

Figure 3-2-20 Credit Card Setting Screen

Item	Default	Description	
Authorize.net			
Version	3.1	This field displays the merchant version.	
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification	
		Number that you're received from your Merchant Provider. The	
		maximum character of the Merchant ID is 50.	
Merchant Password	This is a Merchant pass	word 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	Empty	The Merchant Transaction Key can be obtained directly from	
Кеу		"Authorize.net". The Merchant Transaction Key is similar to a	
		password and is used by the Payment Gateway to authenticate	
		transactions. The maximum character of the Merchant	
		Transaction Key is 50.	
Payment Gateway	https://secure.authoriz	Enter the address of Payment Gateway.	
	e.net/gateway/transac		
	t.dll		
Email Additional	The Email Additional Inf	ormation included subscriber username and password would be	
Information	sent to subscriber.		
Email Additional	Disable	Indicates whether Email additional information should be sent to	
Information		the subscriber (customer).	
Merchant Name	Empty	Enter the merchant's company name. The maximum allowed	
		characters length is 40.	
Username and	Disable	The Email Additional Information included subscriber username	
Password		and password would be sent to subscriber.	
Enable/Disable			
Usage Time	Disable	The Email Additional Information included subscriber usage	
Enable/Disable		time would be sent to the subscriber.	
iValidate.net			
Merchant ID	Empty	Enter your Merchant ID. This is a Merchant Identification	
		Number that you're received from your Merchant Provider. The	
		maximum character of the Merchant ID is 20.	
Device ID	Empty	Enter your Device ID. This is a Device Identification Number	
		that you're received from your Merchant Provider. The	
		maximum character of the Device ID is 20.	
Secure Server Address	https://www.vious.net/	Enter the secure server address.	

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

displayed 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

Send to Syslog Server	💿 Disable 🔘 Enable	
	Syslog Server on LA	N : Server IP Address : Server MAC Address :
	Syslog Server on WA	AN : Server 2 IP Address : Server 2 IP Address :
Send to Email	⊙ Disable ○ Enable	
	Email Server :	IP Address or Domain Name : SMTP Port : 25 E-mail (SMTP) server account : Username : Password :
	Email From :	Name :
	Email To :	Email address 1 : Email address 2 :

Figure 3-2-21 Syslog Setting Screen

ltem	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 WG-500P will send all of its
		logs to the specified syslog server.
Server MAC Address	Empty	Enter the syslog server's MAC address. The WG-500P will send all
		of its logs to the specified syslog server.

WG-500P Hotspot in a Printer

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

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

Log Categories

9	Log settings				
Syste	em.				
_	Syslog	Email	Log Name	Description	Sending Time
			Device Information	Device information updated at specified interval time	10 minute(s) (5-60)
			System Up Notice	Updated when system is rebooted or restarted	At system reboot or restart
			System Account Activity Informatio	Updated when system manager (Administrator) logs in or out from th e device	At system manager login or logou t
			Firmware Update Notice	Updated at completion of firmware update	At firmware update completion
			Wireless Association information	Updated with wireless user information at specified interval time	10 minute(s) (5-60)
Jser	Syslog	Email	Log Name	Description	Sending Time
			User Login	Updated with user login events	At user login
			User Logout	Updated with user logout events	At user logout
			Current User List	Updated with current user information at specified interval time	10 minute(s) (5-60)
Acco	unting And Billing			2	17 ⁻²
	Syslog	Email	Log Name	Description	Sending Time
			Account information	Updated when an account is created	At account creation
			Billing Amount	Updated when payment is received	At receipt of payment
-				1	And and a second se

Figure 3-2-22 Log Settings Screen

ltem	Default	Description
System		
Device Information	Every 10 minute(s)	The range is 5~60 minutes. The log included system information
		would be sent according to specified interval time.
		Format :
		PRODUCT=WG-500P: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=999999;
		WANRXOK=99999;WANTXERROR=99999;WANRXERROR=99999;
		LANTXOK=99999;LANRXOK=99999;LANTXERROR=999999;
		LANRXERROR=99999;WIRELESSTXOK=99999;WIRELESSRXOK=99
		999;
		WIRELESSTXERROR=99999;WIRELESSRXERROR=999999;
		WAN_QUALITY=5;
System Up Notice	When system	If device have been rebooted or restarted, the log would be

	rebooted or restarted	sent.
		Format :
		PRODUCT=WG-500P;VER=2.00.00;LOGNAME=SUN;
		DATE=07Mar26;TIME=15:23:32;
		WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02;
		WLANMAC=09-00-0e-00-00-03;
		IP_ADDRESS=210.66.37.21;
		SYS_NAME=Cafehotspot;LOCATION=East;CITY=Taipei;
		COUNTRY=Taiwan; FIRMWARE=v1.01.02;MESSAGE=System_Up;
		Message = System_Reboot
System Account Activity	When system	A log will be sent if system manager (Administrator) login
Information	manager login	to or logout from the device
	orlogout	Format:
		PRODUCT=WG-500P;VER=2.00.00;LOGNAME=SUN;
		DATE=07Mar26;TIME=15:23:32;
		WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02;
		WLANMAC=09-00-0e-00-00-03;
		IP_ADDRESS=210.66.37.21;
		SYS_NAME=Cafehotspot;LOCATION=East;CITY=Taipei;
		COUNTRY=Taiwan;
		FIRMWARE=v1.01.02;MESSAGE=System_Up;
		Account Name = Admin Supervisor Operator
		Status= Login Logout Idle_Time_Out
Firmware Update Notice	When firmware update	A log will be sent if firmware update completed
	completed	Format:
		PRODUCT=WG-500P;VER=2.00.00;LOGNAME=FUN;
		DATE=07Mar26;TIME=15:23:32;
		WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02;
		WLANMAC=09-00-0e-00-00-03;
		IP_ADDRESS=210.66.37.21;
		MESSAGE=Success;OLD_FRIMWARE=v1.00.01;
		NEW_FIRMWARE=v1.00.02
		Message = Success Fail
Wireless Association	Every 10 minute(s)	The range is range 5~60 minutes. A log including wireless users
Information		information will be sent according to specified interval time.
		Format:
		PRODUCT=WG-500P;VER=2.00.00;LOGNAME=WAI;

		DATE=07Mar26;TIME=15:23:32;
		WANMAC=09-00-0e-00-00-01;LANMAC=09-00-0e-00-00-02;
		WLANMAC=09-00-0e-00-00-03;
		IP_ADDRESS=210.66.37.21;
		USER_NUM=15;SEQ=1-5;USER_MAC=02-34-3e-01-00;
User		
User Login	When user logged-in	A log including users information will be sent when user
		logged–in
		Format:
		PRODUCT=WG-500P;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=10.59.1.
		1;
		USER_MAC=02-34-3e-01-00;INTERFACE=Ethernet;
		USER_TYPE=Dynamic;
		User Type = Dynamic / Super / User Agreement / Radius / No-Auth
		When User Replenish login format:
		PRODUCT=WG-500P;VER=2.00.00;LOGNAME=URP;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;
		REP_USER_NAME=kifm2fs3;USER_IP=10.59.1.1;
		USER_MAC=02-34-3e-01-00; INTERFACE=Ethernet;
		USER_TYPE=Dynamic; USED_TIME=24:00:00;TIME_LEFT=24:00:00
		User Type = Dynamic / Radius
User Logout	When user	A log including users information will be sent when user
	logged-out	logged –out
		Format:
		PRODUCT=WG-500P;VER=2.00.00;LOGNAME=ULO;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=10.59.1.
		1;
		USER_MAC=02-34-3e-01-00;INTERFACE=Ethernet;
		USER_TYPE=Dynamic;RXDATA=1234; TXDATA=1234;
		USED_TIME=24:00:00;LOGOUT_TYPE=Time_Up;TIME_LEFT=24:00:0

		0		
		User Type = Dynamic / Super / User Agreement / Radius / No-Auth		
Current User List	Every 10 minute(s)	The range is Range 5~60 minutes. A log including logged-in		
		users information will be sent according to specified interval		
		time		
		Format:		
		PRODUCT=WG-500P;VER=2.00.00;LOGNAME=CUL;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=0;SEQ=1-5;		
		USER_NAME=asdfg12,USER_IP=10.59.1.2,USER_MAC=02-34-3e-01-		
		00,		
		INTERFACE=Ethernet,USER_TYPE=Dynamic,RXDATA=1234,		
		TXDATA=1234,USED_TIME=24:00:00,SESSION=100,WLAN_SIG=N/A;		
		USER_NAME=dk6uf2eg,USER_IP=10.59.1.3,USER_MAC=02-34-3e-01		
		-02,		
		INTERFACE=Wireless,USER_TYPE=Dynamic,RXDATA=1234,		
		TXDATA=1234,USED_TIME=24:00:00,SESSION=100,WLAN_SIG=100		
		%;		
		User Type = Dynamic / Super / User Agreement / Radius / No-Auth		
		User Name = If the type of user is Super/User Agreement/No-Auth , the		
		username=****		
Account and Billing				
Account Information	When an account is	A log will be sent when an account is created		
	created	Format:		
		PRODUCT=WG-500P;VER=2.00.00;LOGNAME=ACI;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;		
		ACCOUNT_TYPE=TimetoFinish; ACCOUNT_SERIAL=000002;		
		ACCOUNT_PRICE= USD20.00; ACCOUNT_USAGE_TIME=10:59:59;		
		BILLING_INDEX=1;BILLING_UNIT=2;		
		Account Type = TimeToFinish / Accumulation / PostPaid		
		Account Price = Currencyxx.xx		
		Currency = AUD CHF EUR GBP JPY RIY USD		
Billing Amount	When received	A log will be sent when received amount		
	amount	Format:		

	PRODUCT=WG-500P;VER=2.00.00;LOGNAME=BLA; DATE=07Mar26;
	TIME=15:23:32;WANMAC=09-00-0e-00-00-01;
	LANMAC=09-00-0e-00-00-02; WLANMAC=09-00-0e-00-00-03;
	IP_ADDRESS=210.66.37.21;USER_NAME=username;
	BILL_TYPE=Cash,
	BILL_AMOUNT= USD50.00
	Billing Type= Cash Credit_Card; Billing Amount = xx.xx
	Currency = AUD CHF EUR GBP JPY RIY USD

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

3-2-3-2 Session Trace

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

TFTP Server	Enable Primary TFTP Server IP / Secondary TFTP Server	Address P Address
E-mail Server	Enable	
	Email Server :	IP Address or Domain Name : SMTP Port : 25 E-mail (SMTP) server account : Username : Password :
	Email From :	Name :
	Email To :	Email address 1 :

Figure 3-2-23 Session Trace Setting Screen

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ltem	Default	Description
TFTP Server		
Session Trace	Disable	Disables or enables session trace function.
Primary TFTP Server IP	Empty	Enter the IP address of the primary TFTP server.
Address		
Secondary TFTP Server IP	Empty	Enter the IP address of the second TFTP server.
Address		
Send Session Trace log file	10 minutes	The field means to send the session trace log file every interval
every~ minutes.		minutes. The value range is 5 to 1440 (minutes).
Send to Email	Disable	Enables or disables the send to e-mail function.
E-mail Server		
IP Address or Domain Name	Empty	Enter the SMTP server IP address or domain name. The
		maximum allowed characters length is 50.
SMTP Port	Empty	The SMTP port allowed range is 25 or 2500 to 2599.
E-mail (SMTP) Server needs	Disable	If your SMTP server requires authentication before accepting
to check my account		e-mail, click on check box. These values (username and
		password) are supplied by your network administrator, SMTP
		server provider or ISP.
Username	Empty	Enter the username for the SMTP server. The maximum allowed
		characters length is 64.
Password	Empty	Enter the password for the SMTP server
Email From		
Name	Empty	Enter the name you would like to appear in the "message from"
		field of your outgoing message. The maximum allowed characters
		length is 20.
Email Address	Empty	Enter your e-mail address. This is the address others will use to
		send email to Email Address 1/Email Address 2.
Email To		
Email Address 1	Empty	Enter your first e-mail address to receive the logs.
Email Address 2	Empty	Enter your second e-mail address to receive the logs.

3-2-3-3 Bandwidth

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

BANDWIDTH

Bandwidth Management: Enable 💌			
Limit bandwidth usage on a per user (MAC ad more fairly across all users.	dress) basis. Prevent individual users from	n consuming a dispropor	tionately large amount of bandwidth. Distribute bandwidth
Specify maximum Upstream/Downstream bar	idwidth:		
Maximum Upstream	€4 Kbps ✓	0	Kbps (64~5120)
Maximum Downstream	 ● 128 Kbps ▼ 	0	Kbps (64~5120)
			Apply

Figure 3-2-24 Bandwidth Setting Screen

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

3-2-3-4 SNMP

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

MP:	Disable 💌			
IP Por	ort: 161 (161 or 16100 ~ 161 t: 162 (162 or 16200 ~ 1625	93)		
No	Community Name	NMS Address	Privileges	Status
01	public	ANY	Read	Invalid 💌
02			Read	Invalid 💌
03			Read	Invalid 🛩
84			Read	Invalid 🛩
-			Dead	Invalid a

Figure 3-2-25 SNMP Setting Screen

ltem	Default	Description	
SNMP	Disable	Disables or enables the SNMP management.	
SNMP Port	161	If the SNMP enables, also allowed to specific the SNMP port number via	
Trap Port	162	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.	
Configuration			
Community Name	public/private	Every unit with SNMP enable must be configured to recognize one or mo	
		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 WG-500P system. Because some network devices might be constructed under the WG-500P. However these devices needn't be checked and authorized. The WG-500P provides a pass through list and the administrator can control which devices can be pass through with authentication.

ass Through Dest useful for VIP us th LAN port (wire	tination allows the subs ers without authenticati less access points, for	cribers to access specified Internet websit on. Pass Through LAN device is also usefi example).	es without authentication, which ul for devices that do not have a v	is useful to promote selected service reb browser (cash registers, for exar	es. Pass Through Subscrit nple) or that are connecte
nter new pass th	rough for destination	(up to 20 entries)			
URL or Websit	e:				
Start / End IP /	Address:	~			
nter new pass th	nrough for subscribers	s or LAN devices (up to 20 entries)			
Start / End IP /	Address:	~			
IP Address:		Subnet Mask:			
MAC address:		Mask: FF-FF-FF-FF-FF	~		Add to lis
ass Through Lis	t				
No.	Active	Address List	Туре	Description	Delete
					Delete A

Figure 3-2-26 Pass through Setting Screen

ltem	Default	Description				
Pass Through	Disable	Enables or disables the pass through function.				
Destination URL/IP Add	ress Pass Through	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 WG-500P. (iOS 6 device and later is required.)				
		2. Please add go.redirectingat.com for certain QR code apps.				

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Start / End IP Address	Empty	Enter the start / end IP address of you wants pass through.		
Subscriber IP/MAC Address or LAN Device Pass Through				
Start / End IP Address	Empty	Enter the start / end IP address of you wants pass through.		
IP Address	Empty	Enter the IP address of you wants pass through.		
Subnet Mask	Empty	Enter the subnet mask of you wants pass through.		
MAC Address	Empty	Enter the MAC address of you wants pass through.		
Mask	Empty	Enter the subnet mask of you wants pass through.		
Pass Through List	Display the pass through Information of WG-500P.			
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).		
Туре	-	Display the type of pass through address.		
Delete	Disable	Select the check boxes and click 'Delete' to delete the pass through		
address(s).		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: Enable List of restricted destinations, usually for blocking specified Internet websites or Intranet areas. HTTP Message to display when a website is blocked This Web Site is blocked by System Enter new restricted destination: (up to 20 entries) © URL or Website: O Start / End IP Address: Subnet Mask: Add to Restricted Destination List No. Active Address List Delete	FILTERING			
List of restricted destinations, usually for blocking specified Internet websites or Intranet areas. HTTP Message to display when a website is blocked [This Web Site is blocked by System Enter new restricted destination: (up to 20 entries) © URL or Website: Start / End IP Address: Start / End IP Address: Subnet Mask: Add to Restricted Destination List No. Active Address List Delete	Filtering: Enable 💌			
HTTP Message to display when a website is blocked This Web Site is blocked by System Enter new restricted destination: (up to 20 entries) © URL or Website: O Start / End IP Address: O Start / End IP Address: O IP Address: Subnet Mask Add to Restricted Destination List No. Active Address List Delete	List of restricted destinations, u	sually for blocking specified Internet w	ebsites or Intranet areas.	
This Web Site is blocked by System Enter new restricted destination: (up to 20 entries) © URL or Website: © Start / End IP Address: > IP Address: Subnet Mask: Add to Restricted Destination List No. Active Address List Delete	HTTP Message to display wh	en a website is blocked		
Enter new restricted destination: (up to 20 entries) O URL or Website: O Start / End IP Address: O IP Address: O UPL of Website: Add to Restricted Destination List No. Active Address List Delete Delete	This Web Site is blocked by	/ System		
URL or Website: Start / End IP Address: Subnet Mask: Add to Restricted Destination List No. Active Address List Delete Delete	Enter new restricted destina	tion: (up to 20 entries)		
O Start / End IP Address: ~	URL or Website:			
IP Address: Subnet Mask Add to Restricted Destination List No. Active Address List Delete Delete Delete Delete Delete Delete	O Start / End IP Address:	~ [
Restricted Destination List No. Active Address List Delete	O IP Address:	Subnet Mask:		Add to list
No. Active Address List Delete	Restricted Destination List			
Delete	No.	Active	Address List	Delete
Delete				
				Delete All
App				Apply

Figure 3-2-27 Filtering Setting Screen

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