





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 power voltage. Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, 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 will 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° 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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Chapter 1 Brief Introduction to D60

1.1 Thank You for Purchasing D60

Thank you for purchasing D60 IP Phone. D60 is an advanced and full-feature telephone, which is designed for power users especially in the office. This IP Phone supports many business phone features like call hold, call transfer, intercom, etc.

This guide will help you easily use the various features and services available on your phone. Please read the Quick Installation Guide before setting this device.

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 Ethernet cable

The power supply

Stand

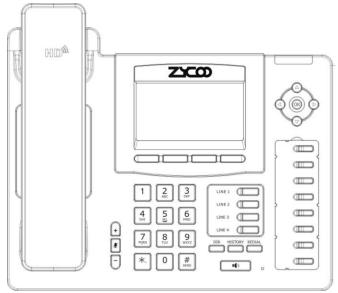
Warranty Card

Quick Installation Guide

Attentions: The D60 may cause damage if you use other power adapter which is not provided by ZYCOO. If the supplied power adapter cannot be used locally due to area or other reasons, please consult your local dealer.

The user manual(you may download from our website)

Here is the appearance of IP Phone description:



	ltem	D60 VoIP Phone		
A	dapter (Input / Output)	Input: 100-240V, Output: 5V 1A		
Dort	WAN	10/100Base- T RJ-45 1 Port		
Port	LAN	10/100Base- T RJ-45 1 Port		
	Power Consumption	Idle: 2.5W/Active: 2.8W		
	LCD Size	128x64pixels, 75.49 x 37.73mm		
0	peration Temperature	0∼40°C		
Relative Humidity		10~65%		
CPU		Broadcom VoIP Chipset		
	SDRAM	128Mb		
	Flash	32Mb		
Pho	one Dimension(L x W x H)	175×240×130mm		
Net Weight		1.2kg		

1.3 Specification Hardware

1.4 Features

Highlights

Support SIP 2.0 (RFC3261) and correlative RFCs Support IAX2, IAX2 line call Support 3 SIP lines, users can simultaneously register three SIP server, through any one service Support HD voice IEEE 802.3af Power over Ethernet compliant Supports multiple call queuing Supports SRTP and BLF

Call Features

Call Transfer(blind/attended) Call holding/waiting/ Call Park/ Paging and Intercom Empty calling no. reject service Voice Codec: G.711A/u, G.723.1, G.729a/b, G.722, G.726-32 Echo cancellation: G.168 Compliance in LEC, additional Acoustic Echo Cancellation(AEC) can reach 96ms max filter length in hands-free mode 9 kinds of ring type and 3 user-defined music ring 500 phonebook records Support Voice Gain Setting, VAD, CNG Support full duplex hands-free Support DTMF type: SIP info, DTMF Relay, RFC2833

Advanced Features

8 DSS keys Support headset RJ9 Support 5 extension console with each consisting of 26 keys Soft keys programmable, function keys programmable Customizable multi-language version, the default is English Flexible call control functions Support SMS Support SMS Support MWI Support XML phonebook/browser Support Speed dial Code synchronization via IP PBX/IMS Support click to dial via web phone book Voice codec setting for each SIP line Support keypad lock, and emergency call during the keypad lock Headset, speakerphone Ringing Selection

Network features

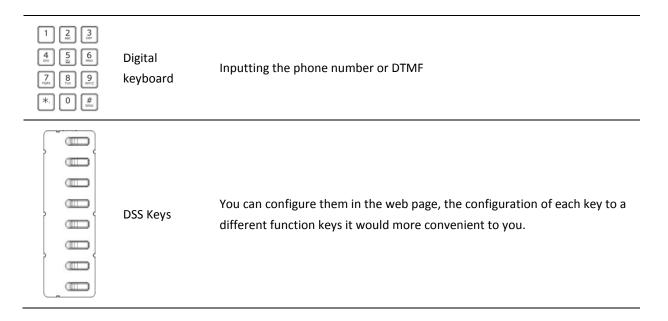
WAN/LAN: support bridge and router model
Support basic NAT and NAPT
Support PPPoE for xDSL
Support VLAN (optional: voice vlan/ data vlan)
NAT Penetrate, Stun Penetrate
Support DMZ
Support VPN (L2TP/OPEN VPN) function
DNS and secondary DNS server
Support DHCP client on WAN
Support DHCP server on LAN
QoS with DiffServ
Network tools in telnet server: including ping, trace route, telnet client

Maintenance and management

Upgrade firmware through POST mode Web ,telnet and keypad management Management with different account right Upgrade firmware through HTTP, FTP or TFTP Telnet remote management/ upload/download setting file Supports Auto Provisioning to upgrade firmware or configuration file with HTTPS Support TR-069(optional) and Syslog

1.5 Key Descriptions

Кеу	Key name	Function Description				
LINE 1 LINE 2 LINE 3 LINE 4	Line key	Default SIP line key. The user can select SIP line to call, the call can also be defined as a line key, the call for a different way selector.				
Soft key 1/2/3/	4	Keys combination, include functions such as History/Directory/DND/Menu/Del/Redial/Send/ Quit/Answer/Divert/Reject/Hold/Transfer/Conf/Close and so on.				
	Navigation	Navigation key assist users for operating. In desktop, dialer, calling, desktop long pressed state they have special function. You can configure through the web page according to your patterns of use.				
DIR Phone book		Access to phone book, check the record list and add new records and revise the record. When check the phone book record, press this key again will return to idle mode.				
HISTORY	History	View the Missed call, Incoming Call and Outgoing Call.				
REDIAL	Redial	 In the hook off/hands-free mode, use the key to dial the last call number; In stand-by mode, it has a function to check the Outgoing Call. You could also find the specify contacts in phone book/call records, and use this number for quick dialing, press this button, you can dial quickly. 				
	Hands-free	Make the phone into hands-free mode.				
¥	Press this key in calling mode, you can hear the o Mute side cannot hear you. Once you press this key tw mode and become normal.					
+-	Volume +/-	Turn down or turn up the volume by pressing these two keys.				
	Indicate light	This light will flash when there is a missed call				



1.6 Port for Connecting

Port	Name	Description
	Power switch	Input: AC 5V,1A
Ē.	WAN	10/100Mbps
	LAN	10/100Mbps
EXT	Expansion Module interface	Port type: RJ-11
	Headset	Port type: RJ-9
	Handset	Port type: RJ-9

1.7 Icon Introduction

lcon	Description
	Call out
« @ »	Call in
	Call hold
<u>AA</u>	Auto answer
<u> </u>	Call mute
	Contact
DND	DND(Do not Disturb)
н О	In hand-free mode
<i>c</i>	In hook mode
Δ	In headset mode
\boxtimes	SMS
	Missed call
C†	Call forward

1.8 LED Status Introduction

LED Status	Description	
Solid green	The monitored user is idle.	
Slow blinking red The monitored user receives an incoming call.		
Solid red The monitored user is active		
Off	The monitored user is failed subscribe	
Off No subscribe		

Table 1 Programmable key for BLF

Table 2 Programmable key for Presence

LED Status	Description		
Solid green	The object is online.		
Slow blinking red	The object is ringing.		
Solid red	The object is active.		
Off	The object is failed./No subscribe.		

Table 3 Programmable key for line

LED Status	Description		
Solid green	The account is active.		
Fast Blinking green	There is an incoming call to the account.		
Slow Blinking green	The call is on hold.		
Slow Blinking red	Registration is unsuccessful.		
Off	The line is not unapplied or idle.		

Table 4 Programmable key LEDs for MWI

LED Status	Description	
Blinking green	There are new voice mails.	
Off	There is no new voice mail.	

Table 5 Power Indication LED

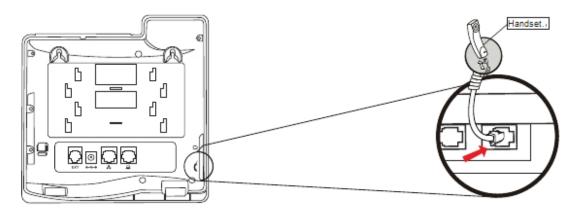
LED Status	Description		
Solid red	Power on.		
Fast Blinking red	There is an incoming call.		
Off	Power off.		

Chapter 2 Initial Connection and Login

2.1 Connection

Step 1 Handset Connection

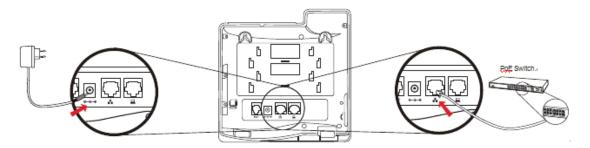
Plug one end of the handset cord into the handset and the other end into the handset jack.



Step 2 Power system Connection

The D60 can be powered either by external AC/DC adapter or by connecting to an IEEE802.3af/at PSE device such as 802.3af injector/hub or 802.3af/at POE switch.

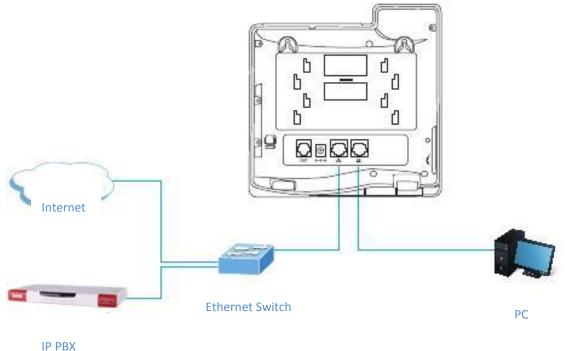
Once the D60 is powered, the LCD screen will display "INICIALIZING". After initializing, the phone will show greeting, current date and time and so forth.



Notice:

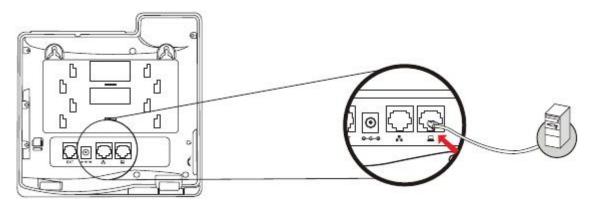
- 1. Use only the power adapter shipped with the unit to ensure correct functionality.
- 2. Only WAN support PoE.





Step 4 Computer Network Connection

Set your computer's IP address to 192.168.0.x, where x is the number between 2 to 254 (except 1 where is used for the phone by default). If you don't know how to do this, please ask your network administrator. Connect your PC to D60 PC port.



Step 5 Web Login

Use web browser (IE6.0 and above) to connect to 192.168.0.x(type this address in the address bar of web browser).

You are prompted to input the user name and password, default is admin/ admin.

2.2 Network Settings

Please make sure the network is connected already. D60 uses DHCP to get WAN IP, the phone could access to network as long as there is DHCP server. If there is not DHCP server, the phone has to be changed to Static IP or PPPOE.

PPPoE mode (For ADSL connection)

- 1. Get PPPoE account and password firstly.
- 2. Press Menu->Settings->Advanced Settings, then enter passwords, and choose Network ->WAN settings->Connection Mode, enter and choose PPPoE through navigation keys and press the Save key.
- 3. Press Back, then choose PPPoE Set, press Enter.
- 4. The screen will show the current information. Press **Del** to delete it, then input your PPPoE user and password and press **Save**.
- 5. Press **Back** six times to return to the idle screen.
- 6. Check the status. If the screen shows "**Negotiating...**" it shows that the phone is trying to access to the PPPoE Server; if it shows an IP address, then the phone has already got IP with PPPoE.

Static IP mode (Static ADSL/Cable, or no PPPoE/DHCP network)

- 1. Get the network's parameters firstly, such as IP Address, Net mask, Default Gateway and DNS server IP address. If you don't know this information, please contact the service provider or technician of network.
- 2. Press Menu->Settings->Advanced Settings, then enter password, and choose Network ->WAN settings->Connection Mode, enter and choose Static through navigation keys and press the Save key.
- 3. Press Back, then choose Static Set, press Enter.
- 4. The screen will show the current information, and then press **Del** to delete. Input your IP address, Mask, Gateway, DNS and press **Save**.
- 5. Press **Back** six times to return to the idle screen.
- 6. Check the status, the screen shows "**Static**". If the IP address and gateway is displayed as well, the Static IP mode takes effect.

Settings of DHCP mode

1. Press Menu->Settings->Advanced Settings ,then enter passwords, and choose Network ->WAN

settings->Connection Mode, enter and choose DHCP through navigation keys and press the Save key.

2. Press **Back** six times to return to the idle screen.

3. Check the status, the screen shows "DHCP", If the IP address and gateway is displayed as well, DHCP mode takes effect.

Chapter 3 Basic Function

3.1 Making a Call

3.1.1 Call Device

You can make a phone call via the following devices:

- 1) Pick up the handset, **C** icon will be displayed in the idle screen.
- 2) Press the Speaker button, **I** icon will be displayed in the idle screen.

3) Press the headset button if the headset is already connected to the Headset Port. The icon displayed in the idle screen.

And then, you can dial the phone number to make the call. Or, you can also dial the number firstly, and choose the method you prefer to speak.

3.1.2 Call Methods

You can press an available line button to make the call if there is more than one account registered.

- 1) Dial the number you want to call directly.
- 2) Press History key, use the navigation buttons to choose the phone number from the lists of Missed Calls,

Incoming Calls and Outgoing Calls.

- 3) Press the **REDIAL** button to choose phone number from the list of Dialed Calls.
- 4) Press the programmable key which is set as speed dial button.

Then press the Send button or Dial key to make the call if necessary.

3.2 Answering a Call

Answering an Incoming Call:

1) If you are not on another phone, lift the handset to use, or press the Speaker button/ Answer softkey to

answer using the speaker phone, or press the headset button to answer the headset.

2) If you are on a call currently, press the Answer.

During the conversation, you can alternate between Headset, Handset and Speaker phone by pressing the corresponding buttons or picking up the handset.

3.3 DND

Press DND softkey to active DND Mode. Further incoming calls will be rejected and the LCD shows: **DHD** icon. Press DND twice to cancel DND mode. You can find the incoming call record in the Call History.

3.4 Call Forward

This feature allows you to forward an incoming call to another phone number.

The LCD shows icon.

The following call forwarding events can be configured:

Off: Call forwarding is deactivated by default.

Always: Incoming calls are immediately forwarded.

Busy: Incoming calls are forwarded when the phone is busy.

No Answer: Incoming calls are forwarded when the phone is not answered after a specific period.

To configure Call Forward via Phone interface:

- 1) Press Menu ->Features->Enter->Call Forwarding->Enter.
- 2) There are 4 options: Disabled, Always, Busy, and No Answer.
- 3) If you choose one of them (except Disabled), enter the phone number you want to forward to receiving party.

Press Save to save the changes.

3.5 Call Hold

Press the Hold button or Hold softkey to put your active call on hold.

- 1) If there is only one call on hold, press the hold key to retrieve the call.
- 2) If there are more than one call on hold, press the line button, and the Up/Down button to highlight the call,

then press the Un-hold button to retrieve the call.

3.6 Call Waiting

- 1) Press Menu ->Features->Enter->Call Waiting->Enter.
- 2) Use the navigation keys to activate or deactivate call waiting.
- 3) Then press Save to save the changes.

3.7 Mute

Press **Mute** button during the conversation, icon ^{III} will be shown on the LCD. Then the caller will not hear you, but you can hear the caller. Press it again to get the phone to normal conversation.

3.8 Call Transfer

1. Blind Transfer

During the call, press the key **Transf**, dial the number that you want to transfer to and finish by pressing "#". The call will be transferred to the third party. After finishing transfer, the call you talk to will be hung up. SIP line is not available for selecting when call is in transferring.

2. Attended Transfer

During the call, press the key **Transf**, input the number that you want to transfer to and press **Send**. After the third party allows to receive the call, then press **Transf** to complete the transfer. (You need enable call waiting and call tansfer in advance).

If there are two calls, you can just talk to one, and keep hold to the other one. The one who is keeping hold cannot speak to you or hear from you. In other words, if you want to invite the third party during the call, you can press **Conf** to make calls mode in conference mode. If user wants to stop conference, user can press **Split**.(User must enable call waiting and three way call in advance).

Notice: The server that user uses must support RFC3515 or it might not be used.

3. Alert Transfer

During the call, press **Transf** firstly, press **Send** after inputting the number that you want to transfer. You are waiting for connection, now, press **Transf** and the transfer will be done. (To use this feature, you need enable call waiting and call transfer in advance).

3.9 Three-Way Conference call

- 1) Press the **Conf** softkey during an active call.
- 2) The first call is placed on hold. Then you will hear a dial tone. Dial the number to conference in, then press

Send key.

- 3) When the call is answered, press **Conf** and add the first call to the conference.
- 4) If you want to release the conference, press **Split** key.

Notice: You may need to start the call feature in order to achieve three-way calling mode.

3.10 Multiple-Way Call

If you have 2 lines calls and want to invite the third party during the call, you can press softkey **Conf** or softkey **XFER** "New Call", press OK, enter the number, then press Send and wait for the other party to answer. When there are multiple way calls, you can press an arrow key to select a call.

3.11 Multi-line

D60 supports 6 SIP account numbers at most, that means you can register 6 SIP account numbers, and the 6 accounts can be used at the same time. There are four keys used as SIP line by default to make calls in SIP accounts. It will blink when the account fails to register.

To facilitate the enterprise communication, the phone supports multiple call answering, call hold and multi-line call. The user can answer 10 incoming call phones at most, you can choose any call by pressing the navigation key in talking and the other 9 calls will be on hold.

You can also press the navigation key to change the call and recover the talking, then last call will be hold automatically.

You can also define the six line keys as multi-line keys, then each line key will be bound to a call and you can choose the talking by pressing the line keys and recover the talking and the light to the line key will be bright all the time in talking, then the light of the call on hold is blinking.

Chapter 4 Advanced Function

4.1 Call Pickup

Call pickup is implemented by simulating pickup function of PBX; that is, when A calls B, B rings but no answer, at this moment, C can hook off and input an appointed prefix plus B's number, pick up A's call and talk to A. The following chart shows how to configure an appointed prefix in dial peer to have call pick up function.

Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
*1*T	0.0.0.0	5060	SIP	rep:pickup	no suffix	3

1 means appointed prefix code. After making the above configuration, C can dial *1* plus B's phone number to pick up A's call. User can set prefix in random, in the case of it does not affect current dialing rules.

4.2 Join Call

When B is calling C, A can join in the existing call by inputting an appointed prefix numbers plus B or C number, if B or C also supports join call.

The following chart shows how to configure an appointed prefix in dial peer to have join call function.

Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
*2*T	0.0.0	5060	SIP	rep:joincall	no suffix	3

2 means appointed prefix code. After making the above configuration, A can dial *2* plus B or C number to join B and C's call. User can set prefix in random, in the case of no affecting current dialing rules.

4.3 Redial / Un-redial

If B is in busy line when A calls B, A will get notice: busy, please hang up. If A wants to connect B as soon as B is in idle, he can use redial function at the moment and he can dials an appointed prefix number plus B's number to realize redial function.

What is redial function? A cannot build a call with B when B is busy, then A will subscribe B's calling mode at 60 second intervals. Once B is available, A will get reminder of rings to hook off, while a hooks off, A will call B automatically. If A is occupied temporarily at this moment and unwilling to contact B, A can also cancel the redial function by dialing an appointed prefix plus B's number before making the redial function.

Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
*3*T	0.0.0	5060	SIP	rep:redial	no suffix	3
*4*T	0.0.0	5060	SIP	rep:unredial	no suffix	3

3 is appointed prefix code. After making the above configuration, A can dial *3* plus B's phone number to make the redial function.

4 is appointed prefix code. After configuration, A can dial *4* to cancel redial function.

User can set prefix in random, in the case of no affecting current dialing rules.

4.4 Click to Dial

When user A browses on an appointed Web page, user A can click to call user B via a link (this link to user B), then user A's phone will ring, after A hooks off, the phone will dial to B. Notice: It needs an external software that supports click to dial.

4.5 CallBack

The function allows user to dial out the last phone call user received.

4.6 Auto Answer

When there is an incoming call unanswered, the phone will answer the call automatically.

4.7 Hotline

You can set hotline number for every sip, and then enter the dialer interface and after Warm Line Time, the phone will call out the hotline number automatically.

4.8 Application

4.8.1 SMS

1) Press Menu ->Applications->Enter->SMS->Enter.

2) Use the navigation keys to highlight the options. You can read the message in the Inbox/Outbox.

3) After view the new message, you can press **Reply** to reply the message, and use the **2aB** softkey to change the Input Method, when enter the reply message, press **OK**, then use the navigation keys to select the line from which

you want to send, then Send.

4) If you want to write a message, you can press **New** and enter message. Use the **2aB** softkey to change the Input Method. When you input the message you want to send, press **OK**, then use the navigation keys to select the line from which you want to send, then **Send**.

5) If you want to delete the message, after view the message, press **Del**, then you have three options to choose from: Yes, All, No.

4.8.2 Memo

You can add some memos to record some important things to remind you.

Press Menu->Application->Memo->Enter->Add.

There are some options to configure: Mode, Date, Time, text, Ring. When the configuration is completed, press **Save**.

4.8.3 Voice Mail

1) Press Menu->Application->Voice Mail->Enter.

2) Use the navigation keys to highlight the line for which you want to set, press Edit, and use the navigation key

to turn on the mode, and input the number. Press 2aB softkey to choose the proper input method.

- 3) Press Save to save the change.
- 4) To view the new voicemail, Press the Voicemail key directly. Press Dial, then you may be

prompted to enter the password, then you can listen to your new and old messages.

4.8.4 Ping

- 1) Press Menu ->Ping-> Enter.
- 2) Input the IP you want, then press start. You can also press delete to modify the IP and change the input

method when you input errors.

3) After input the IP, LCD will display "OK" after a moment, means Ping is successful . Otherwise, Ping failed.

4.8.5 Programmable Key Configuration

The phone has 8 programmable keys which are able to set up to many functions. The following list shows the functions you can set on the programmable keys and provides a description for each function. The default configuration for each key is N/A which means the key hasn't been set for any functions.

Set the type as Memory Key

Press Menu->Settings->Basic Settings->Enter->Keyboard->DSS Key Settings, you have two options: Line Key Settings and Function Key Settings. Choose one you want to make the assignment, use the navigation key to choose the type as memory key. In the Dial field, you have some options, such as Normal, Speed Dial, Intercom, BLF, Presence, MWI, Call Park.

Speed dial

You can configure the key as a simplified speed dial key. This key function allows you to easily access your most dialed numbers.

Intercom

You can configure the key for Intercom code and it is useful in an office environment as a quick access to connect to the operator or the secretary.

BLF

BLF is also called "Busy lamp field", and it is used to prompt the user to pay attention to the state of the object than has been subscribed, and used to cooperate with the server to pick up the phone call. You can configure the key for Busy Lamp Field (BLF) which allows you to monitor the status (idle, ringing, or busy) of other SIP account. User can dial out on a BLF configured key. Please refer to "LED Instruction" for more detail about the LED status in different situations.

Notice: In the Web interface, you can also set the pickup number to activate the pickup function. For example, if you set the BLF number as 212, and the pickup number is 326, when there is an incoming call to 212, press the BLF key, it will call out the 326 automatically to pick up the incoming call on 212.

Presence

Presence is called present, and compared to the BLF, it can also check whether object is online.

Notice: You can not subscribe the BLF and presence station of the same number at the same time.

MWI (Message-Waiting Indicator)

When the key is configured as MWI, you are allowed to access voicemail quickly by pressing this key.

Call Park

1) You need setting a server number, when you have set what represent Call Park. If you have a calling and you busy now, you could press the key and hear a number, then you could choose other phone and input this number. so you can directly recover call.

2) Set the type as Line

You can set these keys as line keys, and press it, it will enter dialer interface.

3) Set the type as Key Event

You can set these keys as Key Event, and the subtype has many options.

Choose one and it will have corresponding function.

- None
- MWI
- DND
- Hold
- Transfer
- Phone Book
- Redial
- Pick up
- Join
- Auto-redial-on
- Auto-redial-off
- Call Forward
- History
- Flash
- Memo

- Headset
- Release: Press this button, you can end all calls
- Lock: You can select whether the keypad lock in the standby interface
- SMS
- Call Back
- Power Light
- Hide DTMF
- Prefix
- Hot Desking: You can clear the current sip information, and register their new sip information.
- 4) Set the type as DTMF

You can configure the key as DTMF. This key function allows you to easily dial or edit dial number.

5) Set the type as URL

You need to match a XML Phonebook address, pressing the button you can directly access the corresponding remote phonebook.

6) Set the type as BLF List Key

It needs the cooperation with the Broad soft server. The traditional BLF is that every number will need to be subscribed, so if the numbers that are subscribed are so many, it will cause to obstruction. However, BLF List Key will put the numbers that are needed to be subscribed in a group, and the phone use the URL of the group to subscribe and analyze the specific information of each number such as number, name, state and so on according to the notifications from the server. Then set the idle Memory key as BLF List Key, later if the state of an object changes, the corresponding LED will change.

Chapter 5 Other Functions

5.1 Auto Handdown

1. Press Menu ->Features-> Enter->Auto Handdown-> Enter.

- 2. Enable the mode through the navigation key, then set Time, unit is minute, then press Save.
- 3. When the call ends, after the time that you have set, the phone will back to the idle mode.

5.2 Ban Anonymous Call

1. Press Menu ->Features-> Enter->Ban Anonymous Call-> Enter.

2. Choose which sip you want to enable Ban Anonymous Call, and then press **Enter**, choose **Enabled** or **Disabled** through navigation key.

3. If you choose Enabled, the others can't call the phone by anonymous. If you choose Disabled, the others can call the phone by anonymous.

5.3 Dial Plan

1. Press Menu ->Features-> Enter->Dial Plan-> Enter.

2. The following plans you can set: Press "#" to Send, Timeout to Send, Timeout, Fixed Length Number, Press "#" to Do BXFER, BXFER On On-hook, AXFER On On-hook. You can enable or disable each dial plan.

5.4 Dial Peer

1. Press Menu ->Features-> Enter->Dial Peer-> Enter.

2. Press **Add** to enter the Edit interface, and then input number and destination. For example: Number:1, Destination:1234, Then press **Save**.

3. Input 1# number in the dial interface, you can dial out 1234.

You can refer to 8.3.3.4

5.5 Auto Redial

1. Press Menu ->Features-> Enter->Auto Redial-> Enter.

2. Choose Mode **Enabled** or **Disabled** through the navigation key. If you choose Enable, you also need to set Interval and Times, and then press **Save**.

3. After enable auto redial, calling out someone, if he/she is busy, it will pop up a prompt box whether to auto redial, press **OK**, the phone will call out him according the Interval and Times that you set.

5.6 Call Completion

1. Press Menu ->Features-> Enter->Call Completion-> Enter.

2. Enable the function through the navigation key, and then Save.

3. Call out others, if he/she is busy, it will pop up a prompt Call Completion Waiting number. Press **OK**, when he/she is idle, it will pop up a prompt Call Completion Call number. Press **OK**, the phone will call out the number automatically.

5.7 Ring from Headset

1. Press Menu ->Features-> Enter->Ring From Headset-> Enter.

2. Enable this function through the navigation key, the phone connects the headset, when the phone has an incoming call, it will ring from the headset.

5.8 Power Light

1. Press Menu ->Features-> Enter->Power Light-> Enter.

2. Enable this function through the navigation key.

5.9 Hide DTMF

1. Press Menu ->Features-> Enter->Hide DTMF-> Enter.

2. Through the navigation key to choose: Disabled, All, Delay, Last Show. When you set up a call with others and need to input the DTMF, the DTMF will show as you have set.

5.10 Ban Outgoing

1. Press Menu ->Features-> Ban Outgoing-> Enter.

2. Enable this function; you cannot call any number.

5.11 Password Dial

1. Press Menu ->Features-> Enter->Password Dial-> Enter.

2. Enable this function, you can also set Prefix and Length. For example, you want to call out 1234567 and you set Password Dial Prefix 123 and Password Length 3, then enter the dial interface and input 1234567, and then the screen will show 123***7.

5.12 Pre Dial

- 1. Press Menu ->Features-> Pre Dial-> Enter.
- 2. Enable this function and you will realize Pre-Dial function.

5.13 Action URL & Active URI

1.Action URL: The action that the phone carries out. For example, opening DND can produce one URL, and then the phone can send the HTTP to get the URL to PC. The phone can report the action to the PC.

2.Active URI: Enter the web page of the phone, PHONE-> FEATURE, input Active URI Limit IP. User can input internet server (e.g. PC'IP), PC can send one URL to the phone.

The phone will produce one action; for example, open DND, so PC can control the phone.

5.14 Push XML

Enter the web page of the phone, PHONE->FEATURE, input Push XML Server(e.g. PC'IP), then PC can push text, SMS, phonebook, advertisement, execute, etc. To phone to update the message or the phone makes an action.

Chapter 6 Basic Settings

6.1 Keyboard

- 1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Keyboard->Enter.
- 2. There are four items: DSS Key settings, Programmable Key Settings, Desktop Long Pressed, Soft Key. You can set up respectively on them. Press **Enter** to enter the interface, then use the navigation keys to choose the function for the key according to your requirement.
- 3. Press OK to save.

6.2 Screen Settings

- 1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Screen Settings->Enter.
- 2. You can set Contrast, Contrast Calibration and Backlight, press **Enter** and use the navigation keys to set, then press **Save**.

6.3 Ring Settings

- 1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Ring Settings->Enter.
- 2. You can set Ring Volume and Ring Type, press **Enter** and use the navigation keys to set, then press **Save**. In the Ring Type, the default system rings have nine and the custom ringtones have three that can be set through the web page.

6.4 Voice Volume

- 1. Press Menu ->Settings-> Enter->Basic Setting-> Enter->Voice Volume->Enter.
- 2. Use the navigation keys to turn down or turn up the voice volume, then press Save.

6.5 Time & Date

- 1. Press Menu ->Settings->Enter->Basic Settings-> Enter->Time & Date->Enter.
- 2. You have two options to choose: Auto and Manual. Use the navigation keys to choose, then press **Save**.

6.6 Greeting Words

- 1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Greeting Words->Enter.
- 2. You can enter the message and press Save, it will display on the phone screen when the phone start up.

6.7 Language

- 1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Language ->Enter.
- 2. The D60 supports three languages. You can use the navigation keys to choose. The default two languages are English and Chinese.

Chapter 7 Advance Settings

7.1 Accounts

Press Menu->Enter->Advanced settings, and input the password to enter the interface, the default password is 123. You can set it through the web page. Then choose **Account** and press **Enter**, you can do some sip settings.

7.2 Network

Press Menu->Enter->Advanced settings, and input the password to enter the interface. Then choose **Network** and press **Enter**, you can do network settings, you can refer to 2.2.1 Network settings.

7.3 Security

Press Menu->Enter->Advanced settings, and input the password to enter the interface. Then choose **Security**, you can configure Menu Password, Key lock Password, Key lock Status and whether to ban Outgoing.

7.4 Maintenance

Press Menu->Enter->Advanced settings, and input the password to enter the interface. Then choose **Maintenance** and press **Enter**, you can configure Auto Provision, Backup, and Upgrade.

7.5 Factory Reset

Press Menu->Enter->Advanced settings, and then input the password to enter the interface. Then choose Factory Reset and press Enter, you can choose Yes or No.

Chapter 8 Web Configuration

8.1 Introduction of Configuration

8.1.1 Ways to Configure

D60 has three different ways to different users.

- Use phone keypad.
- Use web browser (recommended way).
- Use telnet with CLI command.

8.1.2 Password Configuration

There are two levels to access to phone: root level and general level. User with root level can browse and set all configuration parameters, while user with general level can set all configuration parameters except SIP (1-2) or IAX2's that some parameters cannot be changed, such as server address and port. User will have different access level with different username and password.

- Default user with general level:
 - Username: guest
 - Password: guest
- Default user with root level:
 - Username: admin
 - Password: admin

The default password of phone screen menu is 123.

8.1.3 Setting via Web Browser

When this phone and PC are connected to 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 Status button. The login page is shown as below:

WE FOCUS, WE DELIVER	COOFONE-D60 IP PHONE
User:	
Password:	
Language:	English 💌
	Logon

After you configure the IP phone, you need click save button in config under Maintenance in the left catalog to save your configuration. Otherwise the phone will lose your modification after power is off and on.

8.2 Configuration via WEB

8.2.1 BASIC

8.2.1.1 STATUS

	STATUS	WIZARD	CALL LOG	LANGUAGE
SIC				
WORK				
)	Network			
NE	WAN		LAN	
TION KEY	Connection Mode	Static IP	IP Address	192.168.10.1
TENANCE	MAC Address	68:69:2e:02:05:26	DHCP Service	Enabled
UTY	IP Address	192.168.1.206	Bridge Mode	Enabled
JT	IP Gateway	192.168.1.1		
	Accounts			
	SIP Line 1	@:5060	Unapplie	ł
	SIP Line 2	@:5060	Unapplie	đ
	SIP Line 3	@:5060	Unapplie	t
	SIP Line 4	@:5060	Unapplie	ł
	SIP Line 5	@:5060	Unapplie	t
	SIP Line 6	@:5060	Unapplie	t
	IAX2	@:4569	Unapplie	đ

	Status
Item	Explanation
	Shows the configuration information on WAN and LAN port, including the connect
Network	mode of WAN port (Static, DHCP, PPPoE), MAC address, the IP address of WAN
	port and LAN port, ON or OFF of DHCP mode of LAN port and bridge mode
Accounts	Shows the phone numbers provided by the SIP LINE 1-2 servers and IAX2.
Accounts	The last line shows the version number and issued date .

8.2.1.2 WIZARD

Secondary DNS

WE FOCUS.WE DELIVER				
	STATUS	WIZARD	CALL LOG	LANGUAGE
▶ BASIC				
NETWORK				
VOIP	WAN Connection Mode			
PHONE	Static IP			
FUNCTION KEY	DHCP	•		
MAINTENANCE	PPPoE	0		
SECURITY		Ŭ	Next	
LOGOUT				
		Wizar	d	

Please select the proper network mode according to the network condition. D60 provides 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; no need to input this information artificially.
- **PPPoE**: In this mode, you must input your ADSL account and password.

You can also refer to 2.2 Network setting to speedily set your network.

Choose Static IP mode, click **NEXT** can configure the network and SIP(default SIP1)simply. Click **BACK** to return to the last page.

WE FOCUS.WE DELIVER						
		WIZARD	CALL LOG	LANGUAGE		
▶ BASIC						
NETWORK						
VOIP	Static IP Settings					
PHONE	IP Address	192.168.1.206				
FUNCTION KEY	Subnet Mask	255.255.255.0				
MAINTENANCE	IP Gateway	192.168.1.1				
LOGOUT	DNS Domain Primary DNS	8.8.8.8				
200001	Secondary DNS	8.8.4.4				
		Back		Next		
IP Address	Input the II	Paddress distributed	to you			
Subnet Mask	Input the N	letmask distributed to	o you.			
IP Gateway	Input the Gateway address distributed to you.					
	Set DNS do	main postfix. When t	he domain which yo	ou input cannot be p		
DNS Domain	phone will	automatically add thi	s domain to the end	l of the domain whi		
	before and	parse it again.				
Primary DNS	Input your	primary DNS server a	ddress.			

Input your standby DNS server address.

	STATUS	WIZARD	CALL LOG	LANGUAGE	
▶ BASIC					
NETWORK					
VOIP	Quick SIP Settings				
PHONE	Display Name				
FUNCTION KEY	Server Address				
MAINTENANCE	Server Port	5060			
SECURITY	Authentication User				
LOGOUT	Authentication Password				
	SIP User				
	Enable Registration				
		Back	1	Next	
Display Name	Set the disp	olay name.			
Server Address	Input your	SIP server address.			
Server Port	Set your SIP server port.				
Authentication User Input your SIP register account name.					
Authentication Password Input your SIP register password					

Server Address	Input your SIP server address.
Server Port	Set your SIP server port.
Authentication User	Input your SIP register account name.
Authentication Password	Input your SIP register password.
SIP User	Input the phone number assigned by your VOIP service provider.
Enable Registration	Start to register or not by selecting it or not.

WE FOCUS, WE DELIVER				
	STATUS	WIZARD	CALL LOG	LANGUAGE
▶ BASIC				
NETWORK				
VOIP	WAN			
PHONE	Connection Mode	Static IP		
FUNCTION KEY	Static IP Address	192.168.1.206		
MAINTENANCE	IP Gateway	192.168.1.1		
SECURITY				
LOGOUT	SIP			
	Server Address			
	Account			
	Phone Number			
	Registration	Disabled		
		Back		Finish

Display detailed information that you manual config.

Choose DHCP MODE, click Next to configure SIP (default SIP1) simply. Click Back to return to the last page. Like Static IP mode.

Choose PPPoE MODE, click **Next** to configure the PPPoE account/password and SIP (default SIP1) simply. Click **Back** to return to the last page. Like Static IP mode.

PPPoE Settings		
Service Name	ANY	
User	user123	
Password	••••	
	Back	Next
PPPoE Server	Server name, if PPPOE service providers are no usually the default value.	o special requirements, this name is
PPPoE Server User	· · ·	o special requirements, this name is
	usually the default value.	o special requirements, this name is
User Password	usually the default value. Input your ADSL account	

8.2.1.3 CALL LOG

You can query all the outgoing through this page.

WE FOCUS.WE DELIVER				
	STATUS	WIZARD	CALL LOG	LANGUAGE
▶ BASIC				
NETWORK				
VOIP	Call Information			
PHONE	Start Time	Duration	Dialed Calls	
FUNCTION KEY				
MAINTENANCE				
SECURITY				
LOGOUT				
		Call log	5	
Item	Explanatio	n		
Start Time	Display the	start time of the out	tgoing record.	
Duration	Display the	conversation time o	f the outgoing recor	d.
Dialed Calls	Display the	account/protocol/li	ne of the outgoing r	ecord.

8.2.1.4 LANGUAGE

WE POLOS, WE DELIVER	STATUS	WIZARD	CALL LOG	LANGUAGE
▶ BASIC				
PHONE	Language			
FUNCTION KEY	Language Selection	English 💌		
MAINTENANCE				
SECURITY	Greeting Words			
LOGOUT	Greeting Words	ZYCOO	(0-12 character(s))	
		C	Apply	
		LANGUA	GE	
Item	Explanatior	ı		
Language	Set the lang	uage of phone, Engl	ish is default.	
	The greetin	g words will display	on LCD when phone	is idle. It can support
Greeting Words	characters.	the default chars are	e VOIP PHONE.	
Notice: the maxima	al length of the greeti	ng message is 12 Eng	glish characters and	5 Chinese characters

8.2.2 NETWORK

8.2.2.1 WAN

WE FOCUS, WE DELIVER						
	WAN	LAN	QoS&VLAN	SERVICE PORT	DHCP SERVICE	TIME&DATE
BASIC						
▶ NETWORK						
VOIP	WAN Status					
PHONE	Active IP Addr		192.168.1.206			
FUNCTION KEY	Current Subnet Mask		255,255,255.0			
MAINTENANCE	Current IP Gateway		192.168.1.1			
SECURITY	MAC Address		68:69:2e:02:05:26			
LOGOUT	MAC Timestan	qr	20130918			
	WAN Settings					
	Static IP 💿		рнср 🔘		PPPoe 🔿	
	IP Address		192.168.1.206			
	Subnet Mask		255.255.255.0			
	IP Gateway		192.168.1.1			
	DNS Domain					
	Primary DNS		8.8.8			
	Secondary DN	IS	8.8.4.4			
			WAN Stat	us		

WE FOCUS,WE DELIVER	WAN	LAN	QoS&VLAN	SERVICE PORT	DHCP SERVICE	TIME&DATE
BASIC						
▶ NETWORK						
VOIP	IIIANI Chatura					
PHONE	WAN Status					
FUNCTION KEY	Active IP Add		192.168.1.206			
MAINTENANCE	Current Subr Current IP Ga		255.255.255.0 192.168.1.1			
SECURITY	MAC Address		68:69:2e:02:05:26			
LOGOUT	MAC Timestal		20130918			
Active IP Address	The	current IP ad	ldress of the p	hone		
Current Subnet Mask			mask address			
MAC Address	The	current MAC	address of th	e phone		
Current IP Gateway	The	current Gate	way IP addres	SS		
MAC Timestamp	Shov	vs the time o	of getting MAC	Caddress		
SECURITY	WAN Settings					
LOGOUT	Static IP 💿		рнср О		PPPOE O	
	IP Address		192.168.1.206			
	Subnet Mask	:	255.255.255.0			
	IP Gateway		192.168.1.1			
	DNS Domain					
	Primary DNS		8.8.8.8			
	Secondary D	NS	8.8.4.4			

Please select the proper network mode according to the network condition. D60 provides 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, you must input your ADSL account and password. You can also refer to 2.2.1 Network setting to speed setting your network.

Obtain DNS server	Select it to use DHCP mode to get DNS address, if you don't select it, you will u		
automatically	static DNS server. The default is selecting it.		
WAN Settings			
Static IP 💿	DHCP O PPPoe O		
IP Address	192.168.1.206		
Subnet Mask	255.255.255.0		
IP Gateway	192.168.1.1		
DNS Domain			
Primary DNS	8.8.8.8		
Secondary DNS	8.8.4.4		
	Apply		
If you user static mode,	you need set it.		
IP Address	Input the IP address distributed to you.		
Subnet Mask	Input the Net mask distributed to you.		

IP Gateway	Input the Gateway address distributed to you.			
	Set DNS domain postfix. When the domain which you input cannot be parsed,			
DNS Domain	phone 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.			
Secondary DNS	Input your standby DNS server address.			

WAN Settings

Obtain DNS Server Automatically	Disabled 💌	
Static IP 🔘	DHCP O	PPPoE 📀
Service Name	ANY]
User	user123]
Password	•••••]
	Apply	

If you uses PPPOE mode, you need to make the above setting.				
Service Name	It will be provided by ISP.			
User	Input your ADSL account.			
Password	Input your ADSL password.			

Notice:

- 1) Click "Apply button" after finishing 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. You need input new IP address in the address column to logon the phone.
- 3) If networks ID which is DHCP server distributed is 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 0.0.0.0.

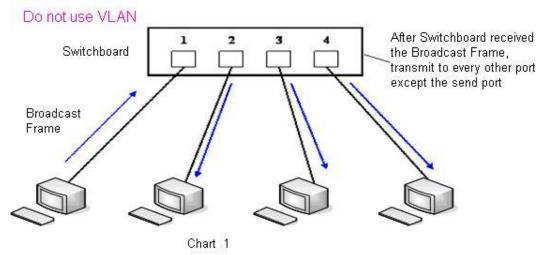
8.2.2.2 LAN

WE FOCUS, WE DELIVER						
	WAN	LAN	QoS&VLAN	SERVICE PORT	DHCP SERVICE	TIME&DATE
BASIC						
►NETWORK						
VOIP	LAN Settings 🚯					
PHONE	IP Address		192.168.10.1			
FUNCTION KEY	Subnet Mask		255.255.255.0			
MAINTENANCE	DHCP Service		≥33.233.233.0			
SECURITY	NAT					
LOGOUT	Port Mirror		 (Only works in t) 	he bridae mode!)		
	Enable Bridge	e Mode		- /		
				Apply		

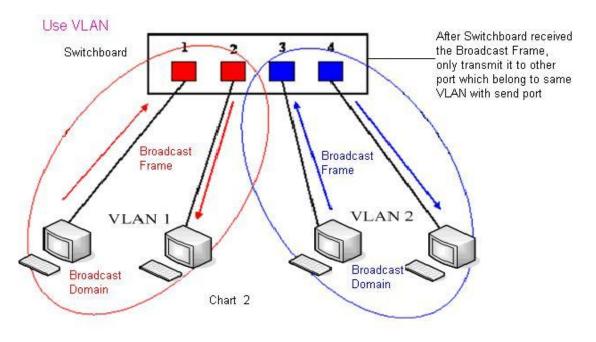
LAN Configuration					
Item	Explanation				
LAN IP Address	Specify LAN static IP				
Subnet Mask	Specify LAN Net mask				
	Select the DHCP server of LAN port or not. After you modify the LAN IP address,				
DUCD Convice	phone will amend and adjust the DHCP Lease Table and save the result amended				
DHCP Service	automatically according to the IP address and Net mask. You need reboot the				
	phone and the DHCP server setting will take effect.				
NAT	Select NAT or not				
	Select Port Mirror or not, it only works in bridge mode, the function of the port				
Port Mirror	mirror is that copy the data stream from the WAN port to the LAN port of the				
	phone.				
	If you select Bridge Mode, the phone will no longer set IP address for LAN physical				
Enable Bridge Mode	port; LAN and WAN will join the same network. Click "Apply", the phone will				
	reboot.				
Notice: When LAN IP or	bridge mode status is changed, the system will reboot!				
If you choose the bridg	e mode, the LAN configuration will be disabled.				

8.2.2.3 QoS&VLAN

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



flexible.



In chart

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

Note: chart 2 use red and blue to identify the different VLAN, but in practice, VLAN uses different VLAN IDs to identify.

	WAN	LAN		SERVICE PORT	DHCP SERVICE	TIME&DATE
SIC						
ETWORK						
IP	Link Layer Discovery	Protocol (LLDP) Settings			
IONE	Enable LLDP 🕥		,	Packet Interval(1	~3600) 60	second(s)
INCTION KEY	Enable LLDP •			Facket Interval(1		
AINTENANCE						
CURITY	Quality of Service (C	oS) Settings				
GOUT	Enable DSCP			SIP DSCP	46	(0~63)
	Audio RTP DSCP	46	(0~63)			
	WAN Port VLAN Sett	ings				
	Enable WAN Por	t VLAN		WAN Port VLAN II	256	(0~4095)
	SIP 802.1P Prior	ty O	(0~7)	Audio 802.1P Pric	rity 0	(0~7)
	LAN Port VLAN Setti	ngs				
	LAN Port VLAN M	ode Foll	ow WAN 🔽	LAN Port VLAN ID	254	(0~4095)

Item	Explanation
Link Layer Discovery Proto	col (LLDP) Settings
Enable LLDP	Enable LLDP by selecting it.
	After enabling LLDP Learn, telephone can automatically learn the data of DSCP,
Enable Learning Function	802.1p, VLAN ID from the switch. If the data is different from the data of the LLDP
	server, telephone will change its own value as the value of the switch (Synchronous
	with VLAN in switch).
Package Interval(1-3600)	The time interval of sending LLDP Packet.
Quality of Service(QOS) Se	ttings
Enable DSCP	Enable DSCP by selecting it.
SIP DSCP	Specify the value of the SIP DSCP.
Audio RTP DSCP	Specify the value of the Audio RTP DSCP.
WAN Port VLAN Settings	
Enable WAN Port VLAN	Enable WAN Port VLAN by selecting it.
WAN Port VLAN ID	Specify the value of the WAN Port VLAN ID, the range of the value is 0-4095.
SIP 802.1p Priority	Specify the value of the sip 8021.p priority, the range of the value is 0-7.
Audio 802.1p Priority	Specify the value of the audio 802.1p priority, the range of the value is 0-7.
LAN Port VLAN Settings	
	Follow WAN: Follow the WAN ID.
LAN Port VLAN	Disable: Disable Port VALN.
	Enable: Enable Port VLAN and specify the Port VLAN ID different from WAN ID.
LAN Port VLAN ID	Specify the value of the Port VLAN ID different from WAN ID, the range of the value
LAIN PUIT VLAIN ID	is 0-4095.

QoS & VLAN Configuration

8.2.2.4 Service Port

You can set the port of telnet/HTTP/RTP by this page.

WE FOCUS.WE DELIVER							
	WAN	LAN	QoS&VLAN	SERVICE PORT	DHCP SERVICE	TIME&DATE	
BASIC							
▶ NETWORK							
VOIP	Service Port Setti						
PHONE							
FUNCTION KEY	Web Server T	ype	НТТР 💌				
MAINTENANCE	HTTPS Port	HTTP Port 80					
SECURITY	Telnet Port		443 23				
LOGOUT	RTP Port Ran	ge Start	10000				
	RTP Port Qua		200				
			C	Apply			

	Service Port
Item	explanation
Web Server Type	Specify Web Server Type.
	Set web browser port, the default is 80 port, if you want to enhance system safety,
	you'd better change it into non-80 standard port;
HTTP Port	Example: The IP address is 192.168.1.70. and the port value is 8090, the accessing
	address is http://192.168.1.70:8090.
	Before using the https, you must download https authentication certification into
	the phone, then
HTTPS Port	set web browser port, the default is 443 port, if you want to enhance system
	safety, you'd better change it into non-443 standard port. You can access to the
	web in https after rebooting the phone.
Telnet Port	Set Telnet Port, the default is 23.
RTP Port Range Start	Set the RTP Start Port. It is dynamic allocation.
RTP Port Quantity	Set the maximum quantity of RTP Port, the default is 200.
Notico	

Notice:

1) You need save the configuration and reboot the phone after setting this page.

2) Please REBOOT the system if you modify the HTTP or telnet port number (the new number should be greater than 1024).

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

8.2.2.5 DHCP SERVICE

WE FOCUS, WE DELIVER								
	WAN	LAN	Q0	S&VLAN	SERVI	CE PORT		TIME&DATE
ASIC								
IETWORK								
IP	DHCP Client Tab	-						
IONE	Leased IP A	Address			Clien	t MAC Addre	55	
NCTION KEY	DHCP Lease Tab	la.						
INTENANCE	Name Start	-		Leased Tim		out a state of	TD 0-1	DNO
CURITY		IP End IP 168.0.2 192.168			e	Subnet Mas	(IP Gateway	DNS 192,168.0.1
GOUT	Tall 192,1	192,160	0.0.3I	1360		200,200,20	.0 192.168.0.1	192,100,0,1
	DHCP Lease Tab	le Settings						
	Leased Tab	le Name						
	Start IP Add	dress						
	End IP Addr	ress						
	Leased Tim	e			min	ute(s)		
	Subnet Mas	k						
	IP Gateway							
	DNS Server	Address						
					Add			
	DHCP Lease Tab	le Delete						
	Leased Tab	le Name 🛛 lan 💌				Delet	e	
	DNS Relay							
	Enable DNS	Relay 🗹			Ap	ply		

DHCP SERVICE						
Item	explanation					
DHCP Lease Table	IP-MAC mapping table. If the LAN port of the phone connects to a device, this					
DHCP Lease Table	table will show the IP and MAC address of this device.					
Shows the DHCP Lease Tab	le, the unit of Lease time is Minute.					
Lease Table Name	Specify the name of the lease table.					
Start IP Address	Set the start IP address of the lease table.					
	Set the end IP address of the lease table, the network device connected to LAN					
End IP Address	port will get IP address between Start IP and End IP by DHCP.					
Leased Time	Set the Lease Time of the lease table.					
Subnet Mask	Set the Net mask of the lease table.					
IP Gateway	Set the Gateway of the lease table.					
DNS	Set the default DNS server IP of the lease table; Click the Add button to submit and					
	add this lease table.					
DHCP Lease Table Delete						
Leased Table Name la	Delete					
Select name of lease table,	click the Delete button will delete the selected lease table from DHCP lease table.					
DNS Relay						
Enable DNS Relay 🔽	Apply					
Epoble DNS Polov	Select DNS Relay, the default is enabled. Click the Apply button to become					
Enable DNS Relay	effective.					
Notice:						
1) The size of lease table ca	annot be larger than the quantity of C network IP address. We recommend you to use					
the default lease table and	not modify it.					

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

8.2.2.6 TIME&DATE

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.

WE FOCUS WE DELIVER						
	WAN	LAN	QoS&VLAN	SERVICE PORT	DHCP SERVICE	TIME&DATE
BASIC	Simple Network T	ime Protocol (SNTP) Settings			
▶ NETWORK	Enable SNTP	~				
VOIP	Enable DHCP 1	Time				
PHONE	Primary Serve	r 209.81.	9.7			
FUNCTION KEY	Secondary Ser	ver				
MAINTENANCE	Timezone	(GMT+	08:00)Beijing,Chongqin	g,Hong Kong,Urumqi	*	
SECURITY	Resync Period	60	second(s)			
LOGOUT	12-Hour Clock					
	Date Format	1 JAN N	10N 💌			
			ſ	Apply		
	Daylight Saving T	ime Settings				
	Enable					
	Offset	60	minutes(s)			
	Month	March	*	Octo	ober 😽	
	Week	5 💌		5	×	
	Day	Sunday	×	Sun	day 💉	
	Hour	2		2		
	Minute	0		0		
				Apply		
	Manual Time Setti	ngs				
	Year					
	Month					
	Day					
	Hour					
	Minute					
			ſ	Apply		

TIME&DATE

Item	Explanation				
Simple Network Time Prot	Simple Network Time Protocol (SNTP) Settings				
Enable SNTP	Enable SNTP by selecting it.				
Enable DHCP Time	Enable DHCP Time by selecting it, then the phone will automatically				
	synchronize the standard time.				
Primary Server	Set SNTP Primary Server IP address.				
Secondary Server	Set SNTP Secondary Server IP address.				
Time Zone	Select the Time zone according to your location.				
Resync Period	Set the time out, the default is 60 seconds.				
12 -Hour Clock	Switch the time mechanism between 12 hours and 24 hours.				
	Default is 24 hours mode.				
Date format	Specify the date format.				
Daylight Saving Time Settin	ngs				
Enable	Enable daylight saving time.				
Offset(minutes)	Setup the variety length.				
Month	Setup start and end month.				
Week	Setup start and end week.				
Day	Setup start and end day.				
Hour	Setup start and end hours.				
Minute	Setup start and end minutes.				

Manual Time Settings	
Manual Time Settings	
Year]
Month]
Day	
Hour]
Minute	
	Apply

Notice: First of all, you need to disable the SNTP service, and above the date hours minutes each of which is required to complete and submit to make manual.

8.2.3 VOIP

8.2.3.1 SIP

Set your SIP server in the following interface.

WE FOCUS, WE DELIVER					
	SIP	IAX2	STUN	DIAL PEER	MCAST
BASIC					
NETWORK					
► VOIP PHONE	SIP Line	SIP 1 💌			
FUNCTION KEY	Basic Settings >>				
MAINTENANCE	Status	Unapplied	Day	main Realm	
SECURITY	Status Server Address	Unapplieu		nam Realm xy Server Address	
LOGOUT	Server Port	5060		xy Server Port	
200001	Authentication Us			xy User	
	Authentication Pa	ssword		xy Password	
	SIP User			kup Proxy Server Iress	
	Display Name			kup Proxy Server Port	5060
	Enable Registrati	on 🗌	Ser	ver Name	
	Codecs Settings >>				
	Advanced SIP Setting	s >>			
			Apply		
Codecs Settings >>					
Disabled Codecs			Enabled Codecs		
G.711A G.711U G.722 G.723.1 G.726-32 G.729AB		→ ←			<u>↑</u> ↓

Advanced SIP Settings >>			
Forward Type	Disabled 💌	Enable Hotline	
Forward Number		Hotline Number	
No Ans. Fwd Wait Time	60 (0~120)second(s)	Warm Line Wait Time	0 (0~9)second(s)
Transfer Timeout	0 second(s)	BLF Server	
SIP Encryption		Enable Auto Answer	
SIP Encryption Key		Auto Answer Timeout	60 second(s)
RTP Encryption		Enable Session Timer	
RTP Encryption Key		Session Timeout	0 second(s)
Subscribe For MWI		Conference Type	Local 💌
MWI Number	*60	Conference Number	
Subscribe Period	3600 second(s)	Registration Expires	3600 second(s)
Enable Service Code			
DND On Code		DND Off Code	
Always CFwd On Code		Always CFwd Off Code	
Busy CFwd On Code		Busy CFwd Off Code	
No Ans. CFwd On Code		No Ans. CFwd Off Code	
Ban Anonymous On Code		Ban Anonymous Off Code	
Keep Alive Type	SIP Option 💙	Keep Alive Interval	60 second(s)
User Agent		Server Type	
DTMF Type	AUTO 🗸	RFC Protocol Edition	RFC3261 V
DTMF SIP INFO Mode	Send 10/11 🗸	Local Port	5060
Ring Type	Default 💙	Anonymous Call Edition	None V
Enable Rport		Keep Authentication	
Enable PRACK		Ans. With a Single Codec	
Enable Long Contact		Auto TCP	
Convert URI		Enable Strict Proxy	
		Enable GRUU	
Dial Without Registered			
Ban Anonymous Call		Enable Displayname Quote	
Enable DNS SRV		Enable user=phone Click To Talk	
Enable Missed Call Log			
BLF List Number		Transport Protocol	
Enable BLF List Respond 182 when Call		Use VPN	✓
waiting		Enable DND	
	Арр	lv	
	F		
SIP Global Settings >>			
Strict Branch		Enable Group	
Registration Failure Retry T	ime 32 s	econd(s)	
	A	pply	

SIP Configuration				
Item explanation				
SIP Line				
Choose line to set info about SIP, there are 4 lines to choose. You can switch by [Load] button.				
Basic Settings				
Status	Shows if the phone has been registered the SIP server or not; or so, show			
Unapplied.				
Server Address	Input your SIP server address.			

Server Port	Set your SIP server port.			
Authentication User	Input your SIP register account name.			
Authentication Password	Input your SIP register password.			
SIP User	Input the phone number assigned by your VoIP service provider. Phone will not			
	register if there is no phone number configured.			
Display Name	Set the display name.			
	Set proxy server IP address (Usually, Register SIP Server configuration is the same as			
	Proxy SIP Server. But if your VoIP service provider gives different configurations			
Proxy Server Address	between Register SIP Server and Proxy SIP Server, you need make different			
	settings).			
Proxy Server Port	Set your Proxy SIP server port.			
Proxy User	Input your Proxy SIP server account.			
Proxy Password	Input your Proxy SIP server password.			
	Set the sip domain if needed, otherwise this VoIP phone will use the Register server			
Domain Realm	address as sip domain automatically. (Usually it is same with registered server and			
	proxy server IP address).			
Backup Server Address	Input the Backup Server Address, if the primary server is unavailable, then the			
	phone will enable the Backup Server Address.			
Backup Server Port	Specify the Backup Server Port.			
Enable Registration	Start to register or not by selecting it or not.			
Codecs Settings				
Disable Codecs/Enable	Use the navigation keys to highlight the desired one in the Enable/Disable Codecs			
Codecs	list, and press the desired to move to the other list.			
Advanced SIP Setting				
	Select call forward mode, the default is Disabled.			
	Off: Close down calling forward.			
Forward Type	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 after a specific.			
	Always: Incoming calls will be forwarded to the appoint phone immediately.			
	The phone will prompt the incoming while doing forward.			
Forward Number	Specify the number you want to forward.			
No Answer Forward Wait	Specify the No Answer Forward Delay Time, if the Forward Type is No answer,			
Time	incoming calls will be forwarded after the no answer forward wait time.			
Enable Hot Line	Specify Hot Line by selecting it.			
Hot Line Number	Specify Hot Line Number, the phone dial the hot line number automatically at			
	hands-free mode or handset mode after warm line time.			
Warm Line Wait Time	Specify the Warm Line Time.			
Transfer Timeout	For the phone supports the transfer of certain special features server, set interval			
	time between sending "bye" and hanging up after the phone transfers a call.			
	Ordinary BLF application is that the phone send subscription package to the			
BLF Server	VIUINALY DEF Application is that the phone send substitution backage to the			
BLF Server	registered server, if your server does not support subscription package, please input			

SIP Encryption	Enable/Disable SIP Encryption.
SIP Encryption Key	Set the key for sip encryption.
RTP Encryption	Enable/Disable RTP encryption.
RTP Encryption Key	Set the key for RTP encryption.
Enable Auto Answer	Enable Auto Answer by selecting it.
Auto Answer Timeout	Specify Auto Answer Time, the phone auto answers the incoming call after Auto
	Answer Time.
Enable Session Timer	Set Enable/Disable Session Timer, whether support RFC4028.It will refresh the SIP
	sessions.
Session Timeout	Set the session timeout.
Subscribe for MWI	Enable the Subscribe for MWI by selecting it, the phone will send subscribe message
	for MWI to the SIP Server.
MWI Number	Specify the MWI Number; Please contact your system administrator for the
	connecting code. Different systems have different codes.
Subscribe Period(s)	Overtime of resending subscribe packet. Suggest using the default configuration.
Conference Type	Specify the Conference Type, if you select the local, you needn't input the
	conference number.
Conference Number	Specify the network conference number, please contact your system administrator
	for the network conference number.
Registration Expire(s)	Set expire time of SIP server register, default is 60 seconds. If the register time of
	the server requested is longer or shorter than the expired time set, the phone will
	change automatically the time into the time recommended by the server, and
	register again.
Enable Service Code	If you want to realize the following function by the server, please enter the On Code
	and Off Code option, then when you choose to enable/disable following function on
	your IP phone, it will send message to the server, and the server will turn on/off the
	function immediately.
DND On Code	Set the DND On Code, When you press the DND hot key, the phone will send a
	message to the server, and the server will turn on the DND function. Then any calls
	to the extension will be rejected by the server automatically. And the incoming call
	record will not be displayed in the Call History.
DND Off Code	Set the DND Off Code, When you press the DND hot key, the phone will send a
	message to the server, and the server will turn off the DND function.
Always CFwd On Code	Set the Always CFwd On Code, when you choose to enable the always forward
	function on your phone, it will send message to the server, and the server will turn
	on the function immediately. When there are calls to the extension, the server will
	always forward it to the set number automatically. And the IP phone will not show
	the record in the call history anymore.
Always CFwd Off Code	Set the Always CFwd Off Code, when you choose to disable the always forward
	function on your phone, it will send message to the server, and the server will turn
	off the function immediately.
Busy CFwd On Code	Set the Busy CFwd On Code, when you choose to enable the busy forward function \boldsymbol{v}
	on your phone, it will send message to the server, and the server will turn on the

	it to the set number automatically based the forward type. And the IP phone will		
	not show the record in the call history anymore.		
Busy CFwd Off Code	Set the Busy CFwd Off Code, when you choose to disable the busy forward function		
	on your phone, it will send message to the server, and the server will turn off the		
N. A	function immediately.		
No Answer CFwd On	Set the No Answer CFwd On Code, when you choose to enable the on answer		
Code	forward function on your phone, it will send message to the server, and the server		
	will turn on the function immediately. When there are calls to the extension, the		
	server will forward it to the set number automatically based the forward type. And		
	the IP phone will not show the record in the call history anymore.		
No Answer CFwd Off	Set the No Answer CFwd Off Code, when you choose to disable the busy forward		
Code	function on your phone, it will send message to the server, and the server will turn		
	off the function immediately.		
Anonymous On Code	Set the Anonymous On Code, When you choose to enable the anonymous call		
	function on your IP phone, it will send information to the server, and the server will		
	enable the anonymous call function for your IP phone automatically.		
Anonymous Off Code	Set the Anonymous Off Code, When you choose to disable the anonymous call		
	function on your IP phone, it will send information to the server, and the server wil		
	disable the anonymous call function for your IP phone automatically.		
Keep Alive Type	Specify the keep alive type, if the type is option, the		
	phone will send option sip message to server every NAT Keep Alive Period(s), then		
	the server responses with 200 to keep alive. If the type is UDP, the phone will send		
	UDP message to server to keep alive every NAT Keep Alive Period(s).		
Keep Alive Interval	Set examining interval of the server, default is 60 seconds.		
User Agent	Set the user agent if have, the default is VoIP Phone 1.0.		
	Select DTMF sending mode, there are three modes:		
	DTMF_RELAY		
DTMF Type	DTMF_RFC2833		
	 DTMF_SIP_INFO 		
	Different VoIP Service providers may provide different modes.		
DTMF SIP INFO Mode	There are two options: send 10/11 and send * / #		
Local Port	Set sip port of each line.		
Ring Type	Set ring type of each line.		
Enable Via Rport	Enable/Disable system to support RFC3581. Via Rport is special way to realize SIP		
	NAT.		
Enable PRACK	Enable or disable SIP PRACK function, suggest use the default configuration.		
Enable Long Contact	Set more parameters in contact field; connection with SEM server.		
Convert URI	Convert # to %23 when send the URI.		
Dial Without Registered	Set call out by proxy without registration;		
Ban Anonymous Call	Set to ban Anonymous Call;		
Enable DNS SRV	Support DNS looking up with _sip.udp mode.		
Server Type	have the second type of conversible is energiated, or has some unique		
	Select the special type of server which is encrypted, or has some unique		
RFC Protocol Edition	requirements or call flows. Select SIP protocol version to adapt for the SIP server which uses the same version		

	as you select. For example, if the server is CISCO5300, you need to change to
	RFC2543; else phone may not cancel call normally. System uses RFC3261 as default.
Transport Protocol	Set transport protocols, TCP or UDP;
Anonymous call Edition	Set Anonymous call out safely; Support RFC3323and RFC3325;
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.
Answer With A Single	Enable/Disable the function when call is incoming, phone replies SIP message with
Codec	just one codec which phone supports.
Auto TCP	Set to use automatically TCP protocol to guarantee usability of transport as message
	is above 1300 byte
Enable Strict Proxy	Support the special SIP server-when phone receives the packets sent from server,
	phone will use the source IP address, not the address in via field.
Enable GRUU	Set to support GRUU
Enable Display name	Set to make quotation mark to display name as the phone sends out signal, in order
Quote	to be compatible with server.
Enable user=phone	Enable user=phone by selecting it, it is contained in the invite sip message, in order
	to be compatible with server.
Enable Missed Call Log	Enable the missed call log by it, the phone will save the missed call log into the call
	history record and display the missed calls on the idle screen, or won't save the
	missed call log into the call history record and display the missed calls on the idle
	screen.
Click to talk	Set click to Talk (need practical software support).
Enable BLF List	Enable BLF List by selecting it, BLF list is a function which can monitor the group
	status, it is not one to one monitoring, but the information feedback from the
	server to decide which BLF list will monitor.
Use VPN	Phone use VPN IP to communicate
BLF List Number	Specify the BLF List Number.
SIP Global Settings	
Strict Branch	Enable the Strict Branch, the value of the branch must be in the beginning of
	z9hG4k in via field of the invite sip message received, or the phone won't response
	to the invite sip message.
	Notice: the deployment will become effective in all sip lines.
Enable Group	Enable Group by selecting it, then the phone enable the sip group backup function.
	Notice: the deployment will become effective in all sip lines.
Registration Failure	Specify the registration failure retry time, if the phone register failed, the phone will
Retry Time	register again after registration failure retry time.
	Notice: the deployment will become effective in all sip lines.

8.2.3.2 IAX2

ZYCOD						
WE FOCUS,WE DELIVER	SIP	IAX2		DIAL PEER	MCAST	
BASIC	IAX2					
NETWORK	Status	Unapplie	d			
▶ VOIP	Server Address					
PHONE	Server Port	4569				
	Account					
MAINTENANCE SECURITY	Password Phone Number					
	Local Port	4569				
	Voice Mail Number	0				
	Voice Mail Text	mail				
	Echo Test Number Echo Test Text	1 echo				
	Refresh Time	60	second(s)			
	Enable Registration					
	Enable G.729AB					
			Apply			
			onfiguration	ו		
Item	explanatio					
Status	Shows if the phone has been registered the IAX2 server or not.					
Server Address	Input your IAX2 server address.					
Server Port	Set your IAX2 server port, the default is 4569.					
Account	Input your IAX2 register account name.					
Password	Input your IAX2 register password.					
Phone Number	Input your assigned phone number (usually it is same you're your 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.					
	Set echo test number. If IAX2 server supports echo test, and echo test number is nor					
Echo Test Number	numeric, system could set an echo test number to replace the echo test text. So use					
	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 ech	o test text's nar	ne.			
Refresh Time	Set expire	time of IAX2 ser	ver register, y	ou can set it betv	veen 60 and 3600) seconds.
Enable Registration	Start to register the IAX2 server or not by selecting it or not.					
Enable G.729AB	Enable or c	lisable code G.7	29 by selectin	g it or not.		

8.2.3.3 Stun

In this web page, you can configure SIP STUN.

STUN: By STUN server, the 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.

Want to receive data from 5060 port Priv Gateway	Send request to Stun server from 5060 port Ate Network What's my ip ? NAT NAT STUN Server			
WE FOCUS.WE DELIVER	SIP IAX2 STUN DIAL PEER MCAST			
BASIC NETWORK ►VOIP PHONE FUNCTION KEY MAINTENANCE SECURITY LOGOUT	Simple Traversal of UDP through NATs (STUN) Settings STUN NAT Traversal FALSE Server Address			
	SIP Line Using STUN			
Item	explanation			
	IDP through NATs (STUN) Settings			
STUN NAT Traversal	Shows STUN NAT Transverse estimation, true means STUN can penetrate NAT, while False means not.			
Server Address	Set your SIP STUN Server IP address.			
Server Port	Set your SIP STUN Server Port.			
Blinding Period(s)	Set STUN blinding period(s). If NAT server finds that a NAT mapping is idle after time out, it will release the mapping and the system need send a STUN packet to keep the mapping effective and alive.			
SIP Waiting Time	Specify the sip wait stun time; you can input the time depended on your network condition.			
Local SIP Port	Configuration the local SIP Port, the default value is5060(this port immediate effect ,modify, SIP call will use the modified port communication)			
Sip Line Using STUN				

SIP Line Using STUN		
SIP 1		
Use STUN		
	Apply	

Choose line to set info about SIP, There are 2 lines to choose.

Use STUN

Notice: SIP STUN is used to realize SIP penetration to NAT. If your phone configures STUN Server IP and Port (default is 3478), and enable SIP Stun, you can use the ordinary SIP Server to realize penetration to NAT.

Enable/Disable SIP STUN.

8.2.3.4 DIAL PEER

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.

Dial	Peer Table						
	Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
	133	192.168.1.108	5060	SIP	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 1 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 162213123 to realize your long distance call after you make this setting.

Dial Peer Table

Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
1T	0.0.0.0	5060	SIP	rep:010	no suffix	1

To save the memory and avoid abundant input of user, add the following functions:

Dial Peer Table

Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
1T	0.0.0	5060	SIP	rep:010	no suffix	1
18xxxxxxxx	0.0.0.0	5060	SIP	add:0	no suffix	0
13(5-9)xxxxxxxx	0.0.0.0	5060	SIP	add:0	no suffix	0

1. x matches any single digit, for example:

If user makes the above configuration, after user dials 11 digit numbers started with 13, the phone will send out 0 plus the dialed numbers automatically.

2. [] Specifies a range that will match digit. It may be a range, a list of ranges separated by commas, or a list of digits.

If user makes the above configuration, after user dials 11 digit numbers started with from 135 to 139, the phone will send out 0 plus the dialed numbers automatically.

By this phone, you can realize dialing out via different lines without switch in web interface .

WE FOCUS.WE DELIVER	SIP	IAX2	STUN		DIAL PEER	MCAST
	511	THUE	510		DIREFEER	MCHOT
SIC WORK						
IP	Dial Peer Table					
E	Number	Destination	Port Mode	Alias	Suffix	Deleted Length
	1T	0.0.0.0	5060 SIP	rep:010	no suffix	1
ENANCE	18xxxxxxxxx 13(5-9)xxxxxxxx	0.0.0.0	5060 SIP 5060 SIP	add:0 add:0	no suffix no suffix	0 0
JT						
	Add Dial Peer Phone Number					
	Destination(Optional)					
	Port(Optional)					
	Alias(Optional) Call Mode	SIP N	¥			
	Suffix(Optional)					
	Deleted Length(Optiona	l)	Apply	1		
			- apply			
	Dial Peer Option		Delete	odify		
		DIAL PEER				
	explanation	on				
ne number	There are	two types o	of matching	condit	ions: one i	s full matchi
	blank, and phone nu	d then you Imber is ma	matching, y need dial t apped. In th then dial th	he ph e pret	one numb fix matchi	er to realizen ng, you nee
stination	blank, and phone nu prefix nur what your Set Destin to peer ca this dial ru 0.0.0.3	d then you imber is ma nber and T; r prefix num nation addre ill, please in ule on SIP2	need dial t apped. In th then dial th ber is mapp ess. This is op put destinat line, you nee	he phi e pref ed. Thi otiona ion IP ed inp	one numb fix matchi ix and a p e prefix nu l configura address or ut 255.255	er to realizen ng, you nee hone numbe mber suppo tion item. If domain nar
tination t	blank, and phone nu prefix nur what your Set Destin to peer ca this dial ru 0.0.0.3 Set the Sig	d then you imber is ma nber and T; r prefix num nation addre ill, please inp ule on SIP2 gnal port, th	need dial t apped. In th then dial th ber is mapp ess. This is of put destinat line, you nee e default is t	he phi e pref ed. The otiona ion IP ed inp	one numb fix matchi ix and a p e prefix nu I configura address or ut 255.255 or SIP.	er to realizen ng, you nee hone number mber suppo ition item. If domain nar 5.255.255 or
nation	blank, and phone nu prefix nur what your Set Destin to peer ca this dial ru 0.0.0.3 Set the Sig Set alias.	d then you imber is ma nber and T; r prefix num nation addre ill, please inp ule on SIP2 gnal port, th	need dial t apped. In th then dial th ber is mapp ess. This is op put destinat line, you nee	he phi e pref ed. The otiona ion IP ed inp	one numb fix matchi ix and a p e prefix nu I configura address or ut 255.255 or SIP.	er to realizen ng, you nee hone number mber suppo ition item. If domain nar 5.255.255 or
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e: There are f l: xxx, it mean xxx, it means that	blank, and phone nu prefix nur what your Set Destin to peer ca this dial ru 0.0.0.3 Set the Sig Set alias. four types of aliases. ns that you need dia s that xxx will replace	d then you imber is ma nber and T; r prefix num nation addre ill, please inp ule on SIP2 gnal port, th This is option I xxx in from e some phon the number	need dial t apped. In the then dial the ber is mapp ess. This is op put destinat line, you need to default is so nal configura t of phone no ne number.	he phi e pref ed. Thi otiona ion IP ed inp 5060 fi ation in	one numb fix matchi ix and a p e prefix nu I configura address or ut 255.255 or SIP. tem. If you r, which w nted.	er to realizen ng, you nee hone number mber suppo ition item. If domain nar 5.255.255 or don't set Al ill reduce dia
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: There are f : xxx, it means xxx, it means It means th : It means th	blank, and phone nu prefix nur what your Set Destin to peer ca this dial ru 0.0.0.3 Set the Sig Set alias. four types of aliases. ns that you need dia s that xxx will replace at phone will delete at phone will replace	d then you imber is ma nber and T; r prefix num nation addre ill, please inp ule on SIP2 I gnal port, th This is option I xxx in from e some phon the number e the number	need dial t apped. In the then dial the ber is mapp ess. This is of put destinat line, you need to f phone need to figura t of phone need to figura t of phone need to figura with length er with length er with length	he phe e pref ed. The otiona ion IP ed inp 5060 fr ation if ation if ation and cation	one numb fix matchi ix and a p e prefix nu l configura address or ut 255.255 or SIP. tem. If you r, which w nted. number a to know n	er to realize ng, you nee hone numbe mber suppo tion item. If domain nar 5.255.255 or don't set Al ill reduce dia
There are f xxx, it means xx, it means th means th refer to th s dial rule.	blank, and phone nu prefix nur what your Set Destin to peer ca this dial ru 0.0.0.3 Set the Sig Set alias. Tour types of aliases. Ins that you need dia s that xxx will replace at phone will delete at phone will delete stat phone will replace at phone will replace select diff	d then you imber is ma nber and T; r prefix num nation addre ill, please inp ule on SIP2 gnal port, th This is option I xxx in from e some phon the number e the number s of differen	need dial t apped. In the then dial the ber is mapp ess. This is of put destinat line, you need to default is nal configura t of phone no ne number. r with length er with length at alias appli	he phi e pref ed. Thi otiona ion IP ed inp 5060 fi ation if umbe appoi th and cation P or IA	one numb fix matchi ix and a p e prefix nu l configura address or ut 255.255 or SIP. tem. If you r, which w nted. number a to know n	er to realizender to realizender, you nee hone number mber suppo- tion item. If domain nar 5.255.255 or don't set Al ill reduce dia ppointed.
There are f xxx, it means xx, it means th means that refer to th s dial rule. and	blank, and phone nu prefix nur what your Set Destin to peer ca this dial ru 0.0.0.3 Set the Sig Set alias. four types of aliases. ns that you need dia s that xxx will replace at phone will delete at phone will replace e following example Select diff Set suffix,	d then you imber is ma nber and T; r prefix num nation addre ill, please inp ule on SIP2 I gnal port, th This is option I xxx in from e some phon the number e the number s of differen	need dial t apped. In th then dial th ber is mapp ess. This is of put destinat line, you nee e default is nal configura t of phone n ne number. with length er with length er with length protocol, SI pnal config it	he phe e pref ed. The otiona ion IP ed inp 5060 fr ation if ation if ation and cation P or IA em. It	one numb fix matchi ix and a p e prefix nu l configura address or ut 255.255 or SIP. tem. If you r, which w nted. number a to know n	er to realize ng, you nee hone numbe mber suppo tion item. If domain nar 5.255.255 or don't set Al ill reduce dia ppointed. nore how to
There are f xxx, it means t means that t means th refer to th dial rule.	blank, and phone nu prefix nur what your Set Destin to peer ca this dial ru 0.0.0.3 Set the Sig Set alias. Tour types of aliases. Ins that you need dia s that xxx will replace at phone will delete at phone will delete at phone will replace select diff Set suffix, Set delete	d then you imber is ma nber and T; r prefix num nation addre ill, please inp ule on SIP2 gnal port, th This is option the some phon the number e the number e the number e the number if a sof different ferent signal this is option e length. This	need dial t apped. In the then dial the ber is mapp ess. This is of put destinat line, you need to default is nal configura t of phone no ne number. r with length er with length at alias appli	he pho e pref ed. Tho otiona ion IP ed inp 5060 fo ation if ation if ation for ation for ation for ation for th and cation P or IA em. It config	one numb fix matchi ix and a p e prefix nu l configura address or ut 255.255 or SIP. tem. If you r, which w nted. number a to know n X2 will show item. For	er to realize ng, you nee hone numbe <u>mber suppo</u> tion item. If domain nar 5.255.255 or don't set Al ill reduce dia ppointed. nore how to no suffix if yo example: if t

examples of different alias application to know how to set delete length.

Examples of Different Alias Application

Set by web		explanation	example
Phone Number Destination (optional) Port(optional) Alias(optional) Call Mode Suffix(optional) Delete Length (optional)	9T 255.255.255 del SIP • 1	You need set phone number, Destination, Alias and Delete Length. Phone number is XXXT; Destination is 255.255.255.255 (0.0.0.2) and Alias is del. This means any phone No. that starts with your set phone number will be sent via SIP2 line after the first several digits of your dialed phone number are deleted according to delete length.	If you dial "93333", the SIP2 server will receive "3333".
Phone Number Destination (optional) Port(optional) Alias(optional) Call Mode Suffix(optional) Delete Length (optional)	2 all:33334444 SIP •	This setting will realize speed dial function, after you dialing the numeric key "2", the number after all will be sent out.	When you dial "2", the SIP1 server will receive 33334444.
Phone Number Destination (optional) Port(optional) Alias(optional) Call Mode Suffix(optional) Delete Length (optional)	8T add:0755 SIP -	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 Destination (optional) Port(optional) Alias(optional) Call Mode Suffix(optional) Delete Length (optional)	010T rep:0086 SIP • 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 Destination (optional) Port(optional) Alas(optional) Call Mode Suffix(optional) Delete Length (optional)	147	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".

8.2.3.5 MCAST

ZYCOD WE FOCUS WE DELIVER					
	SIP	IAX2	STUN	DIAL PEER	MCAST
BASIC NETWORK VOIP PHONE FUNCTION KEY MAINTENANCE SECURITY LOGOUT	MCAST Settings Priority Enable Page Prio Index/Pric 1 2 3 4 5		e Host:po		
	6 7 8 9 10				

Use the multicast function to send notice to every member of the multicast is simple and easy. By setting the multicast key on your phone, you can send multicast RTP flow to the pre-configured multicast address. By listening multicast address is configured on the phone, listen and play the multicast address to send the RTP stream.

Send Multicast Settings

On the phone web page, function key-function key, set a function key as shown below.

DSS Key 8 Multicast 💽 239.1.1.1:1366	AUTO 🚽 G.71	L1A 🔹	
--------------------------------------	-------------	-------	--

Value format IP: Port, the IP address of multicast is range from 224.0.0.0 to 239.255.255.255, port is greater than 1024

If multicast codec is G722, the LCD screen will displays "HD", which means the phone is sending high-definition voice stream

Operate steps:

1、 When the phone is idle, press multicast key

Multicast RTP stream is sent to pre-configured multicast address (IP: Port). The phone which listens to multicast address in the local network can receive the RTP stream. Multicast function key LED lights yellow.

LCD screen displays the following:



- 2、 Press the hold key to hold the current multicast session
- 3. Press the end key again or multicast function key, multicast session can be stopped

Notice: RTP stream is one side that is from a sender to a receiver. When the phone initiates a multicast RTP session in a call, the current call is on hold.

Receive Multicast Settings

You can set up the phone monitoring 10 different multicast addresses to receive these multicast RTP stream. You have two methods to receive RTP stream of multicast that can be set up through the web page: Enable priorities of normal calls and Enable page Priority:

Enable priorities of normal call by select it, if the incoming RTP stream priority of multicast lower than the priority of current for normal calls, the phone will ignore the RTP stream of multicast. If the incoming RTP stream priority of multicast higher than the priority of current for normal calls, the phone will receive the RTP stream of multicast, and hold the current call. Disabled priorities of normal call by select disable, the phone will ignore all local networks RTP stream

of multicast.

Options as follows:

1-10: the priority defined for normal calls, 1 the highest level, 10 the lowest level Disabled: Ignore all RTP stream of multicast

Enable Page Priority

Page priority determines the phone how to handle the newly received multicast RTP stream when in a multicast session. Enabled page priority, the phone will automatically ignore the low priority multicast RTP stream and receive the high priority multicast RTP stream and hold the current multicast session; If not enabled, the phone will automatically ignore all incoming multicast RTP stream.

Web page is set as follows:

MCAST Settings

2		
Priority	1	
Enable Page Priority		
Index/Priority	Name	Host:port
1	SS	239.1.1.1:1366
2	ee	239.1.1.1:1367

Now multicast "ss" has higher priority than multicast "ee", the highest priority is for normal calls **Notice:** When a multicast session begins, multicast sender and receiver will beep

8.2.4 PHONE

8.2.4.1 AUDIO

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

	AUDIO	FEATURE	DIAL PLAN	CONTACT	REMOTE CONTACT	WEB DIAL
BASIC						
NETWORK						
VOIP	Audio Settings					
▶ PHONE	First Codec	G.71	1A 🗸	Second Codec	G.711U	v
FUNCTION KEY	Third Codec	G.72		Fourth Codec	G.729AB	v
MAINTENANCE	Fifth Codec	None		Sixth Codec	None	~
SECURITY	Onhook Time	200	millisecond(s)	Tone Standard	China	~
LOGOUT	Handset Volume	5	(1~9)	Default Ring Typ	e Type 1 📉	/
	Speakerphone Vo	olume 5	(1~9)	Headset Ring Vo	lume 5	(1~9)
	Headset Volume	5	(1~9)	Speakerphone R Volume	ing 5	(1~9)
	G.729AB Payload	Length 20m	s 💙	G.723.1 Bit Rate	6.3kb/s	*
	G.722 Timestamp	os 160/	20ms 💌	DTMF Payload Ty	/pe 101	(96~127)
	Enable VAD			Enable MWI Tone	e 🔽	

	AUDIO Configuration
Item	explanation
First Codec	The first preferential DSP codec: G.711A/u, G.722, G.723.1,726-32 G.729AB,None.
Second Codec	The second preferential DSP codec: G.711A/u, G.722, G.723.1,726-32
	G.729AB,None.
Third Codec	The third preferential DSP codec: G.711A/u, G.722, G.723.1,726-32 G.729AB,None.
Fourth Codec	The forth preferential DSP codec: G.711A/u, G.722, G.723.1,726-32 G.729AB,None.
Fifth Codec	The fifth preferential DSP codec: G.711A/u, G.722, G.723.1,726-32 G.729AB,None.
Sixth codec	The sixth preferential DSP codec: G.711A/u, G.722, G.723.1,726-32 G.729AB,None.
Onhook Time	Specify the least reflection time of Hand down, the default is 200ms.
Default Ring Type	Set up the ring by default.
Handset Output Volume	Specify Output (receiver) Volume grade.
Speakerphone volume	Specify Speakerphone Volume grade.
G729AB Payload Length	Set G729 Payload Length.
Tone Standard	Select Tone Standard.
G722 Timestamps	160/20ms or 320/20ms is available.
G723.1 Bit Rate	5.3 kb/s or 6.3 kb/s is available.
Enable VAD	Select it or not to enable or disable VAD. If enable VAD, G729 Payload length could
	not be set over 20ms.
DTMF Payload Type	Set DTMF Payload Type.

8.2.4.2 FEATURE

In this web page, you can configure Hotline, Call Transfer, Call Waiting, 3 Ways Call, Black List, White list Limit List and so on.

	AUDIO	FEATURE	DIAL PLAN	CONTACT	REMOTE CONTACT	WEB DIAL
IC						
WORK						
P	Feature Settings				_	
IONE	DND (Do Not Dist		1	Ban Outgoing		
ICTION KEY	Enable Call Transf			Enable Call Waiting	\checkmark	
NTENANCE	Semi-Attended Tra	insfer 🗸 🗸		Enable 3-way Conferen	ce 🔽	
URITY	Enable Auto Hand	down 🗸		Accept Any Call		
юлт	Auto Handdown T	ime 3	second(s)	Enable Call Completion		
	Enable Auto Redia	a 📃		Enable Pre-Dial	~	
	Auto Redial Interv		(1~180)second(s) Enable Silent Mode		
	Auto Redial Times	10	(1~100)	Hide DTMF	Disabled 💙	
	Auto Headset			Ring From Headset		
	Enable Intercom	~		Enable Intercom Mute		
	Enable Intercom T	ione 🖌		Enable Intercom Barge	 Image: A start of the start of	
	P2P IP Prefix			DND Return Code	480(Temporarily N	
	Turn Off Power Lig			Busy Return Code	486(Busy Here)	*
	Emergency Call N			Reject Return Code	603(Decline)	×
	Enable Password I			Active URI Limit IP		
	Password Dial Pre	fix 0		Push XML Server		
	Password Length		(0~31)	Enable Call Waiting Tone	<u> </u>	
	Enable Call Histor			Enable Multi Line		
	Enable Default Lin			Enable Auto Switch Line	 Image: A start of the start of	
	Allow IP Call					
	Play Talking DTMF	Tone 🗸		Play Dialing DTMF Tone		
				Apply		
ock Out Settings						
			Block Out			
		Add			Delete	
		Auu			Delete	
Action UDL Cotting	-					
Action URL Setting						
Setup Complete	d					
Registration Suc	cess					
Registration Dis-	abled					
Registration Fail	ed					
Off Hook						
OILHOOK						
On Hook						
On Hook Incoming Call						
On Hook Incoming Call Outgoing Call						
On Hook Incoming Call						
On Hook Incoming Call Outgoing Call						
On Hook Incoming Call Outgoing Call Call Established						
On Hook Incoming Call Outgoing Call Call Established Call Terminated						
On Hook Incoming Call Outgoing Call Call Established Call Terminated DND Enabled DND Disabled						
On Hook Incoming Call Outgoing Call Call Established Call Terminated DND Enabled DND Disabled Always Forward	Enabled					
On Hook Incoming Call Outgoing Call Call Established Call Terminated DND Enabled DND Disabled Always Forward Always Forward	Enabled Disabled					
On Hook Incoming Call Outgoing Call Call Established Call Terminated DND Enabled DND Disabled Always Forward	Enabled Disabled nabled					

Transfer Call Blind Transfer Call

Attended Transfer Call			
Hold			
Resume			
Mute			
Unmute			
Missed Call			
IP Changed			
Idle To Busy			
Busy To Idle			
		Apply	
Block Out Settings			
		Block Out	
	Add	~	Delete

	FEATURE
Item	explanation
Do Not Disturb	Select DND, the phone will reject any incoming call, the callers will be reminded by busy, but
	any outgoing call from the phone will work well.
Ban Outgoing	If you select Ban Outgoing to enable it, and you cannot dial out any number.
Enable Call	Enable Call Transfer by selecting it.
Transfer	
Semi-Attended	Enable Semi-Attended Transfer by selecting it.
Transfer	
Enable Auto	Enable Auto Redial, the phone reminds you whether redial when the caller is busy or rejects.
Redial	
Auto Redial	Specify the Auto Redial interval.
interval	
Auto Redial	Specify the Auto Redial interval.
Times	
Enable Call	Enable Call Completion by selecting it.
Completion	
Enable Pre-Dial	Disable this feature, in standby interface next number, will realize the number rules "send
	out over the time";Enable the feature ,then the number will not be send out over the time.
Enable Call	Enable Call Waiting by selecting it. Then the phone reminds whether redial, when the caller is
Waiting	busy or rejects. if it's ok and the phone finds out that the caller is idle by sip message, it will
	reminds whether redial.
Enable 3-way	Enable 3-way conference by selecting it.
Conference	
Enable Call	Disable this function ,you will not hear the tone "beep" when there have multiple incoming
Waiting Tone	calls
Accept Any Call	If select it, the phone will accept the call even if the called number doesn't belong to the
	phone.
Enable Auto	The phone will hang up and return to the idle automatically at hands-free mode.
Hand down	
Auto Handdown	Specify Auto Hand down Time, the phone will hang up and return to the idle automatically

Time	after Auto Hand down Time at hands-free mode, and play dial tone Auto Hand down Time at handset mode.
Ring From	Enable Ring From Handset by selecting it, the phone plays ring tone from handset.
Headset	
Enable Intercom	Enable Intercom Mode by selecting it.
Enable Intercom	Enable mute mode during the intercom call.
Mute	
Enable Intercom	If the incoming call is intercom call, the phone plays the intercom tone.
Tone	
Enable Intercom	Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call.
Barge	If the current call is intercom call, the phone will reject the second intercom call.
Enable Silent	Enable Silent Mode, the phone light will blink in red to remind that there is a missed call
Mode	instead of playing ring tone.
Turn Off Power	Turn Off the Power Light.
Light	
Emergency Call	Specify the Emergency Call Number. Despite the keyboard is locked, you can dial the
Number	emergency call number.
Enable Password	If we dial the configured passwords prefix, the following N numbers will be hidden and
Dial	instead of *. N=passwords length. E.g.: If the passwords prefix is 3, and passwords length is
	2 numbers; when you input 34567, the phone will display $3^{**}67$.
Password Length	Specify the Password length.
DND Return	Specify DND Return code.
Code	
Busy Return	Specify Busy Return Code.
Code	
Reject Return	Specify Reject Return Code.
Code	
Hide DTMF	Specify the hide DTMF mode.
Push XML Server	Specify the Push XML Server, when phone receives request, it will determine whether to
	display corresponding content on the phone which sent by the specified server or not.
	Set Prefix in peer to peer IP call. For example: what you want to dial is 192.168.1.119, If you
P2P IP Prefix	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.
Active URI Limit	Specify the server IP that remote control phone for corresponding operation.
IP	
Action URL Setting	gs
Action URL	Specify the Action URL that Record the operation of phone; send this corresponding
Settings	information to server, url: http://InternalServer /FileName.xml? (Internal Server is server IP.
	Filename is name of xml that contains the action message).
Block Out Setting	5
	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 with prefix 001 to be
	dialed out, you need input 001 in the blank of limit list, and then you cannot dial out any
	phone number whose prefix is 001.

Block out	Wildcard x means matching any single digit. For example, 4xxx expresses any number with				
	prefix 4 which length is 4 will be forbidden to be dialed out; 6 expresses any number with				
	prefix 6 will be forbidden to be dialed out.				
	Notice: Black List and Limit List can record at most10 items respectively.				
Notice: Black List and Limit List can record at most 10 items respectively.					

8.2.4.3 DIAL PLAN

This system supports 7 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) Press # to Do Blind Transfer: input the number you want to transfer to then press"#" you can transfer the current call to the number.

5) Blind Transfer on On-Hook : input the number you want to transfer to then hang up handle or press speaker, you can transfer the current call to the number.

6) Attend Transfer on On-Hook: hang up handle or press speaker you can realize the blind transfer function 7)Press the DSS key Blind: Press DSS key, the current call will turn out blind.

8) 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.

In order to maintain the end-user pbx secondary dial for dialing call mode. When requested to enter a phone number prefix, the system according to the rules in the closing number configuration rules, re-issue the dial tone, the user continues to enter the number, after the end of the closing number, the phone number will be prefixed and analog secondary dial tone is sent to the back of the numbers together server. For example:

In the list of rules in the configuration of the closing number 9, xxxxxxx then when the user dials 9, the system to re-play the dial tone, dial the number the user to continue; dial-up is complete, the phone is actually sent containing 9 9 numbers.

VE FOCUSIWE DELIVER						
	AUDIO	FEATURE	DIAL PLAN	CONTACT	REMOTE CONTACT	WEB DIAL
BASIC NETWORK VOIP > PHONE FUNCTION KEY MAINTENANCE SECURITY LOGOUT		Press "#" to Send Dial Fixed Length 11 Send after 5 Press # to Do Blind Ti Blind Transfer on Onh Attended Transfer on Press DSS Key to Do	second ransfer ook Onhook	to Send (s)(3~30)		
	Dial Plan Table		Add	Plans:	Delete	

DIAL PLAN Configuration						
Item	em Explanation					
Basic Setting						
Press "#" to Send	Set Enable/Disable the phone ended with "#" dial.					
Dial Fixed Length	Specify the Fixed Length of phone ending with.					
Press # to Do Blind	Enable Blind Transfer On Hook, when executing Blind Transfer End with #, press #					
Transfer	after inputting the number that you want to transfer, the phone will transfer the					
	current call to the third party.					
Blind Transfer on Onhook	Enable Blind Transfer on Onhook, when executing Blind Transfer, hang up after					
	inputting the number that you want to transfer, the phone will transfer the					
	current call to the third party.					
Attend Transfer on	Enable Attend Transfer on Onhook, when executing Attended Transfer, hang up					
Onhook	after the third party answers, the phone will transfer the current call to the third					
	party.					
Dial Plan Table						
	Plans:					
	Add Delete					

Below is user-defined digital map rule:

[] Specifies a range that will match digit. Maybe a range, a list of ranges separated by commas, or a list of digits. * 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.

Dial Plan Table				
		Plans:		
		"[1-8]×××"		
		"911"		
		"9xxxxxx"		
		"9911×.T4"		
		"99T4"		
	Add	[1-8]××× 💟	Delete	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.

8.2.4.4 CONTACT

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

WE FOCUS.WE DELIVER	AUDIO	FEATURE		CONTACT	REMOTE CONTACT		
	AUDIO	FEATURE	DIAL PLAN	CONTACT	REMOTE CONTACT	WEB DIAL	
ASIC							
DIP	Phonebook Table						
HONE	Group All	*				Hangup	
INCTION KEY	Index Name	Office Number				Group	
ECURITY	Page: 🔽 📘	Pre Next	friend 🔽 🛛 Add	Add to Bla	acklist Delete	Delete All	
DGOUT	Add Contact						
	Name Office Number		Ring Typ		Default 💙		
	Mobile Number		Line Line		Auto 💌		
	Other Number	Us as la sta d	Line		Auto 💌		
	Group Setting	Unselected friend	<u>^</u>	S	elected		
		home work business					
		classmate			~		
		Add	Modif		Clear		
Import Contact List							
Select File:		Browse	e (*.xml,*.vcf,*.	.csv) Update)		
			_				
Export Contact List							
	Export XML	Expo	ort CSV	Export VCF			
Cueur Onting							
Group Option Group	friend 💙						
Name	friend						
Ring Type	Default 💌						
	Add Mod	ify Delete	Delete All				
Blacklist Settings							
Blacklist Item	*			elete Delet	e All		
Туре	Number 🔽		_				
Value				Add			
Line	Auto 💌		Blacklist				
			DIACKIISU				
			Contact	:			
em	E	xplanation					
honebook Table							
ame	S	hows the na	ame correspor	iding to the j	phone number		
honebook Table							
Group All	*					Hangup	
Index Name	Office Number	Mobile Nu	imber Oth	er Number	Ring Type	Group	
Page: 🔽 Pre	Next frier	nd 🔽 🗛	dd 🚺 🔒 🛛	to Blacklist	Delete De	lete All	Chours th
							Shows th
etail of current photogenetics of the second s							

Add Contact List	
Name	Specify the name corresponding to the phone number.
Office Number	Specify the office number.
Mobile Number	Specify the mobile number.
Other Number	Specify the other number.
Ring Type	Specify the ring type for the phone number.
Line	Specify the sip line for the each number.
Group setting	Select the group from the unselected group to selected list for the contact; you
	can select many groups for the contact.

Notice: the add button for adding a new contact, the modify button for modifying the added contact, the clear all button for clear all input information of the contact.

Group Option					
Group	Select the added groups then modify or delete and so on.				
Name	Input the name of the group, then click the add button, you can add a new				
	group.				
Ring Type	Specify the ring type for the group as adding a new group.				
Blacklist Settings					
Туре	Select the blacklist type, you can select number or prefix of number.				
Value	Input number or prefix of number.				
Line	Select the sip line.				

Notice: the add button for adding a new blacklist, the delete button for deleting one item, the delete all button for deleting all items.

If user does not want to answer some phone calls, add these phone numbers to the Black List, and these calls will be rejected x and are wildcard x means matching any single digit. For example, 4xxx expresses any number with prefix 4 which length is 4 will be forbidden to be responded.

DOT (.) means matching any arbitrary number digit. For example, 6. expresses any number with prefix 6 will be forbidden to be responded.

If user wants to allow a number or a series of number incoming, he may add the number(s) to the list as the white list rule. The configuration rule is -number, for example, -123456, or -1234xx.

Blacklist -4119

Means any incoming number is forbidden except for 4119 Notice: End with DOT (.) when set up the white list.

8.2.4.5 REMOTE CONTACT

ZYCOD WE FOCUS.WE DELIVER								
	AUDIO	FEATURE	DIAL PLAN	CONTAC	T REMOTE CON	TACT WEB DIAL		
BASIC	Remote Phoneb	ook Settings						
NETWORK	Index Ph	ionebook Name	Server URL	SIP Line	User	Password		
VOIP	1			Auto 🔽				
▶ PHONE	2			Auto 🔽				
FUNCTION KEY	3			Auto 🔽				
MAINTENANCE	4			Auto 🔽				
SECURITY								
LOGOUT				Apply				
	LDAP Settings LDAP	LDAP 1						
	Display Title	Г] Ve	ersion	Version 3 💌		
	Server Addr	ess		Se	erver Port	389		
	Authenticatio	n [None 💌	Lir	ne	AUTO 💙		
	Username	[Pa	issword			
	Search Base			En	able Calling Search			
	Telephone	t	telephoneNumber	Mo	obile	mobile		
	Other	ł	home	_ Di	splay Name	cn		
			Г	Apply				

You need to match a XML Phonebook address and you can directly access to the corresponding remote phonebook on the phone.

For example: Set the Phonebook Name as ZYCOO, Server URL is

tftp://192.168.1.3/admin/phonebook/index.xml.

Or Set the Phonebook Name as Idap, Server URL is Idap://192.168.1.3/dc=winline,dc=com.

Remote Phonebook Settings			
Phonebook Name	Custom the phonebook name displayed on the phone.		
Server URL	Specify the server URL of the remote phonebook.		
SIP Line	Specify the sip line for the remote phonebook.		
Authentication	Specify the authentication mode for remote phonebook.		
User/password	Input the authentication username and password.		

8.2.4.6 WEB DIAL

WE FOCUS, WE DELIVER						
	AUDIO	FEATURE	DIAL PLAN	CONTACT	REMOTE CONTACT	WEB DIAL
BASIC NETWORK VOIP	Web Dial Settings	;				
PHONE FUNCTION KEY MAINTENANCE SECURITY LOGOUT	Dial Number Line Selectior			~	Dial	Hangup

You can make a call through the WEB DIAL, enter the Dial Number then press Dial, if you want to finish the talk, press Hang-up.

8.2.5 FUNCTION KEY

8.2.5.1 FUNCTION KEY

	FUN	CTION KEY	E	XT KEY		SOFTKEY	
C VORK NE ICTION KEY TENANCE JRITY	Screen Config Contrast Backlight ⁻		5 (1~9) 30 (Арріу	Enable Backligi	iht	v
DUT	Line Key Settir	igs					
	Line Key	Туре	Value	Line	Subtype	Pickup Nur	nbe
	Line Key	Line 💌		SIP1 💙	None	~	
	Line Key 2			SIP2 💌	None	*	
	Line Key 3			SIP3 💌	None	~	
	Line Key 4	Line 💌		SIP4 💌	None	¥	
Function Key S	Settings Type	Value	Line		Subtype	Pickup Numb	e
DSS Key	Туре	Value		_		-	e
Key	-	Value	Line AUTO AUTO	✓ Releas			e
Key DSS Key 1 DSS Key 2 DSS Key	Type Key Event 🗸		AUTO	✓ Releas ✓ MWI	e 🗸)e1
Key DSS Key 1 DSS Key 2 DSS Key 3 DSS Key	Type Key Event 🗸 Key Event 🗸		AUTO AUTO	 Releas MWI Heads 	e 🗸) (2)
Key DSS Key 1 DSS Key 2 DSS Key 3	Type Key Event V Key Event V Key Event V		AUTO AUTO AUTO	 Releas MWI Heads None 	e V et V) e 1
Key DSS Key 1 DSS Key 3 DSS Key 4 DSS Key	Type Key Event V Key Event V Key Event V None V		АUTO АUTO АUTO АUTO	 Releas MWI Heads None None 	e V et V		
Key DSS Key 1 DSS Key 2 DSS Key 4 DSS Key 5 DSS Key	Type Key Event V Key Event V Key Event V None V		АUTO АUTO АUTO АUTO АUTO	 Release MWI Headse None None None None 	e V et V		
Key DSS Key 1 DSS Key 2 DSS Key 4 DSS Key 5 DSS Key 6 DSS Key	Type Key Event V Key Event V Key Event V None V None V		AUTO AUTO AUTO AUTO AUTO AUTO	 Releas MWI Headson None None None None None 	e V et V		
Key DSS Key 2 DSS Key 3 DSS Key 4 DSS Key 5 DSS Key 7 DSS Key 7	Type Key Event V Key Event V Key Event V None V None V None V		АUTO АUTO АUTO АUTO АUTO АUTO АUTO	 Releas MWI Headson None None None None None 	et V		
Key DSS Key 2 DSS Key 3 DSS Key 4 DSS Key 6 DSS Key 7 DSS Key	Type Key Event V Key Event V None V None V None V None V	Image: second	AUTO AUTO AUTO AUTO AUTO AUTO AUTO AUTO	 Releas MWI Headson None None None None None None None 	e V		

Ney	Deskt	op	Diale	ir -	Canin	'y	Desktop Long	y presseu
Up	Missed	~	Prev. Line	*	Prev. Call	*	Status	*
Down	Call Forward	*	Next Line	*	Next Call	~	None	*
Left	Memo	*	None	*	Volume Down	*	None	*
Right	Note	~	None	*	Note	*	Speed Dial	~
ок	Menu	*	None	~	None	*	None	*
			P	Apply				

Function Key			
Item	Explanation		
Contrast	Set contrast of screen.		
Enable Backlight	Set enable/disable backlight.		
Line Key Settings			

Line Key Settings

Line: select Auto, SIP1, SIP2 or IAX2 in function key type. After you set it, you pick up handset or hands-free, press this function key, and then you can use the corresponding SIP line.

unction Key Settings	
key	Show the function key's serial number.
Туре	Memory Key: settings can be stored in key storage for each
	number, the standby or off-hook, select the function keys on the
	keyboard can call this number.
	Line, set the dial mode (Auto, SIP1, SIP2, IAX2).Key Event
	functions, monitor state.
	DTMF: In the call, send DTMF.
	URL: You can input remote book url.
Value	Set the type parameter values.
Line	Choose which lines to use this feature.
Subtype	Select the function parameters Key Event and Memory Event.
Pickup Number	Please input the pickup number When SubType is BLF or presence.

Notice:

Memory keys can be configured through the following: •

Speed Dial function, through the configuration of the key corresponding to the number of ways as shown below.

Key	Туре	Value	Line	Subtype	Pickup Number
DSS Key 1	Memory Key 🛛 💌	4111	SIP1 🔽	Speed Dial 🛛 👻	

User can press the F1 key to allocate this number by line1 line.

Intercom function, you can press this key in standby to automatically answer the call and make each other.

Кеу	Туре	Value	Line	Subtype	Pickup Number
DSS Key 1	Memory Key 🛛 🔽	4116	SIP1 🗸	Intercom 🔽	

User can be configured in accordance with push to talk function the way: 4116 was the other number; Then press the standby button and make it automatically answer the call 4116.

key can be configured through the following events: •

For example:

Key	Туре	Value	Line	Subtype	Pickup Number
DSS Key 1	Key Event 🛛 👻		SIP1 🗸 🗸	DND 💌	

8.2.5.2 EXT KEY

EXT KEY has the same usage with the Function key. "In" port connects the phone, "Out" port connects the next one, if there is only, you don't need for power supply, if there are more than one, you need supply 5V power for the first one, and use RJ-45 direct connector.

	FL	FUNCTION KEY		EXT KEY	s	OFTKEY
sic						
TWORK	Expansion	Module Selection				
IP	Expans	sion Module 1 🗸			Load	Not Connecte
ONE	Кеу	Туре	Value	Line	Subtype	Pickup Number
JNCTION KEY	F1	None 🗸	40,00		None V	
INTENANCE	F 2	None 💙		AUTO 💙	None	
CURITY	F 3	None 🗸		AUTO V	None 🗸	
GOUT	F 4	None 💙		AUTO V	None	
	F 5	None 🗸		AUTO 🗸	None	
	F 6	None 💙		AUTO 🗸	None 🗸	
	F 7	None 🗸		AUTO 🗸	None 🗸	
	F 8	None 💙		AUTO 🗸	None 🗸	
	F 9	None 🗸		AUTO 🗸	None 🗸	
	F 10	None 💙		AUTO 👽	None 🗸	
	F 11	None 🗸		AUTO 🗸	None 🗸	
	F 12	None 💌		AUTO 💌	None 💉	
	F 13	None 💌		AUTO 👽	None 🗸	
	F 14	None 💌		AUTO 💌	None 🗸	
	F 15	None 💌		AUTO 🗸	None 🗸	
	F 16	None 💌		AUTO 🗸	None 💉	
	F 17	None 💌		AUTO 🔽	None 👻	
	F 18	None 💙		AUTO 🗸	None 🗸	
	F 19	None 🔽		AUTO 👽	None 💌	
	F 20	None 💌		AUTO 😽	None 👻	
	F 21	None 💌		AUTO 👽	None 💉	
	F 22	None 💌		AUTO 👽	None 🗸	
	F 23	None 🔽		AUTO 🗸	None 🗸	
	F 24	None 🗸		AUTO 🗸	None 👻	
	F 25	None 🔽		AUTO 👽	None 💉	
	F 26	None 🗸		AUTO 👽	None 🗸	

8.2.5.3 SOFTKEY

WE FOCUS.WE DELIVER				
	FUNCTION KEY	EXT KEY		
BASIC				
NETWORK VOIP	Softkey Settings			
PHONE		Softkey Mode	More	~
FUNCTION KEY			Call Dialer	*
MAINTENANCE	Uns	elected Softkeys	Selected So	oftkevs
SECURITY	Non		Delete	
LOGOUT	⊂le Hist In Join Mis MW N≥× Out Pau Pho Pick	sed I t Line(Next) se nebook(Dir) up v Line(Prev.)	None Dial Exit	• •
		Appl	У	

SOFTKEY

You can configure different functions in different screens for every softkey.

8.2.6 Maintenance

8.2.6.1 Auto Provision Settings

ZYCOO endpoint supports PnP and DHCP and Phone Flash to obtain the parameters. The PnP and DHCP and Phone Flash are all deployed, endpoint will go by the following process to try to obtain the server address and other parameters, when it boots up:

DHCP option \rightarrow PnP server \rightarrow Phone Flash

	Auto Provision
Item	Explanation
Auto Update Setting	
Current Config Version	Show the current config file's version. If the version of the configuration
	downloaded is higher than the version of the running configurations, the auto
	provision would upgrade, or stop here. If the endpoints confirm the configuration
	by Digest method, the endpoints wouldn't upgrade configuration unless the
	configuration in the server is different with the running configuration.
Common Config Version	Show the common config file's version. If the configuration downloaded and the
	running configurations are the same, the auto provision would stop here. If the
	endpoints confirm the configuration by Digest method, the endpoints wouldn't
	upgrade configuration unless the configuration in the server is different with the
	running configuration.
CPE Serial Number	Show CPE Serial Number.
User	Specify FTP/HTTP/HTTPS server Username. System will use anonymous if username
	keep blank.
Password	Specify FTP/HTTP/HTTPS server Password.
Config Encrypt Key	Input the Encrypt Key, if the configuration file is encrypted.
Common Config Encrypt	Input the Common Encrypt Key, if the Common Configuration file is encrypted.
Кеу	
Save Autoprovision	Save the username and password authentication message of http/https/ftp and
Information	input ID message in the phone until the url in the server changes.
DHCP Option Setting	
DHCP Option Setting	Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option
	66 and DHCP option 43 to obtain the parameters. You could choose one method
	among them; the default is DHCP option disable.
Custom DHCP Option	A valid Custom DHCP Option is from 128 to 254. The Custom DHCP Option must be
	in accordance with the one defined in the DHCP server.
Plug and Play	
Enable PnP	Enable PnP by selecting it, than the phone will send SIP SUBSCRIBE messages to a
	multicast address when it boots up. Any SIP server understanding that message will
	reply with a SIP NOTIFY message containing the Auto Provisioning Server URL
	where the phones can request their configuration.
PnP Server	Specify the PnP Server.
PnP Port	Specify the PnP Server.

PnP Transport	Specify the PnP Transfer protocol.
PnP Interval	Specify the Interval time, unit is hour.
Phone Flash	
Server Address	Set FTP/TFTP/HTTP server IP address for auto update. The address can be IP
	address or Domain name with subdirectory.
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.
Protocol Type	Specify the Protocol type FTP, TFTP or HTTP.
Update Interval	Specify update interval time, unit is hour.
	Different update modes:
Update Mode	1. Disable: means no update.
	2. Update after reboot: means update after reboot.
	3. Update at time interval: means periodic update.

8.2.6.2 SYSLOG

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 cannot 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.

At present, the lowest level of debug information is info; debug level only can be displayed on telnet.

WE FOCUS.WE DELIVER								
	AUTO PROVISION		CONFIG	UPDATE	ACCESS	REBOOT		
BASIC NETWORK VOIP								
PHONE	Syslog Settings Server Addre	:55	0.0.0.0					
FUNCTION KEY MAINTENANCE SECURITY	Server Port MGR Log Lev		514 None 💙					
LOGOUT	SIP Log Leve IAX2 Log Lev Enable Syslo	el	None V None V					
	Watch Dog							
	Enable Watch	Dog		Apply				
	Web Capture			יייקאיי				
	Start		Stop					

	Syslog Configuration
Item	Explanation
Syslog Setting	
Server Address	Set Syslog server IP address.
Server Port	Set Syslog server port.
MGR Log Level	Set the level of MGR log.
SIP Log Level	Set the level of SIP log.
IAX2 Log Level	Set the level of IAX2 log.
Enable Syslog	Select it or not to enable or disable syslog.
Web Capture	
Start	Click the start button when you need capture the WAN packet stream of the phone,
	then open or save the file as the interface.
Stop	Click the end button to stop capturing the packet stream.

8.2.6.3 CONFIG

Config Setting				
Item	Explanation			
Save Configuration	You can save all changes of configurations. Click the Save button, all changes of			
	configuration will be saved, and be effective immediately.			
Backup Configuration	Right clicks on "Right click here" and select "Save Target As config File(.txt)" then			
	you will save the config file in .txt format, or select "Save Target As config File(.xml)"			
	then you will save the config file in .xml format.			
Clear Configuration	User can restore factory default and reboot the phone. If you login as Admin, the			
	phone will reset all configuration and restore factory default; If you login as Guest, the			
	phone will reset all configuration except for VoIP accounts (SIP1-2 and IAX2) and			
	version number.			

8.2.6.4 UPDATE

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

ZYCOD						
WE FOCUS.WE DELIVER	AUTO PROVISION	SYSLOG	CONFIG	UPDATE	ACCESS	REBOOT
BASIC						
NETWORK	Web Update					
VOIP	Selec	t File:	Browse	(*.z,*.txt,*.xml,*.a	au,*.vcf,*.csv,*.wav)	Update
PHONE FUNCTION KEY	TFTP/FTP Update			-		
▶ MAINTENANCE	Server Address					
SECURITY LOGOUT	User Password					
	File Name					Apply
	Type Protocol		Application Update	• •		
	Undete Long Sile					
	Update Logo File		Select File:		Browse Update	
	Delete Logo File					
			Select File:		elete	
	Logo File					
			Update			
Item	Explanation					
Web Update						
	Click the brows	e button, fi	nd out the cor	nfig file saved	before or pro	vided by manu
Web Update	download it to t	the phone of	directly, press	"Update" to s	ave. You can	also update do
	update file, logo	o picture, ri	ng, mmiset file	e by web.		
TFTP/FTP Update						
Server Address	Set the FTP/TFT	P server ac	ldress for dow	nload/upload	. The address	can be IP addr
	Domain name v	vith subdire	ectory.			
User	Set the FTP serv	ver Usernar	ne for downlo	ad/upload.		
Password	Set the FTP serv	er passwo	rd for downloa	id/upload.		
File name	Set the name of	f update file	e or config file	. The default r	name is the M	IAC of the pho
	000102030405.					
Notice: You can m	nodify the exporte	ed config fi	le. And you ca	n also downlo	ad config file	which includes
modules that need	d to be imported.	. For examp	ole, you can do	wnload a con	ifig file just ke	ep with SIP mo
reboot, other mod	dules of system st	till use prev	ious setting a	nd are not los	t.	
Туре	Action type that	t system wa	ant to execute	:		
	1. Application u	pdate: dow	nload system/	update file.		
	2. Config file ex	port: Uploa	d the config fi	le to FTP/TFTI	P server, nam	e and save it.
	3. Config fie imp	port: Down	load the config	g file to phone	e from FTP/TF	TP server. The
	configuration w	vill be effect	tive after the p	hone is reset		
	4. Phone book e	export (.vcf): Upload the p	ohonebook fil	e to FTP/TFTP	server, name
	5. PhoneBook ir	mport (.vcf)	: Download th	ie phonebook	file to phone	from FTP/TFT
Protocol	Select FTP/TFTP	server.				
Update Logo File						
Select File	Specify the URL	of the logo	file.			
Delete Logo File						

Select File	Select the logo that you want to delete.
Logo File	
Logo File	Show the logo file.

8.2.6.5 ACCESS

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

	AUTO PROVISION	SYSLOG	CONFIG	UPDATE	ACCESS	REBOOT
ASIC						
ETWORK						
OIP IONE	LCD Menu Passwo	rd Settings				
	Menu Password	1	•••			Apply
AINTENANCE	Keyboard Lock Se	ttings				
CURITY	PIN to Lock					
GOUT	Keyboard Pass		•••			Apply
	Enable Keyboa	rd Lock				
	User Settings					
		User admin			User Level Root	
		guest			General	
	Add User					
	User					
	Password					Apply
	Confirm User Level		Root 🖌			
	0301 20101					
	Evelo		Access Configu	Iration		
tem		nation	for optoring t	ho cotting m	any of the pho	no by the phone (c)
Ceyboard Password				ne setting me	enu or the pho	ne by the phone's l
	board	. The passw	ord is digit.			
User Settings						
	User			User Leve	el	
	admin			Root		
	guest			General		
his table shows the	e current user e	xisted.				
Jser	Set ac	count user	name.			
Jser Level	Set us	er level, Ro	ot user has the	e right to mo	dify configurat	ion, General can or
	read.					
Password	Set th	e password	l			
Confirm	Confir	m the pass	word			

General user only can add the user whose level is General.

8.2.6.6 RE	BOOT							
ZYC	ĊO)							
WE FOCUS.WE								
		AUTO PROVISION	SYSLOG	CONFIG	UPDATE	ACCESS		
BASIC								
NETWORK								
VOIP		Reboot Phone						
PHONE		Click "Reboot" button to restart the phone!						
FUNCTION KEY				_	Reboot	01161		
▶ MAINTENANCE				L	Reboot			
SECURITY								
LOGOUT								

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.

8.2.7 SECURITY

8.2.7.1 WEB FILTER

WE FOCUS.WE DELIVER					
	WEB FILTER	FIREWALL	NAT	VPN	SECURITY
BASIC					
NETWORK					
VOIP	Web Filter Table				
PHONE	Start IP Address		End IP Address		Option
FUNCTION KEY					e paren
MAINTENANCE	Web Filter Table Se	ttings			
▶ SECURITY	Start IP Address		End IP Address		Add
LOGOUT					
	Web Filter Setting				
	Enable Web Filter		Apply		

WEB Filter

User could make some device own IP, which is pre-specified, access to the MMI of the phone to config and manage the phone.

Item Explanation

Web Filter Table Settings:

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

Web Filter setting Select it or not to enable or disable Web Filter. Click **Apply** to make it effective.

Notice: Do not set your visiting IP outside the Web filter range, otherwise, you cannot logon through the web.

8.2.7.2 FIREWALL

710							
WE FOCUS.WE DELIVER							
	WEB FILTER	FIREWALL	NAT		VPN	SECU	RITY
BASIC							
NETWORK	Firewall Type						
VOIP		Enable Input Rules 🔲			Enable Output Ru	iles 🗖	
PHONE			Apply]			
FUNCTION KEY							
MAINTENANCE	Firewall Input Rule						
▶SECURITY	Index Deny/Per	mit Protocol Src Address	Src Mask	Dest Addres:	s Dest Mask	Range	Port
LOGOUT							
	Firewall Output Rule	e Table					
	Index Deny/Per	mit Protocol Src Address	Src Mask	Dest Addres:	s Dest Mask	Range	Port
	Firewall Settings						
	Input/Output	Input 💌	Src Addre	55			
	Deny/Permit	Deny 😽	Dest Addr	ress			
	Protocol	UDP 🔽	Src Mask				Add
	Port Range	more than 💌	Dest Masl	<			
	Rule Delete Option						
	Input/Output	Input 💌	Index To	Be Deleted			Delete
				-			
		Firewall	l Configura	tion			

In this web interface, you can set up firewall to prevent unauthorized Internet users from accessing private networks connected to the Internet (input rule), or prevent unauthorized private network devices from accessing the Internet (output rule).

Firewall supports two types of rules: input access rule and output access rule. Each type supports at most 10 items.

Through this web page, you could set up and enable/disable firewall with input/output rules. System could prevent unauthorized access, or access other networks set in rules for security. Firewall, is also called access list, is a simple implementation of a Cisco-like access list (firewall). It supports two access lists: one for filtering input packets, and the other for filtering output packets. Each kind of list could be added 10 items.

We will give you an instance for your reference.

Item	Explanation
Enable Input Rules	Select it to Enable Input Rules.
Enable Output Rules	Select it to Enable Output Rules.
Input / Output	Specify current adding rule by selecting input rule or output rule.
Deny/Permit	Specify current adding rule by selecting Deny rule or Permit rule.
Protocol	Filter protocol type. You can select TCP, UDP, ICMP, or IP.
Port Range	Set the filter Port range.
Src Address	Set source address. It can be single IP address, network address, complete address
	0.0.0.0, or network address similar to *.*.*.0.
Des Address	Set the destination address. It can be IP address, network address, complete
	address 0.0.0.0, or network address similar to *.*.*.*.
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 which network ID is C type.

Dest Mask Set the destination address' mask. For example, 255.255.255.255 means just point to one host; 255.255.255.0 means point to a network which network ID is C type.

Click the **Add** button if you want to add a new output rule.

Then enable out access, and click the Apply button.

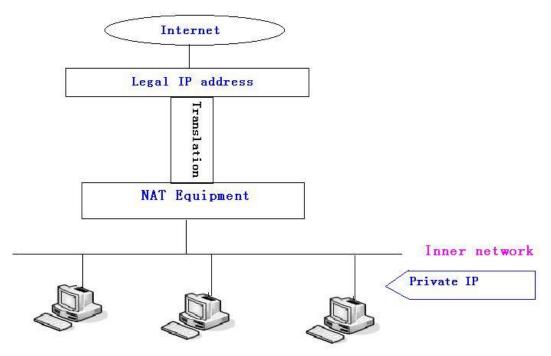
So when devices execute to ping 192.168.1.118, system will deny the request to send icmp request to

192.168.1.118 for the out access rule. But if devices ping other devices which network ID is 192.168.1.0, it will be normal.

Click the **Delete** button to delete the selected rule.

8.2.7.3 NAT

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 equipment support better service for extranet, and make internal network security more effectively, these equipment open to extranet need be separated from the other equipment 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 equipment 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.

INTERNET	
*	
	DIZ area
Inner	Network area

WE FOCUS.WE DELIVER					
	WEB FILTER	FIREWALL	NAT	VPN	SECURITY
BASIC					
NETWORK					
VOIP	Application Layer G	ateway (ALG) Setting	5		
PHONE	IPSec ALG 🗹		P ALG 🗹	PPTP ALG 🗹	
FUNCTION KEY	IFSEC ALG L		Apply	PETE ALG LL	
MAINTENANCE			- PPPT		
▶SECURITY	Network Address Tr	anslation (NAT) Tabl	e		
LOGOUT	Inside IP Address	In	side TCP Port	Outside TCP P	ort
	Inside IP Address	In	side UDP Port	Outside UDP P	Port
	N AT Table Option Transfer Type Inside IP Address	TCP V	Outside Inside Pr Add Dele DMZ Settings	ort	

NAT Configuration				
Item	Explanation			
IPSec ALG	It is an encryption technology. Select it to enable IPSec ALG, the default is enabled.			
	FTP is a service of connection layer which can transform intranet IP into extranet IP			
FTP ALG	when intranet IP is sending out packet.			
	Select it to enable FTP ALG, the default is enabled.			
PPTP ALG	Select it enable PPTP ALG, the default is enabled.			
Shows the NAT TCP map	oping table			
Shows the NAT UDP ma	pping table			
Transfer Type	Select the NAT mapping protocol style, TCP or UDP			
Inside IP	Set the IP address of device which is connected to LAN interface to do NAT			
	mapping.			
Inside Port	Set the LAN port of the NAT mapping			
Outside Port	Set the WAN port of the NAT mapping			

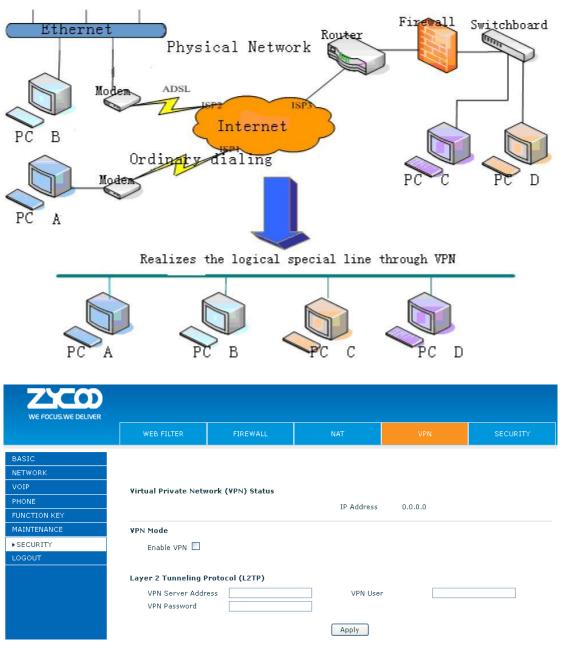
Notice: After finish setting, click the Add button to add new mapping table; click the Delete button to delete the selected mapping table.

Shows the outside WAN port IP address and the inside LAN port IP address.

Notice: 10M/100M adaptive means the network card, and other equipment physical consultations speed, testing speed under bridge mode near to 100M, in order to ensure the quality of voice and communications real-time performance, we made some sacrifices of NAT under the transmission performance. Transmit with full capability only when system is idle, so cannot guarantee that the transmission speed reach to 100M.

8.2.7.4 VPN

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 Configuration				
Item	Explanation			
VPN IP	Shows the current VPN IP address.			
Select L2TP. You can choose only one for current state. After you select it, you'd better save configuration and				
reboot your phone.				
Enable VPN	Select it or not to enable or disable VPN.			
VPN Server Address	Set VPN L2TP Server IP address.			
VPN User	Set User Name access to VPN L2TP Server.			
VPN Password	Set Password access to VPN L2TP Server.			

8.2.7.5 SECURITY

ZYCOD							
WE FOCUS.WE DELIVER	WEB FILTER	FIREWALL	NAT	VPN	SECURITY		
BASIC							
NETWORK							
VOIP	Update Security File						
PHONE	Select Security File: Browse Update						
FUNCTION KEY							
MAINTENANCE	Delete Security File						
▶ SECURITY LOGOUT	Select Security File: 💽 🔽 Delete						
	HTTPS Files	:	Security				
Item	Explanation						
Update Security File	e						
Select Security File	Select	Select the security file you want to update, then click Update button to update.					
Delete Security File	!						
Select Security File	Select	Select the security file you want to delete, then click Delete button to update.					
SIP TLS File	Show SIP TLS authentication certification file.						
HTTPS File	Show HTTPS authentication certification file.						
Open VPN Files	Show Open VPN File authentication certification file.						

8.2.8 LOGOUT

Log	0	ut
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Click "Logout" button to logout the system!

Logout

Click **Logout**, and you will exit web page. If you want to enter it next time, you need input user name and password again.

Chapter 9 Appendix

Digit-character map table

Keypad	Character	Keypad	Character
1	1 @	PQRS	7
2 ABC	2 A B C a b c	8 E	8 T U V t u v
3 DEF	3 D E F d e f	9 WXYZ	9 W X Y Z w x y z
4 GHI	4 G H I g h i	*.	*/.
5 <u>JKL</u>	5 J K L j k I	0	0
6 MNO	6 M N O m n o	# SEND	#/SEND