

SNR-VP-6020 User Manual





Please read the following safety notices before installing or using this phone. They are crucial for the safe and reliable operation of the device.

- □ Please use the external power supply that is included in the package. Other power supplies may cause damage to the phone, affect the behavior or induce noise.
- □ Before using the external power supply in the package, please check with home power voltage. Inaccurate power voltage may cause fire and damage.
- □ Please do not damage the power cord. If power cord or plug is impaired, do not use it, it may cause fire or electric shock.
- □ The plug-socket combination must be accessible at all times because it serves as the main disconnecting device.
- Do not drop, knock or shake it. Rough handling can break internal circuit boards.
- Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the phone to high temperature, below 0° C or high humidity. Avoid wetting the unit with any liquid.
- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug or phone line, it may cause an electric shock.
- Do not install this phone in an ill-ventilated place.
- You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

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1. Introducing FV6020 VoIP Phone

1.1. Thank you for your purchasing FV6020

Thank you for your purchasing FV6020, FV6020 is a full-feature telephone that provides voice communication over the same data network that your computer uses. This phone functions not only much

like a traditional phone, allowing to place and receive calls, and enjoy other features that traditional phone

has, but also it own many data services features which you could not expect from a traditional telephone.

This guide will help you easily use the various features and services available on your phone.



1.2. Delivery Content

Please check whether the delivery contains the following parts:

The base unit with display and keypad The handset The handset cable The power supply The Ethernet cable

1.3. Keypad



The numeric keypad with the keys 0 to 9, *, and # is used to enter Digits and letters, additionally, the following keys are available:

Key mapping:

Key	Description
	In idle state, press the MENU key to call up the menu.
TUP	The phone can realize the following features by the UP key or the DOWN key. When you pick up the handset or during calling, use the UP key or the DOWN key to adjust volume; Use the UP key or the DOWN key to browse menu; cancel or
SYSINF0 ENTER	 confirm action; browse calling list. In idle state, press the SYSINFO key for once to look up this VoIP Phone Number, this VoIP Phone local IP address for twice and Local Gateway IP address for three times.
EXIT	Press the ENTER key to confirm action, selection, or enter into the next menu in menu mode.
OUT IN REC	Use the EXIT key to return to the previous menu in menu mode. In idle state, press the IN key or the OUT key to browse missed call, received call or
	dialed call, and realize dialing by the REDIAL/ SEND key.
PBOOK	In idle state, press the REC key to look up new, old received Voice record and user-defined voice record, and plays them. During call, press the REC key to record
DEL	call content. In idle state, press the PBOOK key to access phone book, then use the REDIAL/
MUTE	SEND key to dial. You can browse phone book by the UP key or the DOWN key. In menu mode, use the DEL key to delete.
HOLD	Mute microphone on/off, during a call.

Press the HOLD key, input the third party telephone number, then press the # key to realize the third party call. If you want to switch back from the third party call, press the HOLD key again.

TRANSFER	Press the TRANSFER key during call, can realize blind transfer and attended transfer.
REDIAL/SEND	Press the REDIAL/SEND key to dial the last dialed number. Select contact name or telephone number in Phone book, Then press this key to send the number.
SPEAKER	Switch to hand-free mode and back.

1.4. Port for connecting

POWER	10	
ON SFF	DC 5V	LAN WAN
POWER	Power switch	Select ON/OFF
DC 5V	Power port	Output: 5V/1A
LAN	Network port	Connect it to PC
WAN	Network port	Connect it to Network

The phone has two Network ports: The WAN port and the LAN port. Before you connect the power source, please carefully read Safety Notices of this user manual.

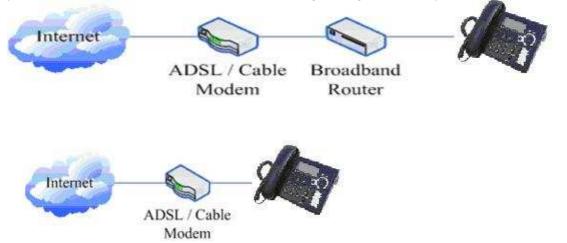
2. Initial connecting and Setting

2.1. connect the phone

Step 1: Connect the IP Phone to the corporate IP telephony network. Before you connect the phone to the network, please check if your network can work normally.

You can do this in one of two ways, depending on how your workspace is set up.

Direct network connection—by this method, you need at least one available Ethernet port in your workspace. Use the Ethernet cable in the package to connect WAN port on the back of your phone to the Ethernet port in your workspace. Since this VoIP Phone has router functionality, whether you have a broadband router or not, you can make direct network connect. The following two figures are for your reference.



Shared network connection—Use this method if you have a single Ethernet port in your workspace with your desktop computer already connected to it. First, disconnect the Ethernet cable from the computer and attach it to the WAN port on the back of your phone. Next, use the Ethernet cable in the package to connect LAN port on the back of your desktop computer. Your IP Phone now shares a network connection with your computer. The following figure is for your reference.



Step 2: Connect the handset to the handset port by the handset cable in the package.

Step 3: connect the power supply plug to the DC 5V adapter port on the back of the phone. Use the power cable to connect the power supply to a standard power outlet in your workspace.

Step 4: push the on/off switch on the back of the phone to the on side, then the phone's LCD screen displays "WAIT LOGON". Later, a ready screen typically displays the date, time and current network mode. If your LCD screen displays different information from the above, you need refer to the next section "Initial setting" to set your network online mode.

If your VoIP phone registers into corporate IP telephony Server, your phone is ready to use.

2.2. Initial Setting

This VoIP Phone provides you with rich function and parameters setting. If you have enough knowledge about network and SIP protocol, it is better for you to understand many parameters. But if you know little about network and SIP protocol, you can also easily make initial setting according to the following steps to enjoy rapidly high quality voice and low cost from this VoIP Phone.

Before make initial setting, please check if your corporate IP telephony network can work normally, and you have finished "connect the phone".

This VoIP Phone Supports DHCP by default. It will receive an IP address and other network-related settings (Netmask, IP gateway, DNS server) from the DHCP server. If your network supports DHCP, you can connect this VoIP Phone directly to the network. If your network doesn't support DHCP, you need change this VoIP Phone's network connection setting. According to the following steps, change this VoIP Phone's DHCP network connection setting into PPPoE or static IP which your network supports at present.

2.2.1. PPPoE mode.

- 1. Prepare your PPPoE account name and password.
- 2. Press the MENU key, the LCD screen will display "INPUT PASSWORD".
- 3. Input the password (default value is 123), and press the ENTER key, the LCD screen will display "NETWORK".
- 4. Press the ENTER key and LCD screen will display "LAN", press the DOWN key, enter it by the ENTER key, the LCD screen will display "STATIC NET". Then press the DOWN key again, enter it by the ENTER key, the LCD screen will display "USER NAME".
- 5. Press the DOWN key, the LCD screen will display "PASSWORD". Then press the ENTER key, and the DEL key, input your PPPoE's password and confirm it by the ENTER Key, the LCD screen will display the password which you inputted.
- 6. Press the EXIT key to return to the previous menu, then press the DOWN key, the LCD screen will display "USER NAME". Press the ENTER key, and the DEL key, input your PPPoE's account name, then press the ENTER key to confirm it, the LCD screen will display the PPPoE's account name which you inputted.
- 7. Press the EXIT key for four times and press the DOWN key, till the LCD screen display "SYSTEM".
- 8. Press the ENTER key, the screen display "SAVE", then press the ENTER key again, the LCD screen will display "ARE YOU SURE".
- 9. Press the ENTER key, the phone will save your setting and the LCD screen will display "SAVING", then return to display "SAVE".
- 10. Press the EXIT key twice, then press numeric key "3" and hold until the screen display "ARE YOU SURE". Press the ENTER key, the screen will display "CHANGING", which means that the phone is trying to switch to PPPoE mode. If the icom "PPPoE" on the top of the screen keeps blink, it shows that the phone is trying to access the PPPoE server., and the IP is still static IP if you press SYSINFO key to display the current IP; if the icon "PPPoE" is showed without blink, it means that the phone has already gotten IP from PPPoE server.

2.2.2. Static IP mode:

- 1. Prepare your phone's network parameters. They are IP Address of this phone, Subnet Mask, Default Gateway/ Router and DNS. You can ask your VoIP service provider for those parameters.
- 2. Press the MENU key, the LCD screen will display "INPUT PASSWORD".
- 3. Input password (default is 123), then press the ENTER key, the LCD screen will display" NETWORK".
- 4. Press the ENTER key, and the LCD screen will display "LAN". Press the DOWN key, then the ENTER key, the LCD screen will display "STATIC NET".
- 5. Press the ENTER key, the LCD screen will display "IP". Press the ENTER key again and then the DEL key, input your desired IP address for your IP phone and confirmed by pressing the ENTER key, then the LCD will display the input IP address. When inputting IP with keypad, use "*" instead of ".".
- 6. Press the EXIT key to return to previous menu, then press the DOWN key for twice, the LCD screen will

display "DNS". Press the ENTER key then the DEL key, input your DNS address and confirm it by pressing the ENTER key, and then the LCD will display the input DNS address.

- 7. Press the EXIT key to return to the previous menu, and then press the DOWN key, the LCD screen will display "GATEWAY". Press the ENTER key again and then the DEL key, input your gateway's IP address and confirm it by pressing the ENTER key, the LCD screen will display the input gateway address.
- 8. Press the EXIT key to return to the previous menu, and then press the DOWN key, the LCD screen will display "NETMASK". Press the ENTER key again and then the DEL key, input your netmask and press the ENTER key to confirm it. The LCD screen will display the input netmask.
- 9. Press the EXIT key for four times and press the DOWN key, till the LCD Screen displays "SYSTEM".
- 11. Press the ENTER key, the LCD screen will display "save", then press the ENTER key again, the LCD screen will display" ARE YOU SURE".
- 12. Press the ENTER key, this phone will display "SAVING", then return to display "SAVE".
- 13. Press the EXIT key twice to exit the menu, and then press the numeric key 1 till the LCD screen displays "ARE YOU SURE". Press the ENTER key, the LCD screen will display "CHANGING", If the icon "static" on the top of screen shows without blink, it means phone has already used the static IP.

2.2.3. DHCP mode

Press the numeric key 2 and hold till the LCD screen displays "ARE YOU SURE". Press the ENTER key, the LCD screen will display "CHANGING" and this VoIP phone is trying to switch to DHCP mode. If the icom "DHCP" on the top of the screen keeps blink, it shows that the phone is trying to access the DHCP server., and the IP is 0.0.0.0 if you press SYSINFO key to display the current IP; if the icon "DHCP" is showed without blink, it means that the phone has already gotten IP from DHCP server.

3. Basic Functions

3.1. Basic operation

3.1.1. Accepting a call

There are four methods to accept an incoming call:

- □ Pick up handset to accept incoming calls.
- □ Press the **SPEAKER** button
- □ If you need switch from a hands-free call to handset, please pick up the handset directly.
- □ If you need switch from a handset call to hands-free, please press the **SPEAKER** button, and then hang up the handset.

3.1.2. Making a call

Use handset

Pick up the handset, and the LCD screen will display "**PLEASE DIAL**" and you will hear dialing tone at the same time, then input the phone number and end by the # button. When you hear long ring "du, du…" from handset and the LCD screen display "**CALLING**" the call is through. Hang up the handset to end the call.

Use hands-free

Press the **SPEAKER** button and the LCD screen will display "**PLEASE DIAL**" and you will hear dialing tone at the same time, then input the phone number and end by the # button. When you hear long ring "du, du…" and the LCD screen display "**CALLING**" the call is through. Press the **SPEAKER** button again to end the call.

 \Box Use the phone book

Press the **PBOOK** button then the **ENTER** button you will enter into the phone book. Press the **UP/DOWN** button to select your desired contact person, then press the **REDIAL/SEND** button to dial the call.

Onhook dial Input the called number, and press # key or **REDIAL/SEND** button, phone will dial the call and use hands-free automatically.

3.1.3. Ending a call

- □ Hangs up by handset onhook
- □ Hangs up by press speaker when in hands-free
- □ Hangs up a call when in call waiting state. If you are in call waiting state, you could press # key to hang up the current call, and switch to the other call to keep talking.

Pressing # key will not hang up if there is only one call currently.

3.1.4. Transferring a call

Call transfer has several ways to realize:

- 1. When A talks to B, B may press the HOLD key and dial to C phone number. After B talks to C (or B hear alert from C), B presses the TRANSFER key; B could hang up, and A will get through to C.
- 2. When A talks to B, there is C call incoming to B; B may press the HOLD key to hold A, and talks to C, pressing the TRANSFER key, so A will get through to C.
- 3. When A talks to B, B presses the TRANSFER key, dial C phone number and # key, B could hang up and A will get through to C.

1 and 2 are attended transfer; 3 is blind transfer.

Notice to VoIP Phone Carrier: Your VoIP phone server need support FRC3515, or else transferring can not work.

3.1.5. Calling Hold and 3 ways call

There are two modes to enjoy hold function:

- 1. Press the **HOLD** key during a call, and the call will be on hold. While a call is on hold, you can establish another call by dialing your desired number and confirm it by the # button. Pressing the **HOLD** key again will resume the first call. By using hold function, you can talk with only one party; the other party who is on hold can't talk with you. If you press the * button, you will enter into **3 ways call**.
- 2. If the third party calls you during a call, the LCD screen will display the incoming call number. Press the hold key or # key to hold the first call, and then you can talk with the third party. By using hold function, you can talk with only one party; the other party who is on hold can't talk with you. If you press # key, phone will hang up the first call, and then accept the new incoming call.

Notice: You must enable the calling waiting or else calling hold can't work.

3.1.6. Calls list

The VoIP phone maintains lists of missed, received, and dialed calls. Each list can contain up to 100 entries. If the call list capacity is full, new call will replace the first call. If you stop power supply or restart the phone, the record will disappear.

Missed Calls

Press the **IN** key, and then the **UP/DOWN** key, till the LCD screen display "**MISSED**". Press the **ENTER** key, the LCD screen will display the missed call number and sequence numbers of the missed calls.

You can press the **REDIAL/SEND** key to dial this phone number, or you can press the **ENTER** key, the LCD screen will display the time of the missed calls. If there is no one missed calls, the LCD will display "**LIST IS EMPTY**".

□ Received Calls

Press the **IN** key, and then the **UP/DOWN** key, till the LCD screen display "**RECEIVED**". Press ENTER key, the LCD screen will display the received call numbers and sequence numbers of the received calls. You can press the **REDIAL/SEND** key to dial this phone number, or you can Press the **ENTER** key, the LCD screen will show the time of the received call. If there is no one received call, the LCD will display "**LIST IS EMPTY**".

Dialed calls

Press the **OUT** key, the LCD screen will display the phone numbers and sequence numbers of the dialed calls. You can press the **REDIAL/SEND** key to dial this phone number, or press the **UP/DOWN** key to browse all records of the dialed calls. If there is on one dialed calls, the LCD will display "**LIST IS EMPTY**".

3.2. The high-level operation

This VoIP Phone provides more advanced functions after setting at the permission scope of SIP server. Please refer to next section to operate.

4. Setting

4.1. Setting methods

VoIP Phone is different from the traditional phone; it need be set to make it active. If your VoIP service provider asks you to set this phone, you can do it easily according to the following methods. This VoIP Phone can be set via three different setting methods:

The phone key

The web browser on PC

Telnet

This Manual will tell you about the setting methods via the web browser on PC.

4.2. Setting via Web Browse

When this phone and your PC are connected to your network, enter the IP address of the wan port in this phone as the URL (e.g. http://xxx.xxx.xxx/ or http://xxx.xxx.xxx/).

If you do not know the IP address, you can look it up on the phone's display by pressing the key "**SYSINFO**" for at most three times.

After you enter the IP address, you will see the following web interface.

Current Status Network VOIP Advance Dial-peer Config Manage Update System Manage	Username: Password: Logon

This phone provides different two privileges for different users to set it.

The two privileges are guest and administrator respectively. In guest privilege, user can see but not modify Register/Proxy Sever Address and port of SIP, advance SIP and Iax2. In administrator privilege, user can see and modify all setting parameters.

Default value in guest privilege Username: guest Password: guest

Default value in Administrator privilege Username: admin Password: admin

Input username and password, click "logon", and you will enter setting web interface.

There is a selection menu on the left side of the web interface. Click on the desired submenu; the current settings of this submenu will be displayed in the larger field on the right. You can now modify and store the values by using mouse and keyboard of your PC. To save the changes, click on the submenu of "Save Config" under "Config Manage", then click the "Save" button on the right field.

4.2.1. Current Status

Click on the first submenu "Current status", you will enter in the following web interface. In this web interface, you will see current set parameters, status, and the firmware version.

			Curren	t Status	
Network					
WAN				LAN	
Connect Mode	Static			IP Address	192.168.10.1
MAC Address	00:01:02:03	3:04:	0e	DHCP Server	ON
IP Address	192.168.1.1	.11			
Gateway	192.168.1.1	L			
VOIP					
Default Protoco	ol:SIP				
SIP				IAX2	
Register Serve	r 192.168.1.2	2		IAX2 Server	
Proxy Server				Register	OFF
Register	ON			State	Unregistered
State	Registered				
SIP STUN	TUN OFF				
Phone Num	ber				
Public SIP			542		
Private SIP					
IAX2	IAX2				
	Ve	rsion	: VOIP PHONE V1.6	.60.50 Dec 20 20	07 17:35:26
			Curre	nt Status	
Network Shows the configuration information on WAN and LAN port, including the connect mode of WAN port (Static, DHCP, PPPoE MAC address, the IP address of WAN port and LAN port, ON or of DHCP mode of LAN port.		AN port (Static, DHCP, PPPoE),			
VoIPevery protocol. You can know of both IAX2 and SIP, proxy register the SIP and IAX2 ser		can know abo P, proxy serve IAX2 servers	phone, and some parameters of ut IP addresses of register servers er IP address, whether start to or not, whether be registered or register the STUN server.		
Phone Number Shows the phone numbers provided by the SIP, SIP2 and IAX2 servers. The last line shows the version number and issued date.					

4.2.2. Network

4.2.2.1. WAN Config

		WAN Cor	figuratio	on
Active Statu	s			
Active IP			192.168.1.116	
Current Netmas	L .		255.255.255.0	
MAC Address	×		00:0e:e9:02:80	
Current Gatewa	v		192.168.1.1	
Mac Authenticat				Valid MAC
	ing cour		<u>.</u> р	Tulia Mire
Static Mode	Setting			
IP Address	192,168,1,116		Netmask	255.255.255.0
Gateway	192.168.1.1		DNS Domain	
Primary DNS	192.168.1.1		Alter DNS	202.96.128.68
1				
NET Mode S	etting			
St	atic 💿	DH	СР 🔿	PPPOE O
PPPoE Mode	e Setting			
PPPOE Server		ANY		
Username		user123		
Password				
				ц.
		A	pply	
		WAN	Config	
Active Statu	IS			
Active IP			192.168.1.116	
Current Netmask			255.255.255.0	
MAC Address			00:0e:e9:02:86	:6c
Current Gatewa	ay .		192.168.1.1	
Mac Authentica	ting Code		ſ	Valid MAC
Activ		The current IP add		one
Current 1		The current Netm		
MAC A		The current MAC		
Current	Gateway	The current Gatew		
Mac Auth	Mac Authenticating CodeSet the corresponding authenticating code of MAC. If you don't pass the authentication, then it will show "invalid MAC", at this time, phone will have no sound while the network is normal.			vill show "invalid MAC", at this
Static Mode	Setting			
IP Address 192.168.1.116			Netmask	255.255.255.0
Gateway	192.168.1.1		DNS Domain	
Primary DNS	192.168.1.1		Alter DNS	202.96.128.68
	atic mode, you			
IP Ad	dress	Input the IP addre		
Netn	nask	Input the Netmasl	c distributed to	you.

Gateway	Input the Gateway address distrib	outed to you.	
DNS Domain	Set DNS domain postfix. When the domain which you input can not be parsed, gateway will automatically add this domain to the end of the domain which you input before and parse it again.		
Primary DNS	Input your primary DNS server address.		
Alter DNS	Input your standby DNS server address.		
NET Mode Setting			
Static 🕥	рнср 🔿	PPPOE 🔿	

Please select the proper network mode according to the network condition. this VoIP Phone provide three different network settings:

- Static: If your ISP server provides you the static IP address, please select this mode, and then finish Static Mode setting. If you don't know about parameters of Static Mode setting, please ask your ISP for them.
- DHCP: In this mode, you will get the information from the DHCP server automatically; need not to input this information artificially.
- PPPoE: In this mode, your must input your ADSL account and password.

You can also refer to 2.2. Initial Setting to speed setting your network.

PPPOE Server	ANY	
Username	user123	
Password	***	
If you uses PPPoE mo	ode, you need to make the above setting.	
PPPoE Server	It will be provided by ISP.	
User	Input your ADSL account.	
	Input your ADSL password.	

Notice:

1) Click "Apply" button after finished your setting, IP Phone will save the setting automatically and new setting will take effect.

- 2) If you modify the IP address, the web will not response by the old IP address. Your need input new IP address in the address column to logon in the phone.
- 3) If networks ID which is distributed by DHCP server is the same as network ID which is used by LAN of system, system will use the DHCP IP to set WAN, and modify LAN's networks ID(for example, system will change LAN IP from 192.168.10.1 to 192.168.11.1) when system uses DHCP client to get IP in startup; if system uses DHCP client to get IP in running status and network ID is also same as LAN's, system will refuse to accept the IP to configure WAN. So WAN's active IP will be 0.0.00

4.2.2.2. LAN Config

LAN Configuration

LAN Set		
LAN IP	192.168.10.1	
Netmask	255.255.255.0	
DHCP Service		
NAT		
Bridge Mode		
If you are using lan ip,pleas	e reconnect with new IP after your modification !	
	Apply	
	LAN Configuration	
LAN IP	specify LAN static IP	
Netmask	specify LAN Netmask	

DHCP Service	Select the DHCP server of LAN port or not. After you modify the LAN IP address, gateway will amend and adjust the DHCP Lease Table and save the result amended automatically according to the IP address and Netmask. You need restart the phone and the DHCP server setting will take effect.	
NAT	Select NAT or not	
Bridge Mode	Select Bridge Mode or not: If you select Bridge Mode, the phone will no longer set IP address for LAN physical port, LAN and WAN will join in the same network. Click "Apply", the phone will reboot.	
Notice: If you choose the bridge mode, the LAN configuration will be disabled.		

4.2.3. VoIP

4.2.3.1. SIP Config Set your SIP server in the following interface

	SIP Cor	nfiguration					
SIP Setting							
Register Status	Registered	Proxy Server Addr					
Register Server Addr	192.168.1.2	Proxy Server Port					
Register Server Port	5060	Proxy Username					
Register Username	2115	Proxy Password					
Register Password	••••	Local SIP Port	5060				
Domain Realm		Register Expire Time	60 seconds				
Phone Number	2115	RFC Protocol Edition	RFC3261 ¥				
NAT Keep Alive Interval	60 seconds	Server Type	common M				
Encrypt Key		User Agent	Voip Phone 1.0				
DTMF Mode	DTMF_RFC2833	Forward Type	Off 💌				
Conference Number		Forward Phone Number					
Enable Conference Num	0	SIP(Default Protocol)					
Enable Register							
	<u>Г</u>	Apply					
		Config					
Filed name	511	Illumination					
Register Status	Shows if the pho	ne has been registered th	e SIP server or not				
Register Server Add							
Register Server Por							
Register Username	e Input your SIP re	our SIP register account name.					
Register Password							
	Set proxy server	Set proxy server IP address (Usually, Register SIP Server					
Ducara Comroy A 11	configuration is t	he same as Proxy SIP Se	erver. But if your VoIP				
Proxy Server Add	service provider	service provider give different configurations between Register SI					
		Server and Proxy SIP Server, you need make different settings.)					
Proxy Server Port							
Proxy Username		SIP server account.					
Proxy Password	Input your Proxy	SIP server password.					

Domain Realmproxy server address as sip domain automatically. (Usually it same with registered server and proxy server IP address).Phone NumberInput the phone number assigned by your VoIP service provid Phone will not register if there is no phone number configured.Register Expire TimeSet expire time of SIP server reguster, default is 60 seconds. If register time set, the phone will change automatically the time is the time recommended by the server, and register again.NAT Keep Alive IntervalSet examining interval of the server, default is 60 seconds.RFC Protocol EditionSelect SIP protocol version to adapt for the SIP server which is the same version as you select. For example, if the server is CISCO5300, you need to change to RFC2543, else phone may cancel call normally. System uses RFC3261 as default.DTMF ModeDTMF_RELAY DTMF_SIP_INFO Different VoIP Service providers may provide different mode Server TypeSet the user agent if have, the default is VoIP Phone 1.0Select call forward mode, the default is Off Off: Close down calling forwardBroward TypeSet the user agent if have, the default is Off Off: Close down calling forwardForward TypeSet the sponted phone.Forward TypeSet the sponted phone.Forward Phone NumberSet the sponted phone Always: Incoming calls will be forwarded to the appoint phone directly, and the phone will not ring.Conference NumberSet the special phone number of 3 way calling.Forward Phone NumberSet the special phone number of suppoint phone directly, and the phone will not ring.Conference NumberSet the special phone number of a way calling.	Local SIP Port	Set your Local SIP port, the default is 5060.
Phone will not register if there is no phone number configured Register Expire Time Set expire time of SIP server register, default is 60 seconds. If register Expire Time register time of the server requested is longer or shorter than the NAT Keep Alive the time recommended by the server, and register again. NAT Keep Alive Set examining interval of the server, default is 60 seconds. RFC Protocol Edition Select SIP protocol version to adapt for the SIP server which is CISCO5300, you need to change to RFC2543, else phone may cancel call normally. System uses RFC3261 as default. Select DTMF sending mode, there are three modes: DTMF_RELAY DTMF Mode DTMF_RELAY DTMF Node DTMF_RFC2833 DTMF Server Type Select the special type of server which is encrypted, or has sort unique requirements or call flows. Encrypt Key Set the key for encryption User Agent Select call forward mode, the default is VoIP Phone 1.0 Select call forward mode, the appointed phone. No answer: If there is no answer, incoming calls will be forwarded to the appointed phone. Forward Type Set the special phone number of 3 way calling. Forward Phone Number Appoint your forward phone number.	Domain Realm	
Register Expire Timeregister time of the server requested is longer or shorter than the expire time set, the phone will change automatically the time is the time recommended by the server, and register again.NAT Keep Alive IntervalSet examining interval of the server, default is 60 seconds.RFC Protocol EditionSelect SIP protocol version to adapt for the SIP server which the same version as you select. For example, if the server is CISCO5300, you need to change to RFC2543, else phone may cancel call normally. System uses RFC3261 as default.DTMF ModeDTMF_RELAYDTMF ModeDTMF_REC2833DTMF_SIP_INFODifferent VoIP Service providers may provide different modeServer TypeSelect the special type of server which is encrypted, or has sort unique requirements or call flows.Encrypt KeySet the key for encryptionUser AgentSet the user agent if have, the default is VoIP Phone 1.0Select call forward mode, the default is OffOff: Close down calling forward• Busy: If the phone is busy, incoming calls will be forward the appointed phone.• No answer: If there is no answer, incoming calls will be forward the appointed phone.• Always: Incoming calls will be forwarded to the appoint phone directly, and the phone will not ring.Set the special phone number of 3 way calling.Forward Phone NumberAppoint your forward phone number.Enable Conference NumberEnable/Disable the function which uses SIP server to realize 3	Phone Number	Phone will not register if there is no phone number configured.
IntervalSet examining interval of the server, default is 60 seconds.RFC Protocol EditionSelect SIP protocol version to adapt for the SIP server which is the same version as you select. For example, if the server is CISCO5300, you need to change to RFC2543, else phone may cancel call normally. System uses RFC3261 as default.DTMF ModeDTMF_RELAYDTMF ModeDTMF_RFC2833 DTMF_SIP_INFO Different VoIP Service providers may provide different mode Select the special type of server which is encrypted, or has sor unique requirements or call flows.Encrypt KeySet the key for encryptionUser AgentSelect call forward mode, the default is Off Off: Close down calling forwardForward TypeOff: Close down calling forward • Busy: If the phone is busy, incoming calls will be forwarded to the appointed phone.• No answer:If there is no answer, incoming calls will be forwarded to the appointed phone.• Always:Incoming calls will be forwarded to the appoint phone directly, and the phone will not ring.Conference NumberSet the special phone number of 3 way calling.Forward Phone NumberEnable/Disable the function which uses SIP server to realize 3		register time of the server requested is longer or shorter than the expire time set, the phone will change automatically the time into
RFC Protocol Editionthe same version as you select. For example, if the server is CISCO5300, you need to change to RFC2543, else phone may cancel call normally. System uses RFC3261 as default.DTMF ModeSelect DTMF sending mode, there are three modes: DTMF_RELAY DTMF_RFC2833 DTMF_SIP_INFO Different VoIP Service providers may provide different mode Server TypeServer TypeSelect the special type of server which is encrypted, or has sor unique requirements or call flows.Encrypt KeySet the key for encryptionUser AgentSelect call forward mode, the default is VoIP Phone 1.0Select call forward mode, the default is off Off: Close down calling forwardForward TypeNo answer: If there is no answer, incoming calls will be forwarded to the appointed phone. • No answer: If there is no answer, incoming calls will be forwarded to the appointed phone.Conference NumberSet the special phone number of 3 way calling.Forward Phone NumberAppoint your forward phone number.Enable Conference NumEnable/Disable the function which uses SIP server to realize 3	-	Set examining interval of the server, default is 60 seconds.
DTMF ModeDTMF_RELAYDTMF ModeDTMF_RFC2833DTMF_SIP_INFODifferent VoIP Service providers may provide different modeServer TypeSelect the special type of server which is encrypted, or has sorEncrypt KeySet the key for encryptionUser AgentSet the user agent if have, the default is VoIP Phone 1.0Select call forward mode, the default is OffOff: Close down calling forward• Busy: If the phone is busy, incoming calls will be forwar• No answer: If there is no answer, incoming calls will be forwarded to the appointed phone.• Always: Incoming calls will be forwarded to the appoint phone directly, and the phone will not ring.Conference NumberSet the special phone number of 3 way calling.Forward Phone NumberEnable/Disable the function which uses SIP server to realize 3	RFC Protocol Edition	the same version as you select. For example, if the server is CISCO5300, you need to change to RFC2543, else phone may not
Server TypeSelect the special type of server which is encrypted, or has sor unique requirements or call flows.Encrypt KeySet the key for encryptionUser AgentSet the user agent if have, the default is VoIP Phone 1.0Select call forward mode, the default is OffOff: Close down calling forwardForward Type• Busy: If the phone is busy, incoming calls will be forwa the appointed phone.• No answer: If there is no answer, incoming calls will be forwarded to the appointed phone.• Always: Incoming calls will be forwarded to the appoint phone directly, and the phone will not ring.Conference NumberSet the special phone number of 3 way calling.Forward Phone NumberEnable/Disable the function which uses SIP server to realize 3	DTMF Mode	Select DTMF sending mode, there are three modes: DTMF_RELAY DTMF_RFC2833
Encrypt KeySet the key for encryptionUser AgentSet the user agent if have, the default is VoIP Phone 1.0Select call forward mode, the default is OffSelect call forward mode, the default is OffOff:Off:Close down calling forward•Busy:If the phone is busy, incoming calls will be forwa the appointed phone.•No answer:If there is no answer, incoming calls will be forwarded to the appointed phone.•Always:Incoming calls will be forwarded to the appoint phone directly, and the phone will not ring.Conference NumberSet the special phone number of 3 way calling.Forward Phone NumberAppoint your forward phone number.Enable Conference NumEnable/Disable the function which uses SIP server to realize 3	Server Type	Select the special type of server which is encrypted, or has some
User AgentSet the user agent if have, the default is VoIP Phone 1.0Select call forward mode, the default is OffSelect call forward mode, the default is OffOff: Close down calling forwardOff: Close down calling forward• Busy: If the phone is busy, incoming calls will be forwar the appointed phone.No answer: If there is no answer, incoming calls will be forwarded to the appointed phone.• Always: Incoming calls will be forwarded to the appoint phone directly, and the phone will not ring.Conference NumberSet the special phone number of 3 way calling.Forward Phone NumberAppoint your forward phone number.Enable Conference NumEnable/Disable the function which uses SIP server to realize 3	Encrypt Key	
 Forward Type Forward Type Off: Close down calling forward Busy: If the phone is busy, incoming calls will be forward the appointed phone. No answer: If there is no answer, incoming calls will be forwarded to the appointed phone. Always: Incoming calls will be forwarded to the appoint phone directly, and the phone will not ring. Conference Number Set the special phone number of 3 way calling. Forward Phone Number Enable Conference Num 	User Agent	
Forward Phone NumberAppoint your forward phone number.Enable Conference NumEnable/Disable the function which uses SIP server to realize 3		 Off: Close down calling forward Busy: If the phone is busy, incoming calls will be forwarded to the appointed phone. No answer: If there is no answer, incoming calls will be forwarded to the appointed phone. Always: Incoming calls will be forwarded to the appoint phone directly, and the phone will not ring.
Enable Conference Num Enable/Disable the function which uses SIP server to realize 3		
	Forward Phone Number	Appoint your forward phone number.
talking, not realized by our system.	Enable Conference Num	Enable/Disable the function which uses SIP server to realize 3 way
Enable Register Start to register or not by selecting it or not.	Enable Register	
SIP(Default Protocol) Use SIP protocol as default dial protocol	SIP(Default Protocol)	

4.2.3.2. IAX2 Config

IAX2 Configuration

IAX2			
Register Status	Unregistered		
IAX2 Server Addr	192.168.1.2		
IAX2 Server Port	4569		
Account Name	2111		
Account Password			
Phone Number	2111		
Local Port	4569		
Voice Mail Number	0		
Voice Mail Text	mail		
Echo Test Number	1		
Echo Test Text	echo		
Refresh Time	60 Seconds		
Enable Register			
Enable G.729			
IAX2(Default Protocol)			
	Apply		
	IAX2 Config		
Register Status	Shows if the phone has been registered the IAX2 server or not.		
IAX2 Server Addr	Input your IAX2 server address.		
IAX2 Server Port	Set your IAX2 server port, the default is 4569.		
Account Name	Input your IAX2 register account name.		
Account Password	Input your IAX2 register password. Input your assigned phone number (usually it is same you're your		
Phone Number	IAX2 account name).		
Local Port	Set your local sport, the default is 4569.		
Voice Mail Number	Specify the voice mail's number.		
Voice Mail Text	Specify the voice mail's name.		
Echo Test Number	Set echo test number. If IAX2 server supports echo test, and echo test number is non- numeric, system could set an echo test number to replace the echo test text. So user can dial the numeric number to test echo voice test. This function is provided with server to make endpoint to test whether endpoint could talk through server normally		
Echo Test Text	Specify echo test text's name.		
Refresh Time	Set expire time of IAX2 server register, you can set it between 60 ar 3600 seconds.		
Enable Register	Start to register the IAX2 server or not by selecting it or not.		
Enable G.729	Enable or disable code G.729 by selecting it or not		
IAX2 (Default Protocol)	Select it to make all outgoing calls through the IAX2 server by default. If you also need make a call through SIP server, you can make prefix in dial peer setting to realize SIP calling. Note: any incoming call can be from both IAX2 and SIP.;		

4.2.4. Advance

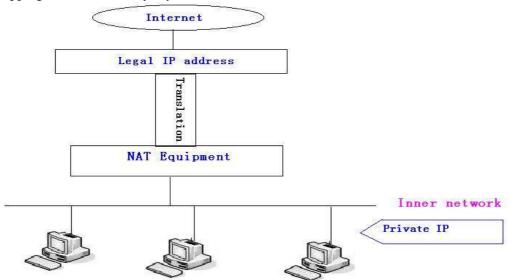
4.2.4.1. DHCP Service

DHCP Op	otion						
DNS Relay							
				Apply)		
DHCP Le	ase Tab	le					
Name	Start IF	,	End IP	Lease Time	Netmask	Gateway	DNS
lan	192.168.1	0.1	192.168.10.30	1440	255.255.255.0	192.168.10.1	192.168.10.1
ADD Lea	ase Tabl	е					
Lease Tabl	e Name	1		Star	t IP	1	
End IP		1		Netr	nask		
Gateway		1		Leas	e Time	1	minute
DNS		<u></u>				Add	
Delete L	ease Ta	ible					
Delete L Lease Tabl		ible Ian 💌				Delete	
		Ir	Ι	OHCP Set			
Lease Tabl		lan 🗸	I Select DN	S Relay, the		Delete Delete	Apply button
Lease Tabl	e Name NS Relay	lan 🛩	Ι	S Relay, the			Apply button (
Lease Tabl	e Name	lan 🛩	I Select DN	S Relay, the			Apply button t
Lease Tabl	e Name NS Relay	lan v	I Select DN	S Relay, the			Apply button t
Lease Tabl	e Name NS Relay ease Tal start 1 192.168.	lan v 7 Die 10.1	End IP 192.168.10.30	S Relay, the fective.	Netmask 255.255.255.0	De. Click the A Gateway 192.168.10.1	
Lease Tabl	e Name NS Relay ease Tal start 1 192.168. De DHCP	lan V ble 10.1 Lease	I Select DNS become eff End IP 192.168.10.30 e Table, the	S Relay, the fective.	Netmask 255.255.255.0 e time is Minu	De. Click the A Gateway 192.168.10.1	DNS
DHCP L Name Ian Lease	e Name NS Relay ease Tal start) 192.168. ne DHCP Table N	lan V ble 10.1 Lease	I Select DNS become eff End IP 192.168.10.30 e Table, the Specify the	S Relay, the fective. Lease Time 1440 unit of Lease e name of the	Netmask 255.255.255.0 e time is Minu e lease table	Die. Click the A Gateway 192.168.10.1 Ite.	DNS
Lease Tabl	e Name NS Relay ease Tal start 1 192.168. De DHCP	lan V ble 10.1 Lease	Image: Select DNS become eff become eff End IP 192.168.10.30 e Table, the Specify the Set the star	S Relay, the fective. Lease Time 1440 unit of Leas e name of the rt IP address	Netmask 255.255.255.0 e time is Minu e lease table of the lease ta	Gateway 192.168.10.1 Ite.	DNS 192,168,10.1
DHCP Lo DHCP Lo Name Ian Shows th Lease	e Name NS Relay ease Tal start) 192.168. ne DHCP Table N	lan V ble 10.1 Lease	End IP 192.168.10.30 E Table, the Specify the Set the star Set the end connected	S Relay, the fective. Lease Time 1440 unit of Leas e name of the rt IP address IP address of to LAN port	Netmask 255.255.255.0 e time is Minu e lease table of the lease tab of the lease tab	Die. Click the A Gateway 192.168.10.1 Ite.	DNS 192.168.10.1 k device
Lease Tabl	e Name NS Relay ease Tal start 1 192.168. he DHCP Table N Start IP End IP	lan V ble 10.1 Lease	End IP Select DNS become eff End IP 192.168.10.30 Table, the Specify the Set the star connected IP by DHC	S Relay, the fective. Lease Time 1440 unit of Leas e name of the t IP address of to LAN port CP.	Netmask 255.255.255.0 e time is Minu e lease table of the lease tab of the lease tal will get IP ad	Gateway 192.158.10.1 ite. ble ble, the networ	DNS 192.168.10.1 k device
Lease Tabl	e Name NS Relay ease Tal start 1 192.168. ne DHCP Table N Start IP End IP End IP	lan V ble 10.1 Lease	End IP 192.168.10.30 End IP 192.168.10.30 E Table, the Specify the Set the star Set the end connected IP by DHC Set the Net	S Relay, the fective. Lease Time 1440 unit of Leas e name of the rt IP address to LAN port CP. tmask of the	Netmask 255.255.255.0 e time is Minu e lease table of the lease tab of the lease tab will get IP ad lease table	Gateway 192.158.10.1 ite. ble ble, the networ	DNS 192.168.10.1 k device
Lease Tabl	e Name NS Relay ease Tal start 1 192.168. De DHCP Table N Start IP End IP End IP Netmask Gateway	lan V Die 10.1 Lease ame	End IP Select DNS become eff 192.168.10.30 Table, the Specify the Set the star Set the end connected IP by DHC Set the Net	S Relay, the fective. Lease Time 1440 unit of Leas e name of the t IP address IP address to LAN port CP. tmask of the teway of the	Netmask 255.255.255.0 e time is Minu e lease table of the lease tab of the lease tab will get IP ad lease table lease table	Gateway 192.158.10.1 ite. ble ble, the networ	DNS 192.168.10.1 k device
DHCP Lo DHCP Lo Name Ian Shows th Lease	e Name NS Relay ease Tal start 1 192.168. ne DHCP Table N Start IP End IP End IP	lan V Die 10.1 Lease ame	End IP 192.168.10.30 End IP 192.168.10.30 E Table, the Specify the Set the star Set the star Set the end connected IP by DHC Set the Net Set the Gar Set the Lea	S Relay, the fective. Lease Time 1440 unit of Leas e name of the t IP address to LAN port 2P. timask of the teway of the ase Time of t	Netmask 255.255.255.0 e time is Minu e lease table of the lease tab of the lease tab will get IP ad lease table	Gateway 192.168.10.1 Ite. ble ble, the networ dress between	DNS 192.168.10.1 k device
Lease Tabl	e Name NS Relay ease Tal start 1 192.168. De DHCP Table N Start IP End IP End IP End IP Netmask Gateway case Time DNS	Ian V ble Inp Lease ame	End IP 192.168.10.30 End IP 192.168.10.30 E Table, the Specify the Set the star Set the star Set the end connected IP by DHC Set the Net Set the Gar Set the Lea	S Relay, the fective. Lease Time 1440 unit of Leas e name of the t IP address to LAN port CP. tmask of the teway of the ase Time of t ault DNS set	Netmask 255.255.255.0 e time is Minu e lease table of the lease tab of the lease tab will get IP ad lease table lease table he lease table	Gateway 192.168.10.1 Ite. ble ble, the networ dress between	DNS 192.168.10.1 k device
DHCP Lo Name lan Shows th Lease	e Name NS Relay ease Tal start 1 192.168. De DHCP Table N Start IP End IP End IP End IP Netmask Gateway case Time DNS	Ian V Die IP IO.1 Lease ame	Image: Select DNS become eff become eff End IP 192.168.10.30 e Table, the Specify the Set the star Set the def	S Relay, the fective. Lease Time 1440 unit of Leas e name of the t IP address to LAN port CP. tmask of the teway of the ase Time of t ault DNS set	Netmask 255.255.255.0 e time is Minu e lease table of the lease tab of the lease tab will get IP ad lease table lease table he lease table	Gateway 192.168.10.1 Ite. ble ble, the networ dress between	DNS 192.168.10.1 k device
DHCP Lo Name lan Shows th Lease	e Name NS Relay ease Tal start1 192.168. ne DHCP Table N Start IP End IP End IP Netmask Sateway case Time DNS e Add bur Lease Table	Ian V Die IP IO.1 Lease ame	End IP 192.158.10.30 End IP 192.158.10.30 E Table, the Specify the Set the star Set the star Set the end connected IP by DHC Set the Net Set the Car Set the Lea Set the def o submit and a	S Relay, the fective. Lease Time 1440 unit of Leas e name of the t IP address to LAN port CP. tmask of the teway of the ase Time of t ault DNS set	Netmask 255.255.255.0 e time is Minu e lease table of the lease tab of the lease tab will get IP ad lease table lease table he lease table	Gateway 192.168.10.1 Ite. ble ble, the networ dress between	DNS 192.168.10.1 k device
Lease Tabl	e Name NS Relay ease Tal start 1 192.168. Table N E Table N Start IP End IP Netmask Gateway ease Time DNS e Add bur Lease Table DNS	Ian V Die IDIE IDII ILEASE Ame	End IP 192.168.10.30 End IP 192.168.10.30 E Table, the Set the star Set the star Set the end connected IP by DHC Set the Net Set the Gar Set the Lea Set the def o submit and a	S Relay, the fective. Lease Time 1440 unit of Lease name of the to LAN port P. trask of the teway of the ault DNS set dd this lease	Netmask 255.255.255.0 e time is Minu e lease table of the lease tab of the lease tab will get IP ad lease table lease table he lease table he lease table ver IP of the l	Gateway 192.168.10.1 Ite. ble ble, the networ dress between lease table	DNS 192.168.10.1 k device Start IP and I

2) If you modifies the DHCP lease table, you need save the configuration and reboot.

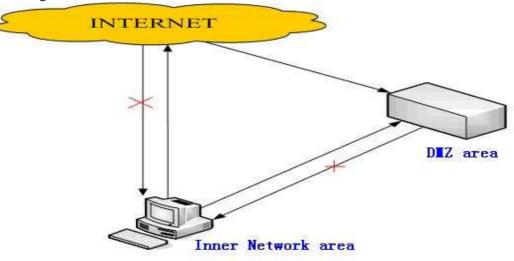
4.2.4.2. NAT Configuration

NAT is abbreviated from Net Address Translation; it's a protocol responsible for IP address translation. In other word, it is responsible for transforming IP and port of private network to public, also is the IP address mapping which we usually say.



DMZ config:

In order to make some intranet equipments support better service for extranet, and make internal network security more effectively, these equipments open to extranet need be separated from the other equipments not open to extranet by the corresponding isolation method according to different demands. We can provide the different security level protection in terms of the different resources by building a DMZ region which can provide the network level protection for the equipments environment, reduce the risk which is caused by providing service to distrust customer, and is the best position to put public information The following chart describes the network access control of DMZ



	NAT Configu	ration
ALG Select		
IPSec ALG	FTP ALG 🗹	PPTP ALG 🗹
	Apply	
NAT TCP Talbe		
Inside IP	Inside TCP Port	Outside TCP Port
NAT UDP Table		
Inside IP	Inside UDP Port	Outside UDP Port
Add/Delete table		
Transfer Type TCP 💌	Inside IP	Add
Inside Port	Outside Port	Delete
DMZ Table		
Outside IP	Inside 1	(p
Outside IP	Inside IP	Add
Outside IP		Delete
	NAT Configu	ration
IPSec ALG	It is an encryption techno	logy. Select it to enable IPSec ALG, the
	default is enable	ction layer which can transform intranet I
FTP ALG		anet IP is sending out packet.
	Select it to enable FTP A	
PPTP ALG	Select it enable PPTP AL	G, the default is enable
NAT TCP Talbe		
Inside IP Shows the NAT TCP ma	Inside TCP Port	Outside TCP Port
NAT UDP Table	the owner of the second	la companya de
Inside IP Shows the NAT UDP ma	Inside UDP Port	Outside UDP Port
Shows the NAT ODP that		
Add/Delete table		
Transfer Type TCP 👻	Inside IP	Add
Inside Port	Outside Port	Delete
Transfer Type Inside IP		protocol style, TCP or UDP ce which is connected to LAN interface to
	do NAT mapping.	
Inside Port	Set the LAN port of the N	
Outside Port Notice: After finish setting	Set the WAN port of the l ng, click the Add button to	add new mapping table; click the Delete
button to delete the selec	ted mapping table.	

DMZ Table						
Outside IP			Inside IP			
192.168.1.119				192.168.1	0.23	
Shows the outsi	ide WAN	I port IP addr	ress and t	he inside	LAN port IP ad	ldress.
Outside IP			Inside IP	I.		Add
Outside IP					- X.	Delete
Outside	IP Set the outside Wan port IP address of DMZ.				, 	
Inside IP Set the inside LAN			ide LAN	pot IP ad	dress of DMZ	
Click the Add b	outton to	add new tabl	le; click tl	he Delete	button to delete	e the selected mappin
table.						

4.2.4.3. Net Service

Net Service

Port Setting					
HTTP Port	80	Telnet Port	23		
RTP Initial Port	10000	RTP Port Quantity	200		

Apply

DHCP Leased Table

Net Service web browse port, the default is 80 port, if you want to enhanc tem safety, you'd better change it into non-80 standard port; ample: P address is 192.168.1.70. and the port value is 8090, the
tem safety, you'd better change it into non-80 standard port; imple: e IP address is 192.168.1.70. and the port value is 8090, the
ample: IP address is 192.168.1.70. and the port value is 8090, the
e IP address is 192.168.1.70. and the port value is 8090, the
L
essing address is http://192.168.1.70:8090
Telnet Port, the default is 23. You can change the value into
ers.
ample:
e IP address is 192.168.1.70. the telnet port value is 8023, the
essing address is telnet 192.168.1.70 8023
the RTP Initial Port. It is dynamic allocation.
the maximum quantity of RTP Port, the default is 200.
MAC mapping table. If the LAN port of the phone connects to
ice, this table will show the IP and MAC address of this device
ration and reboot the phone after set this page.
Felnet and HTTP, you would better set the value more than 102
in 1024 is system port reserved.

3) if you set 0 for the HTTP port, it will disable HTTP service.

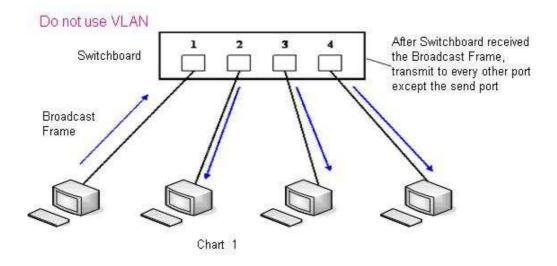
4.2.4.4. Firewall Config

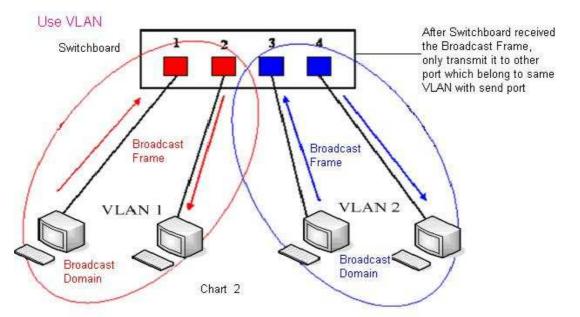
Firewall Configuration								
Firewall Type								
🗌 In_access Enable			Out_ac	cess Er	nable			
			Apply					
2								
Firewall Input R	ule Tabl	e						
Index Deny/Permit	Protocol	Src Addr	Src Mask	De	es Addr	Des Mask	Range	Port
Firewall Output	Rule Ta	ble						
Index Deny/Permit	Protocol	Src Addr	Src Mask	De	s Addr	Des Mask	Range	Port
							1	1.1.1.1.1.1.1
Firewall Rule Ini	t							
Input/Output	Input	v	Deny/Permit		Deny N			
Protocol Type	UDP 🗸		Port Range		more tha	n 🖌	-	
Src Addr		8	Des Addr		-			dd
Src Mask			Des Mask					
Input/Output	Input		Index To Be De)n			elete
In this web inter	face, you		0			l Internet us	sers from	n
accessing private r						t unauthorize	ed	
private network						1 5	1 /	
Firewall support supports at most			t_access rule a	nd ou	itput_acc	ess rule. Ea	ch type	
Through this wel			n and enable/d	isable	firewall	with input/	output i	rules
System could pre								
Firewall, is also	called ac	cess list, is a si	imple impleme	entatio	on of a C	isco-like ac	cess list	t
(firewall). It supp					t packets	, and the ot	her for	filterii
output packets. E We will give you				ms.				
In_access Enable		ince for your re		ecc Ena	hle			3
Input/Output	Input	~	Deny/Permit	10	Deny 🗙		9	-
Protocol Type	UDP V	7	Port Range		more than	v	_	
Src Addr			Des Addr	Г			Add	
Src Mask	-		Des Mask	I I				
In_access en	able	Select it to En	able in_ access r	ule				
Out access en			able out access					
Input/Outp		Specify curre	ent adding rule	by se				
Deny/Pern		Specify curre	ent adding rule	by se	lecting I	Deny rule or	Permit	
Protocol Ty	•	Filter protocol	type. You can s					
Port Rang	e	Set the filter P						
Src Addr			ress. It can be since $0,0,0,0$ or particular	-				
		complete addre	ess 0.0.0.0, or ne	twork	address s	$10011ar$ to $^{*}.^{*}$.**.0	

	Des Addr		Set the destinat					
				ess 0.0.0.0, or n				
Src Mask			Set the source address' mask. For example, 255.255.255.255 means just point to one host; 255.255.255.0 means point to a network					
	SIC Mask					eans point to	a netwo	ork
			which network ID is C type.Set the destination address' mask. For example, 255.255.255.255					
	Des Mask		means just point to one host; 255.255.255.0 means point to a					a
			network whic		~ ~ ~			
Click	the Add bu	tton if yo	ou want to add	a new output	rule.			
Firew	all Output	Rule Ta	ole					
Index	Deny/Permit	Protocol	Src Addr	Src Mask	Des Addr	Des Mask	Range	Port
0	deny	ICMP	192.168.10.77	255.255.255.255	192.168.10.88	255.255.255.255	more than	0
Then	enable out_	access, a	nd click the A	pply button.			<u></u>	
So wh	nen devices	connect	to LAN execu	te to ping 192	.168.10.88, s	ystem will d	eny the	reques
to sen	d icmp requ	est to 19	2.168.10.88 fo	or the out_acc	ess rule. But	if devices pi	ng othe	r devic
which	which network ID is 192.168.10.0, it will be normal.							
Firewall Rule Delete								
Input/	Output	Input		Index To Be De	leted		De	lete
Click								

4.2.4.5. QoS Config

The VoIP phone support 802.1Q/P protocol and DiffServ configuration. VLAN functionality can use different VLAN IDs by setting signal/voice VLAN and data VLAN. The VLAN application of this phone is very flexible.





In chart 1, there is a layer 2 switch without setting VLAN. Any broadcast frame will be transmitted to the other ports except the send port. For example, broadcast information is sent out from port 1 then transmitted to port 2, 3 and 4.

In chart 2, red and blue indicate two different VLANs in the switch, and port 1 and port 2 belong to red VLAN, port 3 and port 4 belong to blue VLAN. If a broadcast frame is sent out from port 1, switch will transmit it to port 2, the other port in the red VLAN and not transmit it to port3 and port 4 in blue VLAN. By this means, VLAN divide the broadcast domain via restricting the range of broadcast frame transmission. Note: chart 2 use red and blue to identify the different VLAN, but in practice, VLAN uses different VLAN IDs to identify.

		QoS C	onfiguration		
QOS					
		[] VLAN Enable		
VLAN ID Check Enabl	le		Voice/Data VLAN differentiated	Undiffe	erentiated 💌
DiffServ Enable			DiffServ Value	0x b8	
Voice 802.1P Priority	0	(0 - 7)	Data 802.1P Priority	0	(0 - 7)
Voice VLAN ID	256	(0 - 4095)	Data VLAN ID	254	(0 - 4095)
			Apply		
1		QoS	Configuration		/*/
VLAN Enable		Before select i Lan config	it to enable VLAN, you need	l enabl	e Bridge mode in
VLAN ID Check Enable Check, if VLA		ID check by selecting it. A N ID of a packet is not the s have VLAN ID, the packet	same w	ith the phone's or	
packet do not have VLAN ID, the packet will be discarded.After enable VLAN, system will set packets with different type of VLAN ID. Undifferentiated means after using VLAN, both voip packets and other data packets will use the voice VLAN ID; tag differentiated means after using VLAN, voip(signal and voice) packets will add voice VLAN ID, and other data packets will add data VLAN ID; data untagged means after using VLAN, only vo					a different type of LAN, both voip VLAN ID; tag nal and voice) packets will add

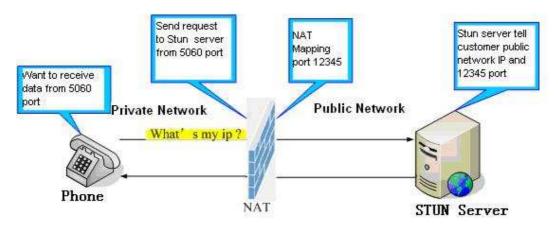
	packets will add voice VLAN ID. Other data packets will not use
	VLAN
DiffServ Enable	Select it or not to Enable or disable DiffServ.
DiffServ Value	Set DiffServ value, the common value is 0x00. 0xb8, which is the highest priority
Voice 802.1P Priority	Specify 802.1P Priority of voice/signal data packet.
Data 802.1P Priority	Set 802.1p of data VLAN. Non-VoIP data(such as http ,telnet ,ping etc) will use this value to set VLAN patcket.
Voice VLAN ID	Set VLAN ID of voice/signal data packet
Data VLAN ID	Set 802.1q of data VLAN ID. Non-VoIP data(such as http ,telnet ,ping etc) will use this value to set VLAN patcket.
Notice:	
1. If you don't enable different even if select tag different different even if select tag different even even if select tag different even if select tag different even even even even even even even e	fServ, phone will not set voice/data packets with different VLAN ID rentitted.
Diffserv. If you enable	system will not add VLAN ID to all packets, regardless of Data/Voice diffserv, system will just set the diffserv value to voice/signal packets. le is on by default. It means system will check VLAN ID strictly; if

packets' VLAN ID are not same as value system using or has no VLAN, packets will be lost; if it is off, system might accept packets which VLAN ID are not same as value system using or has no VLAN.

4.2.4.6. Advance SIP Configuration

In this web page, you can config SIP STUN, Private Server and so on. STUN:

By STUN server, a phone in private network could know the type of NAT and the NAT mapping IP and port of SIP. The phone might register itself to SIP server with global IP and port to realize the device both calling and being called in private network.



Advance SIP Configuration

Public Sip Status	Registered	Private Sip Status	Unregi	stered
Private Register		Private Proxy		
Register Port	5060	Proxy Port		
Register Username		Proxy Username	1	
Register Password		Proxy Password		
Expire Time	60 Seconds	STUN NAT Transverse	FALSE	
Private User Agent	Voip Phone 1.0	STUN Server Addr	1	
Private Domain	J	STUN Server Port	3478	
Private Number		STUN Effect Time	50	Seconds
Private Server Type	common 🕑	Subscribe Expire Time	300	seconds
Forward Type	Off 🔽	Forward Phone Number	ſ	
Private Conference Num		Enable SIP Stun		
Enable Private Confer Num		Enable KeepAuthentication		
Enable PRACK		Rtp Encrypt		
NAT Keep Alive		Enable Session Timer		
Enable Via rport		Enable Subscribe		
Signal Encrypt		Answer With Single Codec		
Enable URI Convert		Enable Private Register		

	Advance SIP Configuration
Public Sip Status	shows that the phone registered or unregistered Public Server
Private Sip Status	shows that the phone registered or unregistered Private Server
Private Register	Private Proxy
Register Port	5060 Proxy Port
Register Username	Proxy Username
Register Password	Proxy Password
Set Private Server para	ameters:
Expire Time	Set the expired time for registering the Private Server.
STUN NAT Transver STUN Server Addr STUN Server Port STUN Effect Time	penetrate NAT, while False means not. Set your SIP STUN Server IP address Set your SIP STUN Server Port Set STUN Effective Time. If NAT server finds that a NAT mappi
Subscribe Expire Tin	Set the interval time of sending SUBCRIBE message, like register
Enable SIP STUN	Enable/Disable SIP STUN.
Enable Keep Authentication	Enable/Disable Keep Authentication System will take the last authentication field which is passed the authentication by server to the request packet. It will decrease the server's repeat authorization work, if it is enable.
Enable PRACK	Enable/Disable PRACK.
NAT Keep Alive	Enable/Disable keep NAT of SIP alive.

Enable Via Iport way to realize SIP NAT. Signal Encrypt Enable/Disable Signal Encrypt. Enable Private Register Enable/Disable Private Server Register. Rtp Encrypt Enable/Disable Rtp Encrypt. Enable Session Timer Set Enable/Disable Session Timer, whether support RFC4028. Enable Subscribe Enable/Disable sending SUBSCRIBE messages to subscribe oth phones' status or voice mail after being registered.		If some server refuse to register with too short interval time, and
interval time less than the NAT server's.Enable Via rportEnable/Disable system to support RFC3581. Via rport is special way to realize SIP NAT.Signal EncryptEnable/Disable Signal Encrypt.Enable Private RegisterEnable/Disable Private Server Register.Rtp EncryptEnable/Disable Rtp Encrypt.Enable Session TimerSet Enable/Disable Session Timer, whether support RFC4028.Enable SubscribeEnable/Disable sending SUBSCRIBE messages to subscribe oth phones' status or voice mail after being registered.Answer With SingleEnable/Disable the function when call is incoming, phone replie		
Enable Via rportEnable/Disable system to support RFC3581. Via rport is special way to realize SIP NAT.Signal EncryptEnable/Disable Signal Encrypt.Enable Private RegisterEnable/Disable Private Server Register.Rtp EncryptEnable/Disable Rtp Encrypt.Enable Session TimerSet Enable/Disable Session Timer, whether support RFC4028.Enable SubscribeEnable/Disable sending SUBSCRIBE messages to subscribe oth phones' status or voice mail after being registered.Answer With SingleEnable/Disable the function when call is incoming, phone replie		alive, user could set this function ON. It need set the keep alive
Enable Via Iport way to realize SIP NAT. Signal Encrypt Enable/Disable Signal Encrypt. Enable Private Register Enable/Disable Private Server Register. Rtp Encrypt Enable/Disable Rtp Encrypt. Enable Session Timer Set Enable/Disable Session Timer, whether support RFC4028. Enable Subscribe Enable/Disable sending SUBSCRIBE messages to subscribe oth phones' status or voice mail after being registered. Answer With Single Enable/Disable the function when call is incoming, phone replie		interval time less than the NAT server's.
way to realize SIP NAT. Signal Encrypt Enable/Disable Signal Encrypt. Enable Private Register Enable/Disable Private Server Register. Rtp Encrypt Enable/Disable Rtp Encrypt. Enable Session Timer Set Enable/Disable Session Timer, whether support RFC4028. Enable Subscribe Enable/Disable sending SUBSCRIBE messages to subscribe oth phones' status or voice mail after being registered. Answer With Single Enable/Disable the function when call is incoming, phone replie	Enable Via rport	Enable/Disable system to support RFC3581. Via rport is special
Enable Private RegisterEnable/Disable Private Server Register.Rtp EncryptEnable/Disable Rtp Encrypt.Enable Session TimerSet Enable/Disable Session Timer, whether support RFC4028.Enable SubscribeEnable/Disable sending SUBSCRIBE messages to subscribe oth phones' status or voice mail after being registered.Answer With SingleEnable/Disable the function when call is incoming, phone replie	*	way to realize SIP NAT.
Rtp EncryptEnable/Disable Rtp Encrypt.Enable Session TimerSet Enable/Disable Session Timer, whether support RFC4028.Enable SubscribeEnable/Disable sending SUBSCRIBE messages to subscribe oth phones' status or voice mail after being registered.Answer With SingleEnable/Disable the function when call is incoming, phone replie		
Enable Session TimerSet Enable/Disable Session Timer, whether support RFC4028.Enable SubscribeEnable/Disable sending SUBSCRIBE messages to subscribe oth phones' status or voice mail after being registered.Answer With SingleEnable/Disable the function when call is incoming, phone replie	Enable Private Register	e
Enable SubscribeEnable/Disable sending SUBSCRIBE messages to subscribe oth phones' status or voice mail after being registered.Answer With SingleEnable/Disable the function when call is incoming, phone replie	Rtp Encrypt	Enable/Disable Rtp Encrypt.
Enable Subscribephones' status or voice mail after being registered.Answer With SingleEnable/Disable the function when call is incoming, phone replie	Enable Session Timer	Set Enable/Disable Session Timer, whether support RFC4028.
Answer With SingleEnable/Disable the function when call is incoming, phone replie	Enable Subscribe	Enable/Disable sending SUBSCRIBE messages to subscribe other
\mathcal{O}		phones' status or voice mail after being registered.
Codec SIP message with just one codec which phone supports.	Answer With Single	Enable/Disable the function when call is incoming, phone replies
	Codec	SIP message with just one codec which phone supports.
Enable URI Convert Enable/Disable the function when phone sends SIP request, usin	Enable URI Convert	Enable/Disable the function when phone sends SIP request, using
23 instead of "#" character in SIP URI.		
Notice: SIP STUN is used to realize SIP penetration to NAT. If your phone configures STU Server IP and Port (default is 3478), and enable SIP Stun, you can use the ordinary SIP Ser		d to realize SIP penetration to NAT. If your phone configures STU

to realize penetration to NAT.

4.2.4.7. Digital Map Configuration

This system supports 4 dial modes:

1). End with "#": dial your desired number, and then press #.

2). Fixed Length: the phone will intersect the number according to your specified length.

3). Time Out: After you stop dialing and waiting time out, system will send the number collected.

4). User defined: you can customize digital map rules to make dialing more flexible. It is realized by defining the prefix of phone number and number length of dialing.

	Digital Map Configuration
Digital Map Setting	
End With "#"	
FixedLength	11
☑ Time Out	5 (3-30)
	Apply
Digital Map Table	
RULE	
	Add
	Delete
	Digital Map Configuration
End with "#"	Set Enable/Disable the phone ended with "#" dial.
Fixed Length	Specify the Fixed Length of phone ending with .
Time out	Set the timeout of the last dial digit. The call will be sent after timeout.
Digital Map Table	
RULE	
	Add Delete
Below is user-defined	
	t will match digit. May be a range, a list of ranges separated by comma
or a list of digits.	e win match albre thug be a range, a not of ranges separated by comm

x Match any single digit that is dialed.

Match any arbitrary number of digits including none.

Tn Indicates an additional time out period before digits are sent of n seconds in length. n is mandatory and can have a value of 0 to 9 seconds. Tn must be the last 2 characters of a dial plan. If Tn is not specified it is assumed to be T0 by default on all dial plans.

RULE

"[1-8]xxx" "9xxxxxxx"

"911"

"99T4"

"9911x.T4"

Cause extensions 1000-8999 to be dialed immediately

Cause 8 digit numbers started with 9 to be dialed immediately

Cause 911 to be dialed immediately after it is entered.

Cause 99 to be dialed after 4 seconds.

Cause any number started with 9911 to be dialed 4 seconds after dialing ceases.

Notice: End with "#", Fixed Length, Time out and Digital Map Table can be used

simultaneously, System will stop dialing and send number according to your set rules.

4.2.4.8. Call Service

In this web page, you can configure Hotline, Call Transfer, Call Waiting, 3 Ways Call, Black List, Limit List and So on

Hot Line	1		
Call Forward	Į.		
No Disturb		Ban Outgoing	
Enable Call Transfer		Enable Call Waiting	
Enable Three Way Call		Accept Any Call	
Auto Answer		Enable Voice Record	
User-Defined Voice		Incoming Record Playing	
No Answer Time	20 (seconds)	P2P IP Prefix	
Use Record Server		Remote Record No.	
		Apply	
Black List			
	Add		Delete

	Call Service
Hotline	Specify Hotline number. If you set the number, you can not dial any
	other numbers.
No Disturb	Select NO Disturb, the phone will reject any incoming call, the callers will be reminded by unavailable, but any outgoing call from
	the phone will work well.
Ban Outgoing	If you select Ban Outgoing to enable it, and you can not dial out
	any number.

Enable Call Transfer	Enable Call Transfer by selecting it.
Call transfer has several v	
1. When A talks to B, B to C (or B hear alert frough to C.	may press the HOLD key and dial to C phone number. After B talks om C), B presses the TRANSFER key; B could hang up, and A will
and talks to C, pressin 3. When A talks to B, B	here is C call incoming to B; B may press the HOLD key to hold A, ing the TRANSFER key, so A will get through to C. In presses the TRANSFER key, dial C phone number and # key, B will get through to C.
1 and 2 are attended trans Notice to VoIP Phone Ca transferring can not work	rrier: Your VoIP phone server need support FRC3515, or else
Enable Call Waiting	Enable Call Waiting by selecting it.
Enable Three Way Call	Enable Three Way Call by selecting it.
	inched the three way call hangs up, the other two parties can not get y who did not launch the three way call hangs up, the other two partie
Accept Any Call	If select it, the phone will accept the call even if the called number is not belong to the phone.
Auto Answer	If select it, the phone will auto answer when there is an incoming call.
Enable Voice Record	If select Enable Voice Record, when no answer time of an incoming call is beyond its set value, the phone will remind the caller to record.
User-Defined Voice	Select it or not to Enable or disable User Defined Voice
Incoming Record Playing	Select it or not to Enable or disable Incoming Record Playing
No Answer Time	Specify No Answer Time
P2P IP Prefix	Set Prefix in peer to peer IP call. For example: what you want to dial is 192.168.1.119, If you define P2P IP Prefix as 192.168.1., you dial only #119 to reach 192.168.1.119. Default is ".".if there is no "." Set, it means to disable dialing IP.
Use Record Server	Select it or not to Enable or disable Use Record Server.
Remote Record No	Set Remote Record number. Via dialing this number, you can listen all voice records in your VoIP server.
Black List	Set Add/Delete Black list. If user does not want to answer some phone calls, add these phone numbers to the Black List, and these calls will be rejected.
Limit List	Set Add/Delete Limit List. Please input the prefix of those phone numbers which you forbid the phone to dial out. For example, if you want to forbid those phones of 001 as prefix to be dialed out, you need input 001 in the blank of limit list, then you can not dial
	out any phone number whose prefix is 001. mit List can record at most10 items respectively.

4.2.4.9. MMI Filter

	MMI Fi	iter	
Filter Enable			
	MMI Filter		
	Apply		
Filter Table			
Start IP	End	IP	
Start IP	1		Add
End IP			
Start IP to be deleted			Delete
	MMI Fi	lter	
User could make some manage phone.	e devices own IPs, which a	re pre-specified, a	access to phone to config a
MMI Filter	Select it or not to enab make it effective.	le or disable MM	II Filter. Click Apply to
Filter Table			
Start IP	End I	P	
MMI Fileter IPs Table			
Start IP			Add
End IP			Maa
Start IP to be deleted			Delete

Add or delete the IP address segments that access to phone.

Set initial IP address in the Start IP column, Set end IP address in the End IP column, and click Add to add this IP segment. You can also click Delete to delete the selected IP segment.

4.2.4.10. DSP Config

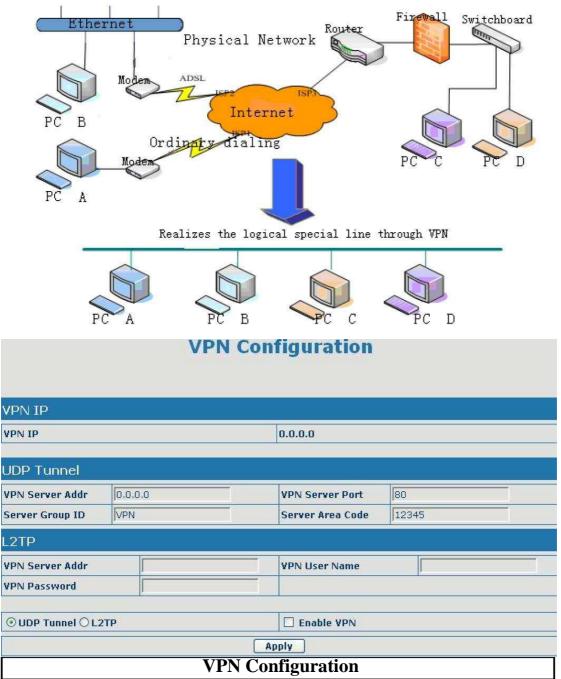
In this page, you can configure voice codes input/output volume and so on.

Coding Rule	g711Ulaw64k 🌱	Input Volume	3	(1-9)
Signal Standard	' China 💌	Output Volume	7	(1-9)
ling Type	Type 1 😽	Handfree Volume	4	(1-9)
landdown Time	200 ms	Ring Volume	5	(1-9)
G729 Payload Length	20 🛩 ms	DTMF Payload Type	101	_
AD 🗌		20-		
	[Apply		
		onfiguration		
Coding Rule	Select DSP voice	e		
County Rule		HC) Volume grade.		
Input Volume				

Ring Type	Select Ring Type
Handfree Volume	Specify Handfree Volume grade
Handdown Time	Specify the least reflection time of Handdown, the default value is 200ms.
Ring Volume	Specify Ring Volume grade
G729 Payload Length	Set G729 Payload Length
DTMF Payload Type	Set DTMF Payload Type
VAD	Select it or not to enable or disable VAD. If enable VAD, G729 Payload length could not be set over 20ms.

4.2.4.11. VPN Config

This web page provides us a safe connect mode by which we can make remote access to enterprise inner network from public network. That is to say, you can set it to connect public networks in different areas into inner network via a special tunnel.



VPN IP		Shows the c	urrent VPN IP address		
UDP Tunnel					
VPN Server Addr	0.0.0.0		VPN Server Port	80	
Server Group ID	VPN		Server Area Code	12345	
VPN Server A	ddr	Set VPN Sei	rver IP Address	·	
VPN Server P	ort	Set VPN Sei	rver Port		
L2TP					
VPN Server Addr			VPN User Name	j.	
VPN Password					
VPN Server Ad	dr	Set VPN L2	TP Server IP address		
VPN User Na	me	Set User Na	me access to VPN L2T	P Server	
VPN Passwor	rd	Set Passwore	d access to VPN L2TP	Server	
100 00		unnel 🔿 L2T			
Select UDP Tunne	el (VPN	V Tunnel) or V	PN L2TP. You can cho	pose only one f	or current state.
After you select it.	, you'd	better save co	onifguration and reboot	your phone.	
Enable VPN	1	Select it or n	not to enable or disable	VPN;	

4.2.5. Dial-Peer Setting

This functionality offers you more flexible dial rule, you can refer to the following content to know how to use this dial rule. When you want to dial an IP address, the entry of IP addresses is very cumbersome, but by this functionality, you can set number 156 to replace 192.168.1.119 here.

Number	Call Mode	Destination	Port	Alias	Suffix	Del Length
156	sip	192.168.1.119	5060	no alias	no suffix	0

When you want to dial a long distance call to Beijing, you need dial an area code 010 before local phone number, but you can also dial number 9 instead of 010 after we make a setting according to this dial rule. For example, you want to dial 01062213123, but you need dial only 962213123 to realize your long distance call after you make this setting.

Number	Call Mode	Destination	Port	Alias	Suffix	Del Length
9T	sip	0.0.0.0	5060	rep:010	no suffix	1

The phone supports two SIP lines and one IAX2 line. After you make a configuration according to this dial rule, you can realize dialing out via different lines without switch in web interface.

Dial-Peer

Dial-Peer Table							
Number	Call Mode	Destination	Port	Alias	Suffix	Del Length	
9T	sip	0.0.0	5060	del	no suffix	1	
8T	sip	255.255.255.255	5060	del	no suffix	1	
156	sip	192.168.1.119	5060	no alias	no suffix	0	

Dial-Peer Option		
9T 💌	Delete Modify	
ADD Dial-Peer		
	Add	

		Dial-Peer]	
		There are two types of mate the other is prefix matching your desired phone number	g. In the F	full mate lank, and	hing, you l then you	need input 1 need dial th	
Pho	one number	phone number to realize calling to what the phone number is mapped. In the prefix matching, you need input your desired prefix number and T; then dial the prefix and a phone number to realize calling to what your prefix number is mapped. The prefix number supports at most 30 digits					
С	all Mode	Select SIP or IAX2 protoco	ol				
	estination	Set Destination address / pl item. If you want to set pee address or domain name. If line, you need input 255.25	none num r to peer you wan	call, plea t to use t	ase input o this dial ru	destination I	
	Port	Set the Signal port, the defa					
	Alias	Set alias. This is optional coshow no alias.				Alias, it will	
dialing n 2) all: xx 3) del: It 4) rep: It You can	umber length. x, it means that x means that phone means that phone	you need dial xxx in front o xxx will replace some phone e will delete the number with e will replace the number with wing examples of different a fial rule	number. h length a ith length	appointed and num	d. nber appo	inted.	
different	allases and this c		onfigitor	n It will	ahow no	auffin if von	
	Suffix	Set suffix, this is optional c don't set it. Set delete length. This is op	-			-	
Del	ete Length	delete length is 3, the phone out the rest digits. You can application to know how to	e will del refer to e	ete the fi examples	rst 3 digits of differe	ts then send	
Introduct	tion of how to set	up dial-peer to implement s				ines	
Number	Call Mode	Destination	Port	Alias	Suffix	Del Length	
9T	sip	0.0.0	5060	del	no suffix	1	
8T	sip		5060		no suffix		
table, al dialing d 8T mapp above tal front of c	Il calls will be ser estination phone ing: If you have r ble, all calls will	registered a Private SIP serv l be sent via private server w n phone numbers.	u press th er and set	e numer t dial-pee	ic key "9' er accordi	' in front of ng to the	
Destin (opt: Port(opt: Alias(opt: Suffix(opt: Delete D	ional) del	Destinction Alice and	I Delete I KT, Desti ad Alias is arts with I be sent at several number a	nation s del. I your t via r digits re		l "93333", erver will 333"	

Phone Number 2 Destination (optional) Fort(optional) Alias(optional) all:33334444 Suffix(optional) Delete Length (optional)	You need set Phone number and Alias. Phone number is XXX and Alias is all:xxx This setting will realize speed dial or memory key functionality.	When you dial "2", the SIP1 server will receive 33334444
Phone Number 8T Destination (optional) Port(optional) Alias(optional) add:0755 Suffix(optional) Delete Length (optional)	You need set Phone Number and Alias. Phone number is XXXT and Alias is add:xxx The phone will automatically send out alias number adding your dialed number, if your dialed number starts with your set phone number.	When you dial "8309", the SIP1 server will receive "07558309"
Phone Number 010T Destination (optional) Port(optional) Alias(optional) rep:8610 Suffix(optional) Delete Length (optional) 3	You need set Phone Number, Alias and Delete Length. Phone number is XXXT and Alias is Rep:xxx If your dialed phone number starts with your set phone number, the first digits same as your set phone number will be replaced by the alias number specified and New phone number will be send out.	When you dial "0106228", the SIP1 server will receive "86106228"
Phone Number 147 Destination (optional) Port(optional) Alias(optional) Suffix(optional) Delete Length (optional)	You need set Phone Number and suffix. Phone number is XXX and Suffix is xxx. If your dialed phone number starts with your set phone number. The phone will send out your dialed phone number adding suffix number.	When you dial "147", the SIP1 server will receive "1470011"

4.2.6. Config Manage

4.2.6.1. Save Config

In this web page, you can save all changes of configurations. Click the Save button, all changes of configuration will be saved, and be effective immediately. . **Notice:** If you don't make a save, some changes of configurations will be discarded after the phone is reset.

	Save Configuration	
Save All		
	Press the "Save" button to save the configuration files	
	Save	

4.2.6.2. Clear Config

	Clear Configuration	
Set Default		
	The device will reboot and use default configuration !	

If you login as Admin, the phone will reset all configurations and restore factory default; if you login as Guest, the phone will reset all configurations except for VoIP accounts (SIP, advance SIP and IAX2) and version number.

4.2.6.3. Backup Config

Right click on "Right click here..." and select "Save Target As...." then you will save the config file in .txt format



4.2.7. Update

You can update your configuration with your config file in this web page.

4.2.7.1. Web Update

Click the browse button, find out the config file saved before or provided by manufacturer, download it to IP Phone directly, press "Update" to save. You can also update downloaded update file, logo picture, ring, mmiset file by web.

	web update
Update Option	
Select file	(*.z or *.txt)
	The device will reboot when update finish! Update

4.2.7.2. FTP/TFTP Update

Update Configuration FTP Download Server Usemame Password **File name** Application update 😒 Туре Protocol FTP v apply **FTP/TFTP Update** Set the FTP/TFTP/HTTP server address for download/upload. The Server address can be IP address or Domain name with subdirectory. Username Set the FTP server Username for download/upload. Password Set the FTP server password for download/upload. Set the name of update file or config file. The default name is the File name MAC of the phone, such as 000102030405. Notice: You can modify the exported config file. And you can also download config file which includes several modules that need to be imported. For example, you can download a config file just keep with SIP module. After reboot, other modules of system still use previous setting and are not lost. Action type that system want to execute: 1. Application update: download system update file 2. Config file export: Upload the config file to FTP/TFTP server, Type name and save it. 3. Config fie import: Download the config file to phone from FTP/TFTP/HTTP server. The configuration will be effective after the phone is reset. Protocol Select FTP/TFTP/HTTP server

4.2.7.3. Auto Provisioning

Auto Provisioning

Current Version	2.0002		
Server Address	0.0.0		
Username	user		
Password			
Config File Name			
Config Encrypt Key	Γ		
Protocol Type	FTP 💉		
Update Interval Time	1	Hour	
Update Mode	Disable	×	

Auto Provisioning				
Current Version	show the current config file's version.			
Server Address	Set FTP/TFTP/HTTP server IP address for auto update.			
Username	Set FTP server Username. System will use anonymous if username keep blank.			
Password	Set FTP server Password.			
Config File Name	Set configuration file's name which need to update. System will use MAC as config file name if config file name keep blank. For example, 000102030405.			
Config Encrypt Key	Input the Encrypt Key, if the configuration file is encrypted.			
Protocol Type	Select the Protocol type FTP、TFTP or HTTP.			
Update Interval Time	Set update interval time, unit is hour.			
Update Mode	Different update modes: 1. Disable: means no update 2. Update after reboot: means update after reboot. 3. Update at time interval: means periodic update.			

4.2.8. System Manage

4.2.8.1. Account Config You can add or delete user account, and change the authority of each user account in this web page.

	Account	Configurat	ion
User Table			
User Name		User Level	9
admin		Root	
guest		General	
Add User			
User Name		User Level	Root 💌
Password		Confirm	
		Apply	
User Option			
admin 🛩	Modify [Delete	
		-11-	
Keyboard Password	Set		
Keyboard Password			<u>ي</u> .
		Apply	n de la companya de l Companya de la companya de la company Companya de la companya
	Account	t Configuration)n
User Name	Set account use	0	
User Level			right to modify configuration,
User Level	General can on	ly read.	
Password	Set the passwo	rd.	
Confirm	Confirm the pa	ssword.	
Select the account and delete the selected acc		o modify the selec	ted account, and click the Delete
Keyboard Passwor	<u> </u>	rd for entering the	setting menu of the phone by the lis digit.

4.2.8.2. Syslog Config

You can enable or disable the syslog function and config syslog server IP address & port via this page. Syslog is a protocol which is used to record the log messages with client/server mechanism. Syslog server receives the messages from clients, and classifies them based on priority and type. Then these messages will be written into log by some rules which administrator can configure. This is a better way for log management.

8 levels in debug information:

Level 0---emergency: This is highest default debug info level. You system can not work.

Level 1---alert: Your system has deadly problem.

Level 2---critical: Your system has serious problem.

Level 3---error: The error will affect your system working.

Level 4---warning: There are some potential dangers. But your system can work.

Level 5---notice: Your system works well in special condition, but you need to check its working environment and parameter.

Level 6---info: the daily debugging info.

Level 7---debug: the lowest debug info. Professional debugging info from R&D person.

Syslog Configuration						
Syslog Setting						
Server Address	0.0.0.0		Server Port	514		
MGR Log Level	None	~	SIP Log Level	None		
IAX2 Log Level	None	×	Enable Syslog			
			Apply			
		Sys	log Configuration			
Server Ad	dress		g server IP address.			
Server P	ort	Set Syslog	g server port.			
MGR Log	Level	Set the lev	vel of MGR log.			
SIP Log L	Level	Set the lev	vel of SIP log.			
IAX2 Log I	Level	Set the lev	vel of IAX2 log.			
Enable Sy	/slog	Select it o	r not to enable or disable	syslog.		

4.2.8.3. Phone Book

You can input the name, phone number and select ring type for each name here.

i ou can input t	ne name, phone nur	Phone Book	e for each name nere.	
Phonebook T	able			
Index	Name	e Number Type		
1	vicky	4111	Type 4	
1				
Add				
Name		Number	I	1
Ring Type	Default 🕙			
		Submit		
User Option				
vicky 💉	Delete	Modify		
		Phone Book		
Index	Name	Number	Туре	
1	vicky		Туре 4	
1			10 ³	
	ail of current phone			
Name Shows the name corresponding to the phone number.				
	Number Shows the phone number.			
Ring TypeShows the ring type of the incoming call.				
	" to change the sele	cted information and cli	ck the "Delete" to delete the	he selecte
record.		0.1 1 1 1 700	•	
Notice: the ma	aximum capability o	f the phonebook is 500	items	

4.2.8.4. Time Config Setting time zone and SNTP (Simple Network Time Protocol) server according to your location, you can also manually adjust date and time in this web page.

Time	Config	uration

SNTP Con	fig
Server	209.81.9.7
Time Zone	(GMT+08:00)Beijing,Chongqing,Hong Kong,Urumqi 🛛 🗸
Time Out	60 (seconds)
Daylight	
SNTP	

Manual Co	onfig			
Year				
Month				
Day				
Hour				
Minute	ļ.			
		Apply		
		Time Configuration		
Server		Set SNTP Server IP address.		
Time Zone		Select the Time zone according to your location.		
Time Out		Set the time out, the default is 60 seconds.		
Daylight		If your time zone supports daylight, you can select it.		
SNTP		Select the SNTP, and click Apply to make the SNTP Times effective.		
Year				
Month				
Day	1			
Hour				
Minute				

4.2.8.5. Logout & Reboot

Click **Logout**, and you will exit web page. If you want to enter it next time, you need input user name and password again. If you modified some configurations which need the phone's reboot to be effective, you need click the Reboot, then the phone will reboot immediately.

Notice: Before reboot, you need confirm that you have saved all configurations.

	Logout & Reboot System	
Logout		
	Press the "logout" button to logout the system ! Logout	
Reboot		
	Press the "reboot" button to reset the system ! Reboot	

4.3. Settings via phone's keyboard.

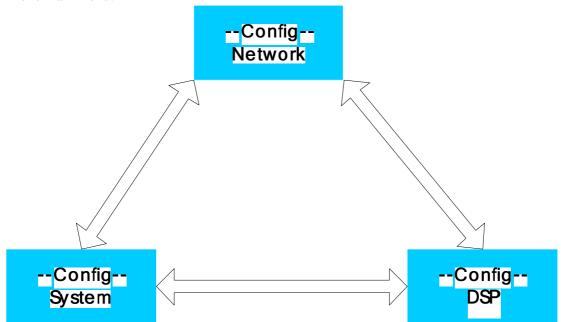
4.3.1. How to set via the phone's keyboard.

Press Menu, Up/Down, Enter and exit key to browse, select, and cancel

- Use the Up/Down key to browse the menu and submenu
- Use the ENTER key to enter into submenu and confirm your operation, the EXIT key can be used to back and cancel operation.

4.3.2. Phone menu

Phone main menu:



5. Appendix

5.1. Specification

5.1.1. Device specification

Item		this VoIP Phone			
Adapter(Input/Output)		Input: 100-240VAC 50~60Hz Output: 5V/1A			
Port		100Base- T RJ-45 for LAN			
1 011	LAN 10/1	00Base- T RJ-45 for PC			
Power C	onsumption	Idle: 1.5W/Active: 1.8W			
LCD size		3in. (74 x 28mm)			
Operation Temperature		0∼40°C			
Relative Humidity		10~65%			
Main Chipset		MIPS32(150M), DSP(100M)			
SDRAM		128Mbits			
Flash		16Mbits			
Size (W x H x D)		11.64843in.(2954205475mm)			
Weight		2.07lb.(0.94kg)			

5.1.2. Voice Features

- Support IAX2 and SIP 2.0 (RFC3261)
- Codec: G.711A/u, G.7231 high/low, G.729, G.722
- Echo cancellation: Support G.168 and hand-free can support 96ms
- Support VAD, CNG
- NAT transverse: support STUN
- SIP support SIP domain, SIP authentication (none, basic, MD5), DNS name of server, peer to peer
- SIP support Pubic & Private server, user can through each server to calling in and out

- DTMF: SIP info, DTMF Relay, RFC2833
- SIP application: contain SIP call forward/transfer/holding/waiting/3 way conference
- Call control features: Flexible dial map, support hotline, empty calling no. reject server, black list for reject authenticated call no disturb, caller ID
- support conference call and voice record
- Support English, Spanish and Czechish (optional)
- Could dial use private server automatically when public server unregistered while private server is resgistered successflly
- 8 special ring type
- 500 entry phonebook, Call records: 100 dialed, 100 received, 100 missed calls

5.1.3. Network Features

- WAN/LAN: support Bridge and Router mode.
- Support basic NAT and NAPT
- Support PPPoE for xDSL
- Support reconnecting automatically when PPPoE(adsl) is disconnected by ISP
- Support DHCP get IP on WAN port
- Support DHCP distribute IP on LAN port
- Support primary DNS server and secondary DNS server
- Support DNS relay, SNTP server, Firewall on WAN port
- support network tools: contain ping, trace route, telnet client
- support VLAN

5.1.4. Maintenance and Management

- Support Boot Monitor
- Can upgrade firmware through boot monitor
- access with different authority
- support auto provisioning
- Can config through Web, Keypad, Telnet
- Can upgrade firmware and configuration file through HTTP, FTP, TFTP
- Support syslog

Button	Character	Button	Character
Duttoll	Character	Dutton	Character
1	1@-/	PQRS7	7 P Q R S
АВС2	2 A B C	тиу8	8 T U V
DEF3	3 D E F	wxyz9	9 W X Y Z
дні 4	4 G H I	*	
JKL5	5 J K L	0	0 * #
мно6	6 M N O	#	

5.2. Key mapping