

# SIP Gateway VG3300 Series

User Guide

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# **User Guide**

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# 1. Safety Instructions

WARNING

- 1. Do not attempt to service the product yourself. Any servicing of this product should be referred to qualified service personnel.
- 2. To avoid electric shock, do not put your finger, pin, wire, or any other metal objects into vents and gaps.
- 3. To avoid accidental fire or electric shock, do not twist power cord or place it under heavy objects.
- 4. The product should be connected to a power supply of the type described in the operating instructions or as marked on the product.
- 5. To avoid hazard to children, dispose of the product's plastic packaging carefully.
- 6. The phone line should always be connected to the LINE connector. It should not be connected to the PHONE connector as it may cause damage to the product.
- 7. Please read all the instructions before using this product.

# 2. Preface

The VG3300 unit is a personal SIP VoIP gateway developed using the latest in VoIP technology. It is also very simple to install and easy to operate.

### 2.1. What is SIP

Session Initiation Protocol (SIP) is the Internet Engineering Task Force's (IETF's) standard for multimedia conferencing over IP. SIP is an ASCII-based, application-layer control protocol (defined in RFC 2543& RFC 3261) that can be used to establish, maintain, and terminate calls between two or more end points. Like other VoIP protocols, SIP is designed to address the functions of signaling and session management within a packet telephony network. *Signaling* allows call information to be carried across network boundaries. *Session management* provides the ability to control the attributes of an end-to-end call.

SIP provides the following capabilities:

Determine the location of the target end point—Supports address resolution, name mapping, and call redirection.

Determine the media capabilities of the target end point—By using Session Description Protocol (SDP), SIP determines the highest level of common services between the end points. Conferences

are established using only the media capabilities that can be supported by all end points.

Determine the availability of the target end point—If a call cannot be completed because the target end point is unavailable, SIP determines whether the called party is already on the phone or did not answer in the allotted number of rings. It then returns a message indicating why the target end point is unavailable.

Establish a session between the originating and target end point—If the call can be completed, SIP establishes a session between the end points. SIP also supports mid-call changes, such as the addition of another end point to the conference or the changing of a media characteristic or Codec. Handle the transfer and termination of calls—SIP supports the transfer of calls from one end point to another. During a call transfer, SIP simply establishes a session between the transferee and a new end point (specified by the transferring party) and terminates the session between the transferee and the transferree and the transferring party. At the end of a call, SIP terminates the sessions between all parties.

#### 2.1.1. Components of SIP

SIP is a peer-to-peer protocol. The peers in a session are called User Agents (UAs). A user agent can function in one of the following roles:

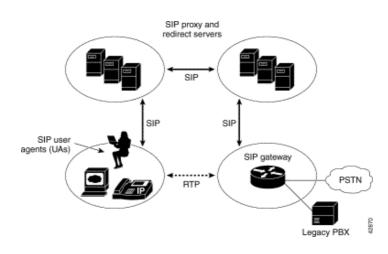
User agent client (UAC)—A client application that initiates the SIP request.

User agent server (UAS)—A server application that contacts the user when a SIP request is received and that returns a response on behalf of the user.

Typically, a SIP end point is capable of functioning as both a UAC and a UAS, but functions only as one or the other per transaction. Whether the endpoint functions as a UAC or a UAS depends on the UA that initiated the request.

From an architecture standpoint, the physical components of a SIP network can be grouped into two categories: clients and servers.

#### Architecture



#### **SIP Clients**

SIP clients include the following:

Phones—Can act as either a UAS or UAC. Soft phones (PCs that have phone capabilities installed) and SIP IP phones can initiate SIP requests and respond to requests.

Gateways—Provide call control. Gateways provide much functionality. The most common one is a translation function between SIP conferencing endpoints and other terminal types. This function includes translation between transmission formats and between communications procedures. In addition, the gateway also translates between audio and video Codec and performs call setup and clearing on both the LAN side and the switched-circuit network side.

#### **SIP Servers**

SIP servers include the following:

Proxy server—The proxy server is an intermediate device that receives SIP requests from a client and then forwards the requests on behalf of the client's. Basically, proxy servers receive SIP messages and forward them to the next SIP server in the network. Proxy servers can provide functions such as authentication, authorization, network access control, routing, reliable request retransmission, and security.

Redirect server—Provides the client with information about the next hop or hops that a message should take, then the client contacts the next hop server or UAS directly.

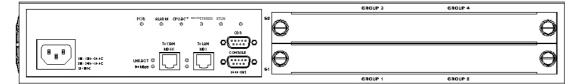
Registrar server—Processes requests from UACs for registration of their current location. Registrar servers are often co-located with a redirect or proxy server.

# 3. Package Contents

1		
Х	1	
Х	1	(For VG3310/3318)
Х	1	
Х	4	(For VG3310/3318)
Х	1	
Х	1	
	x x x x x x	X 1 X 1 X 1 X 4 X 4

# 4. Panel Descriptions

## 4.1. Front Panel



#### VG3318 Front Panel



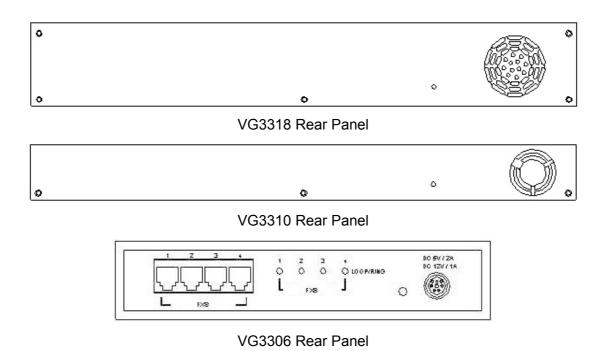
VG3310 Front Panel

			CONSOLE	RESERVED		PC		LAN/ Internet	
	CPU/ACT				LNK/ACT 🔾		0		
0	0	0			100Mbps 🔾		0		
PWR	REGISTERED	STUN	9600 8N1			MDI-X		MDI	

VG3306 Front Panel

### 4.2. Rear Panel

There is a button on the rear panel of gateway for special maintenance. Please don't touch this button under normal operation.



# 5. LED Indicators

LED	Label	Description			
10/100	LNK/ACT	On	Link up		
Ethernet		Off	Link down		
		Flash	Sending/Receiving		
			data packets		
	100Mbps	On (LNK is on)	100Mbps		
		Off (LNK is on)	10Mbps		
LOOP/RING	FXS	On	Off hook		
		Off	On hook		
		Flash	Ringing out		
	FXO	On	Line is active		
		Off	Line is inactive		
		Flash	Ringing in		
Device	Alarm	The red light "On" indicates that system ha			
		some problem; please contact your vender.			
	Power	"On" indicates that the power supply is			
		working normally.			
	CPU/ACT	"On" indicates that the CPU is working			
		normally.			
	Registered	"On" indicates that all SIP entities are			
		registered successful.			
		"Off" indicates that all SIP entities are			
		registered fail.			
		"Flash" indicates that one of these SIP			
		entities is registered fail.			
	STUN	"On" indicates communicate with STUN			
		Server once.			
			er communicate with		
		STUN Server.			

# 6. Connectors

Ports	Label	Description
Voice Ports	FXS	Connects to a telephone set or fax
		machine
	FXO	Connects to the phone line
Ethernet	LAN/Internet	RJ-45 connector
Ports		MDI-X connects to a Modem
	PC	RJ-45 connector
		MDI connects to a PC
Console Port	Console	RJ-45 connector/RS-232 Interface
(Only VG3306/3310/3318)		

# 7. IDC Connectors (Only for VG3310/3318)

IDC connector is used for the voice interface (FXS and FXO) on the frame model. IDC connector can easily connect PBX line and telephone wire together to the gateway. No special tools are required; please follow the instruction to install:

(Remarks: For IDC connector, it's better to use No. 24 wire, e.g. CAT 5)

Get the material ready	
Insert the insulated wires directly into the block for wire insertion	
TEEP Push the block down until it is locked to flush the conductor with the probe	Push from here
Cut off the conductor outside the edge to avoid from causing the circuit shortage	

# 8. Information required before Installation

You need to prepare the following information before installing the gateway.

# 8.1. IP Address

The gateway requires an IP address for operation. Before installation you need to know how to obtain an IP address from your local ISP. Static IP, DHCP or PPPoE can be used. The following table helps you to decide what information you need. If your ISP offers static IP, you may need to obtain an IP from MIS personnel in order to prevent an IP conflict. Otherwise DHCP (most cable broadband providers offer this) and PPPoE (most ADSL broadband providers offer this) will work fine.

IP Environment		Requiring information
Static IP Public IP		IP Address
	Address	Subnet Mask
		Default Gateway
		It is strongly suggested that you obtain an
		IP address from MIS personnel in order to
		prevent an IP conflict.
	Private IP	IP Address
	Address	Subnet Mask
		Default Gateway
		It is strongly suggested that you obtain an
		IP address from MIS personnel in order to
		prevent IP conflicts.
		Your private IP requires an IP Sharing
		device and you must configure the IP
		Sharing device to treat the gateway and the
		IP that it is using as a virtual server.
Dynamic IP address (DHCP)		DHCP mode
PPPoE		Account Number
		Password
		Your ISP normally provides this information.
		If you don't have this information please
		contact your ISP.

# 8.2. SIP Information

Before configuring SIP, the VG3300 requires SIP information for operation. The following table helps you to decide what information you need.

Items	Description
1. SIP Proxy	If you want to make SIP calls through SIP proxy
	server, you will need to know the IP address or
	domain name of SIP proxy server. The proxy
	server is an intermediate device that receives
	SIP requests from a client and then forwards
	the requests on the client's behalf. If you don't
	know which SIP proxy for setting, contact your
	SIP service provider.
2. Public Address (SIP Account)	The public address is like phone number, you
Example: sip@edge-core.com	can get the account from your SIP service
	provider.
3. Outbound Authentication	You will need the information when the SIP
	proxy server requires authentication. You can
	get this authentication information from SIP
	service provider when you apply for the service.

## 8.3. Prepare a password for Web Management

You will need to prepare a password for Web based Management. It can be a digit and/or letter combination ranging from 1 to 6 digits (E.g. 123). For security reason, password must be set to enter the Web Management page.

# 9. Installation and Configuration

After preparing the information you need as specified in section 5, follow the following steps to do the basic configuration. You can use either a telephone or a system console to perform basic configurations. It is simple to connect a telephone set to FXS port and configures the system. If you want to use system console to configure the system (Only VG3306/3310/3318 support), you have to configure your VT100 terminal to match the settings of the gateway's console port. The console port's terminal connection is set to 9600 baud, 8 data bits, 1 stop bit and no parity. Turn on the gateway's power and wait for the terminal to display "Press Enter..." follow the directions to begin.

Here are several procedures to do:

- 1. Confirming the Region ID.
- 2. Configure IP address of gateway.
- 3. Enter into the WEB page.
- 4. Plan and configure the channels into SIP entity.
- 5. Configure SIP proxy and register information.
- 6. Configure SIP entity information.
- 7. Configure Outbound Authentication (If needs).
- 8. Configure STUN (If your gateway is behind NAT).
- 9. Check the SIP entity if is registered successful.
- 10. Configure Phone book (If needs)
- 11. Make a SIP call.

### 9.1. Confirming the Region ID

About the Region ID, please refer to Section 15.5 Region ID.

#### 9.1.1. Phone Setting

- 1. Connect the power.
- 2. Connect the phone cable to the "Phone" socket on the rear panel as pictured above.
- 3. When the CPU/ACT LED is on, pick up the handset and listen for the dialing tone.
- 4. Dial "##0000" and listen for 3 short beep.
- 5. Dial "95<u>07</u>#" ; Assuming you are modifying for China (The last 2 digits are the regional ID)
- 6. Dial "97<u>1</u>#" ; Sets the new regional ID.
- 7. Hang up the phone. The device will be updated with the new region setting after it restarts (restart time is about 10 seconds)

### 9.1.2. System console settings (Only VG3306/3310/3318)

SIP-RG>enable
SIP-RG #configure
Enter configuration commands, one per line. End with CNTL/Z
SIP-RG(config)#regional\_id 07
SIP-RG(config)#exit
SIP-RG#delete nvram
This command resets the system with factory defaults.
All system parameters will revert to their default factory settings. All static and dynamic addresses will be removed.
Reset system with factory defaults, [Y]es or [N]o? Yes

Attention:

Before Changing the Region ID, the system has to be reset to the default value. Therefore this step should be done first.

The following instruction may keep the IP address unchanged after reset:

"delete nvram keep\_ip"

### 9.2. IP Address Settings

We recommend using a traditional phone to configure the unit's parameters, as this is the easiest way. The following two sections contain the procedures used to configure the gateway according to how you obtain your IP address (Static IP; DHCP or PPPoE).

Every time you set a parameter item and press the "#" key to complete it, a successful setting will be confirmed by three equal tones in succession. If your setting is unsuccessful you will be prompted with one long tone.

### 9.2.1. Static IP Mode

IP Address	210.67.96.121
Subnet Mask	255.255.255.248
Default Gateway	210.67.96.120
Web Management	123
Password	

The following table shows an example.

Using the information contained in the example above. The procedure is as follows:

- 1. Connect the gateway to a suitable Power source.
- 2. Connect a traditional phone set to the "FXS" connector located on the rear panel.
- 3. When the CPU/ACT light is on, pick up the phone to hear the dialing tone.
- 4. ##0000 ; you should hear three short tones.
- 5. 01<u>0</u># ; the digit "0" is used to enable "manual" IP mode.
- 6. 02<u>210\*67\*96\*121</u># ; IP address.
- 7. 03<u>255\*255\*255\*248</u># ; Subnet Mask.
- 8. 04<u>210\*67\*96\*120</u># ; Default Gateway.
- 9. 15<u>123</u># ; "123" is the web management password.
- 10. 98<u>1</u># ; Warm-restarts.
- 11. Hang up the phone. The system should now restart.

You can also use console to configure IP address. But phone number can't be configured by console.(Only VG3306/3310/3318)

SIP-RG>enable

SIP-RG#configure

Enter configuration commands, one per line. End with CNTL/Z

SIP-RG(config)#ip state user

SIP-RG(config)#ip address 210.67.96.121 255.255.255.248

System need to restart

SIP-RG(config)#ip default-gateway 210.67.96.120

SIP-RG(config)#exit

SIP-RG#restart

This command resets the system. System will restart operation code agent.

Reset system, [Y]es or [N]o? Yes

#### 9.2.2. DHCP Mode

1. Connect the gateway to a suitable Power source.

- 2. Connect a traditional phone set to the "FXS" connector located on the rear panel.
- 3. When the CPU/ACT light is on, pick up the phone to hear the dialing tone.
- 4. ##0000 ; you should hear three short tones.
- 5. 01<u>1</u># ; the digit "0" is used to enable "manual" IP mode.
- 6. 15<u>123</u># ; "123" is the web management password.
- 7. 98<u>1</u># ; Warm-restarts.
- 8. Hang up the phone. The system should now restart.

You can also use console to configure IP address.

SIP-RG>enable

SIP-RG#configure

Enter configuration commands, one per line. End with CNTL/Z

SIP-RG(config)#ip state dhcp

SIP-RG(config)#exit

SIP-RG#restart

This command resets the system. System will restart operation code agent.

Reset system, [Y]es or [N]o? Yes

#### 9.2.3. PPPoE Mode

If your network environment is using PPPoE, you need to prepare the information as specified in section 8. Information required before Installation.

The following table shows an example.

PPPoE Account	83721@hinet.net
PPPoE Password	123ab
Web management password	123

There are three ways to configure user name and password of PPPoE

#### 1. Use phone set to configure:

You can configure the user name and password by using phone set. The command '09' is used for username and '10' is for password of PPPoE. Since the user name and password use characters and digits are accepted by phoneset only, you need a mapping between characters and digits. You can find them at section 15.4

Mapping table of characters used in PPPoE.

Example user name: 83721@hinet.net , Password: 123ab , The procedure is below

- 1. Connect the phone to the gateway
- 2. When CPU/ACT is light, pick up the phone and press

3. ##0000	; You will hear 3 short tones.
4. 0938333732314068696*465742*46*46574#	; Set user name : 83721@hinet.net
5. 103132336162#	; Set password is 123ab
6. 981#	; Save and restart.

#### 2. Use Console to configure (Only VG3306/3310/3318)

SIP-RG>enable SIP-RG#configure Enter configuration commands, one per line. End with CNTL/Z SIP-RG(config)#pppoe username 83721@hinet.net SIP-RG(config)#pppoe password 123ab SIP-RG(config)#exit SIP-RG(config)#exit SIP-RG#restart This command resets the system. System will restart operation code agent. Reset system, [Y]es or [N]o? Yes

#### 3. Use WEB Interface to configure:

You can configure the user name and password by using WEB interface. Follow the steps to finish configuration.

Step 1: Using a traditional phone set to configure the web management password and phone number

You will need to use a web browser to perform the PPPoE settings through the gateway's web based management interface. To enter the web based management interface you must have a previously configured password. Follow the next procedure to setup your password and phone number.

- 1. Connect the gateway to a suitable Power source.
- 2. Connect a traditional phone set to the "Phone" connector located on the rear panel.
- 3. When the CPU/ACT light is on, pick up the phone. You should hear the dialing tone.
- 4. ##0000 ; you should hear three short tones.
- 5. <u>15123</u>; "123" is the web management password.

- 6. 010# ; "0" is to enable "manual" IP mode.
- 7. 02192\*168\*0\*2# ; IP address.
- 8. 03255\*255\*255\*0# ; Subnet Mask .
- 9. 98<u>1</u># ; Used to restart the gateway.
- 10. Hang up the phone to complete the configuration.

Step 2 : Configure IP address of PC

Use the provided Ethernet cable to connect your PC to the port labeled "PC", located on the rear panel of the gateway. For VG3306, VG3310, and VG3318, it is located on the front panel.

Because the gateway's default IP setting of this is 192.168.0.2, you must configure your PC to the same subnet. "192.168.0.x" for example. The following example uses 192.168.0.5 for the IP address and 255.255.255.0 for the subnet mask.

	UI -> IBM 10/				
	P -> Accton E P -> Dial-Up A		PUI Fast El	hernet Ad	lapté
	P-> IBM 10/1	2.5	PCI Adapte	r	
🚚 File an	d printer shari	ng for Micros	oft Network	s	
4					
Ado	L	Remove		Properti	ies
Primary Ne	twork Logon:				
Client for N	ficrosoft Netv	vorks			
		- 4			
<u>F</u> ile an	d Print Sharing	g			
- Descripti	on				
	the protocol	you use to c	onnect to t	he Interne	t and

After you have completed the PC's IP address setting, you will be required to restart the PC in order for the new settings to take effect.

Step 3: Using the browser to configure the PPPoE Parameters of the gateway.

Address 2 192.168.0.2		✓ ∂Go Links »
The gateway's IP address (192.168.0. 2)	Enter Network Password     ? x       Please type your user name and password.     "WEB" should       Site:     192168.0.2       Realm     WallyWorld       User Name     WEB       Password	
] Opening page http://192.168.0.2/ <b>▲ Start    (1) @ © 12    (2) a a</b>		v Miniemet

On the PC that is connected to the gateway, enter the gateway's IP address (Default 192.168.0.2) and press enter. The gateway will then prompt you with a dialogue box requesting that you enter a password. Use "WEB" (all capitals), for the User field and "123" for the password field that you have previously configured. Click the OK button; you should now have access to the gateway's web based management interface page.

#### Upon entering the web based configuration interface.

Click on "IP SETTING" at the top of the page and you will see the page as shown in the following image.

Select PPPoE from the "IP State" pull down menu.

Fill in the "Account", "Password", and "Confirm Password" under the PPPoE Settings. You can obtain this information from your ISP.

Click on the Apply button.

Click the "BASIC" button at the top to go to the BASIC page and select "Warm Start" to restart the gateway. You can also perform a warm start using the phone by picking up the handset and dialing "##0000" then "981#".

After restarting, the gateway will use PPPoE to obtain it's IP address.

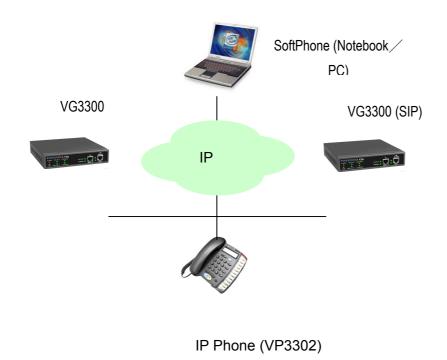
Edgo-corE Powered by Accto		eway°VG3300	Series
Click "IP setting" to open this display	HOME BASIC IP State 2 Current Settings IP Address Subnet Mask Default Gateway Change To: (Resta IP Address Subnet Mask Default Gateway	Manual 192.168.1.34 255.255.255.0 192.168.1.254 rt is required) 192.168.1.34 255.255.255.0 192.168.1.34 255.255.255.0 192.168.1.254	ED CHANNEL PHONEBOOK Apply Revert 4 Click the "Apply" button to apply any changes.
	PPPoE Settings: (Res Account Password Confirm Password DNS Server: (Restar Primary Address Secondary Address Web Password (Rea User Name Password Confirm Password	t is required) 168.95.1.1 0.0.0.0	

Edgedref	SIP G	ateway <sup>®</sup> VG3300 Se	CHANNEL PHONEBOOK
GENERAL 🥊	<u>Information</u> Region ID	0 (Taiwan)	6
		1.07.0 1.01 3.00 4 PORT_FXS	Click the "Apply" button to apply any changes.
	Up-Time MAC Address Date Time	0 day 4 hr 56 min 31 sec 00-03-62-80-4C-AC 2000/01/01 12:56:30	
	<u>Time Configurati</u> Time Source NTP Server	Registrar 🔽	
	Time Zone DayLight Saving <u>Auxiliary Protocc</u> Signaling Port	Beijing, Hong Kong, Singapore, Taipei	
5	RTP Base Port System Restart Restart Mode	4000 (Need Warm-Restart & Must be Even	number)

At this stage, your gateway should be able to use PPPoE to access the Internet. However, if you configured a wrong account number or password, your gateway cannot access the Internet. You are not able to use PC to access the gateway by using the IP address of 192.168.0.2 because the gateway has been set in PPPoE mode. You have to use phone set to configure the gateway back to fix IP mode (##0000 010#) and use PC browser to configure correct parameters.

# **10. SIP Configuration**

VG3300 not only can make regular PSTN calls, it also can communicate with IP Phones or Soft-Phones by using SIP protocol. Previous paragraphs have described the way to make regular IP calls. This section shows you what parameters you need to configure for SIP calls and how to make the SIP calls.



Notice: These configurations on WEB page, after select or input value in the field, please press "Apply" button to save and confirm the setting. Some parameters need "Warm-restart", please process the restart action, thanks.

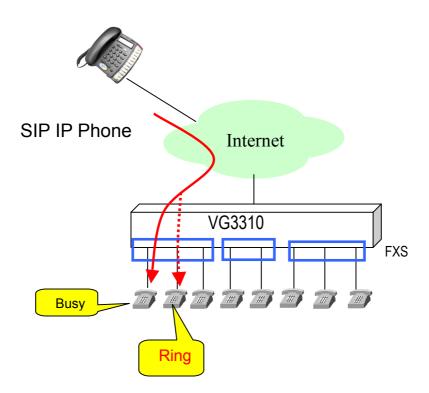
# 10.1. Channels and SIP entity

Many Channels can be assigned as on SIP Entity. Single Channel also can be assign as on SIP Entity.

#### Application example:

As the figure below, Channel 1-3 belongs to SIP Entity 1: <u>001@edge-core.com</u>. Channel 4 and Channel 5 belongs to SIP Entity 2: <u>002@edge-core.com</u>. and Channel 6-8 belongs to SIP Entity 3: <u>003@edge-core.com</u>. When other device under SIP network dial into <u>001@edge-core.com</u>, the phone connect to Channel 1 is ringing. If Channel 1 is under conversation (busy), the line will be switched to Channel 2, and so on. So Channel 1~3 become a simple Hunting Group. (This feature needs the support of SIP Proxy Server).

Figure:



Configuration: WEB page: CHANNEL\

Channel 1 💌	Select
<u>Information</u>	
Channel Type	Phone
Channel Control	BothWay 🗸
Current State	Enable
Don't Disturb	Disable 🗸
Silence Suppression	Enable -
2833 In Use	No
Join SIP Entity	1 💽 (Need Warm-Restart)

Notice: Each channel must belong to a SIP entity.

### 10.2. SIP Proxy and Register Parameters

You need to configure IP address or Domain name of Registrar and Outbound Proxy server, please check the information is right.

SIP service provider will give you an IP address or Domain name of Registrar and Outbound proxy when you apply for the service.

#### Configuration

WEB Page: ADVANCED\SIP COMMOM

	HOME	BASIC IP SETTINGS	ADVANCED	CHANNEL PHONEBOOK
GENERAL 🌻				Apply Revert
SIP COMMON 🌻	( After setting parament Port and Hea	ters of this page , Need Warm-Restart ) ader		
SIP OUTBOUND AUTHENTICATION	port Handra Farm	5060		
SIP INBOUND	Header Form Outbound Pr	Standard 💽 (SIP Message Hea	ider Form)	
STUN 🌻	Domain Name	fwd.pulver.com	Enable 💌	
DIALING PLAN 🌻	Port	5060		
INBOUND TRANSIT	<u>Registrar Se</u>	tting		
	Domain Name	fwd.pulver.com	Enable 💌	
	Out-of-Band Control	DTMF Disable		-

Notice: The Registrar Server is only for SIP entity registering. If the SIP entity register is fail, please check the item. SIP calls are all through Outbound Proxy Server, if the parameter is not configured, the SIP call will fail. So the two parameters must be configured. If Outbound Proxy Setting is Enabled and Registrar Setting is Disabled, then all SIP call is routed to Outbound Proxy.

# 10.3. SIP Entity

SIP service provider will assign one or more SIP accounts for you when you apply for the service. In standard, the SIP account is called 'Public Address', so you need to configure the account information in 'Public Address' item. The format is like an E-mail address such as <u>mary@edge-core.com</u>.

The Public Address will be generated automatically with the format below if user keeps the Public Address empty.

"Default account's username" @ "Registrar" if you had enter the information below

- 1. Registrar Setting. For example: fwd.pulver.com, which configured at 10.2 SIP Proxy and Register Parameters
- 2. Username of Default Account. For example: 413189, which is configured at below graph

For example: If the two data above is created, then the Public Address will be 413189@ fwd.pulver.com

Input Username and Password here if SIP Proxy needs it for authentication. This account information also helps you to create Realm for SIP Outbound Authentication and Public Address.

#### Configuration

WEB Page: ADVANCED \ SIP COMMON

SIP Entity	1 - Select
Entity Control	Enable
Register Status	REGISTERED Register De-Register
CLIR	Disable  (Calling Line Identification Restriction)
Public Addre	<u>ss Setting</u>
ADDRESS	413189@fwd.pulver.com
Default Account	
Username	413189
Password	**** Confirm Password

You can control the SIP entity on WEB page, just select 'Enable' or 'Disable'.

### 10.4. SIP Outbound Authentication

You need to configure outbound authentication for each SIP entity if SIP proxy server or other SIP phone request for authentication. Please check with SIP service provider if you need the setting. Please select the entity then input information includes realm, username, and password.

"Realm" is a kind of verification for SIP Outbound Authentication. If SIP service provider does not provides this information. The gateway will create a default Realm (by string USER-UNSPECIFIED-REALM) automatically with your Username and Password mentioned on last section for SIP Outbound Authentication. If there are more than one SIP entity is registered on this gateway. The gateway creates Realm for each entity. The default Realm helps you to register the SIP server successfully.

#### Configuration

WEB Page: ADVANCED \ SIP OUTBOUND AUTHENTICATION

Edgedreft		P Gate	way®V	G3300 Series
GENERAL 🌻	номе	BASIC	IP SETTINGS	ADVANCED CHANNEL PHONEBOOK Apply Revert
SIP COMMON 💡 SIP OUTBOUND 💡 AUTHENTICATION 💡	<u>SIP Outbou</u> Maximum: Entered:	nd Authent 50 4	<u>ication</u>	
SIP INBOUND AUTHENTICATION STUN DIALING PLAN	2 USE 3 USE	Realm R-UNSPECIFI R-UNSPECIFI R-UNSPECIFI R-UNSPECIFI	ED-REALM	Page: 1 / 1 Select Username 3810 3811 3312 3813
	Update Entry	Entity ALL V Password	Realm Confirm Password	Username
	Delete Entry	Entity	Realm	

### 10.5. Configure STUN

The STUN (Simple Traversal UDP through NAT) server is an implementation of the STUN protocol that enables STUN functionality in SIP-based systems. The STUN server also includes a client API to enable STUN functionality in SIP endpoints.

STUN is an application-layer protocol that can determine the public IP and nature of a NAT device that sits between the STUN client and STUN server.

Notice: If your gateway is behind NAT (Use Private IP), must configure the parameter.

#### After configuring the parameters of STUN, please act Warm-Restart.

#### Configuration

#### WEB Page: ADVANCED\STUN

SIP COMMON 🌻	<u>STUN Serv</u> Control:	/er Enable 💌	
SIP OUTBOUND AUTHENTICATION	NAT WAN ( Address	IP 0.0.0.0	( When STUN Disabled )
SIP INBOUND AUTHENTICATION	<u>STUN Serv</u> Maximum:	ver Setting	
STUN 🥊	Entered:	0	
DIALING PLAN 🌻	List:		
INBOUND TRANSIT		IP Address	Port
	Add	61.222.217.79	3478
	Delete		

You can enable and disable the service on WEB page.

The STUN refresh time defines how long the device will send a binding request packet with discard flag on to STUN server. A binding packet with discard flag off will be sent each time when the number of binding request packet with discard flag on reach the Rebinding counts. The binding request packet is used to let the STUN server keep the most fresh client information.

## 10.6. Check SIP entity Status

You can use the WEB page to check the SIP entity is registered successful or unsuccessful.

WEB Page: ADVANCED\SIP COMMOM

SUP OFFICIAL								
Instant	Powered by Acct		Gate	wave	1633	00 54	rias	
GENERAL       CAP: setting parameters of this page, Need Warm-Restart )         SIP COMMON       Port       Sou         Market Form       Survice       Survice         SIP INBOUND       Outbound Proxy Setting       Enable *         SUM       Domain Name [02.168.1.36       Enable *         OutLoand Proxy Setting       Domain Name [02.168.1.36       Enable *         Outloand Proxy Setting       Domain Name [02.168.1.36       Enable *         Domain Name [02.168.1.36       Enable *       Out-of-Band DTME         Control       Domain Name [02.168.1.36       Enable *         NAT Signalling Keep Alive       Control       Deable *         Control       Deable *       Target the media (RTP)         Via       SP *       Codec Type G. 729.8       G.723.1 PCML PCMA         Selected       P       P       P       Codec Type G. 729.8       G.723.1 PCML PCMA         Codec Type G. 729.8       G.723.1 PCML PCMA       Selected       P       P       P         Codec Type G. 729.8       G.723.1 PCML PCMA       Selected       P       P       P       P         Codec Type G. 729.8       G.723.1 PCML PCMA       Selected       P       P       P       P       P       P       P			Gate	May	055			
SIP COMMON       (After setting parameters of this page, Need Warm-Restort)         PORT and Header       port         AUTHENTICATION       Port         STRING       Domain Name         STRING       Domain Name         STRING       Domain Name         STRING       Domain Name         Domain Name       192.106.1.36         Decord       108.20         Codec Selection       Codec Selection         Codec Priority       6729.40         Selected       7.23.1       PCM         Selected       7.23.2       PCMJ         Public Address Setting       Codec Priority       6729 - 6723.4         Default Account		HOME	BASIC	IP SETTIN	GS AD	VANCED		
Port and Header prt 500 SPINEOUNON SPINEOUNON SPINEOUNON STUNE DOMAIN VARIE [32:161.36 Port 500 Registrar Setting Domain Name [32:161.36 Enable Domain Name [32:161.36 Domain Name [32:161.36 Domain Name [32:161.36 Domain Name [32:161.36 Domain Name [32:161.36 Codec Type G 729AB G 723.1 PCM PCMA Selected Codec Type G 729A G 723.1 PCM PCMA Sele	GENERAL 🂡						Apply Revert	
	SIP COMMON 🌻			page , Need	l Warm-Res	start )		
Pleader Form       Studied       (SIP Message Header Form)         Outbound Proxy Setting       Domain Name       Studies         DALING PLAN       Port       Stool         Port       Stool       Prote         Domain Name       Stool       Stable         Domain Name       Stool       Stable         Domain Name       Stool       Stable         Domain Name       Stool       Stool         Domain Name       Stool       Stool         Domain Name       Stool       Stool         Domain Name       Stool       Stool         Date-of-Band DTME       Control       Disable         Incoming Call Screening       Streening       Streening         Streening       Disable       Incoming Call Screening         Streening       Disable       Incoming Call Screening         Control       Disable       Incoming Call Screening         Streening       Streening       Streening         Control       Disable       Incoming Call Screening         Streening       Streening       Streening         Codec       Type       Register         Codec Type       G729AB       G723.1       PCMA         Sto	SIP OUTBOUND							
Autocolor       Outbound Proxy Setting         STUN       Domain Name       192.108.1.36       Enable         DIALING PLAN       Port       5660         Registrar Setting       Domain Name       192.108.1.36       Enable         Out-of-Band DIME       Control       Disable       Incoming Call Screening         Streening       Disable       Incoming Call Screening         Control       Disable       Incoming Call Screening         Control       Disable       Incoming Call Screening         Control       Disable       Incoming Call Screening         Codect       Streening       Streening         Via       ©P       Codect Scleening         Codect Scleetion       Codect Scleeting       PCMA         Codect Priority       G723 - G723 - PCMU - PCMA       Pcmet         Rotice Status FAIL       Register Status FAIL       Register Status FAIL       Pcmet </th <th></th> <th>Header Form [</th> <th>Standard 💌</th> <th>(SIP Mes</th> <th>sage Hea</th> <th>der Form</th> <th>)</th>		Header Form [	Standard 💌	(SIP Mes	sage Hea	der Form	)	
Difficient result       Port       Dots         Port       Dots       Port         Port       Dots       Port         Port       Dots       Port         Domain Name 192:108.1.36       Enable *         Out-of-Band DTMF       Control       Disable *         Control       Disable *       Incoming Call Screening         Streening       Disable *       NAT Signalling Keep Alve         Control       Disable *       Control         Via       Step       Top *         Codec Type       G723-PCMU-PCMA *       ****         Codec Type       G723 - G723 - PCMU - PCMA *       ****         Codec Priority       G729 - G723 - PCMU - PCMA *       ****         Codec Status FAIL       Register       Register         Register Status FAIL       Register       Register         Colar Codecess Setting       ****       Confirm Password       ****         Default Account       Username <th>AUTHENTICATION</th> <th>Outbound Pro</th> <th>xy Settin</th> <th>g</th> <th></th> <th></th> <th></th>	AUTHENTICATION	Outbound Pro	xy Settin	g				
Register Setting         Domain Name 192.08.1.36         Out-of-Band DTME Control         Control         Disable         Incoming Call Screening Screening         Streening         Streening         Disable         NAT Signalling Keep Alive Control         Control         Codec Selection         Codec Type         Code Type         G729-G723-PCMU-PCMA         Code Priority         G729-G723-PCMU-PCMA         Code Priority         SIP Entity         Colte Status FAIL         Register         CLIR         Public Address Setting         ADDRESS         SBID@192.186.1.36         Default Account         Username         Gauter         Context Address Setting         Current       3810         Setting         REC 2833 DTMF         Register Setting         Corrent       3810         Setting         REC 2833 DTMF         Forward       Type: More *         Address         SIP Entity Members         Contect Addresss         Peroutet *	STUN 🤤	Domain Name 🛛	192.168.1.36		Enal	ble 💌		
Domain Name 192.168.1.36   Out-of-Band DTMF   Control Disable •   Incoming Call Screening   Screening Disable •   NAT Signalling Keep Alive   Control Disable •   NAT Signalling Keep Alive   Control Disable •   Target the media (RTP)   Via SIP   Via SIP   Codec Selection   Codec Type   Codec Type   G.723.1   PCMJ   SIP Entity   Intervention   SIP Entity   Intervention   SIP Entity   Intervention   Via   SIP Entity   Intervention   SIP Entity   Intervention   SIP Entity   Intervention   Codec Selection   Codec Type G.729AB   Codec Priority   G729-G723-PCMU-PCMA   Codec Priority   G729-G723-PCMU-PCMA   SIP Entity   Intervention   SIP Entity   Intervention   Public Address Setting   ADDRESS   Balo   Password   Current   3810   Setting   Recitate *   Provard Io   Forward   Provard Io   Forward   Provard Io   Forward   Intervention   SIP Entity Members   Channel   O1   O2   O4	DIALING PLAN 💡	Port 🛛	5060					
Out-of-Band DTME Control Disable Control Co		Registrar Sett	ing					
Control Deskle   Incoming Call Screening   Screening   Deskle   NAT Signalling Keep Alive   Control   Deskle   Target the media (RTP)   Via   SCP   Via   SCP   Codec Type   G.729AB   G.729A   Piblic Address   SID   G.729A   Password   Context Address   SID    G.740   Forward		Domain Name 🛛	192.168.1.36		Enal	ble 💌		
Incoming Call Screening         Streening         Disable         NAT Signalling Keep Alive         Control       Disable         Iarget the media (RTP)         Via       SDP         Via       SDP         Codecs Selection         Codec Type       G.729.4 B         Godec Type       G.729.4 B         Selected       V         Codec Priority       G729-G723 - PCMU - PCMA         Codec Priority       G729-G723 - PCMU - PCMA         Codec Priority       G729-G723 - PCMU - PCMA         Entity Control       Enable         Register Status FAIL       Register         DerRegister       CLIR         Desable       (Calling Line Identification Restriction)         Public Address Setting       ADDRESS         ADDRESS       S0009192 166.1.36         Default Account       Username         Username       3810         Password       ****         Contact Address Setting         Current       3810         Setting       Type: None         Porward Io       Type: None         Forward Io       Type: None         Forward Io       Type: None		Out-of-Band [	DTME					
Screening Deable - NAT Signalling Keep Alive Control Deable - Target the media (RTP) Via SOP - Via SOP - Codecs Selection Codec Type G.729AB G.723.1 PCMU PCMA Selected Priority G729-G723-PCMU-PCMA - Codec Priority G729-G723-PCMU-PCMA - Codec Priority G729-G723-PCMU-PCMA - Codec Priority G729-G723-PCMU-PCMA - Codec Priority G729-G723-PCMU-PCMA - Entity Control Enable - Register Status FAIL Register CLIR Deable - Register Status FAIL Register CLIR Deable - (Calling Line Identification Restriction) Public Address Setting ADDRESS 301009192.166.1.36 Default Account Username 3810 Pessword **** Confirm Password - Contact Address Setting Current 3810 Setting RFC 2833 DTME 2833 DTMF 2833 DTMF 283		Control [	Disable 💌					
NAT Signalling Keep Alive         Control       Disable         Target the media (RTP)         Via       SDP         Codecs Selection         Codec Type       G.729AB         Codec       P         Codec Type       G.729AB         Selected       P         Codec Type       G.723 - PCMU PCMA         Selected       P         Codec Priority       G729 - G723 - PCMU - PCMA         Codec Optionity       G729 - G723 - PCMU - PCMA         Codec Optionity       G729 - G723 - PCMU - PCMA         SIP Entity       I       Select         Entity Control       Enable       P         Register Status FAIL       Register       DerRegister         CLIR       Disable       (Calling Line Identification Restriction)         Public Address Setting       ADDRESS       3810@192.168.1.36         Default Account       Username       3810         Username       3810       Seting         Ref C 2833 DTMF       Negotate          Eorward Io       Type: None          Forward Io       Type: None          Forward Io       Type: None          Forward Io       O1       02       04				g				
Control Disable - Target the media (RTP) Via SOP - Codect Selection Codec Type G.729AB G.723.1 PCMU PCMA Selected P Priority G729 - G723 - PCMU - PCMA - Codec Priority G729 - G723 - PCMU - Codec Priority G729 - G723 - PCMU - Codec Priority G729 - G723 - PCMU - Codec Priority G729 - G723 - Codec Priority G729 - G723 - Codec Priority G729 - G729 - Codec Priority G729 - Co		Screening	Disable 💌					
I arget the media (RTP)         Via       SDP         Via       SDP         Codecs Selection         Codec Type       G.729AB         G.729AB       G.723.1         PCMU       PCMU         Selected       IF         Image: Codec Priority       G729 - G723 - PCMU - PCMA         Codec Priority       G729 - G723 - PCMU - PCMA         Codec Priority       G729 - G723 - PCMU - PCMA         Codec Priority       G729 - G723 - PCMU - PCMA         Codec Priority       G729 - G723 - PCMU - PCMA         Codec Priority       G729 - G723 - PCMU - PCMA         SIP       Entity Control         Fault       Register         Codec Selection       Entity Control         Register Status FAIL       Register         CLIR       Disable Image: (Calling Line Identification Restriction)         Public Address Setting       ADDRESS         Password       Image: Confirm Password         Password       Image: Setting         REC 2833 DIMF       Negotate Image: Setting         Record To       Type: Image: Setting         Portward Image: Setting       Type: Image: Setting         SID Entity Members       Type: Image: Setting				<u>ve</u>				
Via SDP Codecs Selection Codec Type G.729AB G.723.1 PCMU PCMA Selected $\overrightarrow{v}$ $\overrightarrow{v}$ $\overrightarrow{v}$ $\overrightarrow{v}$ Codec Priority G729 - G723 - PCMU - PCMA Codec Priority G729 - G723 - PCMU - PCMA Codec Priority G729 - G723 - PCMU - PCMA SIP Entity G729 - G723 - PCMU - PCMA SIP Entity G729 - G723 - PCMU - PCMA SIP Entity G729 - G723 - PCMU - PCMA Register Status FAIL Register Entity Control Enable C (Calling Line Identification Restriction) Public Address Setting ADDRESS Setting ADDRESS Setting Password **** Confirm Password Contact Address Setting Current 3810 Setting REC 2833 DTMF Negetate C Forward Io Forward IO Fo		Control [	Disable 💌					
Codecs Selection         Codec Type         SIP Entity         Select         Entity Control Enable         Register Status FAIL         DeRegister         CLIR         Displic Address Setting         ADDRESS         Select         ADDRESS         Select         Default Account         Username         Basword         *****         Confirm Password         Current         Setting         Current         Setting         Confirm Password         Setting <td col<="" th=""><th></th><th></th><th>-</th><th>-</th><th></th><th></th><th></th></td>	<th></th> <th></th> <th>-</th> <th>-</th> <th></th> <th></th> <th></th>			-	-			
Codec Type       G.729AB       G.723.1       PCMJ       PCMA         Selected       IP       IP       IP       IP         Codec Priority       G729 - G723 - PCMU - PCMA       IP       IP       IP         Codec Priority       G729 - G723 - PCMU - PCMA       IP       IP       IP       IP         Codec Priority       G729 - G723 - PCMU - PCMA       IP       IP       IP       IP         Codec Priority       G729 - G723 - PCMU - PCMA       IP       IP       IP       IP         Codec Priority       Select       Entity       IP       IP       IP       IP         SIP Entity       IP       Select       Entity Control       Enable IP       DeRegister       DeRegister         CLIR       Desable IP       (Calling Line Identification Restriction)       Public Address       Saturation Restriction)         Public Address Setting       ADDRESS       3810@192.168.1.36       Default Account       Username       3810         Default Account       Username       3810       Setting       Ence Cas33 DTME       2833 DTME       2833 DTME       2833 DTME       2833 DTME       Forward To       Forward To       Forward To       Type: None IP       Address       SIP Entity Members       DIA		Via [	SDP	•				
Selected I   Codec Priority   G729 - G723 - PCMU - PCMA   Codec Priority   G729 - G723 - PCMU - PCMA   SIP Entity   I   SIP Entity   I   Belect   Entity Control   Enable   Register Status FAIL   Register Status FAIL   Public Address Setting   ADDRESS   3810   Password   ****   Contact Address Setting   Current   3810   Setting   REC 2833 DTMF   Regulate   Forward 1   Forward 2   Forward 3   Forward 4   Address   SIP Entity Members		Codecs Select	ion					
Selected I   Codec Priority   G729 - G723 - PCMU - PCMA   Codec Priority   G729 - G723 - PCMU - PCMA   SIP Entity   I   SIP Entity   I   Belect   Entity Control   Enable   Register Status FAIL   Register Status FAIL   Public Address Setting   ADDRESS   3810   Password   ****   Contact Address Setting   Current   3810   Setting   REC 2833 DTMF   Regulate   Forward 1   Forward 2   Forward 3   Forward 4   Address   SIP Entity Members		Coder Type	G 729AB	G 723 ·		PCMA		
SIP Entity       1 Select         Entity Control       Enable         Register       De-Register         CLIR       Disable         Ocaling Line Identification Restriction)         Public Address Setting         ADDRESS       3810@192.168.1.36         Default Account         Username       3810         Password       ****         Contact Address Setting         Current       3810         Setting         REC 2833 DTME         2833 DTMF       Negotiate         Forward To         Forward       Type:         Address         SIP Entity Members         Channel       01       02       03								
SIP Entity       1 Select         Entity Control       Enable         Register       De-Register         CLIR       Disable         Ocaling Line Identification Restriction)         Public Address Setting         ADDRESS       3810@192.168.1.36         Default Account         Username       3810         Password       ****         Contact Address Setting         Current       3810         Setting         REC 2833 DTME         2833 DTMF       Negotiate         Forward To         Forward       Type:         Address         SIP Entity Members         Channel       01       02       03		Colder Detection [	0700 0700	DOMU DO	28.4.4			
Entity Control   Entity Control   Register   Register   De-Register   CLIR   Disable   (Calling Line Identification Restriction)     Public Address Setting   ADDRESS   3810@192.168.1.36   Default Account   Username   3810   Password   ****   Contact Address Setting   Current   3810   Setting   REC 2833 DTME   2833 DTMF   Negotiate   Forward To   Forward   Address   SIP Entity Members		Codec Priority	G/29 - G/23	- PUMU - PU				
Entity Control   Entity Control   Register   Register   De-Register   CLIR   Disable   (Calling Line Identification Restriction)     Public Address Setting   ADDRESS   3810@192.168.1.36   Default Account   Username   3810   Password   ****   Contact Address Setting   Current   3810   Setting   REC 2833 DTME   2833 DTMF   Negotiate   Forward To   Forward   Address   SIP Entity Members								
Register Status FAIL Register De-Register   CLIR Disable (Calling Line Identification Restriction)   Public Address Setting   ADDRESS 3810@192.168.1.36   Default Account   Username 3810   Password *****   Contact Address Setting   Current 3810   Setting   RFC 2833 DTMF   2833 DTMF   Negotiate    Forward   Address   SIP Entity Members   Channel 01   02 03		SIP Entity	1 V Selec	t				
CLIR Disable (Calling Line Identification Restriction)   Public Address Setting   ADDRESS 3810@192.168.1.36   Default Account   Username 3810   Password *****   Confirm Password   Password   Current 3810   Current 3810   Setting   RFC 2833 DTME   2833 DTMF   Negotate   Forward To   Forward To   SIP Entity Members   Channel 01   01 02   03		Entity Control [	Enable 💌					
Public Address Setting         ADDRESS       3810@192.168.1.36         Default Account		Register Status F	FAIL	Re	egister	De-Reg	ister	
ADDRESS 3810@192.168.1.36 Default Account Username 3810 Password ***** Confirm Password Contact Address Setting Current 3810 Setting RFC 2833 DTMF 2833 DTMF 2833 DTMF Negotiate  Forward To Forward Address SIP Entity Members Channel 01 02 03 04		CLIR [	Disable 💌 (	(Calling Li	ne Identif	fication Re	estriction)	
Default Account   Username   3810   Password   *****   Confirm Password   Current   3810   Setting   RFC 2833 DTMF   2833 DTMF   Negotiate ▼   Forward To   Forward   Type:   None   Address   SIP Entity Members   Channel   01   02   03   04								
Username 3810 Password ***** Confirm Password Contact Address Setting Current 3810 Setting RFC 2833 DTMF 2833 DTMF Negotiate Eorward To Forward To Forward To SIP Entity Members SIP Entity Members Channel 01 02 03 04		L		8.1.36				
Password ***** Confirm Password Contact Address Setting Current 3810 Setting RFC 2833 DTMF 2833 DTMF Negotiate Eorward To Forward To Forward To Sign Entity Members SIP Entity Members Channel 01 02 03 04								
Contact Address Setting         Current       3810         Setting         RFC 2833 DTMF         2833 DTMF         Negotiate          Forward To         Forward         Address         SIP Entity Members         Channel       01         02       03				Confirm	Decoword		_	
Current 3810 Setting RFC 2833 DTMF 2833 DTMF Negotiate Eorward To Forward Address SIP Entity Members Channel 01 02 03 04		Laponora			Password	1		
Setting          RFC 2833 DTME         2833 DTMF         Negotiate         Forward To         Forward         Address         SIP Entity Members         Channel       01       02       03       04				iġ				
2833 DTMF     Negotiate       Forward To       Forward       Address       SIP Entity Members       Channel     01     02     03     04								
Forward To       Forward       Address       SIP Entity Members       Channel     01     02     03     04		RFC 2833 DTM	<u>1E</u>					
Forward Type: None ▼ Address SIP Entity Members Channel 01 02 03 04			Negotiate 💌					
Address <u>SIP Entity Members</u> Channel 01 02 03 04						] <sub>Type</sub> , [	None	
Channel 01 02 03 04		Address <sup>L</sup>				i iype: [		
			_	02	03	04		
			_					

If the status shows "REGISTERED" means successful, otherwise means fail; please notice that.

When you find the registration is fail, first check the "Registrar Setting" configuration is normal, or not "Enable".

Then check the "Public Address" and "Outbound Authentication" configuration is in normal status. If the configurations are all right, please check the situation with your SIP service provider.

### 10.7. Phone Book

#### 10.7.1. General Phone Book

Since the SIP phone number is not easy for regular phone to dial, VG3300 provide a SIP phone book to let standard phone to make a SIP call easier. The phone book uses index number to map SIP account. User also can configure this index number to build the route by SIP Proxy or build the route without Proxy if destination gateway use fixed IP (Public IP or private IP in VPN) For instance if the phone book is configure as below:

Index	Public Address	Port	Via Proxy	
100	01@61.220.145.70	5060	No	< GW1
200	73797@fwd.pulver.com	5060	Yes	< GW2
201	abcd@61.222.217.5	5060	No	< GW2

Notice: If your SIP account is digit type like <u>234@edge-core.com</u> or <u>456@edge-core.com</u>, you don't need to configure the items.

#### Configuration

WEB page: PHONEBOOK \

Update Entry	Index	P	ublic @	Address	Port	Via Proxy No 💌
Delete Entry						

#### 10.7.2. Hotline Function

A new Hotline function is added for VG3300 Firmware Version 1.07 or above When hotline function is enabled, the FXS channel is connected to specified SIP device or VES3302 (if the VG3300 is configured and register to VES3302 as a client) automatically when user of VG3300 FXS channel picks up hand-set.

• If the FXS channel is Hotlined to other SIP device (SIP Phone, Softphone), other SIP device

rings immediately when FXS channel user of VG3300 picks up hand-set.

 If the FXS channel is Hotlined to VES-3302 Line, FXS channel user of VG3300 hear dialing tone from VES3302 when pick up hand-set, and then he/she can dial extension number to other SIP device.

#### **Configuration of Hotline**

- Enable Hotline function
- WEB page: PHONEBOOK \

	Apply to Hotlin Control	<u>ne</u>	Enable 💌		
<ul> <li>Setup index number</li> <li>WEB page: PHONEBC</li> </ul>					
E d g e - c o r E Powered by Accton	SIP Gat	eway	VG3300 Se	ries	
K	HOME BASIC	IP SE	TTINGS ADVANCED	CHANNEL	PHONEBOOK
	<b>pply to Hotline</b> Control	Disable 💌	]		
1	: <b>IP Phone Book</b> Maximum: Entered:	200 0			
	Index	Public	Address	Page: 1 Port	/ 0 Select Via Proxy
	Index Update Entry		Public Address @	Port	Via Proxy
	Delete				

When Hotline function is enabled, user also needs to specify which channels (FXS only) should join Hotline function and which SIP number (Public Address) the channel is hotlined to.

#### Hotline mapping table

Channel (FXS) only	Index Number	Description
1 <sup>st</sup> FXS channel	1	Index number "1" maps the 1 <sup>st</sup> FXS channel
2 <sup>nd</sup> FXS channel	2	Index number "2" maps the 2 <sup>nd</sup> FXS channel
16 <sup>th</sup> FXS channel	16	Index number "16" maps the 16 <sup>th</sup> FXS channel

Available Hotline index number

Model	Available Hotline Index Number	Note
VG3306	1, 2, 3, 4	
VG3310	Depends on module used. Please refer to	Only FXS channel can be
	table below.	counted as index number
VG3318	Depends on module used. Please refer to	Only FXS channel can be
	table below.	counted as index number

#### VG3310/VG3318 channel mapping number

Model Group		Location		Channel Number (Please			
				select FXS port only)			
	Group 1	Lower module(S1), 4 ports of left side	1	2	3	4	
3318 Group 2	Group 2	Lower module(S1), 4 ports of right side	5	6	7	8	
Group 3		Upper module(S2), 4 ports of left side	9	10	11	12	
	Group 4	Upper module(S2), 4 ports of right side	13	14	15	16	
3310	Group 1	4 ports from left	1	2	3	4	
5510	Group 2	4 ports from right	5	6	7	8	

Any index number that is not listed in **Available Hotline Index Number** is recognized as normal index number and they are not used as hotline function and not all of the channels have to join hotline function. Please see the example below

Example Model: VG3306

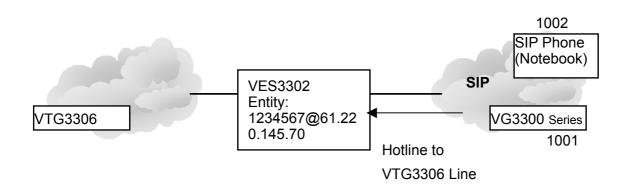
Index	Public Address	Port	Via Proxy	Description
1	01@61.220.145.70	5060	No	Channel 1 Hotline to
				01@61.220.145.70 without
				proxy
2	73797@fwd.pulver.com	5060	Yes	Channel 2 Hotline to
				73797@fwd.pulver.com by
				proxy,
100	jack@fwd.pulver.com	5060	Yes	No hotline function for channel
200	mike@fwd.pulver.com	5060	Yes	3, 4 to dial

son@fwd.pulver.com 5060 Yes
-----------------------------

User of 1<sup>st</sup> FXS channel picks up hand set, and then <u>01@61.220.145.70</u> rings immediately User of 2<sup>nd</sup> FXS channel picks up hand set, and then 73797@fwd.pulver.com rings immediately

#### Hotline to VES3302

Assume the Public Address of VES3302 is <u>1234567@61.220.145.70</u> and it has extension number 1001 to 1002.



So we configure the Phone Book as below

Index	Public Address	Port	Via Proxy	Description
1	1234567@61.220.145.70	5060	153	Channel Hotline to 1234567@61.220.145.70 VES3302 directly
2	1234567@61.220.145.70	5060		Channel Hotline to 1234567@61.220.145.70 VES3302 directly

User hears dial tone from VES3302 when pick up hand set and then dial extension no. for example 1002, to other SIP device

#### 10.8. Make SIP Calls

After you have configured the SIP phone on the SIP phone book, you can easily make SIP calls.

You can select one way to make SIP call following these ways:

#### Standard Call: Dial <numbers>+<#>.

- 1. Compare dialing plan, check the number if it is in setting. Example 050.
- 2. If the number is in setting, send the call to proxy. If the calls does not match dialing plan or the registration to the proxy is fail, then the call will be sent to PSTN.

3. If the number is not in dialing plan, the call will be sent to PSTN.

#### Phone Book Call: Dial <#>+ <index>+<#>.

- 1. Compare SIP Phone books; check the number if it is in phone book.
- 2. If the number is configured in Phone Book and Proxy selection is set to "No", you will hear a busy tone. If Proxy selection is set to "Yes", then send the call to proxy.
- 3. If the index number you had configured to use **Via Proxy** but it communicates with proxy failed, you will hear busy tone.
- 4. If the number is not in phone book, you will hear busy tone.

#### Force PSTN Call: Dial <\*>+<numbers>.

Always go through PSTN

#### Hotline Call:

If the channel is configured to use Hotline function, any dialing above is disabled. If the channel is hotlined to other SIP device, no dialing is needs after user picks up handset. Other SIP device rings immediately.

#### Hotline Call to VES3302:

Dial <SIP extension number> or

<Prefix number (configured in VES-3302 Line)>

- 1. If you dial SIP extension number, other SIP device that register to VES-3302 Line with that SIP extension number will ring.
- 2. If you dial Prefix number, the call is relay to the IP-PBX network according to the Prefix Map specified in VES-3302 Line.

**Notice:** If you do not want to dial "#" after numbers, please configure the 'Dial Ending Time' item. After the seconds, the call will be sent automatically. WEB Page: ADVANCED\GENERAL

> Dial Ending Time Dial Ending Time

4 💌 sec.

### 10.9. Make Inbound Transit Call

To make an inbound transit call from PSTN to SIP, you have to enable Auto Answer function of this gateway

#### Please enable Auto Answer configuration at

#### WEB Page: CHANNEL

Battery	Reverse	OFF V (FXS Only)		
Auto A	inswer	Enable	(FXO Only)	
Voice				
Input C	Jain	0 🔽 dB		

If you don't enable the Auto Answer configuration, the inbound call from PSTN will be assigned to a free FXS port of this gateway directly. It makes Inbound Transit Call impossible.

When Auto Answer function is enabled, the gateway will answer the call and calling side will hear the second dial tone. For the Auto Answer function, it is also divided into **Enable** and **Enable w**/ **Pincode** options. The configuration page is the same as above.

#### Dial Inbound Transit Call when Auto Answer is configured as Enable

Please dial the number below after the second dial tone:

- 1. SIP Number + '#', Example: 73797# or
- 2. '#' + Index Number + '#', Example: #123#

If you still need to make a call to the FXS port of this gateway, please press "\*" to seize a free FXS port.

#### Dial Inbound Transit Call when Auto Answer is configured as Enable w/ PIN code

This Auto Answer mode provides security control for the Inbound Transit call

Please dial the number below after the second dial tone: 1. PIN code + '#'+ SIP Number + '#', Example: 7742#73797# or 2. PIN code + '#'+ '#' + Index Number + '#', Example: 7742##123#

If you still need to make a call to the FXS port of this gateway, please press "\*" to seize a free FXS port.

#### Notice for the Inbound Transit Call

- 1. If the SIP number that user dial does not match any prefix code configured in Dialing Plan page, the call is disconnected.
- 2. If the PIN code does not match any passwords configured in Password For Inbound Transit page, the call is terminated.
- 3. If the Index Number does not match any pre-configured Phonebook Index in Phone Book page, the Index Number will be regarded as SIP number and create a IP call without applying any match rule configured in Dialing Plan.

For which free FXS port that this gateway will seize, please refer to 11.5 Non-SIP Call port seizure preference

The PIN code (Password for Inbound Transit) is configured at chapter 12.8 Inbound Transit The Dialing Plan is configured at chapter 11.1 Dialing Plan

The Index Number is configured at chapter 12.11 PHONE BOOK

### 10.10. Contact Address

The main purpose of Contact Address is making SIP calls without proxy.

The Contact Address is the same as the "Username" of Public Address if that field is configured. For S/W version above 1.05, the value is read only. Generally speaking, "Username" of Default Account are digits and it is regarded as SIP number.

WEB Page: ADVANCED\SIP COMMOM

Public Address Setting		
ADDRESS	413189@fwd.pulver.com	
Default Accour	<u>nt</u>	
Username	413189	
Password	**** Confirm Password	
Contact Add Current Setting	<mark>dress Setting</mark> 413189	

Making SIP calls without proxy server:

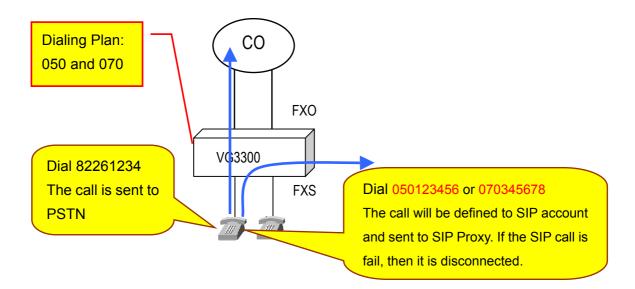
The SIP protocol allows you to make SIP calls directly to the destination number without through the proxy server. You can simply dial the SIP number to connect other SIP gateway. The typical example is: <u>413189@fwd.pulver.com</u>. Other SIP gateway that had already configured <u>413189@fwd.pulver.com</u> in Phone Book can connect this gateway by number 413189 without routing through SIP Proxy.

Notice: For this type of SIP calls, the destination device's IP address is already known and fixed.

# 11. Other Parameters

### 11.1. Dialing Plan

X means all calls will be sent to SIP proxy, if the SIP call is fail, it is disconnected. Only if Outbound Proxy is disabled, then the gateway will try to connect the number by PSTN. Outbound Proxy Setting can be configured on Web Page: SIP Common. Please refer to 12.4 SIP COMMON If the configuration is only '050' means the numbers like 050xxxxx will send to SIP proxy, if you dial any other numbers like 100, the number will send to PSTN immediately.



#### Configuration

WEB Page: ADVANCED\Dialing Plan



#### **Dial In Rewriting Rule**

Number dialed from VG3300 can be converted to different number and sent to SIP Proxy. User can pre-define maximum 10 sets of prefix rewriting rule to convert the number that user dials before build the connection to SIP Proxy. It is useful to create a user-friendly dialing behavior and also can

limit user to dial certain number. The rules below explain the judgment.

- 1. System will check the dialing plan on last page in advance to decide whether it is PSTN call or SIP call.
- 2. If the call will be send to SIP Proxy, then system will exams the number to see if it meets Rewriting Rule.
- 3. If the SIP call does not meets any Rewriting Rule, system will build the SIP call with the number that user dials.
- 4. If the numbers of the SIP call meets any Rewriting Rule, then the numbers is converted (or limited if it meets barring rule) and system build the SIP call by converted number.

Here is the example

Web Folder: ADVANCED \ DIALING PLAN

DIALING PLAN 🌻	Dial In F	Rewriting Rule	
INBOUND TRANSIT	Control	Disable 💌	
	Capacity	: 10	
	List :		
		Pattern	Rewrite
ſ	Pattern	Rewrite	
			AddDialin
			DelDialin

Pattern: Add the pattern that user may dial

Rewrite: Add the converted number if user dials the same digits in pattern column.

Fill in digits and click the AddDialin button

By the operation above, we create a Rewriting Rule table below and it controls all SIP call.

Pattern	Rewrite	X means any digits. I means the call is terminated.
00x		If the prefix number dials from user are 001~009, then the 3 digits are removed. For example, if user dials 0028621123456, then the system dials 86211123456 to build SIP call.
0	886	If the prefix number dials from user are 0, then the digit is replaced with 886. For example, if user dials 0921123456, then the system dials 886921123456 to build SIP call.

x	8862x	If the prefix number dials from user are 1~9, then add 8862 in front of the original number. For example, if user dials 82263368, then the system dials 886282263368 to built SIP call.
0204	!	If the prefix number dials from user are 0204, then the call is terminated.

#### Matching Rule

- 1. Best Match rule, the longest digits match first.
- 2. Wildcard ( x digits) match last

### 11.2. Call Forward

There are three forward types:

- 1. All: All incoming VoIP call to the SIP entity will be forward.
- 2. Busy: When the SIP entity is busy, the incoming VoIP call will be forward.
- 3. No Answer: When the SIP entity is no answer and after 30 seconds, the incoming VoIP call will be forward.

Notice:

- In order to let the caller identify the port has been configured "forward"; the caller will hear second dial tone, rather than normal dial tone.
- If Auto Answer function is disabled, incoming call from PSTN seizes a free FXS port. The call is not forwarded even the seized FXS port is part of Call Forward SIP Entity.
- If Auto Answer function is enabled, Incoming PSTN call dials "\*" to seize a free FXS port after second dial tone. The call is not forwarded even the seized FXS port is part of Call Forward SIP Entity.
- If Auto Answer function is enabled, Incoming PSTN call dials "SIP phone number" of the gateway itself after second dial tone. The call is forwarded to other VG3300 or SIP device.

Configuration

#### WEB page: ADVANCED\SIP COMMOM

Edge-corE	
Powered by Acct	SIP Gateway VG3300 Series
	Sin Gateway vesses series
	HOME BASIC IP SETTINGS AD VANCED CHANNEL PHONEBOOK
GENERAL 🥊	Apply Revert
SIP COMMON 🌻	(After setting paramenters of this page , Need Warm-Restart ) Port and Header
SIP OUTBOUND	port 5060
	Header Form Standard 🖌 (SIP Message Header Form)
SIP INBOUND AUTHENTICATION	Outbound Proxy Setting
STUN 🌻	Domain Name 192.168.1.36 Enable 💌
DIALING PLAN 🌻	Port 5060
	Registrar Setting
	Domain Name 192.168.1.36 Enable 💌
	Out-of-Band DTME
	Control Disable -
	Incoming Call Screening
	Screening Disable
	NAT Signalling Keep Alive Control Disable -
	Target the media (RTP) Via SDP ▼
	Codecs Selection
	Codec Type G.729AB G.723.1 PCMU PCMA
	Selected 🔽 🔽
	Codec Priority G729 - G723 - PCMU - PCMA 💌
	Entity Control Enable
	Register Status FAIL Register De-Register
	CLIR Disable (Calling Line Identification Restriction)
	Public Address Setting
	ADDRESS 3810@192.168.1.36
	Default Account
	Username 3810
	Password **** Confirm Password
	Contact Address Setting
	Current 3810 Setting
	RFC 2833 DTMF
	2833 DTMF Negotiate -
	Forward To
	Forward Type: None 💌 Address
	SIP Entity Members
	Channel         01         02         03         04           Entity         +         -         -         -

Phone Set: Please refer to section Appendix A: Phone-Set Command.

### 11.3. Inbound Authentication

You need to configure inbound authentication if you request authentication for other SIP phone to call you.

Configuration

WEB Page: ADVANCED \ SIP INBOUND AUTHENTICATION

SIP COMMON 🥊	SIP Inbound	Auther	tication		_
	Realm:	vodtel			
AUTHENTICATION -	Maximum:	20			
SIP INBOUND	Entered:	2			
SIP INBOUND AUTHENTICATION			Page: 1	/ 1 Select	
STUN 🌻	Entity		Username		
DIALING PLAN 🌻	1		jack		
	1		mike		
INBOUND TRANSIT					Confirm
		Entity	Username	Password	Password
	Update Entry	1 -			

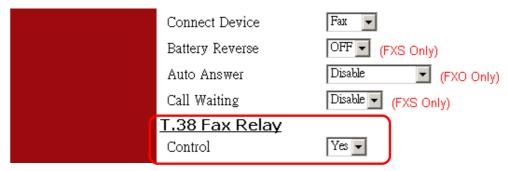
### 11.4. FAX

For VG3300 software version 1.05 or above, SIP-based T.38 Fax protocol is applied. Any brand SIP gateway with SIP-based T.38 Fax protocol can transmit FAX with each other. T.38 is FAX protocol and it has better performance and better successful transmission rate. However, SIP device that does not support SIP-based T.38 still can transmit and receive FAX with VG3300 by G.711 codec. G.711 codec uses more bandwidth, so it may not as good as SIP-based T.38 protocol if bandwidth control is the key factor of the network.

Setup method is listed below:

1. Web folder: "Channel"

Enable T.38 Fax Relay support. Configure it to Yes



#### 2. Warm-Restart the system

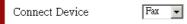
Note: For FAX transmission, two gateways will change to SIP-Based T.38 Protocol automatically if

both sides support SIP-based T.38.

#### Note:

If VG3300 connects different SIP devices, some have T.38, but some use G.711 codec only, then user should enable G.711 codec support for FAX. Setup method is listed below:

1. The same step as above set Connect Device to Fax



2. Setup "Codecs Type", Web Folder: ADVANCED\SIP COMMON Select and mark "PCMU" and "PCMA" Codecs (G.711 Standard), than click "Apply" button

E d g e - c o r E	
Powered by Acct	SIP Gateway VG3300 Series
	Sir Gateway VOSSUU Series
	HOME BASIC IP SETTINGS ADVANCED CHANNEL PHONEBOOK
GENERAL 🥊	Apply Revert
SIP COMMON 🌻	(After setting paramenters of this page , Need Warm-Restart ) Port and Header
SIP OUTBOUND	port 5060
	Header Form Standard 🗹 (SIP Message Header Form)
SIP INBOUND AUTHENTICATION	Outbound Proxy Setting
STUN 🤗	Domain Name 192.168.1.36 Enable
DIALING PLAN 🌻	Port 5060
	Registrar Setting
	Domain Name 192.168.1.36 Enable
	Out-of-Band DTMF
	Control Disable -
	Incoming Call Screening
	Screening Disable
	NAT Signalling Keep Alive
	Control Disable -
	Target the media (RTP)
	Via SDP 💌
	Codecs Selection
	Codec Type G.729AB G.723.1 PCMU PCMA
	Selected 🔽 🔽
	Codec Priority G729 - G723 - PCMU - PCMA 🔻
	SIP Entity 1 Select
	Entity Control Enable
	Register Status FAIL Register De-Register
	CLIR Disable (Calling Line Identification Restriction)
	ADDRESS 3810@192.168.1.36
	Default Account
	Username 3810
	Password **** Confirm Password
	Contact Address Setting
	Current 3810
	Setting
	2833 DTMF Negotiate
	Forward To
	Forward Type: None
	Address SIP Entity Members
	Channel         01         02         03         04
	Entity +

3. Warm-Restart the system

# 11.5. Non-SIP Call port seizure preference

For non-SIP Calls, the port seizure preference is listed below

#### 1. Inbound from PSTN

If the inbound FXO port was configured as "Fax" device, it will also seize only FXS ports that "Connect Device" is configured as Fax. The Voice devices behave the similar way.

From FXO port	Note	
Connect Device at FXO port Connect Device at FXS port		
VOICE port		From the lowest port number upward
FAX port		From the lowest port number upward

#### 2. Outbound to PSTN

For the calls from FXS to FXO, the ports of the same "Connect Device" type will be the prior selection for the calls.

If there is no correct configured port is available, it will ignore the "Connect Device" setting and create a call as the rule below.

From FXS p	Note	
Connect Device at FXS port Connect Device at FXO port		
VOICE port	Select VOICE port (1 <sup>st</sup> priority)	From the highest port
	Select FAX port (2 <sup>nd</sup> priority)	number downward
FAX port	Select FAX port (1 <sup>st</sup> priority)	From the highest port
	Select VOICE port (2 <sup>nd</sup> priority)	number downward

For the setting of "Connect Device", please refer to 12.10 CHANNEL

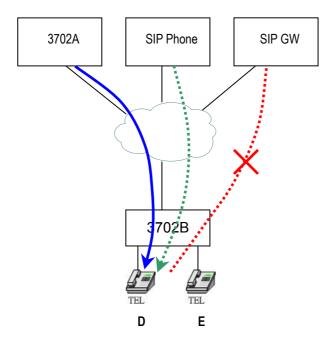
### 11.6. Call Waiting

Call waiting function for a FXS port to answer two SIP calls.

When D answer a SIP call from other SIP phone or gateway, such as A. In normal condition, another incoming call dial to D will be busy, such as B to D. With Call Waiting function, the phone

call dials from B to D will not be busy. Here is the possible situation.

- D keeps talking with A and hears Call Waiting Tone if B calls D.
- B hears normal ring back tone without sense any different.
- If D keep talking with A and ignore the Call Waiting Tone for more than 30 seconds, Call Waiting Tone stop and the phone call return to normal condition
- If D keep talking with A and ignore the Call Waiting Tone for more than 30 seconds, B keep hearing ring back tone for 30 seconds and listen busy tone finally.
- D can talk to B if D presses Flash button when hearing the Call Waiting Tone. Phone A is silent when D talk to B.
- D can talk to A or to B by keep pressing Flash button to switch the two side.
- C will hear busy tone when C call to D if there is one line in call waiting status for A.



#### Configuration

Enable the Call Waiting function of the FXS port (D) of VG3300 gateway. This function can be configured for each FXS port individually.

#### Web Folder: Channel\

Battery Reverse	OFF V (FXS Only)
Auto Answer	Disable (FXO Only)
Call Waiting	Enable V (FXS Only)

#### **Connection Type**

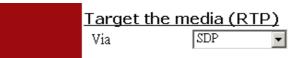
A: FXS port of VG3300 Series B, C: SIP Device (VG3300 Series, other brand SIP gateway. SIP phone...), Normal PSTN phone call (special condition is described below)

Call waiting function works only on SIP call. So PSTN call works when it is transited as SIP call. If Inbound transit call is configured on VG3300 (please refer to 10.9 Make Inbound Transit Call), then Call Waiting function is available when user dials the SIP number of this VG3300 gateway itself. If no inbound transit call function is configured, it is impossible to do call waiting function.

### 11.7. Target the Media (RTP)

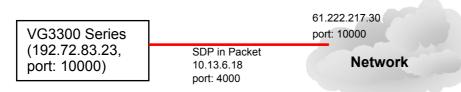
For the SIP call passing through NAT, it is possible that the media would not deliver properly; owing to the RTP contact information (IP address, port number) is different from original RTP packet. This function selects different contact information for VG3300 to send RTP Packets to other SIP device within far-end NAT. It designates whether to use the source contact information from the UDP/IP header (Symmetric RTP) or the contact information specified within the packet (SDP) when the gateway send RTP packet

Web Folder : ADVANCED\SIP COMMON, Default Value is SDP



#### Example 1: Via Symmetric RTP

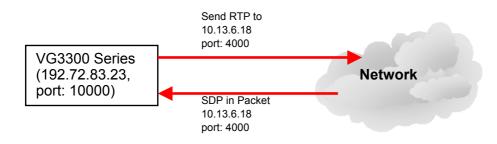
The source contact information (IP, port number) of RTP packet is IP: 61.222.217.30, port number: 10000, but the SDP in the packet is IP: 10.13.6.18, port: 4000. In this case, please Use **Symmetric RTP** 



VG3300 tries the contact information from SDP first (IP:10.13.6.18, port number: 4000). If VG3300 finds that the contact information from SDP is different from the source contact information, then it will try the source contact information, as the example above, use IP:61.222.217.30, port number:10000. It makes SIP call successful.

Example 2: Via SDP (Default)

This selection ignores the source contact information (IP, port number) which VG3300 received. It always sends the RTP packet to the contact information (IP, port number) described in the packet (SDP) received.



# **12. WEB MANAGEMENT INTERFACE**

The Tree Architecture of Web M	lanagement is shown below
--------------------------------	---------------------------

BASIC	GENERAL
IP SETTING	
ADVANCED	General
	SIP COMMON
	SIP OUTBOUND
	AUTHENTICATION
	SIP INBOUND ATHENTICATION
	STUN
	Dialing Plan
	Inbound Transit (for gateway has
	FXO port. Gateway without FXO
	port does not have this page)
CHANNEL	
PHONE BOOK	
ACCESS	
CODE	
	IP SETTING ADVANCED CHANNEL PHONE BOOK ACCESS

# 12.1. BASIC / GENERAL

E d g e - c o r E Powered by Accto		
	SIP G	ateway VG3300 Series
	номе ВА	ASIC IP SETTINGS AD VANCED CHANNEL PHONEBOOK
GENERAL 🌻		Apply Revert
	<u>Information</u>	
	Region ID	0 (Taiwan)
	Software Version	1.07.0
	BootRom Version	1.01
	Hardware Version	3.00
	Card Type	4 PORT_FXS
	Up-Time	0 day 4 hr 56 min 31 sec
	MAC Address	00-03-62-80-4C-AC
	Date	2000/01/01
	Time	12:56:30
	<u>Time Configurat</u>	ion
	Time Source	Registrar 💌
	NTP Server	
	Time Zone	Beijing, Hong Kong, Singapore, Taipei 🔹
	DayLight Saving	Off 🗸
	Auxiliary Protoco	<u>ol</u>
	Signaling Port	0 (Need Warm-Restart )
	RTP Base Port	4000 ( Need Warm-Restart & Must be Even number)
	<u>System Restart</u>	
	Restart Mode	None

Category	Section	Description	Default Setting
Information	Region ID	Display region ID.(Read only)	0
	Software	Display software version.(Read only)	
	Version		
	BootRom	Display BootRom Version.(Read only)	
	Version		
	Hardware	Display hardware Version.(Read only)	
	Version		
	Card Type	Display card type. (Read only)	
	Up-Time	Display the use time since from system	
		reboot.(Read only)	
	MAC	Display MAC address.(Read only)	
	Address		
	Date	Show the date	
	Time	Show the time	
Time	Time	Select the time server to synchronize	Registrar
Configuration	Source	the time of this gateway	
		• Registrar: Get the time data from the	
		Registrar Server.	
		• NTP Server: Get the time data from	
		the NTP Server	
	NTP Server	Input the address if the system use	
		NTP server as time synchronization	
		source. The gateway will synchronize	
		with the NTP Server once a day. If the	
		NTP server inputted here is not	
		available or fail to response, the	
		gateway will retry it every 5 minutes.	
		The gateway has its own clock, so the	
		clock will keep going according to last	
		synchronization time. For NTP server	
		information, please refer to	
		http://www.ntp.org	
	Time Zone	Select local system time zone. Select	
		correct Time Zone.	

	Daylight	ON: Enable daylight saving.	OFF
	saving	OFF: Disable daylight saving.	
Auxillary	Signaling	UDP port to transfer signal packets. It	0
protocol	Port	can be setting in the range of 0 to	
		65535. (Must reboot system to apply	
		changes)(Only support VG and VTG	
		devices)	
	RTP	Base of UDP port to receive RTP	4000
	Base Port	packets. It can be setting in the range of	
		0 to 65534.( Must be Even, after setting	
		this item, please reboot system to apply	
		changes)	
System	Restart	None: Not to restart system.	None
Restart	Mode	Cold restart: Cold restart.	
		Warm restart: Warm restart.	

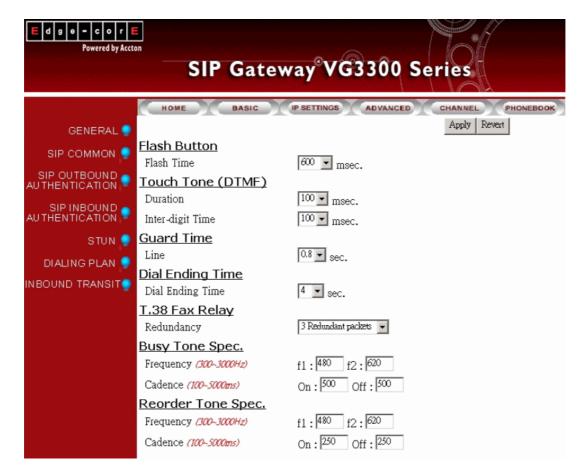
## 12.2. IP SETTING

SIP Gat	eway <sup>°</sup> VG3300 S	Series
HOME BASIC	IP SETTINGS AD VANCED	CHANNEL PH
		Apply
<u>IP Settings</u>		
IP State	Manual 💌	
<u>Current Settings</u>		
IP Address	192.168.1.34	
Subnet Mask	255.255.255.0	
Default Gateway	192.168.1.254	
Change To: (Resta		
IP Address	192.168.1.34	
Subnet Mask	255.255.255.0	
Default Gateway	192.168.1.254	
<u> PPPoE Settings: (Re</u>	<u>start is required)</u>	
Account		
Password		
Confirm Password		
<u>DNS Server: (Restar</u>	t is required)	
Primary Address	168.95.1.1	
Secondary Address	0.0.0.0	
Web Password (Rea		
User Name	WEB	
Password		
Confirm Password		

Category	Section	Description	Default Setting
IP Settings	IP State	The way to obtain IP address:	Manual
		Manual: Entered by user	
		(Static IP)	
		Auto(DHCP): Assigned by	
		DHCP server	
		PPPoE: Assigned by PPPoE of	
		ISP	

гт		Ι	1
	Current Setting	Display the configured IP	192.168.0.2
		address, subnet mask address	255.255.255.0
		and default gateway. (Read	192.168.0.1
		only)	
	Change To	Enter the IP address that will	
		be used after next restart,	
		Including:	
		IP Address	
		Subnet Mask Address	
		Default Gateway	
		(This item is used only on	
		Manual mode of IP Setting.)	
PPPoE	Account	The user's account of PPPoE	
Settings		protocol, provided by ISP.	
	Password	The user's password of PPPoE	
		protocol.	
	Confirm	Confirm the user's password of	
	Password	PPPoE protocol.	
	Service Name	The service name of PPPoE	
		account, provided by ISP.	
		(Most ISP doesn't need this)	
DNS Server	Primary Address	The primary address of DNS	168.95.1.1
		server. The default setting	
		would be different according to	
		the local area. In Taiwan, the	
		default setting is 168.95.1.1.	
	Secondary	The secondary address of	
	Address	DNS server.	
Web	User Name	The user's name of Web	WEB
Password		Management Interface.(12	
		character)	
	Password	The password of Web	
		Management Interface.( 6	
		Management Interface.( 6 character)	
	Password		

### 12.3. ADVANCED / GENERAL



Category	Section	Description	Default Setting
Flash Button	Flash Time	System confirmed	200 msec
		"Flash" time.	
Touch Tone (DTMF)	Duration	The duration to send a	100 msec
		DTMF.	
	Inter-digit	The inter-digit time of	100 msec
		sending string of DTMF	
		digits.	
Guard Time	Line	The time defines how	0.8 sec
		long the system will not	
		take incoming call after	
		call has been	
		disconnected.	
Dial Ending Time	Dial Ending	The time specifies how	4
	Time	long to end the dialing	1-10 (seconds)

		number if a '#' digit is	
		missing.	
	Redundancy	Number of times to retry	
		T.38 Fax protocol. Use	
		more Redundant packet	
		when network is	
		unstable.	
T.38 Fax Relay		No Redundant packet	
		1 Redundant packet	
		2 Redundant packets	
		3 Redundant packets	
		4 Redundant packets	
	Frequency	f1, f2	(300 ~ 3000Hz)
Buoy Topo Spoo	Cadence	on, off. The on and off	(100 ~ 5000ms)
Busy Tone Spec		duration in playing the	
		tone	
	Frequency	f1, f2	(300 ~ 3000Hz)
Poordor Topo Spoo	Cadence	on, off. The on and off	(100 ~ 5000ms)
Reorder Tone Spec		duration in playing the	
		tone	

# 12.4. SIP COMMON

E d g e - c o r E	
Powered by Accto	
	SIP Gateway <sup>°</sup> VG3300 Series
	HOME BASIC IP SETTINGS ADVANCED CHANNEL PHONEBOOK
GENERAL 🌻	Apply Revert
SIP COMMON 🌻	(After setting paramenters of this page , Need Warm-Restart ) Port and Header
SIP OUTBOUND	port 5060
SIP INBOUND	Header Form Standard 🖌 (SIP Message Header Form)
	Outbound Proxy Setting
STUN 🥊	Domain Name 192.168.1.36 Enable 💌
DIALING PLAN 💡	Port 5060
	Registrar Setting
	Domain Name 192.168.1.36 Enable 💌
	Out-of-Band DTMF Control Disable -
	Incoming Call Screening Screening Disable
	NAT Signalling Keep Alive
	Target the media (RTP)
	Via SDP 💌
	Codecs Selection
	Codec Type G.729AB G.723.1 PCMU PCMA
	Selected IV IV IV
	Codec Priority G729 - G723 - PCMU - PCMA 🔻
	SIP Entity 1 Select
	Entity Control Enable  Register Status REGISTERED Register De-Register
	CLIR Disable (Calling Line Identification Restriction)
	Public Address Setting ADDRESS 3810@192.168.1.36
	Default Account
	Username 3810
	Password **** Confirm Password
	Contact Address Setting Current 3810
	Setting
	RFC 2833 DTME
	2833 DTMF Negotiate
	Forward To Forward Type: None
	Address
	SIP Entity Members Channel 01 02 03 04
	Entity +

Section	Item Field	Description	Default
Port and Header	Header Port The control port number of SIP protocol.		5060
	Header	Select 'Standard' or 'Compact' to be the	Standard
	Form	header format of SIP packet. When	
		Compact is selected, the header will be	
		shorter and it saves bandwidth.	
Outbound Proxy	Domain	Domain name or IP address of proxy.	Empty
Setting	Name		Disable
	Port	Control port number of SIP protocol.	5060
Registrar Setting	Domain	Domain name or IP address of proxy	Empty
	Name	that you want to register.	Disable
Out-band DTMF	Control	Enable/Disable	Disable
		Enable: It "Disable" RFC 2833 DTMF	
Incoming Call	Screening	Disable: Accept all incoming SIP call	Disable
Screening	_	Enable: This gateway only accepts	
		incoming call through SIP	
		Proxy.	
NAT Signalling	Control	Port number mapping may change if the	Disable
Keep Alive		connection to pass through some NAT	
		device is timeout. This function sends	
		Dummy Packet to Proxy server every 50	
		seconds to keep the port number via	
		NAT intact.	
		Disable: Does not send Dummy Packet	
		Enable: Send Dummy Packet	
Target the media	Via	Select the contact information (IP	SDP
(RTP)		Address, Port Number) to pass through	
		NAT device. Please refer to 11.7 Target	
		the Media	
		SDP: via SDP	
		Symmetric RTP: via Symmetric RTP	
Codecs Selection	Codec	G.729AB: Mark the selection to Enable	Enable
	Туре	G.729AB Codec	
		G.723.1: Mark the selection to Enable	Enable
		G.723.1 Codec	

Section	Item Field	Description	Default
		PCMU: Mark the selection to Enable	Enable
		PCMU Codec (G.711 u Law)	
		PCMA: Mark the selection to Enable	Enable
		PCMA Codec (G.711 A Law)	
	Codec	You can select the codec priority for	G729-G723-P
	Priority	your requirement.	CMU-PCMA
SIP Entity	SIP Entity	Select an entity and click Select button	1
		to display follow items' setting of SIP	
		entity section.	
		Select: Select Button	
		Register: Register Button	
		De-Register: Cancel Register Button	
	Entity	Select Enable/Disable	Enable
	Control		
	Register	Show the register status, if it shows	Empty
	Status	Registered means successful. (Read	
		only)	
		Register: Register Button	
		De-Register: Cancel Register Button	
	CLIR	Calling Line Identification Restriction	Disable
		Disable: Send caller ID to SIP proxy	
		when user make SIP call	
		Enable: Don't send caller ID when user	
		make SIP call. Note that for some SIP	
		Proxy Server, the SIP call is failed if no	
		caller ID is sent. Please set "CLIR"	
		Disable for this case. That's the reason	
		why default value is disable.	
Public Address	Address	Enter SIP phone number of the port.	Empty
Setting		The phone number general assigned by	,
		SIP service provider.	

Section	Item Field	Description	Default
	Default	Account information for registering SIP	
	Account	Proxy	
		Username: It may the same as your SIP	
		number	
		Password: Password for Authentication	
		Confirm Password: Reconfirm	
		Password	
Contact Address			
Setting	Current	Display current setting of (Read Only)	
	Setting	Contact Address. It will be	
		the same as the	
		Username of Public	
		Address Setting at this	
		page of web if that field is	
		configured	
RFC 2833 DTMF	2833	Enable: Enable RFC 2833 DTMF.	Never
	DTMF	Negotiate: Encode DTMF to message	
		and decode it back at destination.	
		Never: Convert DTMF to voice and sent	
		by RTP packets.	
	2833 In	Display current status of (Read Only)	
	Use	DTMF configuration.	
Forward To	Forward	Enter a SIP account (Public Address)	Empty
	Address	forward. When users dial into the SIP	
		Entity, the call will be forwarded to the	
		number. Only SIP calls can be	
		forwarded.	
	Туре	N/A: All incoming calls are forward.	N/A
		Busy: When the SIP entity is busy, the	
		calls will be forward.	
		No Answer: When the SIP entity is no	
		answer about 30 seconds, the calls will	
		be forwarded.	
SIP Entity	Channel	Show the all channels	Depend on
Members			gateways

Section	Item Field	Description	Default
	Entity	Show '+ ' means the SIP entity is for the	Empty
		channel.	

# 12.5. SIP OUTBOUND AUTHENTICATION

E d g e – c o r E Powered by Accto		P Gate	way°V(	G3300 Series
GENERAL 🌻	HOME	BASIC	IP SETTINGS	s advanced Channel PhoneBook Apply Revert
SIP COMMON 💡 SIP OUTBOUND 📍 AUTHENTICATION	<u>SIP Outbou</u> Maximum: Entered:	nd Authent 50 4		
	Entity	Realm		Page: 1 / 1 Select Username
STUN 💡 DIALING PLAN 🌻	2 USE 3 USE	R-UNSPECIF R-UNSPECIF R-UNSPECIF R-UNSPECIF	IED-REALM IED-REALM	1 3811 1 3312
	Update Entry	Entity ALL 💌 Password	Realm Confirm Password	Username
	Delete Entry	Entity	Realm	

Section	Item Field	Description		Default
SIP Outbound	Maximum	Maximum number of entries	(Read Only)	50
Authentication		allowed		
	Entered	Number of entries of	(Read Only)	0
		authentication entered.		
	Entries	List of entries	(Read Only)	Empty

Section	Item Field	Description	Default
	List	Entity: Which entity that you select.	
		Realm: Domain name or IP address.	
		Username: Username of authentication.	
		The gateway creates default entry	
		according to the Public Address Setting	
		for easy registration. Please refer to 10.3	
		SIP Entity and 10.4 SIP Outbound	
		Authentication	
	Update	Enter the information of outbound	Empty
	Entry	authentication	
		Entity: Select an entity.	
		Realm: Domain name or IP address.	
		Username: Enter Username of	
		authentication.	
		Password: Enter password of	
		authentication.	
		Confirm Password: Enter password again	
		for confirmation.	
	Delete	Delete the information of outbound	Empty
	Entry	authentication	
		Entity: Select an entity.	
		Realm: Domain name or IP address.	

# 12.6. SIP INBOUND ANTHENTICATION

Edge-cor		P Gate	way°V(	G3300 Series	
GENERAL 🤜	HOME	BASIC	IP SETTINGS	ADVANCED CHANNEL PHONEBO	1
SIP COMMON	<u>SIP Outbou</u> Maximum: Entered:	nd Authent 50 4			-
SIP INBOUND	Entity	Realm		Page: 1 / 1 Select Username	
STUN 💡 DIALING PLAN 🌻	2 USE 3 USE	R-UNSPECIF R-UNSPECIF R-UNSPECIF R-UNSPECIF	IED-REALM IED-REALM	M 3811 M 3312	
	Update Entry	Entity ALL 💌 Password	Realm Confirm Password	Username	
	Delete Entry	Entity	Realm		

Section	Item Field	Description	Default
SIP Inbound	Realm	Enter domain name, IP address or word	Empty
Authentication		string.	
	Maximum	Maximum number of (Read Only)	20
		entries allowed	
	Entered	Number of entries of (Read Only)	0
		authentication entered.	
	Entries List	Display the entries (Read Only)	Empty
		Entity: Which entity that you select.	
		Username: Username of authentication.	

Section	Item Field	Description	Default
	Update Entry	Enter entries of authentication	Empty
		Entity: Which entity that you select.	
		Username: Username of authentication.	
		Password: Password of authentication.	
		Confirm Password: Enter password	
		again for confirmation.	
	Delete Entry	Delete entries of authentication	Empty
		Entity: Which entity that you want to	
		delete.	
		Username: Username of authentication.	

# 12.7. Dialing Plan

EdgeActive	SIP Gateway VG3300 Series
	HOME BASIC IP SETTINGS ADVANCED CHANNEL PHONEBOOK
GENERAL 🌻	Apply Revert
SIP COMMON 🌻	<u>Dialing Plan</u> Maximum: 100
SIP OUTBOUND	Entereu. 1
SIP INBOUND AUTHENTICATION	List: x Add Dialing Plan
STUN 💡	Delete
DIALING PLAN 💡	Dial In Rewriting Rule
	Control Disable 💌
	Capacity : 10
	List :
	Pattern Rewrite
	Pattern Rewrite
	AddDialin
	DelDialin

Section	Item Field	Description	Default
DIALING PLAN	Maximum	Maximum number of (Read Only)	100
		entries allowed	
	Entered	Number of entries of (Read Only)	1
		authentication	
		entered.	
	List	Display the entries (Read Only)	x
		The default value "x" means that	
		all numbers that you dial will first	
		go through SIP proxy.	
	Add Dialing Plan	Enter numbers. Example: 050.	Empty
	Delete Entry	Enter numbers for delete.	Empty
Dial In Rewriting	Control	Digits dialed from VG3300 can be	Disable
Rule		rewrite to different digits and sent	
		to SIP Proxy.	
		Enable/Disable	
	Capacity	The max set of rewrite number	
	List	List the entries of original digits	
		and the rewrite digits	
		Pattern: the pattern that user may	
		dial	
		Rewrite: the converted number if	
		user dials the same digit in	
		pattern column.	
	Add Dialin (button)	Pattern: Add the pattern that user	
		may dial	
		Rewrite: Add the converted	
		number if user dials the same	
		digit in pattern column.	
		Fill in digits and click the Add	
		Dialin button	
	Del Dialin (button)	Fill in the Pattern digit that will be	
		deleted and click Del Dialin button	

### 12.8. Inbound Transit

Only VG3300 gateway with FXO port has this web page.

E d g e - c o r E Powered by Acct			
	SIP Gatewa	ay°VG3300 Series	
	HOME BASIC	P SETTINGS AD VANCED CHANNEL PHONEBO	ook
GENERAL 🥊		Apply Reve	at
SIP COMMON 🌻	<u>Transit Call</u> Warning Time	2 minute(s) (1~60)	
SIP OUTBOUND P	Release Call by Checking RTP	1 minute(s) (0-60)	
SIP INBOUND AUTHENTICATION	Password For Inbound To Maximum:	ransit 32	
STUN 👷	Entered:	1	
DIALING PLAN 💡	Entries List:		
INBOUND TRANSIT	1 / 1 Select		
	Password 123		
	Password		
	Add Passwords		
	Delete Passwords		

Group	Field	Description	Default Value
Transit call	Warning Time	This gateway will send warning tone periodically to	60
		check if the line is still alive. If calling side fail to	
		press any key after hearing the warning tone, the	
		line will be disconnected.	
	Release Call by	This gateway will check the RTP packet	0
	Checking RTP	periodically to verify if the line is still alive. If no RTP	
		packet is found, the gateway will disconnect the	
		call. When this value is set to "0", means the	
		gateway will not check the RTP packet	
Password	Maximum	Display no. of password can (Read only)	32
For Inbound		be accepted	
Transit	Entered	Display the no. of password (Read only)	0
		had been entered	
	Entries List	List the detail data of password (Display) Only)	Blank
		had been entered	

Group	Field	Description	Default Value
	Add Passwords	Enter a new password, any combination of digits	Blank
		(0~9), less than 9 characters. The password will be	
		used at PINcode for auto answer function	
	Delete	Enter the password to be deleted, refer the detail	Blank
	Passwords	data under Entries List	

### 12.9. STUN

E d g e – c o r E Powered by Accto	
	SIP Gateway VG3300 Series
	HOME BASIC IP SETTINGS AD VANCED CHANNEL PHONEBOOK
GENERAL 🌻	Apply Revert
SIP COMMON 💡	Control: Disable -
SIP OUTBOUND AUTHENTICATION	NAT WAN IP Address 0.0.0.0 (When STUN Disabled )
SIP INBOUND AUTHENTICATION	STUN Server Setting
STUN 💡	Maximum: 5 Entered: 0
DIALING PLAN 💡	List:
	IP Address Port
	Add
	Delete
	NAT Type
	Type Unknown
	STUN Refresh Time
	interval 30 (sec)
	Mapping List
	List: my ip/port global ip/port

Section	Item Field	Description	Default
STUN Server	Control	Enable or Disable STUN Server service.	Disable

Section	Item Field	Description	Default
NAT WAN IP	Address	Input this NAT WAN IP helps you to pass	
		through NAT without using STUN server.	
		The port number inside and outside NAT	
		should be the same. NAT WAN IP is the	
		Public IP that used on NAT device	
		Note: If you disable STUN server and	
		input NAT WAN IP here, the RTP	
		(normally 4000) and Signaling (normally	
		5060) port number inside and outside	
		NAT must be the same, and Server Port	
		need to be configured on NAT device.	
STUN Server	Maximum	Maximum number of (Read Only)	5
Setting		entries allowed	
	Entered	Number of entries of (Read Only)	0
		STUN server that have	
		been entered.	
	List	Display all of servers that (Read Only)	
		have been entered.	
	Add	Add a stun server	Empty
		IP Address: Enter IP address or Domain	
		Name	
		Port: Enter port number of service.	
	Delete	Delete a stun server	Empty
		IP Address: Enter IP address.	
		Port: Enter port number of service.	
NAT Туре	Туре	Display NAT type (Read Only)	Unknown
Stun Refresh Time	Interval	I It defines how long the device will send	
		a binding request packet with discard	
		flag on to STUN server.	
Mapping List	List	My ip/port: shows the (Read Only)	Empty
		private IP and port	
		number.	
		Global ip/port: Display	
		public IP and port number.	

# 12.10. CHANNEL

Powered by Accton	
SIP Gat	teway VG3300 Series
HOME BASIC	IP SETTINGS ADVANCED CHANNEL PHONEBOOK Apply Revert
Channel 1	Select
Information	
Channel Type	Phone
Channel Control	BothWay 💌
Current State	Enable
Don't Disturb	Disable 💌
Silence Suppression	Enable 💌
2833 In Use	No
Join SIP Entity	1 🔽 (Need Warm-Restart)
Connect Device	Phone -
Battery Reverse	OFF (FXS Only)
Auto Answer	Disable (FXO Only)
Call Waiting	Disable (FXS Only)
<u>T.38 Fax Relay</u>	
Control	No 💌
Voice	
Input Gain	0 ▼ dB
Output Gain	0 v dB

Category	Section	Description	Default
			Setting
	Channel	Channel number:	1
Information	Channel	Display port type. (Read only)	
	Туре	Phone: FXS Interface, connect	
		to telephone set or Fax	
		machine.	
		Line: FXO Interface, connect to	
		phone line.	

Channel	For FXS port:	Enable
Control	Bothway: Can make and	
	accept IP call and PSTN call	
	from this channel	
	Disable Disable all functions of	
	this port.	
	For FXO port:	
	IN_Only: Accept calls from	
	PSTN only	
	Bothway: Accept call from	
	PSTN or call dial from FXS	
	Disable: Disable all functions of	
	this port.	
Current State	Display the current state of this	
	port. (Read only)	
	Enable/ Disable.	
Do not	Enable/Disable does not	Disable
Disturb	disturb function	
Silence	Enable/Disable the function.	Enable
Suppression		
2833 In use	Yes (Read only)	
	No	
Join SIP	Select an Entity for SIP.	1
Entity	Both FXS and FXO ports can	
	join SIP Entity	
Connect	Phone: Connect to this port is	Phone
Device	regular phone	
	FAX: Connect to this port is	
	FAX machine. Codec will be	
	fixed on G.711 if SIP-based	
	T.38 codec negotiation fails.	
	Both FXS and FXO ports can	
	select their Connect Device	

	Battery	This mechanism will reverse	OFF
	Reverse	the polarity promptly that help	011
	T C V C I S C	some PBX to identify the start	
		and end of each call	
		ON: Enable the function	
		OFF: Disable the function	Diachte
	Auto Answer	This unit auto answer the call	Disable
		from FXO	
		Disable: Disable Auto Answer	
		Enable: Enable Auto Answer	
		Enable w/ Pincode: Enable	
		Auto Answer and Pincode	
		verification.	
	Call Waiting	Call waiting function for	Disable
		answering two incoming SIP	
		VoIP phone calls	
		Enable: Enable call waiting	
		Disable: Disable call waiting	
T.38 FAX Relay	Control	Yes: Use T.38 as FXS protocol	No
		No: Don't use T.38 as FAX	
		protocol. If user send or receive	
		FAX by this port, gateway can	
		use G.711 (PCMU, PCMA) to	
		pass-through FAX, please refer	
		to 11.4 FAX	
Voice	Input Gain	Adjust Voice input Gain	0
	Output Gain	Adjust Voice output Gain	0

### 12.11. PHONE BOOK

Edge-corrE Powered by Acctor		teway <sup>°</sup> VG3300 Se	eries
	HOME BASIC	IP SETTINGS AD VANCED	CHANNEL PHONEBOOK Apply Revert
	<u>Apply to Hotline</u> Control	Disable 💌	
	<u>SIP Phone Book</u> Maximum: Entered:	200 0	
	Index	Public Address	Page: 1 / 0 Select Port Via Proxy
	Index Update Entry	Public Address	Port Via Proxy
	Delete Entry		

Section	Item Field	Description		Default
Apply to Hotline	Control	Enable or Disable the hotline function to		Disable
		VES-3302 Line or other SIP device	e to make	
		hotline call.		
SIP Phone Book	Maximum	Maximum number of entries (Re	ead Only)	200
		allowed		
	Entered	Number of entries of phone (Re	ead Only)	0
		books entered.		
	Entries	Display phone books (Re	ead Only)	Empty
	List	Index: Dialing number		
		Public Address: SIP account.		
		Port: Port number.		
		Via Proxy: Via proxy or not.		

Section	Item Field	Description	Default
	Update	Enter entries	Empty
	Entry	Index: Enter dialing number	
		Public Address: Enter SIP account.	
		Port: Enter port number	
		Via Proxy: Select via Proxy or not	
	Delete	Delete entries	Empty
	Entry	Index: Enter the index for delete.	

## 13. Use Private IP (Behind NAT)

Using a Private IP in a NAT Environment

The gateway is able to communicate with other gateways under a NAT environment using Private IP addresses on the LAN side of your IP Sharing device. However you must configure the IP Sharing device to treat the gateway as a Virtual Server using UDP port 5060,2000.

You will have to ask MIS personnel to enable the ports listed in the following table.

Packet Modes	Using Ports
SIP Signal Packets	UDP 5060
Gateway Signaling Port	UDP 2000
Gateway RTP Base Port	UDP 4000
FTP software upgrade	TCP 21
Web management	TCP 80

If you want to use private IP behind NAT and Proxy Server is in Internet, you must need to enable STUN service. If the system is installed in VPN, it is not necessary to Enable Stun.

## 14. File Management

### 14.1. File Types

The naming convention to the file type of VPS3302 is listed in the following table:

File Name File Type		Description		
SIP3302.CFG	Questaux			
SIP3304.CFG	System	File of system configuration		
SIP33XX.CFG	configuration file			
SIP3302.RUN				
SIP3304.RUN	Executing file	System Software		
SIP33XX.RUN				
SIP3302.WEB				
SIP3304.WEB	Web file	Page for web browser		
SIP33xx.WEB				

#### 14.2. Software Update

#### 14.2.1. Software update via FTP

#### Preparation before Updating FIRMWARE

- 1. Power on the Conference Bridge
- 2. Get Windows based PC ready
- 3. LAN cable is well connected (for FTP)
- 4. Configure the IP, Subnet, and Default Gateway of this gateway and PC
- 5. Get the file of update "GW FIRMWARE" ready

#### Software Update by FTP for File Type RUN and WEB

 Execute FTP Client Software, e.g. CuteFTP Enter IP Address, User Name (default is FTP), Password (the password of FTP and Console is same, and the default is blank), and the Port Number to 21

<mark>憶</mark> GlobalSCAPE, Inc CuteFTP Pro 3.0 檔案(E) 編輯(E) 檢視(V) 工具(O) 誘	見窗(W) 説明(H)						N X
	1 - 🗳 🗉 😂 🕇	Xee					
	使用者名稱	· · · · · · · · · · · · · · · · · · ·	埠:	21 🖉 🕽 🔯			_
<ul> <li>General FTP Sites</li> <li>192.168.8.31</li> <li>192.168.8.31</li> <li>192.168.8.31</li> <li>192.168.8.51</li> <li>192.168.8.61</li> <li>192.168.8.61</li> <li>192.168.8.73</li> <li>192.168.8.71</li> <li>192.168.8.11</li> <li>203.69.107.30</li> <li>Alvin</li> <li>TONY</li> <li>Vodte) Code</li> <li>南京</li> </ul>						K	
▲ 本機磁碟 (1) 站台管理員 × / # 10日々解			( ) 10	( ) at 100	(	1.000	
	立址	大小   進度	本機	]遠端	經過	<b>東山</b> (余)	速度 ▶
□ 候傳視窗 / 記錄視窗 /							
諸按 F1 鍵使用說明						CAP NUM	

2. Click button **Connect** to get connection between gateway and FTP Client. The files of the gateway will be displayed on the window if the connection is successful.

i GlobalSCAPE - CuteFTP 6.0 Professional - [1 □ File Edit View Tools Window	
	<u>∎e</u> ⊙ - ⊙ -   P 20 ⊂ ! × ⊻ ©
× 1	🗅 / 🔄 🛃 🔁 😤 🗡 📃 🕫
📄 📄 F:\Documents\3700\V9\UI 💌 🥬 📗	🛆 Name Size Type Modified
Name 🛆 Size Type	圖 COLDSTART 0 bytes 檔案 2005/1/1 上午 07:59:00
■ SIP3304.WEB 160.04 WEB 権	IP3304.CFG 64.08 KB CFG 檔案 2005/1/1 上午 08:01:00
🖬 SIP3304.RUN 1.27 MB RUN 檔	■ SIP 3304.RUN 1.27 MB RUN 檔案 2005/4/7 上午 09:40:00
_	圖 SIP 3304. VON 64.00 KB VON 檔案 2004/6/11 下午 04:27:00
	SIP3304.WEB 160.04 WEB 檔案 2005/2/24 下午 02:55:00
	■ WARMSTART 0 bytes 檔案 2005/1/1 上午 07:59:00
	* 227 Entering Passive Mode (10,13,6,11,4,7)
	COMMAND:> LIST STATUS:> Connecting FTP data socket 10.13.6.11:1031
	150 Opening ASCII mode data connection
	226 Transfer complete
🧓 Local Drives 🔟 Site Manager	▼ 10.13.6.11
X 🛆 # Item Name Add	ess <-> Size Progress Local
Queue Window / Log Window /	
For Help, press F1	10.13.6.11, 6 object(s), 1.55 MB

 Select the file with extension of .RUN and click button Upload and then Yes to overwrite. (Please notice that the file name must be same as the file name in the Gateway, e.g. SIP3304.RUN).

🦉 GlobalSCAPE - CuteFTP 6.0 Professional - [10.13.6.11 - 10.13.6.11, Status: Xfer using current se	
File Edit View Tools Window Help	_ <u>- 8 ×</u>
🗴 🖸 - 🔍 🖉 🖗 📽 🛍 🗈 🔕 🛛 🗸 🖓 - 💾 🖉	
× []	🗟 🖪 🗙 🎽 🕲 📕 🔅
F:Documents/3700	Modified
Name Confirm File Replace (Closing in 26 seconds)	▲ 1/1 上午 07:59:00
This folder already contains a file named SIP3304.RUN	1/1 上午 08:01:00
SIP3304.RUN	4/7 上午 09:40:00
Would you like to replace the existing file	6/11 下午 04:27:00 2/24 下午 02:55:00
	2/24 平平 02:55:00 1/1 上午 07:59:00
1.27 MB modified: Thursday, April 07, 2005, 09:40:00	1/1 1   07.55.00
with this one?	
wild dds olle ?	4,7)
1.27 MB modified: Evidey, April 15, 2005, 10:15:00	:1031
modified: Friday, April 15, 2005, 10:15:00	pn 🚰
📴 Local Drives 🔟	<u>N</u> o
× / # Item Name Address <-> Size Progress   1	-0C81
	?\Documents\3700\V9\UI\firmware\&
1 H SIP3304.RUN 10.13.6 📥 1.27 MB 0% F	:\Documents\3700\V9\UI\firmware\S
Queue Window / Log Window /	
For Help, press F1 [10.13.6.11, 6 object(s), 1.55 MB	
	1 1/4

- 4. After the file is overwritten (you may check if the time of the file is updated), Gateway has to run Cold Start to store the configure file, then the updating is effective.
- Select the file with extension of .WEB and click button Upload (Please notice that the file name must be same as the file name in the Gateway, e.g. SIP3302.WEB). And repeat the step 3 ~ 4.
- 6. Check if the uploading is successful, you enter the Web Management Page to examine the version of software. (Web Folder: BASIC\GENERAL)

Edgor Fowered by Acctor		atewa	ay°VG3300	Series		
	HOME BA	ASIC	IP SETTINGS AD VANCE		PHONEBO	1
GENERAL 🌻	Information			Ap	ply Revert	
	Region ID	0	(Taiwan)	_		
	Software Version	1.07.0			_	
	BootRom Version	1.01				
	Hardware Version	3.00				Check if the
	Card Type	4 PORT_	FXS			
	Up-Time	0 day 9 h	nr 24 min 50 sec			version is
	MAC Address	00-03-62	2-80-4C-AC		L	
	Date	2000/01,	/01			
	Time	17:24:48	3			

# 15. Appendix

### 15.1. Appendix A: Phone-Set Command

Pick up the handset and listen for the dialing tone. Dial "##0000 and listen for three consecutive tones before setting the following parameters. After input the parameters, please dial '# to end the configuration.

Command	Description	Parameters
01	IP State	0 : static; 1: DHCP; 2: PPPoE
02	IP Address	xxx*xxx*xxx*xxx
03	Subnet Mask	xxx*xxx*xxx*xxx
04	Default Gateway	xxx*xxx*xxx*xxx
05	Primary DNS Server IP	xxx*xxx*xxx*xxx
06	Second DNS Server IP	xxx*xxx*xxx*xxx
07	Select Signaling Port	0~65535
08	Select RTP Base Port	0~65534 (limit to even port number only)
09	PPPoE username	User name (use the mapping table to map character into digits)
10	PPPoE password	Password (use the mapping table to map character into digits)
11	DND	Do not Disturb, this line accept dial out call only. All incoming call is terminated. 0 : Disable ; 1: Enable
12	SIP Forward State	0 : Disable ; 1: Enable; 2: Busy; 3: No Answer
13	SIP Forward To Number	The SIP number that this line will forward to. The Forward To address is "key in phone-set <u>number@SIP</u> proxy registered". For example, <u>73796@fwd.pulver.com</u> , 73796 is the number you key-in by phone-set. fwd.pulver.com is the registered proxy of this gateway.
14	Change Service Port	1:FTP; 2:HTTP 3:Telnet (Port: 0-65535)
15	Change WEB	6 digits

	Password	
16	Change FTP	6 digits
	Password	
40	Listen for the IP	(ending "#" is not required)
	Address	
41	Listen for the Subnet	(ending "#" is not required)
	Mask	
42	Listen for the Default	(ending "#" is not required)
	Gateway	
46	Listen for WEB, FTP,	1:FTP; 2:HTTP 3:Telnet
	Telnet Port	
47	Listen for Current	(ending "#" is not required)
	Public Address	
95	Region ID	2 digits
97	Reset unit to Factory	1: reset all; 2: keep IP
	Default values	
98	System Warm Restart	1: do it

# 15.2. Appendix B: Console Command

User Exec commands

Enable Exit Help Show	Turn on privileged commands Exit from the EXEC Description of the interactive help system Show running system information
show Dns ethernet history Ip running-config version	Show the IP address of domain name server FastEthernet port status and configuration Display the session command history Display IP configuration Show current operating configuration System hardware and software status
Privileged Mode Configure Delete Disable Exit Help Ping Probe-hook Probe-remove Reload Restart Show	Enter configuration mode Reset configuration Turn off privileged commands Exit from the EXEC Description of the interactive help system Send echo request to destination probe busytone cadence stop probe busytone cadence Halt and perform cold start Halt and perform warm start Show running system information
Global Mode Dbflush Dns End Exit Help Ip Log No pppoe regional_id service_port	DataBase flush Set the IP address of domain name server Exit from configure mode to privileged mode Exit from configure mode Description of the interactive help system Global IP configuration subcommands Control log output Negate a command or set its defaults PPPoE configuration subcommands Set regional id Set service port number

## 15.3. Specifications

Voice Interface		
	Loop start, 2 wire	
FXS interface	Feeding Voltage: 20V	
	Feeding Current: 30 mA	
FXO interface	Loop start, 2 wire	
Connectors	RJ-11 Connectors (3304/3306)	
Connectors	IDC Connectors (3310/3318)	
Voice compression	G.711/G.723/G.729AB	
Silence suppression	VAD, CNG	
Echo cancellation	G.165/G.168 16ms	
Jitter buffer	Adaptive jitter buffer management	
Gain control	In/Out +/-6db	
Transport protocols	RTP, RTCP	
Call control protocol	Pure SIP	
Network Interface		
Number of ports	Two Ethernet ports	
Interface	10BASE-T/100BASE-TX Auto-negotiation	
Connectors	RJ-45 Connectors	
General Spec		
	VG3306: 172mm x 177mm x 35 mm	
Dimension	VG3310: 440mm x 44mm x 254 mm	
	VG3318: 440mm x 66mm x 254 mm	
Power	Voltage: 100-240 VAC, Frequency: 50/60 Hz	
Power consumption	VG3306: 12W	
	VG3310/3716: 70W	
Working environment	Operating temperature: 0 to 50 $^\circ\!\mathrm{C}$	
	Storage temperature: -10 to $70^{\circ}$ C	
EMI	FCC part 15 Class B . CE Mark	
РТТ	FCC part 68 , NALTE , iDA , JATE	
Safety	cUL , CCIB , CB	

## **15.4.** Mapping table of characters used in PPPoE

Character	Digits to key-in	Character	Digits to key-in
0	30	Х	58
1	31	Y	59
2	32	Z	5*0
3	33	а	61
4	34	b	62
5	35	С	63
6	36	d	64
7	37	е	65
8	38	f	66
9	39	g	67
@	40	h	68
А	41	i	69
В	42	j	6*0
С	43	k	6*1
D	44	Ι	6*2
E	45	m	6*3
F	46	n	6*4
G	47	0	6*5
н	48	р	70
I	49	q	71
J	4*0	r	72
К	4*1	S	73
L	4*2	t	74
Μ	4*3	u	75
Ν	4*4	u	76
0	4*5	W	77
Р	50	Х	78
Q	51	У	79
R	52	Z	7*0
S	53	=	3*3
Т	54		2*4
U	55		

V	56	
W	57	

# 15.5. Region ID

Country	Region ID	Country	Region ID	Country	Region ID
Argentina	01	France	12	Singapore	36
Australia	02	Germany	13	Slovenia	38
Philippines	03	Hong Kong	15	South Africa	39
Portugal	04	India	18	Spain	40
Brazil	05	Italy	22	Switzerland	42
Canada	06	Japan	23	Taiwan	43
China	07	Korea	24	Thailand	44
Russia	08	Malaysia	26	British	46
Sweden	09	Mexico	27	USA	47
Vietnam	10	Netherlands	28		
Belgium	11	New Zealand	29		

V	56	
W	57	

# 15.5. Region ID

Country	Region ID	Country	Region ID	Country	Region ID
Argentina	01	France	12	Singapore	36
Australia	02	Germany	13	Slovenia	38
Philippines	03	Hong Kong	15	South Africa	39
Portugal	04	India	18	Spain	40
Brazil	05	Italy	22	Switzerland	42
Canada	06	Japan	23	Taiwan	43
China	07	Korea	24	Thailand	44
Russia	08	Malaysia	26	British	46
Sweden	09	Mexico	27	USA	47
Vietnam	10	Netherlands	28		
Belgium	11	New Zealand	29		

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