4.4.1 Network Address Translation

Set the configuration for DMZ, Public Accessible Server and Port and Redirect.

Network Address Translation
DMZ (Demilitarized Zone)
Public Accessible Server
Port and IP Redirect

Ϋ DMZ

The system supports up to 40 sets of Internal IP address (LAN) to External IP address (WAN) mapping in the Static Assignments. The External IP Address of the Automatic WAN IP Assignment is the IP address of External Interface (WAN1) that will change dynamically if WAN1 Interface is Dynamic. When **Automatic WAN IP Assignments** is enabled, the entered Internal IP Address of Automatic WAN IP Assignment will be bound with WAN1 interface. Each **Static Assignment** could be bound with the chosen External Interface, WAN1 or WAN2. There are 40 sets of static **Internal IP Address** and **External IP Address** available. Enter **Internal** and **External** IP Addresses as a set. After the setup, accessing the WAN will be mapped to access the Internal IP Address. These settings will become effective immediately after clicking the **Apply** button.

	Automatic WAN IP Assignment				
Enable	External IP Address	External Interface	Internal IP Address		
	10.2.3.100	WAN1			
	Static A	ssignments			
Item	External IP Address	External Interface	Internal IP Address		
1		WAN1 💌			
2		WAN1 🗸			
3		WAN1 💌			
4		WAN1 🗸			
5		WAN1 🗸			
6		WAN1 🗸			
7		WAN1 🗸			
8		WAN1 💌			
9		WAN1 💌			
10		WAN1 🛩			

(Total:40) First Prev Next Last

Ÿ Public Accessible Server

This function allows the administrator to set 40 virtual servers at most, so that client devices outside the managed network can access these servers within the managed network. Different virtual servers can be configured for different sets of physical services, such as TCP and UDP services in general. Enter the "External Service Port", "Local Server IP Address" and "Local Server Port". Select "TCP" or "UDP" for the service's type. In the Enable column, check the desired server to enable. These settings will become effective immediately after clicking the *Apply* button.

	Public Accessible Server				
Item	External Service Port	Local Server IP Address	Local Server Port	Туре	Enable
1				O TCP O UDP	
2				O TCP O UDP	
3				O TCP O UDP	
4				O TCP O UDP	
5				O TCP O UDP	
6				O TCP O UDP	
7				O TCP O UDP	
8				O TCP O UDP	
9				O TCP O UDP	
10				O TCP O UDP	

(Total:40) First Prev Next Last

Ÿ Port and IP Redirect

This function allows the administrator to set 40 sets of the IP addresses at most for redirection purpose. When the user attempts to connect to a destination IP address listed here, the connection packet will be converted and redirected to the corresponding destination. Please enter the "IP Address" and "Port" of Destination, and the "IP Address" and "Port" of Translated to Destination. Select "TCP" or "UDP" for the service's type. These settings will become effective immediately after clicking *Apply*.

	Port and IP Redirect					
14	Destination		Translated to Des			
item	IP Address	Port	IP Address	Port	Type	
1					O TCP O UDP	
2					O TCP	
3					O TCP O UDP	
4					O TCP O UDP	
5					O TCP O UDP	
6					O TCP O UDP	
7					O TCP	
8					O TCP O UDP	
9					O TCP O UDP	
10					O TCP O UDP	

(Total:40) First Prev Next Last

4.4.2 Privilege List

Set the configuration for Privilege IP Address List and Privilege MAC Address List.

Privilege List
Privilege IP Address List
Privilege MAC Address List

Ÿ Privilege IP Address List

If there are workstations inside the managed network that need to access the network without authentication, enter the IP addresses of these workstations in the "**Privilege IP Address List**". The "**Remark**" field is not necessary but is useful to keep track. WHG301 allows 100 privilege IP addresses at most. These settings will become effective immediately after clicking *Apply*.



(Total: 100) First Prev Next Last

Permitting specific IP addresses to have network access rights without going through standard authentication process at the controlled port may cause security problems.

Ÿ Privilege MAC Address List

In addition to the IP address, the MAC address of the workstations that need to access the network without authentication can also be set in the "**Privilege MAC Address List**". WHG301 allows 100 privilege MAC addresses at most. When manually creating the list, enter the MAC address (the format is xx:xx:xx:xx:xx) as well as the remark (not necessary). These settings will become effective immediately after clicking *Apply*.

Privilege MAC Address List			
Item	MAC Address	Remark	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
	(Total: 100) First Prev Next	Last	



Permitting specific MAC addresses to have network access rights without going through standard authentication process at the controlled port may cause security problems

4.4.3 Monitor IP List

WHG301 will send out a packet periodically to monitor the connection status of the IP addresses on the list. If the monitored IP address does not respond, the system will send an e-mail to notify the administrator that such destination is not reachable. After entering the necessary information, click *Apply* to save the settings. Click *Monitor* to check the current status of all the monitored IP. The system supports monitoring on 40 IP addresses listed in the "Monitor IP List".

			Monito	r IP L	ist		
ltem	Protocol	IP Address	Link	Item	Protocol	IP Address	Link
1	http 💌		Add	2	http 💌		Add
3	http 💉		Add	4	http 💌		Add
5	http 💌		Add	6	http 💌		Add
7	http 💌		Add	8	http 💌		Add
9	http 💌		Add	10	http 💌		Add
11	http 💌		Add	12	http 🖌		Add
13	http 💌		Add	14	http 💌	-	Add
15	http 💌		Add	16	http 💌		Add
17	http 🖌		Add	18	http 💌		Add
19	http 🔽		Add	20	http 💌		Add

(Total: 40) First Prev Next Last



On each monitored item with a WEB server running, administrators may add a link for the easy access by selecting a protocol, http or https, and click the *Add* button. After clicking *Add* button, the IP address will become a hyperlink, and administrators can easily access the host by clicking the hyperlink remotely. Click the *Del* button to remove the setting.

Monitor IP result		
No	IP Address	Result
1	192.168.1.200	
2	192.168.1.100	۲

4.4.4 Walled Garden List

This function provides certain free services for users to access the websites listed here before login and authentication. Up to 20 addresses or domain names of the websites can be defined in this list. Users without the network access right can still have a chance to experience the actual network service free of charge. Enter the website **IP Address** or **Domain Name** in the list and click **Apply** to save the settings.

Walled Garden List				
Item	Address	Item	Address	
1	www.paypal.com	2		
3		4		
5		6		
7		8		
9		10		
11		12		
13		14		
15		16		
17		18		
19		20		

4.4.5 Proxy Server Properties

	External Proxy Server				
Item	Server IP	Port			
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
	Interna	l Proxy Server			
	Built-in Proxy Server	C Enabled 💿 Disabled			

WHG301 supports Internal Proxy Server and External Proxy Server functions.

- Y External Proxy Server: Under the security management of WHG301, the system will match the External Proxy Server list to the clients' proxy settings. If there is not a match, the clients will not be able to reach the login page and thus unable to access the network. If there is a match, the clients will be directed to the system for authentication. After a successful authentication, the clients will be redirected back to the desired proxy servers depending on different situations.
- **internal Proxy Server:** WHG301 has a built-in proxy server. If this function is enabled, the clients will be forced to treat WHG301 as the proxy server regardless of their original proxy settings.

For more details about how to set up the proxy servers, please refer to Appendix D. Proxy Setting.

4.4.6 Dynamic DNS

Before activating this function, you must have your Dynamic DNS hostname registered with a Dynamic DNS provider. WHG301 supports DNS function to alias the dynamic IP address for the WAN port to a static domain name, allowing the administrator to easily access WHG301's WAN. If the dynamic DHCP is activated at the WAN port, it will update the IP address of the DNS server periodically. These settings will become effective immediately after clicking *Apply*.

	Dynamic DNS
DDNS	○ Enabled ④ Disabled
Provider	DynDNS.org(Dynamic)
Host name	·
Username/E-mail	-
Password/Key	

- Ϋ **DDNS:** Enable or disable this function.
- Ϋ **Provider:** Select the DNS provider.
- Ϋ **Host name:** The IP address/domain name of the WAN port.
- Ϋ Username/E-mail: The register ID (username or e-mail) for the DNS provider.
- Ϋ **Password/Key:** The register password for the DNS provider.



To apply for free Dynamic DNS service, you may go to <u>http://www.dyndns.com/services/dns/dyndns/howto.html</u>.

4.4.7 IP Mobility

WHG301 supports IP PNP function.

IP Mobility		
IP PNP	◯ Enable ⓒ Disable	

At the user end, a static IP address can be used to connect to the system. Regardless of what the IP address at the user end is, authentication can still be performed through WHG301.

4.4.8 VPN Configuration

Virtual Private Network, or VPN, a type of technology designed to increase the security of information transferred over the Internet. VPN can work with either wired or wireless networks, as well as with dial-up connections over POTS. VPN creates a private encrypted tunnel from the end user's computer, through the local wireless network, through the Internet, all the way to the corporate servers and database.

VPN Configuration
Local VPN
Remote VPN
Site-to-Site VPN

Local VPN: Local VPN allows to create the VPN tunnel between a user's device and WHG301, to encrypt the data transmission. In addition, only when this function is enabled (*Active*) here do users of the entire system are able to use Local VPN. Local VPN users can also be isolated from each other when *VPN Client Isolation* is enabled.

Local VPN For The Entire System				
Active	⊙ Enable ○ Disable			
VPN Client Isolation	VPN Client Isolation O Enable O Disable			
IPSec Parameters				
Encryption	◯ DES ⊙ 3-DES			
Integrity	● MD5 ○ SHA-1			
Diffie-Hellman	⊙ Group 1 ○ Group 2			

For more information about Local VPN, please see Appendix H. Local VPN.

Remote VPN: When the setting is enabled, the system allows the VPN tunnel between a remote client and the system to encrypt the data transmission via PPTP. The system's VPN supports end-users' device under Windows 2000, Windows XP SP1, SP2 and Windows Vista. Start IP field must be entered when enabled. The supported Authentication Servers, Group Permission, Client Policy, and the Remote VPN login page also can be configured here. The system supports up to 10 PPTP connections.

	Remote VPN	for the Entire S	ystem		
Remote VPN Status	○ Enable ④ Disable				
IP Address Range Assignment	Start IP Address: 192.168.6.1 (Support up to 10 connections.)				
SIP Configuration	Enable 🔲 WAN Interface WAN1				
	Auth Option	Auth Database	Postfix	Default	Enabled
Authoritication	Server 1	LOCAL	local	۲	V
Options	Server 2	POP3	рорЗ	0	~
	Server 3	RADIUS	radius	0	~
	Server 4	LDAP	Idap	0	~
Group Permission Configuration	Configure				
Applied Policy to Remote Client	Policy 1 💌				
Remote VPN Login Page	Configure				

Site-to-site VPN: When the setting is enabled, the system enables the IPSec VPN tunnel between two remote networks/sites to encrypt the data transmission. Click *Add A Remote Site* button to set configuration about remote VPN capable devices such as VPN gateway. Click *Add A Local Site* button to set configuration about local site.

Name	IP Address	Pre-shared	Key Ed	Edit Delete		
	(Add A Remote Site				
	L	ocal Site Configura	tion			

4.5 Utilities

This section provides four utilities to customize and maintain the system including Change Password,

Backup/Restore Settings, Firmware Upgrade, Restart and Network Utilities.

4ipnet	Wirele	ss Hotspot Gateway WHG301
System Uax Configuration Authenti	rcation Managem	ent Configuration Salus
Change Password	- Cundes	Utilities
Backup/Restore Settings	Change Password	Change the administration password
(Firmware Upgrade)	Backup/Restore Settings	Backup and restore system settings. Administrator may also reset system settings to factory default.
Restart	Finmware Upgrade	Update 4ipnet WHG301 firmware.
Network Utilities	Restart	Restart the system.
	Network Utilities	Some network utilities such as Wake-on-LAU web-based Ping and ARP table are supported by the system.

4.5.1 Change Password

There are three levels of authorities: **admin**, **manager** or **operator**. The default usernames and passwords are as follows:

Admin: The administrator can access all configuration pages of WHG301.

User Name: admin

Password: admin

Manager: The manager can only access the configuration pages under **User Authentication** to manage the user accounts, but without permission to change the settings of the profiles of Firewall, Specific Route and Schedule.

User Name: manager

Password: manager

Operator: The operator can only access the configuration page of **Create On-demand User** to create new on-demand user accounts and print out the on-demand user account receipts.

User Name: operator

Password: operator

The administrator can change the passwords here. Please enter the current password and then enter the new password twice to verify. Click *Apply* to activate this new password.

Change Admin Password				
Old Password	•			
New Password	•			
Verify Password	•			



(x	Clear
-	

	Change Manager Password				
New Password	·				
Verify Password	·				
	🗸 Apply 🗙 Clear				
	Change Operator Password				
New Password	·				
Verify Password	•				



If the administrator's password is lost, the administrator's password still can be changed through the text mode management interface at the serial console port.

4.5.2 Backup/Restore Settings

This function is used to backup/restore the 4ipnet WHG301 settings. Also, WHG301 can be restored to the factory default settings here.

	Backup current system settings Backup
	Restore system settings
File Name	Browse
	Restore
	Reset to the factory-default settings
	Reset

β Backup current system settings: Click *Backup* to create a .db database backup file and save it on disk.

ile Downl	oad				×
Do you v	vant to open or	save this file?			
•	Name: 21	0050303.db			
	Type: D	ata Base File			
	From: 10	0.2.3.70			
		Open	Save	Cancel	
					-
🔽 Alwaj	ys ask before o	pening this type o	f file		
	While files from	the Internet can	be useful, some	files can potential	ly
	harm your com	puter. If you do no	ot trust the sourc	e, do not open or	
~	save this file.	vnatis the fisk?			

- Provide the same settings: Click Browse to search for a .db database backup file created by WHG301 and click Restore to restore to the same settings at the time when the backup file was saved.
- Ϋ Reset to the factory-default settings: Click *Reset* to load the factory default settings of WHG301.

4.5.3 Firmware Upgrade

The administrator can download the latest firmware from website and upgrade the system here. Click **Browse** to search for the firmware file and click **Apply** for the firmware upgrade. It might take a few minutes before the upgrade process completes and the system needs to be restarted afterwards to activate the new firmware.

Firmware Upgrade		
Current Version	1.00.00-EN-N	
File Name	Browse	

Note: For maintenance issues, we strongly recommend you backup system settings before upgrading firmware.



1. Firmware upgrade may cause the loss of some data. Please refer to the release notes for the limitation before upgrading.

2. Please restart the system after upgrading the firmware. Do not power on/off the system during the upgrade or restart process. It may damage the system and cause malfunction.

4.5.4 Restart

This function allows the administrator to safely restart 4ipnet WHG301, and the process might take approximately three minutes. Click **YES** to restart WHG301; click **NO** to go back to the previous screen. If the power needs to be turned off, it is highly recommended to restart WHG301 first and then turn off the power after completing the restart process.



The connection of all online users of the system will be disconnected when system is in the process of restarting.

4.5.5 Network Utilities

This function allows the administrators to manage functions including **Wake-on-LAN**, **Ping**, **Trace Route**, and showing **ARP Table** by entering IP or Domain Name.

	Network Utilities
Wake On Lan	(Wake Up
Ping	www.yahoo.com (IP/Domsin Name) Ping
Trace Route	(IP/Domsin Name) Start Stop
ARP Table	Show
Status	Done
Result	PING www.yahoo-ht3.akadns.net (209.131.36.158) 56(84) bytes of 64 bytes from f1.www.vip.sp1.yahoo.com (209.131.36.158): icmp_s 64 bytes f1.www.vip.sp1.yahoo.com (209.131.36.158): icmp_s 64
	<

- Ø Wake on LAN: It allows the system to remotely boot up a power-down computer with Wake-On-LAN feature enabled and is on the LAN side. Enter the MAC Address of the desired device and click Wake Up button to execute this function.
- Ø Ping: It allows administrator to detect a device using IP address or Host domain name to see if it is alive or not.
- Ø Trace Route: It allows administrator to find out the real path of packets from the gateway to a destination using IP address or Host domain name.
- Ø ARP Table: It allows administrator to view the IP-to-Physical address translation tables used by address resolution protocol (ARP).

4.6 Status

This section includes **System Status**, **Interface Status**, **Routing Table**, **Current Users**, **Traffic History**, and **Notification Configuration** to provide system status information and online user status.

4ipnet	Wirele	ess Hotspot Gateway WHG301
System Us Configuration Author	ter AP disation Managem	ent Distwork Uiters Some
	🙂 Status	
System Status		Status
Interface Status	System Status	Display current system settings.
(Routing Table	Interface Status	Display the current settings of all network interfaces such as WAN and service zone.
Current Users Traffic History	Routing Table	List all Policy Route rules and Global Policy Route rules. The System Route rules are shown here as well. The Policy Route rule has higher priority than the Global Policy route rule. The System Route rule has the lowest priority.
(Notification Configuration	Current Users	Display online user information including Usemane, P, NAC, paciet count, byte count and idle time. Administrator may also lick out any on-line user from here.
	Traffic History	Display detail usage information by day. A minimum of 3 days of history can be logged in the system.
	Notification Configuration	The system can send various reports via up to 3 email accounts such as Monitor IP report. Users log, and Session Lop. The external SYSLOG server and FTP server are configured here.
		00

4.6.1 System Status

This section provides an overview of the system for the administrator.

System Status					
Ci	urrent Firmware Version	1.00.00-EN-N			
	Build	00400			
	System Name	Wireless Hotspot Gateway			
	Home Page	http://www.4ipnet.com			
SYSI	OG server - Traffic History	N/A:N/A			
SYSLOG	server - On-demand Users Log	N/A:N/A			
	Proxy Server	Disabled			
Warni	ng of Internet Disconnection	Disabled			
WAN Failover		Disabled			
	Load Balancing	Disabled			
	SNMP	Disabled			
	Retained Days	3 days			
History		N/A			
	Email To	N/A			
		N/A			
Time	NTP Server	tock.usno.navy.mil			
Time	Date Time	2007/12/27 09:41:43 +0800			
lleor	Idle Timer	10 Min(s)			
USEI	Multiple Login	Disabled			
DNC	Preferred DNS Server	168.95.1.1			
DN2	Alternate DNS Server	N/A			

The description of the above-mentioned table is as follows:

ltem		Description				
Current Firmwa	re Version	The present firmware version of WHG301				
Build		The current build number.				
System Na	ame	The system name. The default is WHG301				
Home Pa	ige	The page the users are directed to after initial login success.				
Sueles conver Tre	ffie History	The IP address and port number of the external Syslog Server. N/A means				
Syslog server-Tra	mic history	that it is not configured.				
Syslog sorvor-On do	mand Llear log	The IP address and port number of the external Syslog Server. N/A means				
	manu user iog	that it is not configured.				
Proxy Sei	vor	Enabled/disabled stands for that the system is currently using the proxy				
	vei	server or not.				
		Enabled/Disabled stands for the connection at WAN is normal or abnormal				
Warning of Internet	Disconnection	(Internet Connection Detection) and all online users are				
		allowed/disallowed to log in the network.				
WAN Faile	over	Enabled/Disabled stands for the function currently being used or not.				
Load Balancing		Enabled/Disabled stands for the function currently being used or not.				
SNMP		Enabled/disabled stands for the current status of the SNMP management				
		function.				
	Retained Days	The maximum number of days for the system to retain the users' information.				
History	Email To	The email address to which the traffic history or user's traffic history				
		information will be sent.				
Time	NTP Server	The network time server that the system is set to align.				
Time	Date Time	The system time is shown as the local time.				
	Idlo Timor	The minutes allowed for the users to be inactive before their account expires				
llsor		automatically.				
0301	Multiple Login	Enabled/disabled stands for the current setting to allow/disallow multiple				
		logins form the same account.				
	Preferred DNS	IP address of the preferred DNS Server				
DNS	Server					
	Alternate DNS	IP address of the alternate DNS Server				
	Server	IF AUGIESS OF THE AIGHTAGE DING SETVER.				

4.6.2 Interface Status

This section provides an overview of the interface for the administrator including WAN1, WAN2, SZ Default~8.

Interface Status					
	MAC Address				
WAN1	IP Address				
	Subnet Mask	255.255.255.0			
WAN2	Disabled				
	WAN1	WAN2			
Packets In	28583 (A 28153)	0 (Δ 0)			
Packets Out	12887 (<u></u> 12862)	0 (Δ 0)			
Bytes In	2957963 (∆ 2916864)	0 (Δ 0)			
Bytes Out	9170109 (∆ 9167181)	0 (Δ 0)			
	Mode	NAT			
Service Zene Default	MAC Address				
Service Zone - Default	IP Address	192.168.1.254			
	Subnet Mask	255.255.255.0			
	Status	Enabled			
	WINS IP Address	N/A			
Service Zone - Default DHCP Server	Start IP Address	192.168.1.1			
	End IP Address	192.168.1.100			
	Lease Time	1440 Min(s)			
Service Zone - SZ1	Disa	bled			

The description of the above-mentioned table is as follows:

	Item	Description
	MAC Address	The MAC address of the WAN1 port.
WAN1	IP Address	The IP address of the WAN1 port.
	Subnet Mask	The Subnet Mask of the WAN1 port.
	MAC Address	The MAC address of the WAN2 port.
WAN2	IP Address	The IP address of the WAN2 port.
	Subnet Mask	The Subnet Mask of the WAN2 port.
		The total accumulated packets in through this WAN port since the gateway
Packets In		boots up. The delta shows the difference between the numbers from last time
		this Interface Status page is visited.
		The total accumulated packets out through this WAN port since the gateway
Packets Out		boots up. The delta shows the difference between the numbers from last time
		this Interface Status page is visited.
		The total accumulated bytes in through this WAN port since the gateway boots
Bytes In		up. The delta shows the difference between the numbers from last time this
		Interface Status page is visited.
		The total accumulated packets out through this WAN port since the gateway
Bytes Out		boots up. The delta shows the difference between the numbers from last time
		this Interface Status page is visited.
	Status	Enable/disable stands for status of the DHCP server in Default Service Zone
Service Zone -	WINS IP Address	The WINS server IP on DHCP server. N/A means that it is not configured.
Default DHCP	Start IP Address	The start IP address of the DHCP IP range.
Server	End IP address	The end IP address of the DHCP IP range.
	Lease Time	Minutes of the lease time of the IP address.
	Mode	The operation mode of the default SZ.
Service Zone –	MAC Address	The MAC address of the default SZ.
Default	IP Address	The IP address of the default SZ.
	Subnet Mask	The Subnet Mask of the default SZ.

4.6.3 Routing Table

All the **Policy** Route rules and **Global Policy** Route rules will be listed here. Also it will show the **System** Route rules specified by each interface.

	P	olicy 1	
Destination	Subnet Mask	Gateway	Interfac
	F	olicy 2	
Destination	Subnet Mask	Gateway	Interfac
	F	olicy 3	
Destination	Subnet Mask	Gateway	Interfac
	F	olicy 4	
Destination	Subnet Mask	Gateway	Interfac
Destination	F	olicy 6	histor
Deschation	BUDNECIMIEN	Gatesay	interior.
	F	olicy 6	
Destination	Subnet Mask	Gateway	Interfac
		lolicy 7	
Destination	Subnet Mask	Gateway	interfac
3.0000000000			
	F	olicy 8	
Destination	Subnet Mask	Gateway	interfac
	P	Policy 9	
Destination	Subnet Mask	Gateway	Interfac
	P	olicy 10	
Destination	Subnet Mask	Gatenay	Interfac
		- H #.#	
-	P	olicy 11	
Destination	Subnet Mask	Gatenay	Interfac
	P	olicy 12	
Destination	Subnet Mask	Gatemay	Interfac
	Glo	hal Policy	
Destination	Subnet Mask	Gatenay	Interfac
	5	lystem	
Destination	Subnet Mask	Gateway	Interfac
192.168.1.0	255 255 255 0	0.0.0.0	Detaul
10.2.3.0	255 255 255 0	0.0.0.0	WANT

- Ϋ **Policy 1~12:** Shows the information of the individual Policy from 1 to 12.
- Υ Global Policy: Shows the information of the Global Policy.
- **System:** Shows the information of the system administration.
 - Ø Destination: The destination IP address of the device.
 - Ø Subnet Mask: The Subnet Mask IP address of the port.
 - Ø Gateway: The Gateway IP address of the port.
 - Ø Interface: The choice of interface network, including WAN1, WAN2, Default, or the named Service Zones to be applied for the traffic interface.

4.6.4 Current Users

In this function, each online user's information including Username, IP, MAC, Pkts In, Bytes In, Pkts Out, Bytes Out, Idle, Location and Kick Out will be shown. Administrators can force out a specific online user by clicking the hyperlink of *"Logout"* and check the user access AP status by clicking the hyperlink of the AP name for "Location." Click *Refresh* is to update the current users list.

Current Users List									
Itom	Username		Pkts In Bytes Ir		Idla	Location			
item	IP	IP MAC		Bytes Out	lale	Kick Out			
	-								



4.6.5 Traffic History

This function is used to check the traffic history of 4ipnet WHG301. The history of each day will be saved separately in the DRAM for at least 3 days (72 full hours). The system also keeps a cumulated record of the traffic data generated by each user in the latest 2 calendar months.

Traffic History							
Da	ite		Size (Byte)				
2007	-12-21	65					
2007	-12-22		65				
2007	-12-23		65				
<u>2007</u>	<u>-12-24</u>		65				
	On-demand	d User Log					
Da	ite		Size (Byte)				
2007	-12-21		105				
2007	-12-22		105				
<u>2007</u>	- <u>12-23</u>		105				
<u>2007</u>	<u>-12-24</u>		105				
	Roaming Out	Traffic Histo	ry				
Da	ite		Size (Byte)				
2007	<u>-12-21</u>		106				
2007	-12-22		106				
2007	- <u>12-23</u>	106					
<u>2007</u>	<u>-12-24</u>	106					
	Roaming In T	raffic Histor	у				
Da	ite		Size (Byte)				
2007	-12-21	112					
2007	-12-22	112					
2007	-12-23	112					
<u>2007</u>	<u>-12-24</u>		112				
	SIP Call U	sage Log					
Da	ite	Call Count					
2007	-12-21		0				
2007	-12-22	0					
2007	-12-23	0					
2007	-12-24		0				
	Monthly Network U	sage of Loca	al User				
Month	No. of Entrie	es	Usage Data				
2007-12	0		Download				



Since the history is saved in the DRAM, if you need to restart the system, and at the same time, keep the history, please manually copy and save the traffic history information before restarting.

If the **History Email** has been entered under the **Notify Configuration** page, the system will automatically send out the history information to that specified email address.

Ÿ Traffic History

All activities occur on the system within the nearest 72 hours are recorded; in date and time order. As shown in the following figure, each line is a traffic history record consisting of 9 fields, **Date**, **Type**, **Name**, **IP**, **MAC**, **Pkts In**, **Bytes In**, **Pkts Out** and **Bytes Out** of the user activities.

		Traf	fic History 2005	03-22				
Date	Туре	Name	P	MAC	Pkts In	Bytes In	Pkts Out	Bytes Out
2005-03-22 19:12:21 +0800	LOGIN	user1@local.tv	192.168.1.143	00:D0:C9:42:37:20	0	0	0	D
2005-03-22 19:12:24 +0800	LOGOUT	user1@local.tv	192.168.1.143	00:D0:C9:42:37:20	3	252	3	252
2005-03-22 19:12:29 +0800	LOGIN	user2@local.tv	192.168.1.143	00:D0:C9:42:37:20	0	0	0	D
2005-03-22 19:12:32 +0800	LOGOUT	user2@local.tv	192.168.1.143	00:D0:C9:42:37:20	3	252	3	252
2005-03-22 19:13:51 +0800	LOGIN	user1@local.tv	192.168.1.1	00:D0:C9:60:01:01	0	Q	0	D

Ϋ́On-demand User Log

As shown in the following figure, each line is a on-demand user log record consisting of 13 fields, Date, System Name, Type, Name, IP, MAC, Pkts In, Bytes In, Pkts Out, Bytes Out, 1st Login Expiration Time, Account Valid Through and Remark, of user activities.

On-demand User Log 2007-11-26												
Date	System Name	Type	Name	IP .	MAC	Pkts	Bytes	Pits Out	Bytes Out	1st Login Expiration Time	Account Valid Through	Remark
1007-00-0 12-10-02	Var 104 404 20103	ಯರ್ಷವ್ರಜ್ಞಾನವರ	8429	J.L.C 0	(())0	-0-	v	V	ι	2017/11/28/01 58/05	Fonz	Fion 1
2007 11 25 14 58 10	Adriation de 2020s	esses in 1975	1941	1110	(* (* *) *) *)	-0-	0	0	(YER 108 12 58 11	Frank -	FL or 1
2013 23 1 28 E	1667 L NM 16708	Oreane (D. Dzer	e ta	1 7 7 0	(1)(1)(1)(1)(1)(1)	-0-	0	0	(2017-1-2018 5011	Cone	Fiss 3
100211) 17 8 9	1477-158 1984 2010 1	сульта в Дод Село	2k. /	JU	C.:C.:J:J:J:0	.0.	U	V	ι	2017-11-20 05 00 1.	l one	Lion C
1007-11-17 14 10 05	Assi:	يتعارف والحديا	1.14	JU		.0.	V	V	ι	2017/11/28/01 58:35	Fore	Elon 1
2017 25 14 38 40	83211-1 3M 20205	er e la company	113	1 7 7 0	(* (* *) *) *) *)	-0-	0	0	(YOTA UL YR UN RALAR	France	FL on 2
5002 - 55 2 - 50 - 7	1667 - 198 20100	Onesse O Cliver	56 F	1 1 11	1.21.2.12.12.11	н	н	н	1	4. 2-11-40.00.00.77	Lone	Linn /
1007-01-0 15 10-02	(17.155 1944) 21.113	of_lass_Login	a91a	196,310 1.1	Clathailachaidh.	.2.	v	v	ι	.louin	2 02-12-2 1 212-2	llana
1007-11-17 15-14-21	Assilve BM 20108	Of Tals Le on.	1961	192.168 1.6	C.(F.EE.C.E8	8285	31315	87	.235)	Nuc	1105 11 21 35.01.52	22,124.
2007 - 23	2140 3M	Of Term Term	1613	25 U.S. 1	en es intro to co	->-	0	0	(1	1007 1, 28 18 7 4 8	H
1000- (-1) 5 77 (-)	Victory Period	C_ ret_lagour	-r -	19 110 111	Later adda in	24	2.2	v	:10	loce.	2007-1-27	nghun.

Ϋ Roaming Out Traffic History

As shown in the following figure, each line is a roaming out traffic history record consisting of 14 fields, Date, Type, Name, NSID, NASIP, NASPort, UserMAC, SessionID, SessionTime, Bytes in, Bytes Out, Pkts In, Pkts Out and Message, of user activities.

 Roaming Out Traffic History 2005-03-22

 Date Type Name NASID NASIP NASPort UserMAC sessionID sessionTime Bytes In Bytes Out Pikts In Pikts Out Message

Ÿ Roaming In Traffic History

As shown in the following figure, each line is a roaming in traffic history record consisting of 15 fields, Date,

Type, Name, NSID, NASIP, NASPort, UserMAC, UserIP, SessionID, SessionTime, Bytes in, Bytes Out, Pkts In, Pkts Out and Message, of user activities.

Roaming In Traffic History 2005-03-22 Date Type Name NASID NASIP NASPort User/MAC UserIP SessionID SessionTime Bytes In Bytes Out Pikts In Pikts 0ut Message

Ϋ́ SIP Call Usage Log

The log provides the login and logout activities of SIP clients (device and soft clients) such as Start Time, Caller, Callee and Duration (seconds)

	SIP Call Usage Log						
Start Time	Caller	Callee	Duration (seconds)				

Ÿ Monthly Network Usage of Local User

The system keeps a cumulated record of the traffic data generated by each user in the latest 2 calendar months. As shown in the following figure, each line in a monthly network usage of local user record consists of 6 fields, **System Name**, **Connection Time Usage**, **Packets In**, **Bytes In**, **Packets Out** and **Bytes Out** of user activities.

Monthly Report 2007-11								
Username	Connection Time Usage	Packets In	Bytes In	Packets Out	Bytes Out			
user1	8 mins 42 secs	195	86.9K	202	23K			
user2	1 min 43 secs	27K	23.1M	21.3K	12.1M			
		(Total: 2)						

First Previous Next Last

- o Username: Username of the local user account.
- **Connection Time Usage:** The total time used by the user.
- o Pkts In/ Pkts Out: The total number of packets received and sent by the user.
- o Bytes In/ Bytes Out: The total number of bytes received and sent by the user.
- Ø **Download Monthly Network Usage of Local User:** Click on the **Download** button for outputting the report manually to a local database.

Monthly Network Usage of Local User					
Month	No. of Entries	Usage Data			
<u>2007-12</u>	0	(Download)			

A warning message will then appear. Click Save to download the record into .txt format.

File Do	wnload			Σ
2)	Some files can h suspicious, or yo file.	aim your computer. Iu do not fully trust fi	If the file informatic e source, do not a	in below looks pen or save this
	File nome:	2007-08.6xt		
	File type:	Text Document		
	From:	192.168.2.254		
	Would you like t	open the file or sev	e it to your compu	iter?
	Open	Save	Cancal	More Infa
	The second second	and the second se	- insta	-
	Strangery a set to	erore opening min ly	pe orme	

4.6.6 Notify Configuration

WHG301 can automatically send the notification of **Monitor IP Report**, **Traffic History**, **On-demand User Log**, **Session Log** and **AP status** to up to 3 particular e-mail address. The notification of AP Status is triggered by the event when a managed AP becomes unreachable while the other types of emails are sent periodically in given intervals such as 1 hour. A trial email is provided by the system for validation. In addition, the system supports recording Syslog of Traffic History, On-demand User Log and Session Log via external Syslog servers. In addition, the Session Log can be sent to a specified FTP server. Enter the related information and select the desired items and then apply the settings.

	E-mail N	otification C	onfiguration		
Send To	Monitor IP Report	Traffic History	On-demand User Log	Session Log	AP Status
Interval	1 Hour 💌	1 Hour 💌	1 Hour 💌	1 Hour 💌	N/A
Send Test Email	Send	Send	Send	Send	Send
Send From					
SMTP					
Auth Method	None	•			

	SYSLOG Co	onfiguration	
System Log	IP:	Port:	
On-demand User Log	IP:	Port:	
Session Log	IP:	Port :	

	FTP Server Settings
Session Log	IP: Port : Send Log every Hours "(Note: same as "Interval of Session Log" in the Notification E-mail Settings) Using Anonymous ③ Yes ○ No FTP Setting Test Send Test Log

Ϋ E-mail Notification Configuration:

- Ø Send To: Up to 3 e-mail address can be set up to receive the notification. These are the receiver's e-mail addresses. There are four kinds of notification to selection -- Monitor IP Report, Traffic History, On-demand User Log and AP Status, and check which type of notification to be sent.
- Ø Interval: The time interval to send the e-mail report.
- Ø Send Test Email: To test the settings immediately.
- Ø Send From: The e-mail address of the administrator in charge of the monitoring. This will show up as the

sender's e-mail.

- Ø SMTP: The IP address of the sender's SMTP server.
- Ø Auth Method: The system provides four authentication methods, Plain, Login, CRAM-MD5 and NTLMv1, or "None" to use none of the above. Depending on which authentication method selected, enter the

Account Name, Password and Domain.

- NTLMv1 is not currently available for general use.
- Plain and CRAM-MD5 are standardized authentication mechanisms while Login and NTLMv1 are Microsoft proprietary mechanisms. Only Plain and Login can use the UNIX login password. Netscape uses Plain. Outlook and Outlook express use Login as default, although they can be set to use NTLMv1.
- o Pegasus uses CRAM-MD5 or Login but which method to be used can not be configured.
- Ϋ Syslog Configuration: There are 3 types of Syslog supported: System Log, On-demand User Log, and Session Log. Enter the IP address and Port number to specify which and from where the report should be sent to.



When the number of a user's session (TCP and UDP) reaches the session limit specified in the policy, a record will be logged to this Syslog server.

Ϋ FTP Server Settings

Session Log: Log each connection created by users and tracking the source IP and destination IP. If Syslog is enabled, Session Log will be sent to the Syslog server automatically during every defined interval in Session Log email notification. Session Log allows uploading the log file to a FTP server periodically. The maximum log file size is 256K. The log file will be sent to the FTP server once the file size reaches its maximum size or periodical time interval.

4.7 Help

On the screen, the **Help** button is on the upper right corner.

Click *Help* to the **Online Help** window and then click the hyperlink of the items to get the information.

Online Help
Ontime Help Overview System Configuration Configuration Wizard System Information WAN1 Configuration WAN2 Configuration WAN2 Configuration WAN Traffic Settings LAN Port Mapping Service Zones User Authentication Authentication Configuration Authentication Server Configuration
Auth Method - POP3 Auth Method - POP3
Auth Method - LDAP Auth Method - NT Domain
Auth Method - ONDEMAND Auth Method - SIP

Appendix A. Accepting Payment via Authorize.Net

This section is to show independent Hotspot owners how to configure related settings in order to accept credit card payments via Authorize.Net, making the Hotspot an e-commerce environment for clients to pay for and obtain Internet access using their credit cards.





1. Setting Up

1.1 Open Accounts

To set up 4ipnet WHG301 to process credit card billing, the merchant owner will need two accounts (Internet Merchant account and Authorize.Net account).

If you are looking for a merchant account or Internet payment gateway to process transactions, you can fill out the Inquiry Form on http://www.authorize.net/solutions/merchantsolutions/merchantinquiryform/.

Authoriz	ze.Net	Your Gateway to IP Transactions™			
Merchants	Resellers	Developers	Resources	Company	
ome > <u>Merchants</u> >	Merchant Inquiry				
	ф (Merchant Inqui	N .		
		iner en an en an en agan	3		
	1	If you are looking for a l	merchant account and	d/or payment gateway to	
	,	AM - 5 PM Pacific time)	or fill out the form bel	437-0476 (MONDAy - FNDAy, 1 OW.	
		4			
		* Required field			
		First blance			
		First Name.			
		Last Name:		*	
		Company Name:			
		Job Title:			
		Address:			
		City:			
			Diseas Calanta 🔒		

1.2 Configure 4ipnet WHG301 using an Authorize.Net account

Please log in 4ipnet WHG301. User Authentication >> Authentication Configuration >> Click the server name On-demand User >> External Payment Gateway >> Click Configure >> External Payment Gateway >> Select Authorize.Net

	External Payment Gateway	y	
Authorize.Net	O PayPal	O Disable	
Author	ize.Net Payment Page Conf	iguration	
Merchant Login ID			
Merchant Transaction Key	•		
Payment Gateway URL	https://secure.authorize.net/gateway/transact.dll -		
Verify SSL Certificate	⊙ Enable ○ Disable		
Test Mode	○ Enable		
MD5 Hash	O Enable ③ Disable		

Some major fields are required:

Setting	Description	
Merchant Login ID	This is the "Login ID" that comes with the Authorize.Net account.	
Merchant Transaction Key	To get a new key, please log in Authorize.Net >> Click Settings and Profile >> Go to the "Security" section >> Click Obtain Transaction Key >> Enter "Secret Answer" >> Click Submit.	
Payment Gateway URL	https://secure.authorize.net/gateway/transact.dll (default gateway address)	
MD5 Hash	To enhance the transaction security, merchant owner can choose to enable this function and enter a value in the text box: " MD5 Hash Value ".	

8 Note: For detailed description, please see 4.2.1.6 Authentication Method – On-demand User.

1.3 Configure the Authorize.Net Merchant Account to Match the Configuration of 4ipnet WHG301

Settings of the merchant account on Authorize.Net should be matched with the configuration of 4ipnet WHG301:

Setting	Description	
MD5 HashTo configure "MD5 Hash Value", please log in Authorize.Net >> Click and Profile >> Go to the "Security" section >> Click MD5 Hash >> E "New Hash Value" & "Confirm Hash Value" >> Click Submit.		
Required Card Code	If the "Card Code" is set up as a required field, please log in Authorize.Net >> Click Settings and Profile >> Go to the "Security" section >> Click Card Code Verification >> Check the Does NOT Match (N) box >> Click Submit .	
Required Address Fields	After setting up the required address fields on the " Credit Card Payment Page Billing Configuration " section of 4ipnet WHG301, the same requirements must be set on Authorize.Net. To do so, please log in Authorize.Net >> Click Settings and Profile >> Go to the " Security " section >> Click Address Verification System (AVS) >> Check the boxes accordingly >> Click <i>Submit</i> .	

1.4 Test The Credit Card Payment via Authorize.Net

To test the connection between 4ipnet WHG301 and Authorize.Net, please log in 4ipnet WHG301. User Authentication >> Authentication Configuration >> Click the server *On-demand User* >> External Payment Gateway >> Click *Configure* >> External Payment Gateway >> Select *Authorize.Net* >> Go to "Authorize.Net Payment Page Configuration" section >> Enable the "Test Mode" >> Click *Try Test* and follow the instructions

	External Payment Gateway		
Authorize.Net	O PayPal	O Disable	
Author	ize.Net Payment Page Configu	iration	
Merchant Login ID			
Merchant Transaction Key			
Payment Gateway URL	https://secure.authorize.net/gateway/transact.dll		
Verify SSL Certificate	⊙ Enable ○ Disable		
Test Mode	● Enable ○ Disable Try Test .		
MD5 Hash	O Enable Disable		

2. Basic Maintenance

In order to maintain the operation, merchant owners will have to manage the accounts and transactions via Authorize.Net as well as 4ipnet WHG301.

2.1 Void A Transaction and Remove the On-demand Account Generated on 4ipnet WHG301

Sometimes, a transaction (as well as the related user account on 4ipnet WHG301) may have to be canceled before it has been settled with the bank.

a. To void an unsettled transaction, please log in Authorize.Net. Click Unsettled Transactions >> Locate the specific transaction record on the "List of Unsettled Transactions" >> Click the Trans ID number >> Confirm and click Void.

8 Note:

To find the on-demand account name, click Show Itemized Order Information on the "Order Information" page >> Username can be found in the "Item Description".

b. To remove the specific account from 4ipnet WHG301, please log in 4ipnet WHG301. User Authentication >> Authentication Configuration >> Click the server On-demand User >> On-demand Account List >> Click View >> On-demand Account List >> Click Delete on the record with the account name. Click Delete All to delete all users at once.

On-demand Account List					
Username	Password	Remaining Quota	Status	Remark	Delete All
<u>3r23</u>	qxr86b47	2 hr(s)	Normal		Delete

(Total:1) First Previous Next Last

2.2 Refund A Settled Transaction and Remove the On-demand Account Generated on 4ipnet WHG301

- a. To refund a credit card payment, please log in Authorize.Net. Click Virtual Terminal >> Select a Payment Method >> Click Refund a Credit Card >> Payment/Authorization Information >> Type information in at least three fields: Card Number, Expiration Date, and Amount >> Confirm and click Submit.
- b. To remove the specific account from 4ipnet WHG301, please log in 4ipnet WHG301. User Authentication >> Authentication Configuration >> Click the server On-demand User >> On-demand Account List >> Click View >> On-demand Account List >> Click Delete on the record with the account name.

2.3 Find the Username and Password for A Specific Customer

Please log in Authorize. Net. Click Unsettled Transactions >> Try to locate the specific transaction record on the "List of Unsettled Transactions" >> Click the Trans ID number >> Click Show Itemized Order Information in the "Order Information" section >> Username and Password can be found in the "Item Description".

2.4 Send An Email Receipt to A Customer

If a valid email address is provided, an email receipt with payment details for each successful transaction will be automatically sent to the customer via Authorize.Net. To change the information on the receipt for customer, please © 2008 4IPNET, INC. log in 4ipnet WHG301. User Authentication >> Authentication Configuration >> Click the server On-demand User >> External Payment Gateway >> Click *Configure* >> External Payment Gateway >> Select *Authorize.NET* >> Scroll down to Client's Purchasing Record section of the page >> Type in information in the text boxes: "Description" and "E-mail Header" >> Confirm and click *Apply*.

Client's Purchasing Record		
Starting Invoice Number	HotspotYK 00000004 * Change the No	umber
Description (Item Name)	Internet Access	*
Title for Message to Seller	Special Note to Seller	×

2.5 Send an Email Receipt for Each Transaction to the Merchant Owner

A copy of email receipt with payment details for each successful transaction will also be automatically sent to the merchant owner/administrator via Authorize.Net.

To configure the contact person who will receive a receipt for each transaction, please log in Authorize.Net. Click **Settings and Profile** >> Go to the **"General"** section >> Click **Manage Contacts** >> Click **Add New Contact** to >> Enter necessary contact information on this page >> Check the **"Transaction Receipt"** box >> Click **Submit**.

3. Reporting

During normal operation, the following steps will be necessary to generate transaction reports.

3.1 Transaction Statistics by Credit Card Type during the Period.

Please log in Authorize.Net. >> Click **Reports** >> Check **"Statistics by Settlement Date"** radio button >> Select **"Transaction Type"**, **"Start Date"**, and **"End Date"** as the criteria >> Click *Run Report*.

3.2 Transaction Statistics by Different Location

a. To deploy more than one 4ipnet WHG301, the way to distinguish transactions from different locations is to make the invoice numbers different. To change the invoice setting, please log in 4ipnet WHG301. User
 Authentication >> Authentication Configuration >> Click the server On-demand User >> External
 Payment Gateway >> Click Configure >> External Payment Gateway >> Select Authorize.NET >> Scroll down to "Client's Purchasing Record" section of the page >> Check the "Reset" box >> A location-specific ID (for example, Hotspot-A) can be used as the first part of "Invoice Number" >> Confirm and click Apply.

Client's Purchasing Record		
Starting Invoice Number	HotspotYK 00000004 * Change the Number	
Description (Item Name)	Internet Access *	
Title for Message to Seller	Special Note to Seller 🔹	
b. Please log in Authorize.Net >> Click Search and Download >> Specify the transaction period (or ALL Settled, Unsettled) in "Settlement Date" section >> Go to "Transaction" section >> Enter the first part of invoice number plus an asterisk character (for example, Hotspot-A*) in the "Invoice #" text box >> Click Search >> If transaction records can be found, the number of accounts sold is the number of search results >> Or, click Download To File to download records and then use MS Excel to generate more detailed reports.

3.3 Search for The Transaction Details for A Specific Customer

Please log in Authorize.Net. Click **Search and Download** >> Enter the information for a specific customer as criteria >> Click **Search** >> Click the **Trans ID** number to view the transaction details.

8 Note: For more information about Authorize.Net, please see http://www.authorize.net.

4. Examples of Making Payment for End Users

Step 1: Click the link below the login window to pay for the service by credit card via Authorize.Net.



Step 2: Choose I agree to accept the terms of use and click Next.

Ve may collect and store information:	the following personal
email address, physical c card numbers and transact your activities on the In us,	ontact information, credit ional information based on ternet service provided by
If the information you pr we may ask you to send us (such as your driver lice statement, and/or a recen information confirming yo additional questions to h	ovide cannot be verified, additional information nse, credit card t utility bill or other ur address), or to answer elp verify your
information.)	<u>×</u>
⊙ lag	jree.
O Idi	sagree.
Back	Next

Step 3: Please fill out the form and Click Submit to send out this transaction. There will be a confirm dialog box.

Plate Pl.	an	Price	
O 2 hrs 0 m	ins	\$5	
💿 6 hrs 0 m	ins	\$8	
O 12 hrs 0 r	nins	\$ 12	
O 600 Mbyte		\$5	
O 1000 Mby	to	\$8	
O 2000 Mby	te	\$ 12	
Credit Card	6 Co	ntact 1	Informatio
Credit Card Number	4583123	4567890	1
Credit Card Expiration Date	1208		T(MMYY)
Card Type	Visa		
Card Code	527		-
E-mail	1223@	mos.com	
First Name	Tom		•
Lasthiama	Lee		*
Casturation			
Company			
Company Address			
Company Address City			
Company Address City State			
Company Address City State Zip			
Company Address City State Zip Country			
Company Address City State Zip Country Phone			

Step 4: Please confirm the data and the click *OK* to go on the transaction or click *Cancel* to revise the data or cancel this transaction. After clicking OK, there will be another dialog box showing up to confirm this transaction again.

Microsof	t Internet Explorer 🛛 🔀
2	Please check the data you input;
•	Credit Card Number: 4567123456780000 Credit Card Expiration Date: 1208 Card Type: Visa Card Code: 527 E-mail: 1223@yahoo.com Room Number: First Name: Tom Last Name: Lee Company: Address: City: State: Zip: Country: Phone: Fax:
	Do you want to continue the credit card payment process?

Step 5: Click OK to complete the process or click Cancel to revise the data or cancel this transaction.



Step 6: Click Start Internet Access to use the Internet access service.

Login ID	P7KP@ondensand
Password	SHBMYPC7
Price	\$ 8.00
Usage	6 firs 8 mina
ESSID : YK-	Cafe-Credit-Card
Vaild To Use Unt	1 : 2006/04/04 14:03:04
Before closing this window, please v	Note: write down your username and password.
Start In	ernet Access



The clients must fill in the correct credit card number and expiration date. Card code is the last 3digits of the security code located on the back of your credit card. If clients choose to enter the e-mail addresses, clients will receive confirmation letters for reference.

Appendix B. Accepting Payment via PayPal

This section is to show independent Hotspot owners how to configure related settings in order to accept payments via PayPal, making the Hotspot an e-commerce environment for clients to pay for and obtain Internet access using their PayPal accounts or credit cards.



1. Setting Up

As follows are the basic steps to open and configure a "Business Account" on PayPal.

1.1 Open An Account

Step 1: Sign up for a PayPal Business Account and login.

Here is a link: <u>https://www.paypal.com/cgi-bin/webscr?cmd=_registration-run</u>

Anyone with an email address can use PayPal to send and receive money online. <u>What is PayPal?</u> Personal Account Ideal for shopping online. It's a free, secure, and fast way to send payments. You can also accept bank account or PayPal balance-funded payments for free and a limited number of credit or debit card payments per year for a low free. Learn more Premier Account Perfect for buying and selling on eBay or merchant websites. Accept all payment types for low free. Do business under your own name. Business Account The right choice for your online business. Accept all payment types for low frees. Do business under a company or group name. Learn more Member Log-In Forgot your email address? Forgot your password?	
Personal Account Ideal for shopping online. It's a free, secure, and fast way to send payments. You can also accept bank account or PayPai balance-funded payments for free and a limited number of credit or debit card payments per year for a low free. Learn more Premier Account Perfect for buying and selling on eBay or merchant websites. Accept all payment types for low free. Do business under your own name. Business Account The right choice for your online business. Accept all payment types for low frees. Do business under a company or group name. Learn more Member Log-In Forgot your email address? Forgot your password?	have a Account?
Ideal for shopping online. It's a free, secure, and fast way to send payments. You can also accept bank account or PayPai balance-funded payments for free and a limited number of credit or debit card payments per year for a low free. Learn more Premier Account Perfect for buying and selling on eBay or merchant websites. Accept all payment types for low free. Do business under your own name. Business Account The right choice for your online business. Accept all payment types for low frees. Do business under a company or group name. Learn more Member Log-In Forgot your email address? Forgot your password?	our account
Premier Account Perfect for buying and selling on eBay or merchant websites. Accept all payment types for <u>low frees</u> . Do business under your own name. Business Account The right choice for your online business. Accept all payment types for <u>low frees</u> . Do business under a company or group name. <u>Learn more Member Log-In Forgot your email address? Forgot your password? </u>	
Perfect for buying and selling on eBay or merchant websites. Accept all payment types for <u>low frees</u> . Do business under your own name. Business Account The right choice for your online business. Accept all payment types for <u>low frees</u> . Do business under a company or group name. <u>Learn more Member Log-In Forgot your email address? Forgot your password? </u>	
Business Account The right choice for your online business. Accept all payment types for <u>low</u> <u>frees</u> . Do business under a company or group name. <u>Learn more Member Log-In Forgot your email address? Forgot your password? Forgot your password? </u>	
The right choice for your online business. Accept all payment types for <u>low</u> <u>from</u> . Do business under a company or group name. <u>Learn more</u> Member Log-In <u>Forgot your email address?</u> Forgot your password?	
Member Log-In Forgot your email address? Forgot your password?	
Member Log-In Forgot your email address? Forgot your password?	

Step 2: Edit necessary settings in "Website Payment Preferences"

Click Profile >> Click Website Payment Preferences in the Selling Preferences section

Password

PayPal

Log Out | Help | Security Center

Log In



Administrators should scroll down to edit each setting as shown in the table below. To activate all the changes, please click *Save* at the end of the page.

Settings	Screenshots			
Auto Return (On)	PayPal Log Out Help Security Center			
Return URL (Redirect Webpage)	My Account Send Maney Request Money Merchant Tools Auction Tools			
Type http://www.www.com or other	Overview Add Funds Withdraw History Resolution Center Profile			
URL.	Website Payment Preferences Dade to Profile Summery			
	Auto Return for Website Payments Auto Return for Website Payments brings your buyers back to your website immediately after payment completion. Auto Return applies to PayPal Website Payments, including Buy Now, Donations, Subscriptions, and Shopping Cart. Learn More			
	Auta Returni ⊛0n ⊘011″			
	Return URL: Enter the URL that will be used to redirect your customers upon payment completion. This URL must meet the guidelines detailed below. Learn More			
	Return URL: http://www.com			
	Return URL Requirements: The following items are required in order to set up Auto Raturn.			
Payment Data Transfer (On)	Payment Data Transfer (optional) Payment Data Transfer allows you to receive notification of successful payments as they are made. The use of Payment Data Transfer depends on your <u>system configuration</u> and your Return URL. Please note that in order to use Payment Data Transfer, you must turn on Auto Return.			
	Payment Data © On Transfer: O Off			
Block Non-encrypted Website Payment (Off)	Encrypted Website Payments Using encryption enhances the security of website payments by decreasing the possibility that a 3rd party could manipulate the data in your button code. If you plan on only using encrypted buttons you can block payments from non-encrypted ones.			
	Learn more about Encrypted Website Payments			
	Note: If you enable Encrypted Website Payments, all of your Buy Now, Donations, and Subscriptions buttons must be encrypted via one of the following methods:			
	 Using the <u>Button Factory</u> with the security settings enabled. 			
	 Using your own code, you encrypt all website payments before sending them to PayPal. 			
	By enabling this feature, any Buy Now, Donation, or Subscription button that is not encrypted will be rejected by PayPal.			
	Block Non-encrypted () On Website Payment: () Off			
PayPal Account Optional (Off)	PayPal Account Optional When this feature is turned on, your customers will go through an optimized checkout experience. This feature is available for Buy Now, Donations, and Shopping Cart buttons, but not for Subscription buttons. <u>Learn More</u>			
	PayPal Account O On Optional: Off			
Contact Telephone Number (Off) Click Save.	Contact Telephone Number When you activate this option, your customers will be asked to include a Contact Telephone Number with their payment information. <u>Learn More</u>			
	Note: Selecting On (Required Field) could have a negative effect on buyer conversion.			
	Contact Telephone O On (Optional Field) O On (Required Field) O Off (PayPal recommends this option)			
	Save Cancel			

1.2 Configure 4ipnet WHG301 with a PayPal Business Account

Please log in 4ipnet WHG301:

User Authentication >> Authentication Configuration >> Click the server *On-demand User* >> External Payment Gateway >> Click *Configure* >> External Payment Gateway >> Select *PayPal*

	External Payment G	atoway	
O Authorize Net			
	PayPal Payment Page Co	onfiguration	
Business Account	test_business_account(ghotmail.com	
Payment Gateway URL	https://www.paypal.com/	cgi-bin/webscr	•
dentity Token			× .
Verify SSL Certificate	Enable Disable		
Currency	USD (U.S. DoRet)	w	

Three fields are required:

Setting	Description				
Business Account ID	This is the "Login ID"	" (email address) that is associated with the PayPal			
	Business Account.				
Payment Gateway URL	https://www.paypal.c	com/cgi-bin/webscr (default URL for PayPal)			
Identity Token	Please log in PayPa	I after saving the above settings >> Click Profile			
	>> Click Website Pa	ayment Preferences in the Selling Preferences			
	section >> Scroll dov	wn to the section, Payment Data Transfer			
	(optional).				
	Payment Data Transfe Payment Data Transfer allo are made. The use of Paym your Return URL. Please no on Auto Return. Payment Data () Transfer: Identity Teken: The Copy the Identity To Payment Page Con	er (optional) ws you to receive notification of successful payments as they ment Data Transfer depends on your <u>system configuration</u> and te that in order to use Payment Data Transfer, you must turn on off ConLV-EMdUbg&O_3y78LG1C&Gdxpf-cdf&kCo-KBd0f5SQcKZkCBQnu Oken in the above page to the section " PayPal figuration" of 4ipnet WHG301.			
		PayPal Payment Page Configuration			
	Business Account	test_business_account@hotmail.com -			
	Payment Gateway URL	https://www.paypal.com/cgi-bin/webscr			
	Identity Token	FIYOqLV-EMdUbg8D_3y7kLG1C8iGdxpF-z6f6kCol-			
	Verify SSL Certificate	O Enable Disable			
	Currency	USD (U.S. Dollar)			

1.3 Requirements for Building a Secure PayPal-based E-Commerce Site

To deploy the PayPal function properly, it is required that the merchant register an **Internet domain name** (for example, <u>www.StoreName.com</u>) for this subscriber gateway device.

	System Informa	tion	
System Name	[]
Administrator Info	Sorry! The service is tempor	anly unavailable.	}
	(It'll appear when internet conner	dion fails)	
Device Name	www.StoreName.com	(FQDN for this device)	

In addition, it is necessary to sign up for a **SSL certificate**, licensed from a "**Certificate Authority**" (for example, **VeriSign**), for this registered Internet domain name.

Thus, by meeting these two requirements, it will allow end customers or subscribers to pay for the Internet access in a securer and convenient way.

2. Basic Maintenance

In order to maintain the operation, the merchant owner will have to manage the accounts and payment transactions on PayPal website as well as 4ipnet WHG301.

2.1 Refund a completed payment and remove the on-demand account generated on 4ipnet WHG301

(1) To refund a payment, please log in PayPal >> Click **History** >> Locate the specific payment listing in the activity history log >> Click **Details** of the payment listing >> Click **Refund Payment** at the end of the details page >> Type in information: **Gross Refund Amount** and/or **Optional Note to Buyer** >> Click **Submit** >> Confirm the details and click **Process Refund**

(2) To remove the specific account from 4ipnet WHG301, please log in 4ipnet WHG301:

User Authentication >> Authentication Configuration >> Click the server *On-demand User* >> On-demand Account List >> Click *View* >> On-demand Account List >> Click *Delete* on the record with the account ID. Click *Delete All* to delete all users at once.

	On-demand Users List					
Username	Password	Remaining Time/Volume	Status	Expiration Time	Delete All	
<u>V34Q</u>	KP23E64C	2 hour	Normal	2007/02/01- 13:35:41	Delete	

2.2 Find the username and password for a specific customer

(1) To find the username, please log in PayPal >> Click **History** >> Locate the specific payment listing in the activity history log >> Click **Details** of the payment listing >> Username can be found in the **"Item Title"** field

(2) To find the password associated with a specific username, please log in 4ipnet WHG301:

User Authentication >> Authentication Configuration >> Click the server *On-demand User* >> On-demand Account List >> Click *View* >> On-demand Account List. Search for the specific username. Password can be found in the same record

	On-demand Users List						
Username	Password	Remaining Time/Volume	Status	Expiration Time	Delete All		
<u>V34Q</u>	KP23E64C	2 hour	Normal	2007/02/01- 13:35:41	<u>Delete</u>		

8 Note: As stated by PayPal, you can issue a full or partial refund for any reason and for **60 days** after the original payment was sent. To find the on-demand account name for a specific payment, click *Details* of the payment listing in the activity history log >> **Username** can be found in the "**Item Title**" field.

2.3 Send an email receipt to a customer

If a valid email address is provided, an email receipt with payment details for each successful transaction will be automatically sent to the customer via PayPal. To change the information on the receipt for customer, please log in 4ipnet WHG301:

User Authentication >> Authentication Configuration >> Click the server *On-demand User* >> On-demand User Server Configuration >> External Payment Gateway >> Click *Configure* >> External Payment Gateway >> Select *PayPal* >> Go to "Client's Purchasing Record" section >> Type in information in the text boxes: Invoice Number and Description (Item Name) >> Confirm and click *Apply*



2.4 Send an email receipt for each transaction to the merchant

A copy of email receipt with payment details (including available message note from buyer) for each successful transaction will also be automatically sent to the merchant owner/administrator via PayPal.

3. Reporting

During normal operation, the following steps will be necessary to generate transaction reports.

3.1 Transaction activity during a period

(1) Please log in PayPal >> Click History >> Choose activity type from the Show field as the search criteria

>> Specify the dates (From and To fields) for the period >> Click Search

	View up	to three mo	nths of		Gew this			
	monthly	account	stateme	nts 🗀				
	Search							
	Shewi	All Activity	- Simple	View	*			
0	Within:	The Past (ay 👻					
۲	From:	12 /	31	/ 2006				
		Month	Day	Year				
	Te:	1 /	30	/ 2007		earch		
		Month	Day	TRAC				

3.2 Search for the transaction details for a specific customer

Please log in PayPal >> Click **History** >> Click **Advanced Search** >> Enter the name for a specific customer as criteria in the **Search For** field and Choose Last Name or First Name in the **In** field >> Specify the time period >> Click **Submit** >> Click **Details** to view the transaction details

	Overview	Add Pands	Withdraw	History	Resolution Cent	ter Profile
History	Histo	ry				
iownload My History ispute Reports idvanced Search	Vie	w up to three mon athly account st	tatements	View this		
History						
Search For:	HotSpotOC	1000001	In:	oice ID	~	l.
🔿 Within: 🔤	The Past D	ay 💌				
Section ● Se	12 /	31 /	2006 To:	1	/ 30 /	2007
N -	Ionth	Day	Year	Month	Day	Year
						Submit



4. Examples of Making Payment for End Users

Step 1: Click the link below the login window to pay for the service via PayPal.



Step 2: Choose *I agree* to accept the terms of use and click *Next*.

Ve may colle	ct and st	ore the following personal	^
information:	12 20	21	
email addres:	s, physic	al contact information, credit	1
card numbers	and tran les on th	sactional information based on a Internet service provided by	
US.	108 04 04	e incenses service provided by	
If the infor	sation vo	u provide cannot be verified.	
ve may ask y	on to sen	d us additional information	
(such as you	r driver	license, credit card	
statement, a	ad/or a r	ecent utility bill or other	
additional a	confirmin nestions	g your address), or to answer to help verify your	
information.)	to help terrify you	¥
	۲	l agree.	
	0	l disagree.	
	1	Back Next	

Step 3: Please fill out the form and Click Submit to send out this transaction. There will be a confirm dialog box.

	0	2 hrs 0 mins 3 hrs 0 mins	EUR 2 EUR 3
	0	300 Mbyte	EUR 5
		Back	Buy Now
Note:			
s C	ecurely o licking o nake payr	nline using PayPal n "Buy Now" button, ment.	account, a credit card or bank account, you will be redirected to PayPai's site to
B, P P Y	lease do ayment c ou are au ogin ID a	onfirmation page. I formatically redired nd Password.	takes about 30 seconds or more before ted back to our website with a set of
n B. P yv L	tease do ayment c ou are au ogin ID a ternet I	onfirmation page. I tomatically redired ind Password. xplorer	takes about 30 seconds or more before ted back to our website with a set of

Step 4: You will be redirected to PayPal website to complete the payment process.

	YK Cafe			PayPal
	Enter Payme	ent Information	nin liseite riinii i'rifele	IIA. 11 1 PP
	•ho t=a-Fa			cure Transaction 🔒
	Payment Cor		Quantity	Piles
	W LE OSS TOELTOC.	-00822 BC FK Care (LINFS LI TITIS,	1 Cububut	42 00 LD4
			Sub-Losi:	42 0. LOC
	Pagesti UN 6	East With PoyPol an and model Ven Lante reversae	y na Trechiel influ	
	YK Cafe			RayPal
	Login Review	Elena		
	Review You	ur Payment		
			-	
	Payment For		Quantity	Pric
	Cireless Internet	t access at (< 1914 (2 * s 0 mins)	1	K2.00 EJ
				CO 10 EU
			Tatal Amount	\$2.00 EL
	Cancel and Ret im	TO Version		Ρεγ
	YK Cafe			RayPal
	Yo	u Made A Payment		
		Victory symmetry for ex-	tt 10- nav been om net al.	
		YO LARE DOW 191	ng reciracited to YK Cote	
		If you are not redirected	d within 10 seconds <u>allokinere</u> .	
tep 5: Click Start	Internet Acc	ess to use the Internet	access service.	
		Login ID	KM7B@ondemand	
		Password	6288C7X7	
		Price	EUR 2.00 (Tak EUR 0.00)	
		Usage	2 hrs 0 mins	
		ESSID	YK-Cafe-TEST2	
		Your first time login must b	e done before 2007/01/31 18:35:28	
		The account is valid wi Please write down our log	thin 2 days after your first login. In 1D and Password immediately!	

8 Note:

- (a) Payment is accepted via PayPal. PayPal enables you to send payments securely online using PayPal account, a credit card or bank account. Clicking on *Buy Now* button, you will be redirected to PayPal's site to make payment.
- (b) Please do not manually close the browser when you reach PayPal's payment confirmation page. It takes about 30 seconds or more before you are automatically redirected back to our website with a set of Login ID and Password.

Start Internet Access

Appendix C. Service Zone Deployment Example

§ Port-Based Service Zone

In **Port-Based** mode, each LAN port can only serve traffic from one Service Zone. An example of network application diagram is shown as below: one Service Zone for **Staff** and one for **Guests**.



The switches deployed under WHG301 in Port-Based mode must be Layer 2 switches only.

Ϋ Configuration Steps for Port-Based Service Zones:

Step 1: Configure Service Zone 1 for Guests

Assume that LAN1 is assigned to the Service Zone 1 (SZ1) for Guests. Click the System Configuration menu and select the Service Zones tab. Click *Configure* of SZ1.

Service Zone Settings							
Service Zone Name	Port Map	S SID	WLAN Encryption	Applied Policy	Default Authentication	Status	Details
Default		4ipn et	None	Policy 1	Server 1	Enable	Configure
SZ1		4ipn et-1	None	Policy 1	Server 1	Disable	Configure

Step 2: Configure Basic Settings for SZ1

Check the *Enable* radio button of *Service Zone Status* to activate SZ1. Enter a name for SZ1 (e.g. "Guests") in the *Service Zone Name* field.

	Basic Settings						
Service Zone Status	Enable O Disable						
Service Zone Name	Guests						
	Operation Mode 💿 NAT 🔿 Router						
Network Settings	IP Address : 192.168.2.254 *						
	Subnet Mask : 255.255.255.0 *						

Step 3: Configure Authentication Settings for SZ1

Check the *Enable* radio button to enable *Authentication Required for the Zone*.

Check the *Default* button and *Enabled* box of *Guest Users* to set **ONDEMAND** authentication method as default. Disable all other authentication options. Then, click *Apply* to activate the settings made so far. A warning message "You should restart the system to activate the changes." will appear at the bottom of the page. Do NOT restart the system until you have completed all the configuration steps.

Authentication Settings								
Authentication Status	💿 Enable 🔘	Enable Obisable						
	Auth Option	Auth Database	Postfix	Default	Enabled			
	Server 1	LOCAL	local	0				
	Server 2	POP3	рор3	0				
Authentication Options	Server 3	RADIUS	radius	0				
	<u>Server 4</u>	LDAP	Idap	0				
	<u>On-demand</u> <u>User</u>	ONDEMAND	ondemand	۲	>			
	<u>SIP</u>	SIP	N/A	0				

Step 4: Configure LAN Port Mapping for SZ1

Select the LAN Port Mapping tab from the *System* menu to enter the LAN Ports and Service Zone Mapping page. Select *Guests* from the drop-down list box of LAN1. Click *Apply* to save the selection.



A warning message "You should restart the system to activate the changes." will appear at the bottom of the

Service Zone Port Role Setting Select Service Zone Mode
Ort Based ○ Tag Based Choice Of Port Role LAN5 LAN6 LAN7 LAN8 Default Default 🗸 Default Default Default Default Default Guest LAN1 LAN2 LAN3 LAN4 You should restart the system to activate the changes. Restart

page. Do NOT restart the system until you have completed all the configuration steps.

LAN1 is now configured for Guests.

Step 5: Configure Service Zone 2 for Staff

Assume that LAN2 is assigned to the Service Zone 2 (SZ2) for Staff. Select the Service Zones tab and click *Configure* of SZ2.

	Service Zone Settings							
Service Zone Name	Port Map	SSID	WLAN Encryption	Applied Policy	Default Authentication	Status	Details	
Default		4ipn et	None	Policy 1	Server 1	Enable	Configure	
Guest		4ipn et-1	None	Policy 1	On-demand U ser	Enable	Configure	
SZ2		4ipn et-2	None	Policy 1	Server 1	Disable	Configure	

Step 6: Configure Basic Settings for SZ2

Check the *Enable* radio button of *Service Zone Status* to activate SZ2.

Enter a name for SZ2 (e.g. "Staff") in the Service Zone Name field.

	Basic Settings
Service Zone Status	● Enable
Service Zone Name	Staff
Network Settings	Operation Mode NAT Router IP Address : 192.168.3.254 Subnet Mask : 255.255.0

Step 7: Configure Authentication Settings for SZ2

Check the Enable radio button to enable Authentication Required for the Zone.

Check the *Default* button and *Enabled* box of *Server 1* to set LOCAL authentication method as default. Disable all other authentication options. Then, click *Apply* to activate the settings made so far. A warning message "You should restart the system to activate the changes." will appear at the bottom of the page. Do NOT restart the system until you have completed all the configuration steps.

Authentication Settings									
Authentication Status	💿 Enable 🔘	Enable							
	Auth Option	Auth Database	Postfix	Postfix Default					
	Server 1 LOCAL		local	۲	✓				
	<u>Server 2</u>	POP3	рор3	0					
Authentication Options	Server 3	RADIUS	radius	0					
	Server 4	LDAP	Idap	0					
	<u>On-demand</u> <u>User</u>	ONDEMAND	ondemand	0					
	<u>SIP</u>	SIP	N/A	0					

Step 8: Configure LAN Port Mapping for SZ2

Select the LAN Port Mapping tab from the *System* menu to enter the LAN Ports and Service Zone Mapping page. Select *Staff* from the drop-down list box of LAN2. Click *Apply* to save the selection.



A warning message **"You should restart the system to activate the changes."** will appear at the bottom of the page. Click the hyperlink of **Restart** to restart the system and activate all configurations.



Step 9: Restart the System

A confirmation message of "**Do you want to restart the system?**" will appear. Click **Yes** to start the restarting process. A confirmation dialog box will then pop out. Click **OK** to continue.

Do you want to RESTART the system?						
YES NO						



Once the settings of two Service Zones are completed, the configured result will be displayed in the **Service Zone Settings** page: **SZ1** and **SZ2** are both enabled.

		S	ervice Zo	ne Set	tings		
Service Zone Name	Port Map	SSID	WLAN Encryption	Applied Policy	Default Authentication	Status	Details
Default		4ipn et	None	Policy 1	Server 1	Enable	Configure
Guest		4ipn et-1	None	Policy 1	On-demand U ser	Enable	Configure
Staff		4ipn et-2	None	Policy 1	Server 1	Enable	Configure

§ Tag-Based Service Zone

VLAN tags carried within message frames. An example of network application diagram is shown as below: one Service Zone for **Staff** and another for **Guests**.



The switch deployed under WHG301 in **Tag-Based** mode must be a VLAN switch only.

Ϋ Configuration Steps for Tag-Based Service Zones:

The following example assumes the system is in factory default status and just powered up.

Step 1: Set Tag-Based mode

1

Click the **System** menu and select the **LAN Port Mapping** tab. Select **Tag-Based** mode and click **Apply**. A warning message **"You should restart the system to activate the changes."** will appear at the bottom of the page. Do NOT restart the system until you have completed all the configuration steps.



Step 2: Configure Service Zone 1 for Staff

Select the Service Zones tab and click Configure of SZ1.

			Servio	e Zone	Settings		
Service Zone Name	VLAN Tag	S SID	WLAN Encryption	Applied Policy	Default Authentication	Status	Details
Default		4ipne t	None	Policy 1	Server 1	Enable	Configure
Guest	1	4ipne t-1	None	Policy 1	On-demand Use r	Enable	Configure
Staff	2	4ipne t-2	None	Policy 1	Server 1	Enable	Configure

Step 3: Configure Basic Settings for SZ1

Check the Enable radio button of Service Zone Status to activate SZ1.

Enter a name for SZ1 (e.g. "Employee") in the Service Zone Name field.

Enter a VLAN tag for SZ1 (e.g. "1111") in the VLAN Tag field.

Basic Settings				
Service Zone Status				
Service Zone Name	Employee			
Natural Cattings	VLAN Tag 1111 (range : 1 ~ 4094.) Operation Mode			
Network Settings	IP Address : 192.168.2.254 *			
	Subnet Mask: 255.255.255.0 *			

Step 4: Configure Authentication Settings for SZ1

Check the Enable radio button to enable Authentication Required for the Zone.

Check the *Default* button and *Enabled* box of *Server 1* to set LOCAL authentication method as default. Disable all other authentication options.

Authentication Settings									
Authentication Status	💿 Enable 🔘	Enable Disable							
	Auth Option	Auth Database	Postfix	Default	Enabled				
	<u>Server 1</u>	LOCAL	local	۲	<				
	Server 2	POP3	рор3	0					
Authentication Options	Server 3	RADIUS	radius	0					
	Server 4	LDAP	Idap	0					
	<u>On-demand</u> <u>User</u>	ONDEMAND	ondemand	0					
	<u>SIP</u>	SIP	N/A	0					

Step 5: Set Policy SZ1

Select **Policy 1** from the drop-down list box.

Click *Apply* to activate the settings made so far. A warning message "You should restart the system to activate the changes." will appear at the bottom of the page. Do NOT restart the system until you have completed all the configuration steps.

Group Permission for this Service Zone	Configu	re
Default Policy in this Service Zone	Policy 1 💌	Edit System Policies
Email Message for Login Reminding	⊙ Enable ○ Disable	Edit Mail Message

Step 6: Configure Service Zone 2 for Guests

Follow **Step 2** to **Step 5** to configure SZ2.

	Basic Settings
Service Zone Status	● Enable ○ Disable
Service Zone Name	Guest
Network Settings	VLAN Tag 222 • (range : 1 ~ 4094) Operation Mode • NAT • Router IP Address : 192.168.12.254 • Subnet Mask : 255.255.255.0 •

In the Authentication Settings section, check the *Default* button and *Enable* box of *Guest Users* to set **ONDEMAND** authentication method as default. Disable all other authentication options.

Authentication Settings								
Authentication Status	💿 Enable 🔘	Enable Oisable						
	Auth Option	Auth Database	Postfix	Default	Enabled			
	Server 1	LOCAL	local	0				
	Server 2	POP3	рор3	0				
Authentication Options	Server 3	RADIUS	radius	0				
	Server 4	LDAP	Idap	0				
	<u>On-demand</u> <u>User</u>	ONDEMAND	ondemand	۲	V			
	<u>SIP</u>	SIP	N/A	0				

Step 7: Restart the System

Click *Apply* to activate the settings. A warning message "You should restart the system to activate the changes." will appear at the bottom of the page. Click the hyperlink of **Restart** to restart the system and activate all changes you have made.

Group Permission for this Service Zone	Configu	re
Default Policy in this Service Zone	Policy 1 💌	Edit System Policies
Email Message for Login Reminding	⊙ Enable ○ Disable	Edit Mail Message

A confirmation message of **"Do you want to restart the system?"** will appear. Click **Yes** to start the restarting process. A confirmation dialog box will then pop out. Click **OK** to continue.

		Do you want to RESTART the system?	
		YES NO	-
\land	Please do not interrupt the	e system during the restarting process	

Once the settings of two Service Zones are completed, the configured result will be displayed in the **Service Zone Settings** page: **SZ1** and **SZ2** are both enabled.

			Servio	ce Zone	Settings		
Service Zone Name	VLAN Tag	S SID	WLAN Encryption	Applied Policy	Default Authentication	Status	Details
Default		4ipne t	None	Policy 1	Server 1	Enable	Configure
Employee	1111	4ipne t-1	None	Policy 1	Server 1	Enable	Configure
Guest	222	4ipne t-2	None	Policy 1	On-demand Use r	Enable	Configure

Appendix D. Proxy Setting

Basically, a proxy server can help clients access the network resources more quickly. This section presents basic examples for configuring the proxy server settings of WHG301.

§ Using Internet Proxy Server

The first scenario is that a proxy server is placed outside the LAN environment or in the Internet. For example, the following diagram shows that a proxy server of an ISP will be used.



Follow the following steps to complete the proxy configuration:

- Step 1. Log into the system by using the *admin* account.
- Step 2. Network >> Proxy Server >> External Proxy Servers page. Add the IP address (leaving it blank means any IP address) and port number of the proxy servers into External Proxy Servers setting. Enable the Built-in Proxy Server. Click Apply to save the settings.

External Proxy Server						
ltem	Server IP		Port			
1			6588			
2			8080			
3			8023			
4			3128			
5						
6						
7						
8						
9						
10						
	Internal Proxy Server					
	Built-in Proxy Server O Enabled Disabled					

Step 3. Make sure that the proxy server settings match with at least one of the proxy server setting of the system – for example, in this case, 203.125.142.1:**3128** matches with blank:**3128**.

Automatic configu	ation ation may override manual settings. To ensur nos, disable automatic configuration	e the
Automatically of	etect settings	
	onfiguration script	
Address	oningeration Script	
Proxy server		
	ver for your LAN (These settings will not apply	v to
Use a proxy se dial-up or VPN	onnections).	
Use a proxy se dial-up or VPN Addr <u>e</u> ss:	Port: Advance	ed
Use a proxy se dial-up or VPN Addr <u>e</u> ss:	y server for local addresses	ed

Proxy Set	ttings		×
Servers			_
	Туре	Proxy address to use Port) I
	HTTP:	203.125.142.1 : 3128	
	<u>S</u> ecure:		
	ETP:		
	So <u>c</u> ks:		51
	Use the	same proxy server for all protocols	
Exceptio	ons		
8	Do <u>n</u> ot use	proxy server for addresses beginning with:	
	Use semico	lons (;) to separate entries.	
		OK Cance	el l

1 It is required that the proxy server setting of the clients match with the proxy server setting of the system. Otherwise, users will not be able to get the Login page for authentication via browsers and it will show an error page in the browser.

1

2

What the **Built-in Proxy Server** is enabled, all the outgoing proxy traffic will be automatically redirected to the built-in proxy server.

§ Using Extranet Proxy Server

The second scenario is that a proxy server is placed in the Extranet (such as DMZ), which all users from the Intranet or the Internet are able to access. For example, the following diagram shows that a proxy server of an organization in the DMZ will be used.



A special scenario is that a proxy server is placed in a zone like Intranet – where users can reach each other without going through the system. In this case, whenever any one of users in the Intranet has been authenticated and connects to the network via the proxy server, other users using the same proxy setting in their browsers will be able to access the network without any authentication. Therefore, to stop the risk, it is strongly recommended to put all proxy servers outside the Intranet.

Follow the following steps to complete the proxy configuration:

- Step 1. Log in the system by using the admin account.
- Step 2. Network >> Proxy Server >> External Proxy Servers page. Add the IP address and port number of the proxy server into External Proxy Servers setting. Click Apply to save the settings.
- Step 3. Make sure that clients use the same proxy server settings. Please also configure appropriate exceptions if there is any traffic which is not needed to go through proxy server for example, there is no need to use proxy server for the Default Gateway (192.168.1.254).

local A	rea Networ	rk (LAN) Settings		
Auton	natic configur	ration		
Autor	natic configu	ration may override manual s	settings. To e	nsure the
use o	f manual sett	tings, disable automatic conf	iguration.	
<u>A</u>	utomatically o	detect settings		
Us	e automatic	configuration <u>s</u> cript		
A	ddress			
Proxy	server			
⊡ Us dia	e a pro <u>x</u> y se al-up or VPN (erver for your LAN (These se connections).	ttings will not a	apply to
A	ddr <u>e</u> ss:	Por <u>t</u> :	Adv	vanced
V	Bypass pro	xy server for local addresses	s	
			x C	Capcel
				Cancor
южу Se	ttings			×
t <mark>oxy Se</mark> Servers	ttings			×
toxy Se Servers	ttings Type	Proxy address to use	F	Port
toxy Se Servers	Type	Proxy address to use	F	Port
тожу Se Servers	ttings Type HTTP:	Proxy address to use	F	Port 6588
COXY Se Servers	ttings Type HTTP: Secure:	Proxy address to use	F 	Port 6588
COXY Se Servers	Hings Type HTTP: Secure: ETP:	Proxy address to use	F 	Port 6588
Servers	ttings Type HTTP: Secure: ETP: Sogks:	Proxy address to use 10.2.3.208		Port 6588
Servers	ttings Type HTTP: Secure: ETP: Sogks:	Proxy address to use 10.2.3.208		Port 6588
coxy Se Servers	Type HTTP: Secure: ETP: Sogks:	Proxy address to use 10.2.3.208	F	Port 6588
Servers	ttings Type HTTP: Secure: ETP: Sogks:	Proxy address to use 10.2.3.208	F 	Port 6588
Servers	ttings Type HTTP: Secure: ETP: Sogks: Use the	Proxy address to use 10.2.3.208	F : [: : : : : : : : : : : : : : : : :	Port 6588
Servers	ttings Type HTTP: Secure: ETP: Sogks: Use the ons Do not use	Proxy address to use 10.2.3.208	F C C C C C C C C C C C C C	Port 6588
Excepti	ttings Type HTTP: Secure: ETP: Socks: Use the Do not use 192.168.1.2	Proxy address to use 10.2.3.208	F C C C C C C C C C C C C C	Port
Excepti	ttings Type HTTP: Secure: ETP: Sogks: Use the ons Do not use 192.168.1.2	Proxy address to use 10.2.3.208	F F F F F F F F F F F F F F	Port 6588
Excepti	ttings Type HTTP: Secure: ETP: Sogks: Use the 192.168.1.2 Use semico	Proxy address to use 10.2.3.208	F C C C C C C C C C C C C C	Port
Excepti	ttings Type HTTP: Secure: ETP: Sogks: Use the Do not use 192.168.1.2 Use semicol	Proxy address to use 10.2.3.208	F : [: [: [: [: [: [: [: [Port

⚠

It is required that the proxy server setting of the clients match with the proxy server setting of the system. Otherwise, users will not be able to get the Login page for authentication via browsers and it will show an error page in the browser.

Appendix E. Session Limit and Session Log

§ Session Limit

To prevent ill-behaved clients or malicious software from using up the system's connection resources, the administrator can restrict the number of concurrent sessions that a user can establish.

- Ø The maximum number of concurrent sessions (TCP and UDP) for each user can be specified in the Global policy, which applies to authenticated users, users on a non-authenticated port, privileged users, and clients in DMZ zones.
- Ø When the number of a user's sessions reaches the session limit (a choice of Unlimited, 10, 25, 50, 100, 200, 350 and 500), the user will be implicitly suspended upon receipt of any new connection request. In this case, a record will be logged to a Syslog server.
- Ø Since this basic protection mechanism may not be able to protect the system from all malicious DoS attacks, it is strongly recommended to build some immune capabilities (such as IDS or IPS solutions) in network deployment to maintain network operation.

§ Session Log

The system can record connection details of each user accessing the Internet. In addition, the log data can be sent out to a specified Syslog Server, Email Box or FTP Server based on pre-defined interval time.

Field	Description
Date and Time	The date and time that the session is established
	[New]: This is a newly established session.
Session Type	[Blocked]: This session is blocked by a Firewall rule.
Username	The account name (with postfix) of the user. When it shows "N.A.", it indicates that the user or device does not need to log in with a username, for example, the user or device is on a non-authenticated port or on the privileged MAC/IP list. Change the account name accordingly, if the name is not identifiable in the record. S Note: Only 31 characters are allowed for the combination of Session Type plus Username.
Protocol	The communication protocol of session: TCP or UDP
MAC	The MAC address of the user's computer or device
SIP	The source IP address of the user's computer or device
SPort	The source port number of the user's computer or device
DIP	The destination IP address of the user's computer or device
DPort	The destination port number of the user's computer or device

Ø The description of the fields of a session log record is shown as below:

Ø An example of session log data is shown as below:

31 Aug 12:35:05 2007	[New]user1@local TCP MAC=00:09:6b:cd:83:8c SIP=10.1.1.37 SPort=1626 DIP=203.125.164.132 DPort=80
31 Aug 12:35:05 2007	[New]user1@local TCP MAC=00:09:6b:cd:83:8c SIP=10.1.1.37 SPort=1627 DIP=203.125.164.132 DPort=80
31 Aug 12:35:06 2007	[New]user1@local TCP MAC=00:09:6b:cd:83:8c SIP=10.1.1.37 SPort=1628 DIP=203.125.164.142 DPort=80
31 Aug 12:35:06 2007	[New]user1@local TCP MAC=00:09:6b:cd:83:8c SIP=10.1.1.37 SPort=1629 DIP=203.125.164.142 DPort=80
31 Aug 12:35:07 2007	[New]user1@local TCP MAC=00:09:6b:cd:83:8c SIP=10.1.1.37 SPort=1630 DIP=67.18.163.154 DPort=80
31 Aug 12:35:09 2007	[New]user1@local TCP MAC=00:09:6b:cd:83:8c SIP=10.1.1.37 SPort=1631 DIP=202.43.195.52 DPort=80
31 Aug 12:35:10 2007	[New]user1@local TCP MAC=00:09:6b:cd:83:8c SIP=10.1.1.37 SPort=1632 DIP=203.84.196.242 DPort=80

Appendix F. Network Configuration on PC & User Login

§ Network Configuration on PC

After 4ipnet WHG301 is installed, the following configurations must be set up on the PC: Internet Connection Setup and TCP/IP Network Setup.

Ÿ Internet Connection Setup

- § Windows 9x/2000
- Choose Start >> Control Panel >> Internet Options.



 Choose the Connections tab, and then click Setup.

	JS	Add
		Remove
		Settings
C Always di	al my default connection	
Current	None	Set Default

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 Choose "I want to set up my Internet connection manually, or I want to connect through a local Area network (LAN)", and then click Next.

armet Connection Wizard	X
104	Welcome to the Internet Connection Wizard
2K	The Internet Connection waved helps you connect you computer to the Internet. You can use this waved to set up a new or existing Internet account.
4	C I want to sign up for a new Internet account. (Ny telephone ine is connected to my modern.)
	 I want to transfer my existing internet account to the computer. (My Relephone line to connected its my modern.)
m	(i) I want to set up any internet connection manually, or I want to connect through ellocal area network [LAN].
	To leave your Internet settings unothanged, click Cancel
	To learn some about the Internet, click Tuborial Tuborial
	Electron Canod

 Choose "I connect through a local area network (LAN)" and then click *Next*.

ernet Connection Wizard	×.
If you have an internet service provider account, you can use your phone line and a nod to connect to it. If your computer is connected to a local area network (LAN), you can get access to the Internet over the LAN.	s#n h
How do you connect to the internet?	
C I connect through a phone line and a modew	
F 1 connect through a local area network (LAN)	
(Back Next>	Cancel

 DO NOT choose any option in the following LAN window for Internet configuration, and just click *Next*.

ternet Connection Wizard	. 1
Lical area network Internet configuration	米
Select the method you would like to use to configure your proxy retrings. If you are not sure which option to select, select automatic discovery or confact your network administrator. Automatic configuration may overside menual settings. To ensure the use of service settings, disoble eukometic configuration.	
Automatic Configuration	
Automatic discovery of provy rerver (recommanded)	
Use automatic configuration script	
adhes	
Monual Provy Server	
	Final
(Back Rest >	1-8108

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6) Choose "No" and then click Next.

×
×
Cancel

 Finally, click *Finish* to exit the Internet Connection Wizard. Now, the set up is completed.



§ Windows XP

 Choose Start >> Control Panel >> Internet Option.



2) Choose the **Connections** tab, and then click **Setup**.

eneral	Security	Privacy	Content	Connections	Programs	Advanced
	To set up Setup.	an Interr	net connec	tion, click	Setu	p
Dial-u	ip and Virtu	ual Private	Network :	settings		
					Add	
					Remo	ove
Choo	se Setting:	s if you ne	ed to conf	igure a proxy	Settin	gs
	ever dial a ial whenev ways dial r	connectio er a netwo ny default	in ork connec connectio	ction is not pres n	ent	
Curre	nt	None			Set De	efault
Local	Area Netv	vork (LAN)) settings			
LAN S Choo	Settings do se Setting:	not apply above fo	/ to dial-up or dial-up s	connections. ettings.	LAN Set	tings

When the Welcome to the New Connection
 Wizard window appears, click Next.



 Choose "Connect to the Internet" and then click Next.



5) Choose "**Set up my connection manually**" and then click *Next*.

uty of is preparing to set up your Internet connection.
ou want to connect to the Internet?
hoose from a jist of internet service provides (ISPs)
et up my connection manually
or a clairup connection, you will need your account nere, pesiwed, and a cone number tor your ISP. For a croadband account you work need aphore umber.
se the <u>C</u> D I get from an ISP
Back Net) Car

 Choose "Connect using a broadband connection that is always on" and then click *Next*.

New Connection Wizard
Internet Connection How do you want to connect to the Internet?
Connect using a glial-up modem This type of connection uses a modem and a segular or ISDN ptore ins.
Connect using a broadband connection that requires a gree name and password This is a high-speed connection using either a DSL or rable raden. You ISP may relies to this use of connection as PPPoE.
Connect using a broadband connection that is always on This is a high-speed connection using either a cable noder, D() and Correction if is always active, and doesn't require point age it.
Cancel

 Finally, click *Finish* to exit the Connection Wizard. Now, the setup is completed.

New Connection Wizard	
S)	Completing the New Connection Wizard
	Your broadband connection should already be configured and reactly to use. If your connections not warking property, blick the following link.
	Learn more about broadbard corrections;
	To close this wizard, click Frish
	cack Frith Carcel

Ϋ TCP/IP Network Setup

If the operating system of the PC in use is Windows 95/98/ME/2000/XP, keep the default settings without any changes to directly start/restart the system. With the factory default settings, during the process of starting the system, 4ipnet WHG301 with DHCP function will automatically assign an appropriate IP address and related information for each PC. If the Windows operating system is not a server version, the default settings of the TCP/IP will regard the PC as a DHCP client, and this function is called **"Obtain an IP address automatically"**. If checking the TCP/IP setup or using the static IP in the LAN1/LAN2 or LAN3/LAN4 section is desired, please follow these steps:

§ Check the TCP/IP Setup of Window 9x/ME

1) Choose Start >> Control Panel >> Network.



 Click on the Configuration tab and select "TCP/IP >> AMD PCNET Family Ethernet Adapter (PCI-ISA)", and then click *Properties*. Now, you can choose to use DHCP or a specific IP address.

Network
Configuration Identification Access Control
The following network components are installed:
Elient for Microsoft Networks
AMD PCNET Panily Ethemet Adapter (PCHSA)
TCP/IP -> AMD PCNET Family Ethernet Adapter (PCI-ISA)
¥ TCP/IP > Dial-Up Adapter
Add Barraya Brazartina
Primary Network Logon:
Client for Microsoft Networks
File and Print Sharing
TCP/IP is the protocol you use to connect to the Internet and
wide-area networks.
OK Cancel

3) Using DHCP: If you want to use DHCP, click on the IP Address tab and choose "Obtain an IP address automatically", and then click OK. This is also the default setting of Windows. Then, reboot the PC to make sure an IP address is obtained from WHG301.

TCP/IP Properties				? ×
Bindings DNS Configuration	Advar Gateway	nced WINS Confi	No guration	etBIOS IP Address
An IP address can If your network doe your network admir the space below.	be automatic es not automa histrator for an	ally assigned tically assign address, ar	d to this c n IP addre nd then ty	omputer. esses, ask pe it in
© Obtain an IP	address autor	natically		
IP Address				
ji Address.		•	•	
Sybnet Mas	k::	•	•	
	(ок		Cancel

4) Using Specific IP Address: If you want to use a specific IP address, acquire the following information from the network administrator: the *IP Address, Subnet Mask* and *DNS Server address* provided by your ISP and the *Gateway address* of WHG301.

If your PC has been set up completely, please inform the network administrator before proceeding to the following steps.

4.1) Click on the IP Address tab and choose
 "Specify an IP address". Enter the IP
 Address, Subnet Mask and then click OK.

An IP address can be If your network does n your network administ the space below.	automa vot auto rator for	natically matica an ad	assign Wy ass Idress,	ied to ti ign IP a and th	nis comp iddresse en type k	uter. t, ask 10
C Obtain an IP add	itess at	domat	ically			
C Specily an IP as	denes		n. ung			
IP Address:						
Sybnet Mask:				•		

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4.2) Click on the Gateway tab. Enter the gateway address of WHG301 in the "New gateway" field and click Add. Then, click OK.

TCP/IP Properties		? ×
Bindings DNS Configuration	Advanced Gateway WINS Co	NetBIOS nfiguration IP Address
The first gateway i The address order machines are used	n the Installed Gateway in the list will be the ord d	y list will be the default. der in which these
New gateway:	. <u>A</u>	dd
_ <u>Installed gatewa</u>	ys:	nove
		DK Cancel

4.3) Click on DNS Configuration tab. If the DNS Server field is empty, select "Enable DNS" and enter DNS Server address. Click Add, and then click OK to complete the configuration.

TCP/IP Properties ? 🗙
Bindings Advanced NetBIOS DNS Configuration Gateway WINS Configuration IP Address
© Disable DNS
Host: Domain: Domain:
DNS Server Search Urder
<u>H</u> emove
Domain Suffix Search Order
Remove
OK Cancel

- § Check the TCP/IP Setup of Window 2000
- Select Start >> Control Panel >> Network and Dial-up Connections.


Right click on the Local Area Connection icon and select "Properties".



 Select "Internet Protocol (TCP/IP)" and then click *Properties*. Now, you can choose to use DHCP or a specific IP address.

al Area Connection I	Properties		?
ieneral			
Connect using:			
AMD PCNET Far	mily PCI Ethernet.	Adapter	
			Configure
Components checked a	are used by this co	onnection	:
🗹 🔜 Client for Micros	soft Networks		
🔽 🔲 Cita and Dainteau	CI : ()/!		orke
	Sharing for Micro-	son netwi	OINS
V Solpternet Protoco	Sharing for Micros	son netw	onts
Internet Protoco		son netw	unts -
Internet Protoco		son netw	unto
Internet Protoco	I (TCP/IP)	son Netwo	
Internet Protoco	Uninstall		Properties
Internet Protoco	<u>Uninstall</u>		Properties
Internet Protoco	Uninstall	Protocol.	Properties The default
Internet Protoco Install Description Transmission Control wide area network pr	Uninstall	Protocol. les comm	Properties The default unication
Install Description Transmission Control wide area network pr across diverse interc	Uninstall	Protocol. les commiss.	Properties The default unication
✓ Internet Protoco <u>Install</u> Description Transmission Control wide area network pr across diverse interce	Uninstall	Protocol. les commi	Properties The default unication
Internet Protoco	Uninstall Uninstall Protocol/Internet rotocol that provic onnected network	Protocol. les commi (s.	Properties The default unication
Internet Protoco Install Description Transmission Control wide area network pr across diverse interc Show icon in taskba	Uninstall	Protocol. les commi (s.	Properties The default unication
Internet Protoco Install Description Transmission Control wide area network pr across diverse interc Show icon in taskba	Uninstall	Protocol. les comm es.	Properties The default unication

 Using DHCP: If you want to use DHCP, choose
 "Obtain an IP address automatically", and then click OK. This is also the default setting of Windows. Then, reboot the PC to make sure an IP address is obtained from WHG301.

e appropriate IP settings.	ed to ask your network administrator it
Obtain an IP address autor	natically
C Use the following IP addres	is:
[P address:	
S <u>u</u> bnet mask:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Default gateway:	
Obtain DNS server address	s automatically
 Use the following DNS serv 	ver addresses:
Preferred DNS server:	
Alternate DMS server	

5) Using Specific IP Address: If you want to use a specific IP address, acquire the following information from the network administrator: the *IP Address, Subnet Mask* and *DNS Server address* provided by your ISP and the *Gateway address* of WHG301.

If your PC has been set up completely, please inform the network administrator before proceeding to the following steps.

- 5.1) Choose "Use the following IP address" and enter the IP address, Subnet mask. If the DNS Server field is empty, select "Using the following DNS server addresses" and enter the DNS Server address. Then, click OK.
- 5.2) Click *Advanced* to enter the *Advanced* **TCP/IP Settings** window.

5.3)	Click on the IP Settings tab and click Add
	below the "Default gateways" column and the
	TCP/IP Gateway Address window will appear.

ternet Protocol (TCP/IP) Prop	erties	? >
General		
You can get IP settings assigned this capability. Otherwise, you nee the appropriate IP settings.	automatically if your network d to ask your network admin	supports istrator for
C Obtain an IP address autom	atically	
Use the following IP address	>	
IP address:		
S <u>u</u> bnet mask:	1 10 10 10	
Default gateway:	<u> </u>	
C Obtain DNS and these	automaticallu	
Use the following DNS served	ar addresses:	
Preferred DNS server:		
Alternate DNS server:		-
2		
	(Ad	lvanced
-		
	OK	Cancel
Advanced TCP/IP Settings		? >
IP Settings DNS WINS Opti	ons	
└ IP add <u>r</u> esses		
IP address	Subnet mask	
DHCP Enabled		
Add	Edit B	emove
		0111020
Default gateways:	10	
Gateway	Metric	
Add	Edit B	emove
Interface metric:		

5.4) Enter the gateway address of WHG301 in the "Gateway" field, and then click Add. After back to the IP Settings tab, click OK to complete the configuration.

TCP/IP Gatewa	ay Address	<u>?</u> ×
<u>G</u> ateway:		\supset
Automatic	metric	
Metric:		
	Add	Cancel

- § Check the TCP/IP Setup of Window XP
- Select Start >> Control Panel >> Network Connection.



 Right click on the Local Area Connection icon and select "Properties".



 Click on the General tab and choose "Internet Protocol (TCP/IP)", and then click *Properties*. Now, you can choose to use DHCP or a specific IP address.

Local Area Connection Properties	? 🔀
General Authentication Advanced	
Connect using:	
MD PCNET Family PCI Ethernet Adapter	
Configure	5
This connection uses the following items:	_
Client for Microsoft Networks	
File and Printer Sharing for Microsoft Networks	
Jos Packet Scheduler	
Internet Flotocol (1 CEVIE)	
Install Uninstall Properties	\rightarrow
Description	
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	
Show icon in notification area when connected	
OK Cano	el

- 4) Using DHCP: If you want to use DHCP, choose
 "Obtain an IP address automatically" and click *OK*. This is also the default setting of Windows.
 Then, reboot the PC to make sure an IP address is obtained from WHG301.
- 5) Using Specific IP Address: If you want to use a specific IP address, acquire the following information from the network administrator: the *IP Address, Subnet Mask* and *DNS Server address* provided by your ISP and the *Gateway address* of WHG301.

General	Alternate Configuration	1
You car this cap the app	n get IP settings assigne ability. Otherwise, you r ropriate IP settings.	ed automatically if your network supports need to ask your network administrator for
O	otain an IP address auto	omatically
	se the following IP addre	
IP ac	Idress:	
Subr	net mask:	(4) (4) (4)
Defa	ult gateway:	
💿 OI	otain DNS server addres	ss automatically
OU	se the following DNS se	rver addresses:
Prefe	arred DNS server:	
Alter	nate DNS server:	
		Advanced
		OK Cancel

If your PC has been set up completely, please inform the network administrator before proceeding to the following steps.

- 5.1) Choose "Use the following IP address" and enter the *IP address*, *Subnet mask*. If the DNS Server field is empty, select "Using the following DNS server addresses" and enter the DNS Server address. Then, click OK.
- 5.2) Click *Advanced* to enter the *Advanced* **TCP/IP Settings** window.

eneral	
You can get IP settings assigned a his capability. Otherwise, you need he appropriate IP settings.	utomatically if your network supports d to ask your network administrator for
O Obtain an IP address automat	tically
Use the following IP address:	
IP address:	
S <u>u</u> bnet mask:	28 81 60
Default gateway:	2 2 2
Obtain DMS cerver address a Obtain DMS cerver address a Preferred DNS server	r addresses:
Alternate DNS server:	
	Ad <u>v</u> anced

5.3) Click on the IP Settings tab and click Add below the "Default gateways" column and the TCP/IP Gateway Address window will appear.

IP address DHCP Enabled	Su	bnet mask
	Add	Edit Remo <u>v</u> e
ault gateways: Gateway	Me	tric

5.4) Enter the gateway address of WHG301 in the"Gateway" field, and then click Add. Afterback to the IP Settings tab, click OK to finishthe configuration.

TCP/IP Gateway Add	dress	? 🛛
Gateway: ✓ Automatic metric Metric:	1	Help
	Add	Cancel

§ An Example of User Login

Normally, users will be authenticated before they get network access through WHG301. This section presents the basic authentication flow for end users. Please make sure that the WHG301 is configured properly and network related settings are done.

- 1. Open an Internet browser and try to connect to any website (in this example, we try to connect to <u>www.google.com</u>).
 - a) For the first time, if the WHG301 is not using a trusted SSL certificate (for more information, please see 4.2.5 Additional Configuration), there will be a "Certificate Error", because the browser treats WHG301 as an illegal website.

C Centil	icate Error: Navigation Blocked - Windows Internet Explorer		
90	El http://www.google.com/		
File File	t Wew Revolutes Trols Heh		
**	Circuitoxe Errori Rangaron Bocked		
3	There is a problem with this website's security certificate.		
	The security certificate presented by this website was not issued by a trusted certificate authority, The security certificate presented by this website was issued for a different website's address.		
	Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.		
	We recommend that you close this webpage and do not continue to this website.		
	Ø Clock here to close this webpage.		
	Secontinue to this website (not recommended).		
	More Information		

- b) Please press "Continue to this website" to continue.
- c) The default user login page will appear in the browser.



 Enter the username and password (for example, we use a local user account: test@local here) and then click Submit button. If the Remember Me check box is checked, the browser will remember this user's name and password so that he/she can just click Submit next time he/she wants to login.

Check the **Remember Me** box to store the username and password on the current computer in order to automatically login to the system at next login. Then, click the **Submit** button.

The *Remaining* button on the User Login Page is for on-demand users only, where they can check their Remaining Usage time.



3. Successful! The **Login Successful** page appearing means WHG301 has been installed and configured successfully. Now, you are connected to the network and Internet!

	Hello, you are logged in via test@local
0	Please click this button to
Loo	in time: 2007 12 31 16:0:0

8 Note:

When On-demand accounts are used (for example, we use **7ksc@ondemand** here), the system will display more information, as shown below.

4. **Remaining Usage:** The remaining quota of this On-demand account that the user can surf the Internet.



5. Redeem: When the remaining quota is insufficient, the user can add up the quota by purchasing an additional account. Please enter the new username and password in the Redeem Page and click *ENTER* button to merge the two accounts so that there will be more quota for the original account.

	Welcon	ne To Use	er Login P	agel
Please	e Enter Your U	ser Name	and Pass	word To Sign Ir
	User Name:	[
0	Password:			

8 Note: The maximum session time/data transfer is 24305 days/9,999,999 Mbytes. If the redeem amount exceeds this number, the system will automatically reject the redeem process.

Appendix G. Console Interface

Via this port to enter the console interface for the administrator to handle the problems and situations occurred during operation.

- In order to connect to the console port of 4ipnet WHG301, a console, modem cable and a terminal simulation program, such as the Hyper Terminal are needed.
- 2. If a Hyper Terminal is used, please set the parameters as **9600,8,n,1**.

<u>B</u> its per :	second: 9600	
D	ata bits: 8	-
	Parity: None	•
<u>s</u>	top bits: 1	•
<u>F</u> low	control: None	•



The main console is a menu-driven text interface with dialog boxes. Please use arrow keys on the keyboard to browse the menu and press the **Enter** key to make selection or confirm what you enter.

3. Once the console port of 4ipnet WHG301 is connected properly, the console main screen will appear automatically. If the screen does not appear in the terminal simulation program automatically, please try to press the arrow keys, so that the terminal simulation program will send some messages to the system, where the welcome screen or main menu should appear. If the welcome screen or main menu of the console still does not pop up, please check the connection of the cables and the settings of the terminal simulation program.

	eset estart	Utilities for neverk debuyying Change admin password Reload factory default Restart
--	----------------	--

Ϋ Utilities for network debugging

The console interface provides several utilities to assist the Administrator to check the system conditions and to debug any problems. The utilities are described as follows:

BING	Ping host (IP)
grace	Trace routing path
howIF	Display interface settings
BhowRT	Display routing table
ShowARP	Display ARP table
pTime	Display system up time
Status	Check service status
Safe	Set device into 'safe mode'
SetPower	Set Outputpower
TP	Synchronize clock with NTP server
ENESG	Frint the kernel ring buffer
Data	Nain menu

- Ø Ping host (IP): By sending ICMP echo request to a specified host and wait for the response to test the network status.
- Ø Trace routing path: Trace and inquire the routing path to a specific target.
- Ø Display interface settings: It displays the information of each network interface setting including the MAC address, IP address, and netmask.
- Ø Display the routing table: The internal routing table of the system is displayed, which may help to confirm the Static Route settings.
- Ø Display ARP table: The internal ARP table of the system is displayed.
- Ø Display system up time: The system live time (time for system being turn on) is displayed.
- Ø Check service status: Check and display the status of the system.
- Ø Set device into "safe mode": If the administrator is unable to use Web Management Interface via browser for the system failed inexplicitly. The administrator can choose this utility and set it into safe mode, which enables him to manage this device with browser again.
- Ø Synchronize clock with NTP server: Immediately synchronize the clock through the NTP protocol and the specified network time server. Since this interface does not support manual setup for its internal clock, therefore we must reset the internal clock through the NTP.
- Ø Print the kernel ring buffer: It is used to examine or control the kernel ring buffer. The program helps users to print out their boot-up messages instead of copying the messages by hand.
- Ø Main menu: Go back to the main menu.

Ϋ́ Change admin password

Besides supporting the use of console management interface through the connection of null modem, the system also supports the SSH online connection for the setup. When using a null modem to connect to the system console, we do not need to enter administrator's password to enter the console management interface. But connecting the system by SSH, we have to enter the username and password.

The username is "admin" and the default password is also "admin", which is the same as for the web management interface. Password can also be changed here. If administrators forget the password and are unable to log in the management interface from the web or the remote end of the SSH, they can still use the null modem to connect the console management interface and set the administrator's password again.



Although it does not require a username and password for the connection via the serial port, the same management interface can be accessed via SSH. Therefore, we recommend you to immediately change the 4ipnet WHG301 Admin username and password after logging in the system for the first time.

^Ϋ Reload factory default

Choosing this option will reset the system configuration to the factory defaults.

Ϋ Restart 4ipnet WHG301

Choosing this option will restart 4ipnet WHG301.

Appendix H. Local VPN

The system is equipped with IPSec VPN feature. To utilize IPSec VPN supported by Microsoft Windows XP SP2 (with patch) and Windows 2000 operating systems, the system implements IPSec VPN tunneling technology between client's windows devices and the system itself regardless of wired or wireless network.

By pushing down ActiveX to the client's Windows device from the system, no extra client software is required to be installed except ActiveX, in which a so-called "clientless" IPSec VPN setting is then configured automatically. At the end of this setup, a build-in IPSec VPN feature will be enabled and ready to serve once it is launched for setup. The goal of this design is to eliminate the configuration difficulty from IPSec VPN users. At the client side, the IPSec VPN implementation of the system is based on ActiveX and the built-in IPSec VPN client of Windows OS.

ActiveX Component

The ActiveX is a software component running inside Internet Explorer. The ActiveX component can be checked by the following windows.

Shgw /	Add-ons that hav	ve been used by internet Explo	rer 😽		
Name		Publisher	Status	Тури	Tie
Google Scr Google To	ipt Object sibar Helper	Google Inc Google Inc	Enabled Enabled	Actives: Control Browner Helper Object	googlei googlei
Java Plug-	n 1.3.1 02	Sun Microsystems, Inc.	Enabled	Active(): Control	soud.
Java Plug-	in 1.5.0_10	Sun Microsystems, Inc.	Enabled	Actives: Control	551 đ
SearchAss	istantOC	Microsoft Corporation	Enabled	Active/Cantral	shebev
Shockwaw	e Flash Object	Adobe Systems Incorpora	Enabled	Active(X Cantrol	Flashild
SSWHelper	Class	Sun Microsystems, Inc.	Enabled	Browser Helper Object	ssv.dl
Sun Java (Cansale	Sun Microsystems, Inc.	Enabled	Broyeser Extension	ssv.dl
TGSearch			Enabled	Active(Control	TG5ear
VPNCIent.	issec	D-Link Corporation	Enabled	Active/(Control	WHICK
Windows M	Aessenger		Enabled	Browser Extension	
SixML Docur	nent	Microsoft Corporation	Enabled	Activeti Cantral	ansanis V
Settings		10	Delete Active	ĸ	
Click an add- and then click	on name above Enable or Disa	and O Enable	Click the ret ActiveX con then click De	re of an rol above and De dete	da

Windows Internet Explorer: From the Tools menu, click on Internet Options. Select the Programs tab and click *Manage add-ons* button to enter the Manage add-ons dialogue box, where you can see VPNClient.ipsec is enabled.

During the first-time login to WHG301, Internet Explorer will ask clients to download an ActiveX component of IPSec VPN. Once this ActiveX component is downloaded, it will run in parallel with the "Login Success Page" after the page being brought up successfully. The ActiveX component helps set up individual IPSec VPN tunnels between clients and WHG301 and check the validity of IPSec VPN tunnels between them. If the connection is down, the ActiveX component will detect the broken link and decompose the IPSec tunnel. Once the IPSec VPN tunnel, a client has no alternative way to gain network connection beyond this. IPSec VPN feature supported by WHG301 directly solves possible data security leak problem between clients and the system via either wireless or wired connections without extra hardware or client software installed.

• Limitations

The limitation on the client side due to ActiveX and Windows OS includes:

- Ø Internet Connection Firewall of Windows XP or Windows XP SP1 is not compatible with IPSec protocol. It shall be turned off to allow IPSec packets to pass through.
- Ø Without patch, ICMP (Ping) and PORT command of FTP can not work in Windows XP SP2.
- Ø The forced termination (through CTRL+ALT+DEL, Task Manager) of the Internet Explorer will stop the running of ActiveX. It causes that IPSec tunnel cannot be cleared properly at client device. A reboot of client device is needed to clear the IPSec tunnel.
- Ø The crash of Windows Internet Explorer may cause the same result.

Internet Connection Firewall

In Windows XP and Windows XP SP1, the Internet Connection Firewall is not compatible with IPSec. Internet Connection Firewall will drop packets from tunneling of IPSec VPN. Please **TURN OFF** Internet Connection Firewall feature or upgrade the Windows OS into Windows XP SP2.

ieneral Support		
Connection		Internet Connection Firewall
Status:	Connected	Protect my computer and network by limiting or preventing access to this computer from the Internet
Speed:	100.0 Mbps	Learn more about Internet Connection Firewall.
		Internet Connection Sharing
Activity	nt — 🧖 — Received	Allow other network users to connect through this computer's Internet connection
Packets:	45 176,578	Allow other network users to control or disable the shared Internet connection
Properties Disa	ble	Learn more about Internet Connection Sharing.
	Close	1
		Settings

• ICMP and Active Mode FTP

In Windows XP SP2 without patching by KB889527, it will drop ICMP packets from IPSec tunnel. This problem can be fixed by upgrading patch KB889527. Before enabling IPSec VPN function on client devices, please access the patch from Microsoft's web at <u>http://support.microsoft.com/default.aspx?scid=kb;en-us;889527</u>. This patch also fixes the problem of supporting active mode FTP inside IPSec VPN tunnel of Windows XP SP2. Please **UPDATE** clients' Windows XP SP2 with this patch.

• The Termination of ActiveX

The ActiveX component for IPSec VPN is running in parallel with the web page of "Login Success". To ensure that the built-in IPSec VPN tunnel is always alive, unless clients decide to close the session and to disconnect from WHG301, the following conditions or behaviors, which may cause the Internet Explorer to stop the ActiveX, should be avoided.

(1) The crash of Internet Explorer on running ActiveX.

If it happens, please reboot the client computer. Once Windows service is resumed, go through the login process again.

(2) Termination of the Internet Explorer Task from Windows Task Manager.

Do NOT terminate this VPN task of Internet Explorer.

and the state of the	1)((
pplications	Processes	Performance	Networking	and the second second	
Task	assan pisagan naa	ga sha waxaya s	ann an thaird an th	Status	1953
🦉 untitle	d - Paint			Running	
C-1W/	//gw.private/	loginpages/vp em321cmd.ex	n_main.sht	Running	
		a company of the			>

- (3) Execution of instructions given by the following Windows messages:
 - † Close the Windows Internet Explorer.
 - † Click *Logout* on Login Success page.
 - † Click *Back* or *Refresh* of the same Internet Explorer browser page.
 - † Enter a new URL in the same Internet Explorer browser page.
 - † Open a URL from the other application (e.g. email of Outlook) that occupies this existing Internet Explorer.

Click **Cancel** if you do not intend to stop the IPSec VPN connection.

Non-supported OS and Browser

Currently, Windows Internet Explorer is the only browser supported by the system. Windows XP and Windows 2000 are the only two supported OS along with this release.

• FAQ

(1) How to clean IPSec client?

ANS:

Open a command prompt window and type the commands as follows.

```
C:\> cd %windir%\system32
```

```
C:\> Clean_IPSEC.bat
```

Or

C:\> cd %windir%\system32

C:\> ipsec2k.exe stop

(2) How to remove ActiveX component in client's computer?

ANS:

- ① Uninstall and delete ActiveX component
- 2 Close all Internet Explorer windows
- ③ Open a command prompt window and type the commands as follows
 C:\> cd %windir%\system32
 C:\> regsvr32 /u VPNClient_1_5.ocx
 C:\> del VPNClient_1_5.ocx
- (3) What can I do if unable establish IPSec connection for Windows XP SP1? *ANS:*

Disable Windows XP firewall

Appendix I. Customizable Pages

There are five users' login and logout pages for each service zone that can be customized by administrators.

Go to System Configuration >> Service Zone >> Service Zone Settings Configure >> Custom Pages.

Click the button of *Configure*, the Login (Logout) page will appear, including Login page, Logout Page, Login Success Page, Login Success Page for On-demand User and Logout Success Page.

Click the radio button of page selections to have further configuration.

	Login Page	Configure
	Logout Page	Configure
Custom Pages	Login Success Page	Configure
	Login Success Page for Ondemand User	Configure
	Logout Success Page	Configure

1 Custom Pages >> Login Page

The administrator can use the default login page or get the customized login page by setting the template page, uploading the page or downloading from a designated website. After finishing the setting, click *Preview* to see the login page.

Ϋ Custom Pages >> Login Page >> Default Page

Choose Default Page to use the default login page.

Login Page Selection for Users - Service Zone: Default			
Oefault Page	◯ Template Page		
OUploaded Page	◯ External Page		

Default Page Setting - Service Zone: Default	
This is default login page for users. You could click preview link to preview the default login page. Thanks.	
Preview	

Ϋ Custom Pages >> Login Page >> Template Page

Choose Template Page to make a customized login page. Click Select to pick up a color and then fill in all of the blanks. You can also upload a background image file for your template. Click *Preview* to see the result first.

Login Page Selection for Users - Service Zone: Default	
O Default Page	Template Page
O Uploaded Page	C External Page

	Template Page Setting	
Color for Title Background	E1F4FD Select (RGB values in hex mode)	
Color for Title Text	034EA2 Select (RGB values in hex mode)	
Color for Page Background	FFFFFF Select (RGB values in hex mode)	
Color for Page Text	585958 Select (RGB values in hex mode)	
Title	User Login Page	
Welcome	Vielcome To User Login Page	
Information	Please Enter Your Name and Password to Sign In	
Username	Username	
Password	Password	
Submit	Submit	
Clear	Clear	
Remaining	Remaining	
Copyright	Copyright (c)	
Remember Me	Remember Me	
Logo Image File	Preview and Edit the Image File	
Background Image File	Preview and Edit the Image File	

Ϋ́ Custom Pages >> Login Page >> **Uploaded Page**

Choose Uploaded Page and upload a login page.

Login Page Select	ion for Users - Service Zone: Default
O Default Page	O Template Page
Uploaded Page	C External Page
Up	loaded Page Setting
File Name	Erowse
	Submit
	Existing Image Files:
Fotal Capacity: 512 K Now Used: 0 K	
	Upload Image Files
Upload Images	Browse
	Submit
	Preview

The user-defined login page must include the following HTML codes to provide the necessary fields for user name and password.

```
<form action="userlogin.shtml" method="post" name="Enter">
<input type="text" name="myusername">
<input type="password" name="mypassword">
<input type="submit" name="submit" value="Enter">
<input type="reset" name="clear" value="Clear">
</form>
```

And if the user-defined login page includes an image file, the image file path in the HTML code must be the image file to be uploaded.

Remote VPN	:
Default Service	Zone:
Service Zone 1	:
Service Zone 2	:
Service Zone 3	:
Service Zone 4	:

Click the **Browse** button to select the file to upload. Then click **Submit** to complete the upload process. Next, enter or browse the filename of the images to upload in the **Upload Images** field on the **Upload Images Files** page and then click **Submit**. The system will show the used space and the maximum size of the image file of 512K. If the administrator wishes to restore the factory default of the login page, click the **Use Default Page** button to restore it to default.

After the image file is uploaded, the file name will show on the "Existing Image Files" field. Check the file and click *Delete* to delete the file.

After the upload process is completed and applied, the new login page can be previewed by clicking *Preview* button at the button.

Ϋ Custom Pages >> Login Pages >> External Page

O Default Page	Template Page
O Uploaded Page	External Page
	1.000000000000000000000000000000000000
	External Page Setting
	External Page Setting

Choose the *External Page* selection and get the login page from a designated website. In the External Page Setting, enter the URL of the external login page and then click *Apply*.

After applying the setting, the new login page can be previewed by clicking *Preview* button at the bottom of this page.

The user-defined logout page must include the following HTML codes to provide the necessary fields for username and password.

<form action="userlogin.shtml" method="post" name="Enter"> <input type="text" name="myusername"> <input type="pass word" name="mypass word"> <input type="submit" name="submit" value="Enter"> <input type="reset" name="clear" value="Clear"> </form>

2 Custom Pages >> Logout Page

The administrator can apply their own logout page in the menu. As the process is similar to that of the Login Page, please refer to the "Login Page >> Uploaded Page" instructions for more details.

File Name	Browse
	Submit Use Default Page
xisting Image Files:	
Total Capacity: 512 K Now Used: 0 K	
Uploa	d Image Files - Service Zone: Default
Upload Images	Browse
	Submit

8 Note: The different part is the HTML code of the user-defined logout interface must include the following HTML code that the user can enter the username and password. After the upload is completed, the customized logout page can be previewed by clicking Preview at the bottom of this page. If restore to factory default setting is needed for the logout interface, click the "Use Default Page" button.

<form action="userlogout.shtml" method="post" name="Enter"> <input type="text" name="myusername"> <input type="pa ssword" name="mypassword"> <input type="submit" name="submit" value="Logout"> <input type="reset" name="clear" value="Clear"> </form>

3 Custom Pages >> Login Success Page

The users can apply their own Login Success page in the menu. As the process is similar to that of the Login Page, please refer to the "Login Page" instructions for more details.

Ϋ Custom Pages >> Login Success Page >> Default Page

Choose Default Page to use the default login success page.

Login Success Page Selection for Users - Service Zone: Default	
Oefault Page	◯ Template Page
O Uploaded Page	O External Page

Default Page Setting - Service Zone: Default
This is default login success page for users. You could click preview link to preview the default login success page.
Preview

Ϋ Custom Pages >> Login Success Page >> Template Page

Choose Template Page to make a customized login success page. Click Select to pick up a color and then fill in all of the blanks. Click Preview to see the result first.

Login Success Page Selection for Users - Service Zone: Default		
🔿 Default Page	 Template Page 	
O Uploaded Page	🔿 External Page	

Template Page Setting	
Color for Title Background	Select (RGB values in hex mode)
Color for Title Text	Select (RGB values in hex mode)
Color for Page Background	Select (RGB values in hex mode)
Color for Page Text	Select (RGB values in hex mode)
Title	Login Success Page
Welcome	Hello
Information	Please click this button to
Logout	Logout
Information2	Thank you
Login Time	Login Time
Preview	

Ϋ Custom Pages >> Login Success Page >> Uploaded Page

Choose Uploaded Page and get the login success page to upload. Click the Browse button to select the file for the login success page upload. Then click Submit to complete the upload process. After the upload process is completed and applied, the new login success page can be previewed by clicking Preview button at the bottom.

Login Success Page Selection for Users - Service Zone: Default	
🔘 Default Page	C Template Page
Oploaded Page	C External Page

ι	Jploaded Page Setting
File Name	Beowse
	Submit
xisting Image Files:	
Tetal Capacity: 512 K Now Used: 0 K	
	Upload Image Files
Upload Images	Browse
	Submit
	Preview.

Ϋ Custom Pages >> Login Success Page >> External Page

Choose the External Page selection and get the login success page from a designated website. In the External Page Setting, enter URL of the external login page and then click Apply. After applying the setting, the new login success page can be previewed by clicking *Preview* button at the bottom of this page

Login Success Page Selection for Users - Service Zone: Default	
🔿 Default Page	◯ Template Page
🔿 Uploaded Page	 External Page

External Page Setting	
External URL	http://
Preview	

4 Custom Pages >> Login Success Page for On-demand User

The users can apply their own Login Success page for on-demand Users in the menu. As the process is similar to that of the Login Page, please refer to the "Login Page" instructions for more details.

Ϋ́ Custom Pages >> Login Success Page for On-demand Users >> Default Page

Choose Default Page to use the default login success page for on-demand account

Login Success Page Selection for Def	on-demand Users - Service Zone: ault
📀 Default Page	◯ Template Page
O Uploaded Page	◯ External Page

Default Page Setting - Service Zone: Default	
This is default login success page for on-demand users. You could click preview link to preview the default login success page. Thanks.	
Preview	

Ϋ Custom Pages>> Login Success Page for On-demand Users>> **Template Page**

Choose Template to make a customized login success for on-demand account. Click *Select* to pick up a color and then fill in all of the blanks. Click *Preview* to see the result.

🖸 Default Page	Template Page	
O Uploaded Page	C External Page	
	Template Page Setting	
Color for Title Background	Select (RGB values)	in hex mode)
Color for Title Text	Select (RGB values	in hex mode)
Color for Page Background	Select (RGB values	in hex mode)
Color for Page Text	Select (RGB values	in hex mode)
Title	Login Success Page for Ouest Users	
Welcome	Welcome	
Information	Please click this button to	
Logout	Logeut	
Information2	Thankyou	
Remaining Usage	Remaining Usage	
Day	Diay	
Hour	Haur	
Min	Min	
Sec	Sec	
Login Time	Login Time	
Redeem	Redeem	

Custom Pages>> Login Success Pages for On-demand Users>> Uploaded Page
 Choose Uploaded Page and get the login success page for on-demand users by uploading. Click the
 Browse button to select the file for the login success page for Instant upload. Then click Submit to complete the upload process.

Login Success Page Sele	ction for On-demand Users - Service Zone Default
O Default Page	🗢 Template Page
Uploaded Page	C External Page
Upload Login St	uccess Page for On-demand User
File Name	Browse
	timdu8
Existing Image Files:	
Total Capacity: 512 K Now Used: 0 K	
	Upload Image Files
Upload Images	Biowse
	Submit
	Preview.

Ϋ Custom Pages >> Login Success Pages for On-demand Users >> External Page

Choose the External Page selection and get the login success page from a designated website. In the External Page Setting, enter URL of the external login page and then click Apply. After applying the setting, the new login success page can be previewed by clicking *Preview* button at the bottom of this page.

Login Success Page Selection for Def:	on-demand Users - Service Zone: ault
🔿 Default Page	◯ Template Page
O Uploaded Page	 External Page

	External Page Setting
External URL	http://
	Preview

5 Custom Pages >> Logout Success Page

The administrator can apply their own Logout Success page for Users in the menu. As the process is similar to that of the Login Page, please refer to the "Login Page" instructions for more details.

Ϋ Custom Pages >> Logout Success Page >> Default Page

Choose Default Page to use the default logout success page.

Default Page O Template Page	Logout Success Page Selection f	or Users - Service Zone: Default
	 Default Page 	◯ Template Page
O Uploaded Page O External Page	O Uploaded Page	O External Page



Ϋ Custom Pages >> Logout Success Page >>**Template Page**

Choose Template Page to make a customized logout success page. Click **Select** to pick up a color and then fill in all of the blanks. Click **Preview** to see the result first.

Default Page	Template Page
O Uploaded Page	C External Page
	Template Page Setting
Color for Title Background	Select (RGB values in hex mode)
Color for Title Text	Select (RGB values in hex mode)
Color for Page Background	Select (RGB values in hex mode)
Color for Page Text	Select (RGB values in hex mode)
Title	Logout Success Page
	A constant of the second state

Ϋ Custom Pages >> Logout Success Page >> Uploaded Page

Choose Uploaded Page and get the logout success page to upload. Click the **Browse** button to select the file for the logout success page upload. Then click **Submit** to complete the upload process. After the upload process is completed and applied, the new logout success page can be previewed by clicking **Preview** button at the bottom.

Logout Success Page	Selection for Users - Service Zone: Default
O Default Page	🔿 Template Page
Oploaded Page	O External Page

U	pload Logout Success Page
File Name	Browse
	Submit
Existing Image Files:	
Total Capacity: 512 K Now Used: 0 K	
	Upload Image Files
Upload Images	Browse
	Submit
	Preview

Ϋ Custom Pages >>Logout Success Page >> External Page

Choose the External Page selection and get the logout success page from a designated website. Enter the website address in the External Page Setting field and then click Apply. After applying the setting, the new logout success page can be previewed by clicking *Preview* button at the bottom of this page.

Logout Success Page S	election for Users - Service Zone: Default
O Default Page	O Template Page
O Uploaded Page	 External Page

External URL	http://	

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