AG-268 SIP Gateway User Manual

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1. AG-268 SIP Gateway Features

1.1 **Product Appearance**



- 1. PWR: power status led.
- 2. SYS: Not registered in sip sever, flash 1 second and light 5 seconds; registered, light off
- 3. WAN: WAN port status led
- 4. LAN: LAN port status led
- 5. TEL2: Telephone status.
- 6. TEL1: Telephone status.

1.2 Backside Illustration



- 1. PWR: Power Jack, 12V, 800mA
- 2. Reset: Please refer to "<u>restore_to_factory_default</u>" for the usage of this button
- 3. WAN: 10M/100M auto-negotiation, factory default is set to DHCP.
- 4. LAN: 10M/100M auto-negotiation, initial IP is 192.168.1.1, and enable DHCP service.
- 5. TEL1: telephone1 interface.
- 6. TEL2: telephone2 interface.

1.3 Electric Character

- Power adapter: 12V 800mA DC output
- Network interface: 2 x RJ-45 Ethernet Connectors
- FXS: 2 x FXS ports

1.4 Software

- NAT supported
- DHCP support for LAN or Cable modem
- PPPoE support for ADSL or Cable modem
- Configured by HTTP web browser
- Support HTTP, TFTP upgrade.
- Support major G.7XX (G711,G729,G723,G726) Codec
- Dynamic voice jitter buffer, CNG (Comfort noise generation), VAD
- G.165 compliant 16ms echo cancellation
- Tone generation and Local DTMF re-generation according with ITU-T
- E.164 dial plan and customized dial rules
- Support T30/T38 FAX
- Support adjustable user password and super password
- IVR (Interactive Voice Response)

1.5 Protocol and standard

- IEEE 802.3 /802.3 u 10 Base T / 100Base TX
- Major G.7XX;
- SIP RFC3261
- TCP/IP: Internet transfer and control protocol
- RTP: Real-time Transport Protocol
- RTCP: Real-time Control Protocol
- VAD/CNG save bandwidth
- TFTP: File Transfer protocol
- HTTP: Hyper Text Transfer protocol

1.6 Interface features

- WAN: 10M/100M auto-negotiation
- LAN: 10M/100M auto-negotiation
- FXS ports:

Line Feed Voltage:	>=42V
Ring Voltage:	>=45V.
Ring Current:	>=30mA

1.7 operating environment

- Operation temperature: 0 to 50° C (32° to 122° F)
- Storage temperature: -30° to 65° C (-22° to 149° F)

• Humidity: 10 to 90% no dew.

1.8 Packaging

- ➢ Size: 22.5cm×17.0cm×7.6cm
- Packing list
 - ✓ AG-268 gateway X 1
 - ✓ Power adapter X 1
 - ✓ CD X 1

1.9 Installations

Connect the AG-268 LAN port and you computer with the RJ45 cable, and then change your computer IP to static 192.168.1.xxx or use dynamic obtain IP, type 192.168.1.1 in your IE browser to access AG-268 and change its setting.



2. Settings

2.1 Home

System Info	rmation	
	System Uptime:	0 days, 0h 1m 15s
	NTP time:	NTP Time Not Available
	LAN IP Address:	192.168.0.1 (Static)
	MAC Address:	00:09:45:52:02:76
	Serial Number:	
	Security:	Password installed
	Application Code Version:	VR 4.0Beta1 (MSCS VR40) Build-Date: Sep 12 2005
	Downloader Code Version:	US 1.0Beta1 (NTRG VR33A)

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1.	System uptime:	system running time	
2.	NTP time:	NTP time and date	
3.	LAN IP Address:	Gateway IP, factory default is192.168.1.1	
4.	MAC Address:	Gateway MAC address, the same as LAN p	ort
		MAC address	
5.	Serial Number:	device serial number	
6.	Security:	password information	
7.	Application Code Ve	rsion: firmware version	
8.	Downloader Code V	ersion: downloader version	

2.2 WAN

2.2.1 WAN status

	WAN Status	
WAN Status	Liter Conce Status	
WAN Settings	Interface Status	N
DDDoC	Enabled:	Yes
FFFUE	Service:	Routed
MAC Spoofing	Protocol:	Ethernet
	Interface Status:	Up
	Link Status:	10M bps, Half Duplex
	Network Settings	
	Dynamic IP Assignment:	NO
	IP Address:	192.168.1.126
	MAC Address:	00:09:45:52:02:76
	Subnet Mask:	255.255.255.0
	Default Gateway:	192.168.1.1
	DNS Address:	202.96.134.133
	DNS Address 2:	
	Domain Name:	
	Priority Tag:	Notiset
	Broadcast limit:	100% (of downstream bit rate)
	Multicast limit:	100% (of downstream bit rate)
	Update	

1. Enable:

Yes indicates Wan port is ready for use

- 2. Service: indicate use status of Wan port, "Route" or "Bridge"
- 3. Protocol:
- 4. Interface status: UP or Down

- 5. Link Status: interface link mode
- 6. Dynamic IP Assignment: IP type
- WAN port IP address 7. IP address:
- WAN port MAC address 8. MAC Address:

Ethernet

- 9. Subnet Mask: WAN port Subnet Mask
- 10. Default Gateway: Upper Gateway IP
- your local dynamic name server IP 11. DNS Address:
- 12. Priority Tag: Priority Tag value encoded in the Ethernet header in outgoing packets.
- 13. Broadcast limit:
- 14. Multicast limit:

2.2.2 WAN settings

WAN Status		
WAN Status WAN Settings PPPoE	Device Operating Mode: Router 💌	
MAC Spoofing	O Obtain WAN configuration dynamically	
	Specify fixed WAN configuration	
	IP Address:	192.168.1.126
	IP Netmask:	255.255.255.0
	IP Gateway:	192.168.1.1
	IP DNS Server:	202.96.134.133
	IP DNS Server2:	
	Host Name:	
	Domain Name:	
	Uplink Configuration	
	Uplink Bandwidth (kbits/sec):	
	Fragment low-priority packets when	bandwith is low
	Multicast Limits	
	Broadcast limit:	100 % (of Ethernet connection bitrate)
	Multicast limit:	100 % (of Ethernet connection bitrate)
	Save WAN Settings	

- 1. Device Operation Mode: WAN port mode, alternative "Bridged" and "DHCP"
- 2. Obtain WAN configuration dynamically: use dynamic ip in WAN port
- 3. Specify fixed WAN configuration: manually enter the WAN port network settings such as IP address, IP netmask, IP gateway, IP DNS server.
- 4. Broadcast limit: the value specifies the maximum limit on the percentage of broadcast packets which will be bridged to the destination interface (as a percentage of the source side bandwidth)
- 5. Multicast limit: the value specifies the maximum limit on the percentage of multicast packets which will be bridged to the destination interface (as a percentage of the source side bandwidth)

2.2.3 WAN PPPoE Configuration

	WAN PPPoE Configuration
WAN Status WAN Settings PPPoE	Enable PPPoE: No 💙
MAC Spoofing	Authentication
	Username:
	Password:
	Settings
	Echo Timeout: 60 seconds
	Echo Count: 3
	Save PPPoE Settings

- 1. Enable PPPoE: use PPPoE to connect to the internet
- 2. Username&Password: PPP id and PPP pin from your ISP
- 3. Echo Timeout: The duration between PPP echo requests sending to server.
- 4. Echo Count: The number of unanswered PPP echo requests before PPP connection is closed.

2.2.3 MAC Spoofing Configuration

S WAN Status	MAC Spoofing Configuration	
WAN Settings PPPoE	WAN MAC Address (Spoofed): 000945520276	
MAC Spoofing	Save MAC Spoofing Settings	

WAN MAC Address (Spoofed): you can change the WAN port IP address here (not suggest)

2.3 LAN

2.3.1 LAN status

	LAN Status	
LAN Status LAN Settings DHCP Port Forwarding	Interface Status Enabled: Protocol: Interface Status: Link Status:	Yes Ethernet Up 10M bps, Half Duplex
	Network Settings IP Address: MAC Address: Subnet Mask: Default Gateway: DNS Address: DNS Address 2: Domain Name: Priority Tag:	192.168.0.1 00:09:45:52:02:76 255.255.255.0 0.0.0.0 80.0.0.1 Not set
	Update	

Interface Status:

- 1. Enable: Yes indicate LAN id ready for use
- 2. Protocol: Ethernet
- 3. Interface status: UP or Down
- 4. Link Status: link speed mode

Network Settings:

- 5. IP address:
- 192.168.0.1
- 6. MAC Address:
- 7. Subnet Mask:
- 8. Default Gateway:
- 9. Domain Name:
- 10. Priority Tag:

LAN port IP address, factory default is

LAN port MAC address

LAN port subnet mask

default gate way IP

Domain

Priority Tag value encoded in the Ethernet header in outgoing packets.

2.3.2 LAN settings

LAN Status	AN Configuration
LAN Settings DHCP Port Forwarding	Network Settings IP Address: 192.168.0.1 Subnet Mask: 255.255.0
	Multicast Limits Broadcast limit: 100 % (of Ethernet connection bitrate) Multicast limit: 100 % (of Ethernet connection bitrate)
	PHY Speed mode: AUTO Negotiation 👻
	Save LAN Settings
	Address, Subnet Mask: LAN port network settings.

- 2. Multicast Limits: broadcast and multicast limitation.
- 3. PHY speed mode: LAN port speed mode.

2.3.3 DHCP

LAN Status	DHCP Server Configuration
LAN Settings DHCP Port Forwarding	Server Settings Enabled Disabled Client IP Address Range: 192.168.0. 100
	Client Network Information
	Domain Name:
	DNS Server 1: 2:
	Static Address Assignments
	Identify Using Host Identifier Internal Address
	Hostname 🔽 192.168.0. Add
	Save DHCP Settings View DHCP Table

AG-268 router function setting.

2.3.4 Port forwarding

LAN Status	Port Forwarding Configuration			
LAN Settings DHCP Port Forwarding	Reserved Ports The following ports have been reserved by the CPE, and may not be forwarded to the LAN 68, 5060-5070, 8000-8015, 7001-7005, 80, 23, 161, 1480-12800			
	Port Forwarding to LAN			
	Port Range Protocol Destination Address Both V 192.168.0. Add			
	DeMilitarized Zone			
	If specified, packets which port are not listed above will be forwarded to this DMZ host			
	192.168.0.			
	Save NAPT Settings			

Port mapping settings.

2.4 SIP2.4.1 SIP server Configuration

Server							
Extensions	Primary Server Settings			Secondary Server Settin	igs		
User 1 Llear 2	(Current Server: 192.168.1	.207 : 5060 ; Domai	n: 192.168.1.207)	(Current Server: : 0 ; Dorr	nain:)		
OOB Signalling	* Address:	192.168.1.207	(IP or FQDN)	* Address:		(IP or FQDN)	
ToS/DiffServ	* Port:	5060		* Port:	5060		
	Domain Name:	192.168.1.207		Domain Name:			
	Send Registration	Request with Expire	e Time 300	Send Registratio	n Request with Expir	e Time	
Service Code	Outhound Prov IP:			Outhound Proxy IP:			
	Outbound Proxy II :	5000		Cathound Provy II :			
	Outpound Proxy Port:	5082		Outbound Proxy Port	5082		
	NAT Traversal Settings NONE UPnP Control Point	t					
	STUN Server IP:	STUN Server IP: (IP or FQDN) STUN Server Port:					
	Gateway Settings						
	Dial Plan:						
	🗹 # use as a quick d	lial function		📃 * use as a quick	dial function		
	🔲 To enable # to be	recognized as dial n	umber	🔲 To enable * to b	e recognized as dial i	number	
1. Prim	ary Server:	Primary Seconda	Server, ary server	AG-268 w if primary set	vill auto rver is una	switch to vailable.	
2. Sec	ondary Server:	seconda	arv server	(back up fund	ction)		
3 Add		SIP serv	er IP add	ress			
						20	
4. Port		SIP serv	ver port, t	ne well know	port is 500	JU	
5. Dom	nain Name:	server d	omain				

6. Send Registration Request with Expire Time: Register TTL (unit: seconds). Indicate the register period, if AG-268 always log off after some time, please set this time to a lower value.

- 7. Outbound Proxy IP: Outbound Proxy server IP address
- 8. Outbound Proxy Port: Outbound Proxy server port

RTP port Number Setting: RTP local port, the minimum value is 4

NAT Traversal

- 1. NONE: disable NAT traversal
- 2. UPnP: use UPnP, need the support of upper gateway
- 3. Stun Server IP: Fill in your stun server IP when using stun method
- 4. Stun Server Port: Fill in stun server port

Gateway Settings

1. Dial Plan: please refer to dial plan

2. # use as a quick dial function: the number will send immediately after you press the # button

3. To enable # to be recognized as dial number: use # as a dial number

4. * use as a quick dial function: the number will send immediately after you press the * button

5. To enable * to be recognized as dial number: use * as a dial number

2.4.2 Extensions

	SIP Extensions			
Server				
Extensions	Support PRACK method with provisional response reliability			
User 2	🗹 Encode SIP URI with user parameter			
OOB Signalling	Session Timer use UPDATE method Call Hold using c=0.0.0.0 (RFC 2543) in SDP			
ToS/DiffServ				
Tone	🔲 enable Global Number support (E.164)			
Ring	send NOTIFY for REFER request			
Service Code	send Message Waiting Indicator (MWI) SUBSCRIBE command			
	No Authorization Header in re-REGISTER			
	Check existence of To Tag in INVITE 2xx response			
	SIP Timers			
	 Send INVITE with Timer header value: Seconds SIP Session Timer value: Seconds Conditional Call Forwarding Timer: 15 Seconds Inter Digit Timer: Seconds. SIP T1 Timer: 500 Milliseconds SIP T2 Timer: 4000 Milliseconds SIP T4 Timer: 5000 Milliseconds 			
	Save SIP Extension Settings			

SIP Extensions:

- 1. Support PRACK method with provisional response reliability: enable SIP PRACK support
- 2. Encode SIP URI with user parameter: encode user=phone parameter in SIP URI
- 3. Session Timer use UPDATE method: enable SIP session timer function.

- 4. Enable Global Number support(E.164): enable E.164 support.
- Call Hold using c=0.0.0.0 (RFC 2543) in SDP:using the call hold method described in RFC 2543. If unchecked, the call hold would follow RFC 3263 method
- 6. Send NOTIFY for REFER request: send out NOTIFY request to transfer for unattended and attended call transfer.

2.4.3 User1 Configuration(User2 is the same as User1)

Server	User 1 Configuration					
Extensions User 1 User 2 OOB Signalling ToS/DiffServ Tone	Line 1 Phone Number CallerID Name Port User Name Password Primary Server 268 6060 Secondary Server 5060 Line 1 AEC Cantral ON					
Ring Service Code	Line 1 ALC Control Line 1 Gain Control Input Gain Control (-12 ~ 18)db Output Gain Control (-12 ~ 18)db O db					
	Supplementary Service Subscription Image: Construct of the second incoming call) Image: Construct of the second incoming call Image: Construct of the second incoming call					

Primary Server, Secondary Server

Phone Number: phone number. CallerID Name: caller ID Port Name: Local register port (Note:

Port Name: Local register port. (Note: please assign different port to different user)

User Name: user name. Password: password.

Line1 AEC Control: enable AEC (Acoustic Echo Cancellation) function, if the other hear a significant echo, please check this option.

Line1 Gain Control:

Input Gain Control (-12 ~ 18) db: input volume control. Output Gain Control (-12 ~ 18) db: output volume control.

Supplementary Service Subscription:

Enable Call Waiting (Reject second incoming call): enable call waiting. Enable Caller ID: enable caller ID display. Reject anonymous: reject anonymous call.Block Caller ID in outgoing call:use anonymous Caller ID.Distinctive Ring Settings:set distinctive ring to different user.Speed Dial Setting:speed dial number setting.

2.4.4 OOB Signalling

т	RTP Telephone Event Configuration		
Server ¹			
Extensions	Cond DTME Fuents Out-of-Bond (DEC2832)		
User 1	Send DTWF Events out-of-band (Krezoss)		
User 2	RFC2833 signalling using payload value: 96		
OOB Signalling	Regenerate OOB DTMF tone		
ToS/DiffServ			
Tone	Save OOB Settings		
Ring	Suve cob Settings		
Service Code			

This sub-page allows configuration of the out-of-band signaling options for SIP. Select whether OOB telephone event signaling is to be done using the SIP INFO message, or to be done via RFC2833 RTP signaling. For additional information please refer RFC2833.

2.4.5 ToS/DiffServ

	ToS/DiffServ
Server	
Extensions	Coll Cignelling Deskets: 10 years and the second
User 1	Call Signalling Packets. 10 (2 Hex digit byte value)
User 2	RTP Packets: 14 (2 Hex digit byte value)
OOB Signalling	
ToS/DiffServ	Save ToS/DiffServ Settings
Tone	
Ring	
Service Code	

This sub-page is used to configure the Type-of-Service/Diffserv byte values which are to be used in the IP header of all transmitted SIP signaling packets and RTP packets. The ToS/DiffServ byte values are entered as two-digit hexadecimal values. If no special ToS/DiffServ value is to be used for a particular traffic type, enter "00" or leave the setting empty.

Press "Save ToS/DiffServ Settings" to save these new settings.

2.4.6 Tone

erver	Tone Configurati	on
Extensions User 1 User 2 OOB Signalling ToS/DiffServ Tone Ring Service Code	Dial Tone: Recall Dial Tone: Confirm Tone: Ring Back Tone: Busy Tone: Recorder Tone: Receiver-Off-Hook Tone: Message-Waiting Indicator Tone: Call-Waiting Indicator Tone:	350@-13+440@-13#0N(1000),R 350@-13+440@-13#[ON(100),OFF(100)]3,ON(1000),R 350@-13+440@-13#[ON(100),OFF(100)]3,OFF(1000),R 440@-19+480@-19#ON(2000),OFF(4000),R 480@-24+620@-24#ON(200),OFF(500),R 480@-24+620@-24#ON(250),OFF(250),R 1400@-3+2060@-3+2450@-3+2600@-3#ON(100),OFF(100),R 350@-13+440@-13#[ON(100),OFF(100)]10 400@-14#ON(150)
	Save Tone Settings	

Set AG-268 ring tone for different region.

2.4.7 Ring

	Ring Configurati	ion
Server Extensions User 1 User 2 OOB Signalling	Default Ring: Call-Waiting Reminder Ring:	ON(1000),OFF(2000),R ON(125),OFF(625),ON(2000),OFF(2875),R
ToS/DiffServ Tone	Distictive Ring C	Configuratioin
Ring Service Code	Distinct Ring 1:	ON(500),OFF(1500),R
	Distinct Ring 2:	ON(400),OFF(200),ON(400),OFF(2000),R
	Distinct Ring 3:	ON(200),OFF(100),ON(200),OFF(100),ON(400),OFF(2000
	Distinct Ring 4:	ON(400),OFF(500),ON(200),OFF(25),ON(200),OFF(1500)
	Distinct Ring 5:	ON(250), OFF(50), R
	Distinct Ring 6:	ON(500), OFF(500), R
	Distinct Ring 7:	
	Distinct Ring 8:	ON(500),OFF(10),R
	Save Ring Settings	

Set different user's ring tone, co-work with "SIP→User→Distinctive Ring Settings"

2.4.8 Service Code

	Service Code Configuratioin	
Server		
Extensions	Conditional Call Ecowarding:	*70#
User 1	Conditional Call Forwarding.	
User 2	Call Forwarding On:	*72#
OOB Signalling	Call Forwarding Off:	#72#
ToS/DiffServ	Do Not Disturb On:	*74#
Tone		
Ring	Do Not Disturb Off:	#74#
Service Code	Call Transfer:	*98#
	Call Return:	*69#
	Speed Dial:	*68
	- use *XX# or #xx# format , xx=	=01-99
	Save Service Code Settings	

Please refer to <u>value add service</u> for the use of service code.

2.5 CODECS

4	Audio/CODEC Configuration			
CODECS	CODECS			
	Selected	Silenc	e Suppression	
	G711U		OFF 🐱	
	G711A	[OFF 🐱	
	G723		OFF 🐱	
	G726	[OFF 😽	
	🗹 G729	[OFF 🐱	
	Packetization	20ms 💌		
	Jitter Buffer			
	 Adaptive 	Jitter Buffe	r: 100ms 💌 (maximum playout delay in milliseconds)	
	◯ Fixed Jitter Buffer: 🛛 🔽 🔽 (fixed playout delay in milliseconds)			
	🔲 Automa	tically swite	h to Fixed Jitter Buffer upon fax/modem tone detection	
	Save CODE	C Configurat	ion	

CODECS:

Support CODEC: G711U、G711A、G723、G726、G729。 Silence Suppression: enable VAD.

Packetization:

Configure the packet sending increments

Jitter Buffer

configure the timing of the voice buffering.

Selection between adaptive or fixed jitter buffer. Default = ADAPTIVE Set the adaptive jitter buffer maximum playout delay. Default = 100ms or Fixed jitter buffer playout delay. Default = 40ms

Whether or not to automatically switch from an adaptive jitter buffer to a fixed jitter buffer upon fax/modem tone detection

Click on "Save CODEC Configuration" to save the configurations made.

2.6 System

2.6.1 Security, Timeout

Acurity	Set Security Password		
Timeout Localization	Password is currently	installed	
Handset SNMP Service Access	Account: Old password: New password: Confirm new password	admin	
	Change Password		
Security	Set Web System	limeout	
Timeout Localization Handset	HTTP Authentication Tin	neout: (Seconds)	
SNMP Service Access	Change Time		

Setting web security and authentication timeout

2.6.2 Localization

- · · ·	Localization
Security Timeout Localization Handset SNMP Service Access	Country: United States NTP Server: Time Zone: (GMT-12:00) Eniwetok, Kwajalein
	Save Localization Settings

Choose the correct country for a proper impedance match, as well as the NTP Server, and Time Zone. Check the "Adjust clock for daylight savings", when applicable.

Click on "Save Localization Settings", to save your configurations.

2.6.3 Handset

	Media Hub Handset Configuration		
Security Timeout Localization	Control Timer Values		
Handset SNMP Service Access	Hook Flash Timer Min: Milliseconds Hook Flash Timer Max: Milliseconds 'Please enter a multiple of 10.(ex:10,20,30)		
	Save Handset Settings		

Hook Flash timing setting

Hook Flash Timer Min: minimum available time, unit: ms. Hook Flash Timer Max: maximum available time, unit: ms.

When you press the flash during the time range you set, your action will act as hold function, and otherwise it will act as the hang up function. In some application, user wants to call another people immediately after he put down the handset, he can set the hook flash timer during the range: 10ms~20ms

2.6.4 SNMP Configuration

Security	SNMP Configuration	
Timeout Localization Handset	SNMP Trap Configuration IP address: Trap Community:	
SNMP Service Access	SNMP Community Configuration Read Community: public Write Community: private	
	SNMP System Configuration System Description: System ObjectId: 4528	
	Save SNMP Settings	

SNMP Trap Configuration

IP address:	Trap host IP address
Trap Community:	The community name used by the SNMP manager to
	verify traps. The default value is 'public'

SNMP Community Configuration

Read Community:	The community name used by the SNMP manager when reading SNMP data items from a client MIB. The default value is 'public'
Write Community:	The community name used by the SNMP manager when setting SNMP data items in a client's MIB. The default value is 'public'

SNMP Community Configuration

System Description:	Description of the unit (e.g. "John's phone")
System Object Id:	A vendor's enterprise ID

2.7 Download

2.7.1 Download

Download AutoUpdate	Download Warning: The download process will reset the unit into the download mode. This will terminate all network connections and reset your browser connection.
	TFTP Download method (Select remote TFTP server IP address and filename)
	TFTP Server IP:
	Filename:
	Start TFTP Download
	HTTP Download method (Select filename on local browser machine)
	Filename: Browse
	Start HTTP Download
	URL Download method (Currently ffor# http:// and https:// are supported)
	Start URL Download

For both HTTP and TFTP methods, the device will reboot itself into the downloader mode if the main application is executing, and proceed with the ROM file download and permanent write of the application to the device's flash memory. After the download is completed, the download status page will be displayed.

Note: The available upgrade firmware is in .r0 extension; make sure you use the correct firmware before you update the firmware.

2.8 Configuration

2.8.1 Backup and restore settings

Backup Restore	Configure File Backup Backup Configure File
Backup Restore	Configure Restore Configure Restore method (Select filename on local browser machine) Filename: Start Download
	Start Restore Default Factory

Back up and restore the configure files.

2.9 Reset

Reset	Reset You must reboot to make your changes active. Warning! Resetting the system will terminate all network connections and reset your browser connection.
	 Reset and execute Main Application Reset and execute Downloader Application
	Reset

AG-268 will save the current settings and reset by clicking the "reset" button

3. Restore to factory default

If your AG-268 settings is in chaos or you can't get the AG-268 IP to access it, you can reset the device to factory default:

- a) Power off
- b) Press reset button and power on
- c) The PWR led will light →Then PWR , SYS, WAN and LAN led will blink→ Then the PWR and SYS led light.
- d) Release the reset button after about 15~20 seconds,
- e) The PWR, SYS, WAN and LAN led will blink for a while and then the PWR and SYS led will light.

AG-268 will be reset to factory default after the above procedure, you can then access AG-268 through its LAN port, please refer to <u>access AG268</u> for details.

4. FAQ

Q1 What is the default account of AG-268?

A1: The default account is: Administrator: user name: admin User: user name: user

password: voip; password: voip

Q2 How to use the IVR function of AG-268?

A2:

The IVR function is record in G729 codec, so you have to choose G729 codec to active the IVR.

You can use IVR function to observe and set the WAN port network parameters pick up the handset and dial **** to enter IVR mode.

Key	Function	Input
****	nter main menu	ubmenu
100#	eck network state	
110#	DHCP Settings	1# Enable DHCP function
		2# Disable DHCP function
		or# back to main menu
120#	Static IP address	Use "*" replace ".", and "#" as end.
	Settings	For example: 172*16*230*227#
		or # back to main menu
130#	Gateway IP settings	Use "*" replace ".", and "#" as end.
		For example: 172*16*230*1#
		or # back to main menu
140#	Subnet mask settings	Use "*" replace ".", and "#" as end.
		For example: 255*255*255*255#
		or # back to main menu

Q3 How can I know the IP address of AG-268?

A3: you can use the following methods to obtain AG-268's IP :

- 1. Use <u>IVR</u> function;
- 2. Observe the IP from the upper gateway;
- 3. Use the DHCP assignment function of AG-268
- i. Reset AG-268 to factory_default,
- ii. Directly connect your computer and AG-268' LAN port,
- iii. Set your computer to dynamic obtain IP,
- iv. Use command "ipconfig" to view your computer network status, and the gateway IP is the AG-268 LAN port IP. It is 192.168.1.1 in this case.

C:\WINNT\System32\cmd.exe	
Ethernet adapter 本地连接:	
Connection-specific DNS Suffix .: IP Address: 192.168.1.100 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.1.1	
C:∖>ipconfig	
Windows 2000 IP Configuration	
Ethernet adapter 本地连接:	
Connection-specific DNS Suffix .: IP Address	
	- -

v. Then you can use this IP address to access AG-268 through its LAN port the default account is admin/voip

🖉 Security - Microsoft Internet Explorer	
文件(E) 編辑(E) 查看(Y) 收藏(A) 工具(I) 帮助(H)	-
→ 后退 ・ → ・ ③ ② 岔 ◎ 捜索 函 收藏夹 ③ 媒体 ③ □ □ ・ □ 中 🐥 🖾 🥙	
地址(D) 🍘 http://192.168.1.1/	12 ¹
This unit is password protected	
Please enter the correct account and password to access the web pages	
Accountamin	
Password ****	
Authenticate	•
🔊 完毕	

Q4 How to update AG-268 firmware?

A4: Go to Download \rightarrow Download, press "browse" in the http download method, and choose the correct firmware file (a 1.5M file in .r0 extension), and press the "Start HTTP Download" to perform updating.

Q5 How to use dial plan?

A5:

A dial plan gives the unit a map to determine when a complete number has been entered and should be passed to the gatekeeper for resolution into an IP address. Dial plans are expressed using the same syntax as used by MGCP NCS specification.

The formal syntax of the dial plan is described by the following notation:

Digit ::= "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9" Timer ::= "T" | "t" Letter ::= Digit | Timer | "#" | "*" | "A" | "a" | "B" | "b" | "C" | "c" | "D" | "d" Range ::= "X" | "x" -- matches any digit | "[" Letters "]" -- matches any of the specified letters Letters::= Subrange | Subrange Letters Subrange::= Letter -- matches the specified letter | Digit "-" Digit -- matches any digit between first and last Position::= Letter | Range StringElement::= Position -- matches any occurrence of the position | Position "." -- matches an arbitrary number of occurrences including 0 String ::= StringElement | StringElement String StringList::= String | String "|" StringList DialPlan::= String | "(" StringList ")" A dial plan, according to this syntax, is defined either by a (case insensitive) string or by a list of strings. Regardless of the above syntax a timer is only allowed if it appears in the last position in a string (12T3 is not valid). Each string is an alternate numbering scheme. The unit will process the dial plan by comparing the current dial string against the dial plan, if the result is underqualified (partial matches at least one entry) then it will do nothing further. If the result matches or is over-qualified (no further digits could possibly produce a match) then send the string to the gatekeeper and clear the dial string. The Timer T is activated when it is all that is required to produce a match. The period of timer T is 4 seconds. For example a dial plan of (xxxT|xxxx) will match immediately if 5 digits are entered, it will also match after a 4 second pause when 3 digits are entered.

Simple Dial Plan

Allows dialing of 7 digit numbers (e.g. 5551234) or an operator on 0. Dial plan is (0T|xxxxxx)

Complex Dial Plan

Local operator on 0, long distance operator on 00, four digit local extension number starting with 3,4 or 5, seven digit local numbers are prefixed by an 8, two digit star services (e.g. 69), ten digit long distance prefixed by 91, and international numbers starting with 9011+variable number of digits.

Dial plan for this is:

(0T|00T|[3-5]xxx|8xxxxxxx|*xx|91xxxxxxxxxx|9011x.T)

	Service Code Configuratioin	
Server		
Extensions	Conditional Call Forwarding:	*70#
User 1	Conditional Call Forwarding.	~70#
User 2	Call Forwarding On:	*72#
OOB Signalling	Call Forwarding Off:	#72#
ToS/DiffServ	Do Not Disturb On:	*74#
Ring	Do Not Disturb Off:	#74#
Service Code	Call Transfer:	*98#
	Call Return:	*69#
	Speed Dial:	*68
	- use *XX# or #xx# format , xx=	=01-99
	Save Service Code Settings	

Q6 How to use the value add service of AG-268?

You need to set the service code for using the AG-268 value add service. For example, I set the service code as the above picture $_{\circ}$

Condition Call Forwarding: (the call will transfer if no one answer)

- a) Set forwarding number: pick up the handset→press *70# →then you will hear the dial tone→press the forwarding number→then you will here three beeps indicating setting finish.
- b) Set the timeout: go to the "sip extensions→Conditional call Forwarding timer" and set the timeout before forwarding, unit: second, and then active this option.
- c) Then the call will automatically transfer to the forwarding number if no

one answers the call in the timeout.

Call Forwarding: (forwarding always)

- a) Enable call forwarding: pick up the handset → press *72# → then you will hear the dial tone → press the forwarding number → then you will here three beeps indicating setting finish, then all incoming call will forward to this number automatically.
- b) Disable call forwarding: pick up the handset → press #72# → then you will here three beeps indicating setting finish

Do not disturb: (DND)

- a) Enable DND: pick up the handset → press *74# →then you will here three beeps indicating setting finish → then the phone won't ringing when there is an incoming call.
- **b)** Disable DND: pick up the handset → press #74# → then you will here three beeps indicating setting finish

Call transfer:

- a) Unattended transfer: A call B→B press *98# and then enter C number→then B will hear three beeps indicating the transfer successfully.
- b) Attended transfer: A calls B→B push the hook flash to hold A→B then dial C number to talk with C → then B press *98# to transfer the call→then A can talk with C.

Call Return:

Pick up the handset \rightarrow and then press *69# to dial the latest received call

3 way conference call:

A calls and talks with $B \rightarrow B$ push the hook flash to hold A B then dial C number to talk with $C \rightarrow B$ then push the hook flash again to enable three way conference call $\rightarrow C$ will leave the call is B push the hook-flash again.

Q7 How to configure AG-268?

A7 please refer to "AG-268 quick start guide"

Q8 How to change AG-268 LAN port MAC address?

A8 please access http://AG-268ip/burn.htm and change the MAC address,

after you have changed it, clap the reset button to save your setting.

Q9 Why does my AG-268 always drop off from the server?

A9

You can find the register TTL in the "SIP \rightarrow server \rightarrow Send Registration Request with Expire Time", if this time is longer then the system require register time, AG-268 will always drop off from the server, please set this time to a suitable value, (unit: seconds).

Q10 How to use the speed dial function?

A10

You need to set the speed dial number in the "SIP \rightarrow User \rightarrow Speed Dial Settings", and then set the operation code in the "Server \rightarrow Service Code", for example *68, then you can dial *681 to replace the speed dial number in the speed dial settings.

peed Dial 1: 83018049	Speed Dial 2:
peed Dial 3:	Speed Dial 4:
beed Dial 5:	Speed Dial 6:
peed Dial 7:	Speed Dial 8: