A320 & A320i
User Manual

Software Version: 2.6.0.1310

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3 Safety Instruction

Please read the following safety notices before installing or using this unit. 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 supply may cause damage to the phone and affect the behavior or induce noise.
- Before using the external power supply in the package, please check the home power voltage. Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it because it may cause fire or electric shock.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- This phone is designed for indoor environment. 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 or 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, 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.

4 Overview

4.1 Overview

The A320&A320i android phone is high-end enterprise phone with built-in adjustable camera. With advanced design, high cost performance and paperless office, it can greatly improve the communication efficiency of enterprises.

The new DSS button design with dynamic intelligent color display screen can replace the traditional function of the extension board.A320i&A320 smart touch screen can dynamically display 4 pages, each page can display 28 DSS key Settings, a total of 112 DSS key mapping can be customized by users;Each DSS key displays green, red, and orange LED indicators to reflect the current state of the key.A320&A320i will be the best choice for business managers and office users.

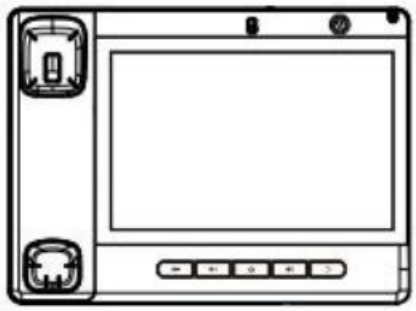
A320&A320i phone is the latest generation of enterprise network color phone developed on the basis of A32 &A32i, A320&A320i integrate angle-adjustable 8 megapixels camera, and inherit many excellent features of A32I &A32i phone. Such as HD voice, headphones and high-performance echo cancellation full duplex speakers, Gigabit Ethernet, QoS, encrypted transmission, automatic configuration, etc.

For enterprise users, A320&A320i is a highly efficient office device. Compared with the traditional DSS key label, DSS intelligent display design not only realizes environmental protection, but also provides convenient operation.Users can flexibly configure and define the function of DSS key, which is equivalent to the built-in extension module, saving space and cost.The A320&A320i will be an ideal choice for enterprise users seeking high quality and high performance.

In order to help some users who are interested to read every detail of the product, this user manual is provided as a user's reference guide. Still, the document might not be up to date with the newly release software, so please kindly download updated user manual from website, or contact with support if you have any question using A320&A320i .

4.2 Packing Contents

4.2.1 A320i Packing Contents

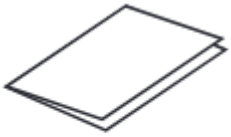


IP Phone

Handset

Handset Cord

Ethernet Cable



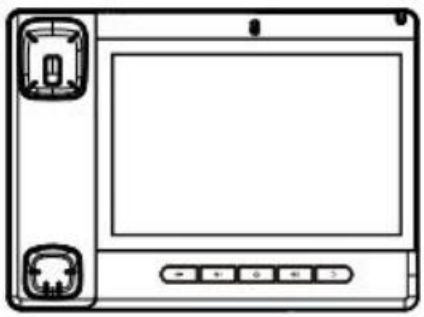
Quick Installation Guide

Stand

Gooseneck MIC

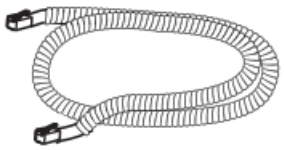
Power Adapter
(Optional)

4.2.2 A320 Packing Contents



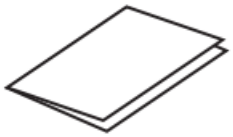
IP Phone

Handset



Handset Cord

Ethernet Cable



Quick Installation Guide

Stand

Power Adapter
(Optional)

5 Install Guide

5.1 Use PoE or external Power Adapter

A320i, called as ‘the device’ hereafter, supports two power supply modes, power supply from external power adapter or over Ethernet (PoE) complied switch.

PoE power supply saves the space and cost of providing the device additional power outlet. With a PoE switch, the device can be powered through a single Ethernet cable which is also used for data transmission. By attaching UPS system to PoE switch, the device can keep working at power outage just like traditional PSTN telephone which is powered by the telephone line.

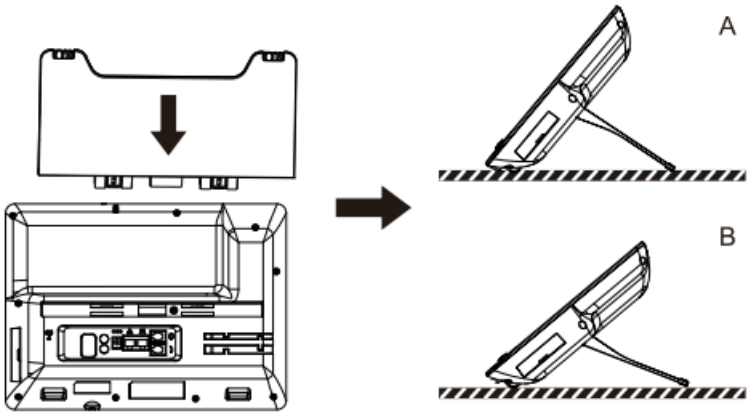
For users who do not have PoE equipment, the traditional power adaptor should be used. If the device is connected to a PoE switch and power a dapter at the same time, the power adapter will be used in priority and will switch to PoE power supply once it fails.

Please use the power adapter supplied by and the PoE switch met the specifications to ensure the device work properly.

5.2 Desktop Installation

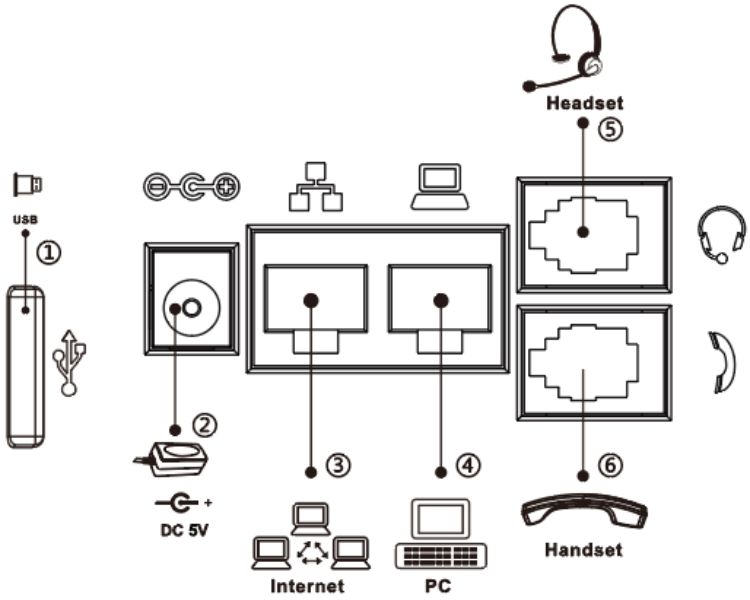
5.2.1 A320i&A320 Desktop Installation

The device supports desktop use. If the phone is placed on the desktop, please follow the instructions in the picture below to install the phone.



Picture 1 - Desktop phone installation

Please connect power adapter, network, PC, handset, and headphone to the corresponding ports as described in below picture.



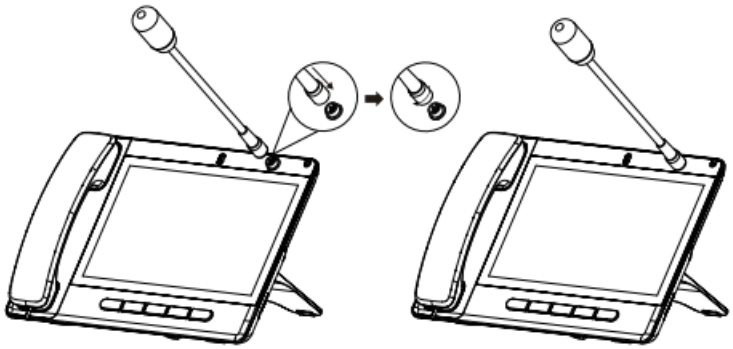
Picture 2 - Connecting to the Device

Table 1 - Hardware Interface Description

Index	Description
①USB Interface	Aexternal usb drive
②Power Interface	External standard power supply
③Internet Interface	Support external RJ45 cable port, connect to the Internet
④PC Interface	Support external RJ45 cable port, LAN connection
⑤Headset Interface	Support external RJ9 earphone (normal earphone /EHS earphone)
⑥Receiver interface	external receiver curve with RJ9 port

5.2.2 A320i GooseneckK MIC Installation

After aligning the gooseneck microphone with the port, load it and tighten the nut.



6 Appendix Table

6.1 Appendix I - Icon

Table 2 - Keypad Icons

Icons	Description
	Volume down
	Volume up
	Home key
	Hands-free (HF) speaker
	Redial

Table 3 - Status Prompt and Notification Icons

Icons	Description
	Call out
	Call in
	Call Hold
	Network Disconnected
	SMS
	DND
	Call forward activated
	Auto-answering activated
	Hands-free (HF) Mode
	Headphone (HP) Mode

	Handset (HS) Mode
	Mute Microphone
	HD Audio
	The Voice encryption of calling
	Open Bluetooth
	SIP Hotspot
	Connecting WIFI
	Open Bluetooth
	Unread voice message
	USB insert tips

Table 4 - DSSkey Icons

Icons	Description
	MWI
	Speed Dial
	Intercom
	Call Park
	Call forward
	Key Event/DND

	Key Event/Call Hold
	Key Event/Call Transfer
	Key Event/Phonebook
	Key Event/Redial
	Key Event/Pickup
	Key Event/Join
	Key Event/Auto Redial On
	Key Event/Auto Redial Off
	Key Event/Call Forward
	Key Event/Call Logs
	Key Event/Flash
	Key Event/
	Key Event/Headset
	Key Event/Release
	Key Event/Lock Phone
	Key Event/SMS
	Key Event/Call Back
	Key Event/Hide DTMF

	Key Event/Power Light
	Key Event/Prefix
	Key Event/Hot Desking
	Key Event/Agent
	Key Event/End
	Key Event/Disposition
	Key Event/Escalate
	Key Event/Trace
	Key Event/Handfree
	Key Event/Answer Key
	Key Event/Private Hold
	URL & Action URL
	BLF List
	Multicast
	Unfold
	Collapse

6.2 Appendix II – Keyboard character query table

Table 5 - Look-up Table of Characters

Mode Icon	Text Mode	Key Button	Characters Of Each Press
123	Numeric	1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		0	0
		*	*.+
		#	#
abc	Lower Case Alphabets	1	@:;()<>
		2	a b c
		3	d e f
		4	g h i
		5	j k l
		6	m n o
		7	p q r s
		8	t u v
		9	w x y z
		0	(space)
		*	.,*/+-:_=
		#	# ^!&$%
ABC	Upper Case Alphabets	1	@:;()<>
		2	A B C
		3	D E F
		4	G H I
		5	J K L
		6	M N O
		7	P Q R S
		8	T U V

		9	WZYX
		0	(space)
		*	.,*/+-:_=
		#	# ^!&$%
2aB	Mixed type input	1	1
		2	2 a b c A B C
		3	3 d e f D E F
		4	4 g h I G H I
		5	5 j k l J K L
		6	6 m n o M N O
		7	7 p q r s P Q R S
		8	8 t u v T U V
		9	9 w z y x W Z Y X
		0	0
		*	.,*/+-:_=
		#	# ^!&$%
Abc	Initial capital letter	1	@： ; ( ) <> [ ] { }
		2	a b c
		3	d e f
		4	g h I
		5	j k l
		6	m n o
		7	p q r s
		8	t u v
		9	w z y x
		0	0
		*	. , */+- : _= ' ? \ " |
		#	# ^ !& $ % ￡¥¤ ~¡¿§

6.3 Appendix III –LED Definition

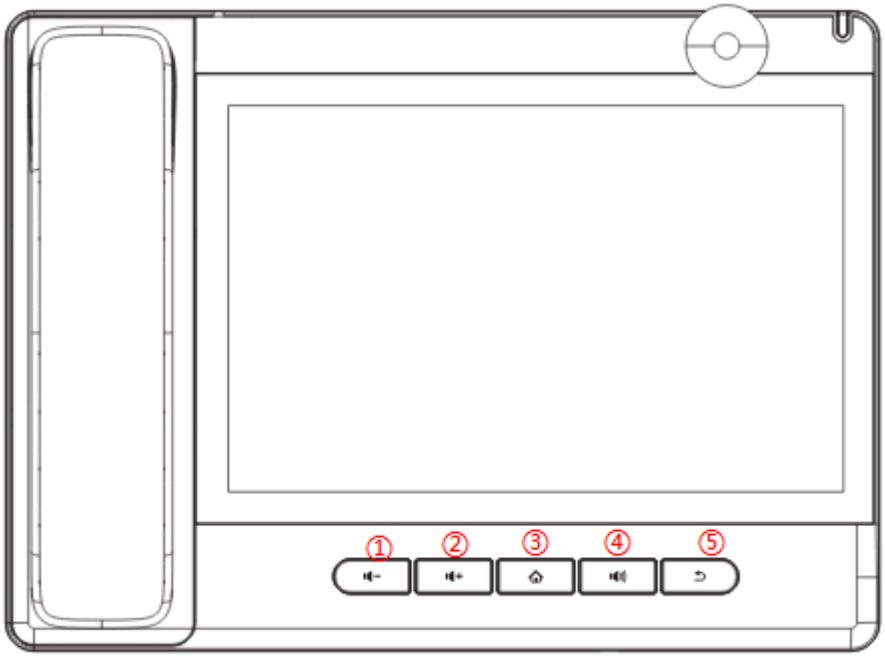
Table 6 - DSS KEY LED State

Type	LED Light	LED State
Line Key	Off	Line inactive
	Green On	Line ready (Registered)
	Green Blinking	Ringing
	Red Blinking	Line is trying to register
	Red Blinking	Line error (Registration failure)
	Red On	Dialing/Line in use (Talking)
	Yellow Blinking	Call holding
BLF	Green On	Subscription number is idle.
	Red On	Subscription number is busy.
	Red On	Subscription number is dialing.
	Off	Subscription number is unavailable.
Presence	Green On	Subscription number is idle.
	Red On	Subscription number is busy.
	Red On	Subscription number is dialing.
	Off	Subscription number is unavailable.
DND	Red On	Enable DND
	Off	Disable DND
MWI	Green Blinking	New voice message waiting
	Off	No new voice message

7 Introduction to the User

7.1 Instruction of Keypad

7.1.1 Instruction of the A320i Keypad



Picture 3 - Instruction of Keypad

The above picture shows the keypad layout of the device. Each key provides its own specific function. User should refer to the illustration in this section about the usage of each key and the description in this document about each function.

Table 7 - Instruction of Keypad

Number	The keypad names	Instruction
①	Volume down	decrease volume
②	Volume up	increase volume
③	Home Keys	Hands-free key, Activate/deactivate hands free

④	Hands-free Key	The user can press this key to open the audio channel of the speakerphone.
⑤	Return key	Press in the detailed interface to return to the previous page; if in the application program, it is to exit the current program.

7.2 Using Handset / Hands-free Speaker / Headphone

- **Using Handset**

To talk over handset, user should lift the handset off the device and dial the number, or dial the number first, then lift the handset and the number will be dialed. User can switch audio channel to handset by lifting the handset when audio channel is opened in speaker or headphone.

- **Using Hands-free Speaker**

To talk over hands-free speaker, user should press the hands-free button then dial the number, or dial the number first then press the hands-free button. User can switch audio channel to the speaker from handset by pressing the hands-free button when audio channel is opened in handset.

- **Using Headphone**

To use headphone, by default, user should headset button which is defined by DSS key to turn on the headphone. Same as handset and hands-free speaker, user can dial the number before or after headphone turned on.

- **Using Line Keys(Defined by DSS Key)**

User can use line key to make or answer a call on specific line. If handset has been lifted, the audio channel will be opened in handset. Otherwise, the audio channel will be opened in hands-free speaker or headphone.

7.3 Screen Touch Instructions

The device can be configured and operated by touching the screen.

- Click

The device can enter the setting and operation interface by clicking on any interface.

The device supports multi-touch.

- Long Press

Long press the app icon on the standby home page, you can adjust the app location or choose to delete.

Long press the application icon in the menu interface to drag it to the main page.

- Slide

The device supports sliding up and down.

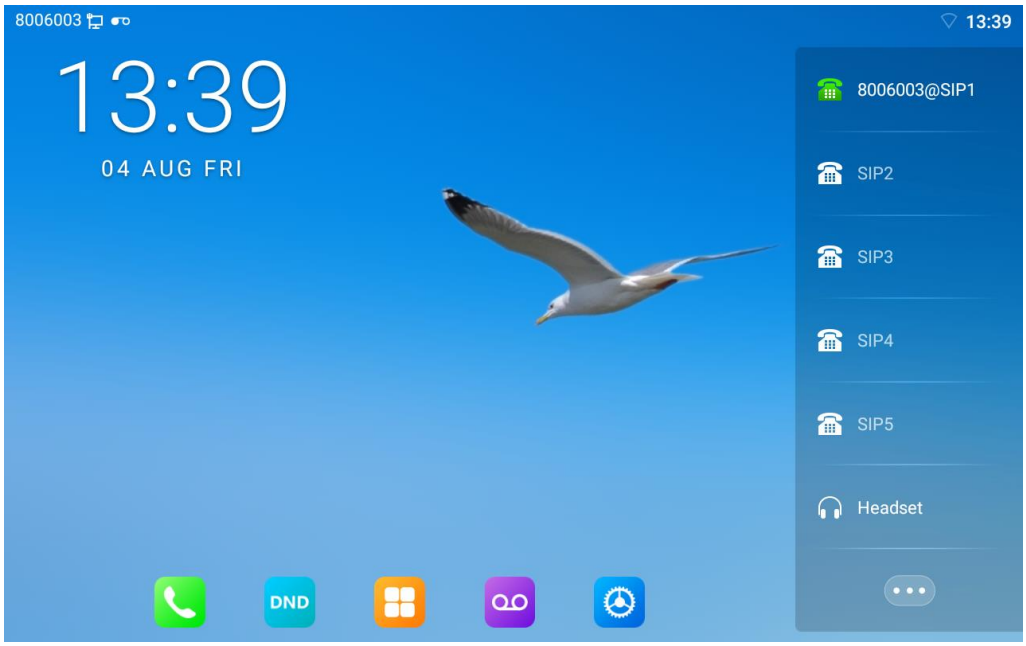
Slide down the standby home page to view the network connection information, date time and other information of the device;Slide up to exit the above information interface.

Right slide can expand DSSkey, full screen display custom shortcut key information;Slide left to exit the above interface.

- Drag

Long press the application icon in any interface, and you can drag it to any place.

7.4 Idle Screen



Picture 4 - A320i&A320 default home screen

The image above shows the default standby screen, which is the user interface in the most of the time.

The upper half of the home screen shows the status of the device, information and data that can be edited (such as voice messages, missed calls, auto answer, do not disturb, lock status, network connection status, etc.).

The lower half of the area is the function menu key, which is also the first layer of function menu keys, through which users can operate the phone.
Users can restore the phone to the default standby screen interface by picking up and dropping the handle.

The left and right part of the area shows default configuration of Side key, which dynamically displays the configuration of SIP information, message, headset, etc., which can be customized by users.

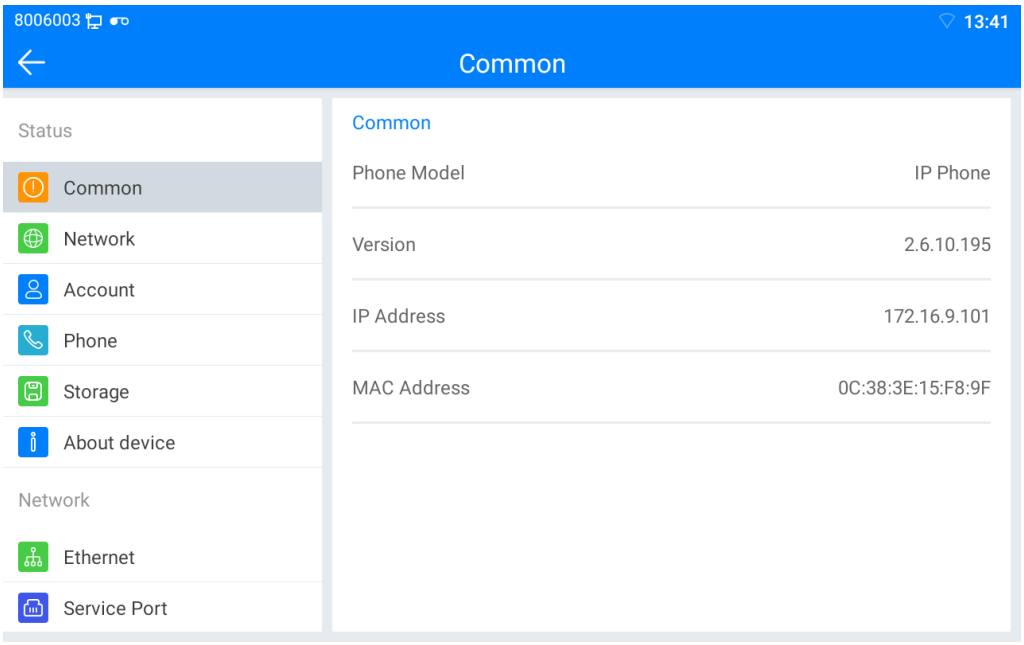
7.5 Phone Status

The phone status includes the following information about the phone:

- Network Status：
  VLAN ID
  IPv4 or IPv6 status
  IP Address
  Network Mode
- The Phone Device Information：
  Mac Address
  Phone Mode
  Hardware Version number
  Software Version number
  Phone Storage（RAM and ROM）
  System Running Time
- SIP Account Information：
  SIP Account
  SIP Account Status (registered / uncommitted / trying / time out)
- TR069 Connection Status（Displays only in the phone interface state）

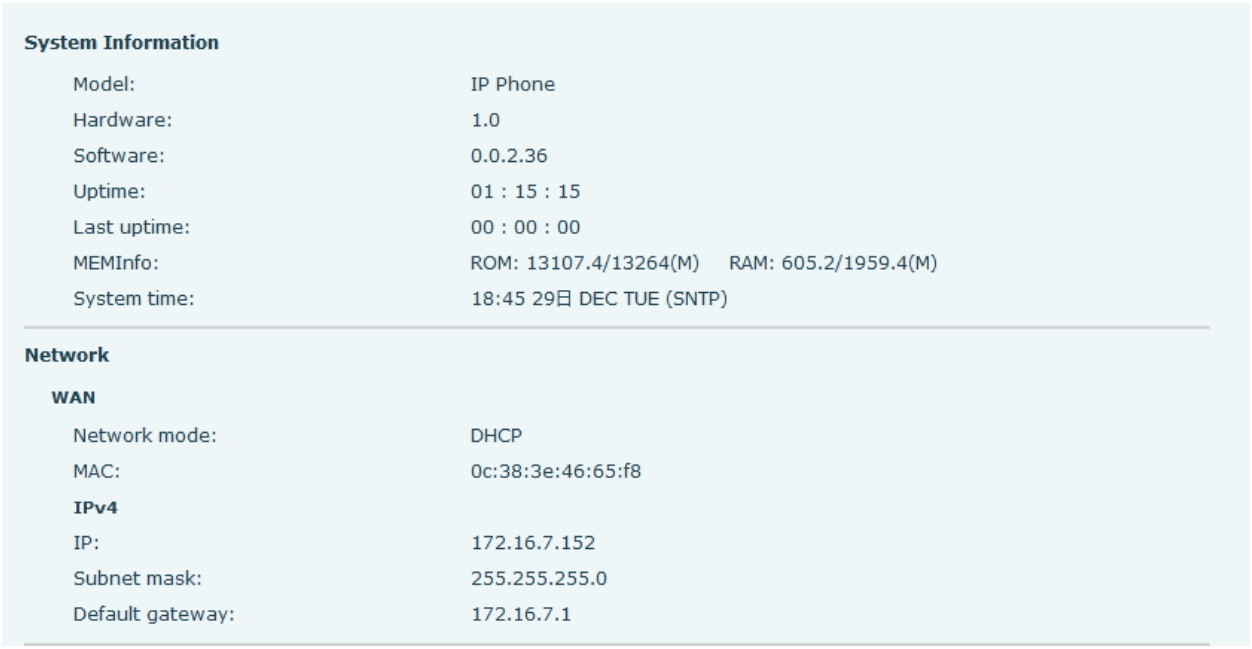
The user can view the phone status through the phone interface and the web interface.

- Phone interface：When the phone is in standby mode, press [**Menu**] >> [**Status**] and select the option to view the corresponding information, as shown in the figure:



Picture 5 - The Phone status

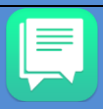
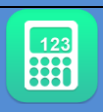
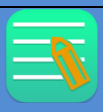
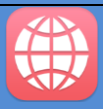
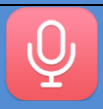
- WEB interface：Refer to 7.7 Web management to log in the phone page, enter the [System] >> [Information] page, and check the phone status, as shown in the figure:

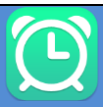
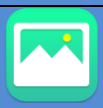
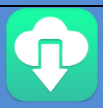
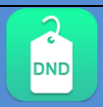
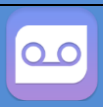
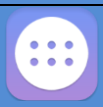


Picture 6 - WEB phone status

7.6 Application Instruction

Table 8 - Application instruction

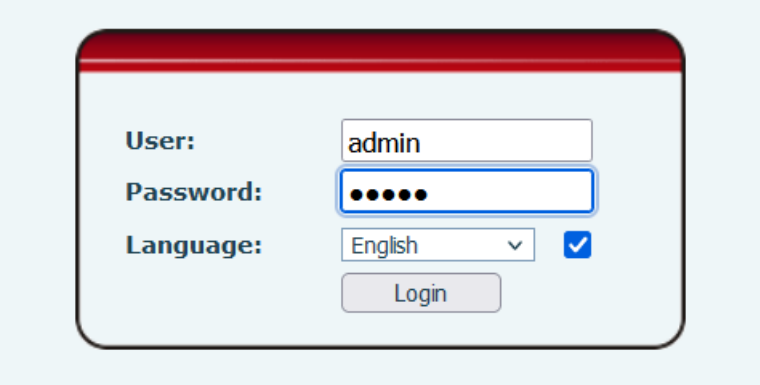
Dialer	Click this icon to enter the pre-dial number interface, and then dial the corresponding operation through the screen or keyboard.
Email	It has the function of sending and receiving email. After configuring the account, it can send and receive directly on the phone.Contacts for this account are automatically synchronized to the mailbox account.
 SMS	Have SMS writing, reading and sending functions
Phone Settings	It contains system information, network Settings, account Settings, call Settings, etc. You can make corresponding Settings under the corresponding menu.
 Calculator	Scientific calculator - allows users to quickly process data.
 Notepad	Notes and records -- convenient for users to note events, and electronic post-it notes can be viewed at any time.
Contacts	Support search, add, delete, edit contacts and other functions.
 Browser	Support access to various websites.
 Sound Recorder	Support call and non - call recording, and support export.
Calendar	Display and view dates, create activity reminders, etc.
Settings	There are four big options, including basic Settings, call Settings, advanced Settings and about the phone. You can make corresponding Settings under the corresponding menu (this setting is the default setting of Android system).

 Clock	Can configure alarm clock, time, stopwatch, countdown Time - supports global time zone selection.
Video	Only supports MP4 format video playback.
Call Log	Access to call records to view all call records.You can also view all incoming calls, outgoing calls and missed calls by using the options key.
 Gallery	Support Bmp, Jpeg, Png image preview and save.
 Downloads	Save all downloaded files.
Music	Music player - can import recording and music play.
Explorer	View usb flash drive and system related files.
Apkinstaller	Application management - you can install and uninstall android applications.
 DND	Turn on and off the disturb free configuration.
 MWI	When the answering machine is activated, the call will be automatically forwarded to the voicemail
 Application	Click this icon to enter the application list screen

7.7 Web Management

Phone can be configured and managed on the web page of the phone. The user needs to enter the

IP address of the phone in the browser at first and open the web page of the phone. The user can check the IP address of the phone by pressing [**Menu**] >> [**Status**].



Picture 7 - Landing page

Users must correctly enter the user name and password to log in to the web page. The default user name and password are "admin". For the specific details of the operation page, please refer to page 11 Web configurations.

7.8 Network Configurations

The device supports two kinds of network connection modes: wired network connection and wireless network connection. This section describes the wired network connection. For wireless network connection, refer to 10.5 wi-fi.

The device relies on IP network connection to provide service. Unlike traditional phone system based on a circuit switched wire technology, IP devices are connected to each other over the network and exchange data in packet basis based on the devices' IP address.

To enable this phone, you must first correctly configure the network configuration. To configure the network, users need to find the phone function menu button [**Phone Settings**] >> [**Network**] >> [**Ethernet**].
The default password for advanced Settings is "123".

NOTICE! If user saw a ***'WAN Disconnected' icon flashing in the middle of screen, it means the network cable was not correctly connected to the device's network port. Please check the cable is connected correctly to the device and to the network switch, router, or modem.***

The device supports three types of networks，IPv4/IPv6/IPv4&IPv6

There are two common IP configuration modes about IPv4

- Dynamic Host Configuration Protocol (DHCP) – This is the automatic configuration mode by getting network configurations from a DHCP server. Users need not to configure any parameters manually. All configuration parameters will be getting from DHCP server and applied to the device. This is recommended for most users.
- Static IP Configuration – This option allows user to configure each IP parameters manually, including IP Address, Subnet Mask, Default Gateway, and DNS servers. This is usually used in an office environment or by power users.

The device is default configured in DHCP mode.

There are three common IP configuration modes about IPv6

- DHCP – This is the automatic configuration mode by getting network configurations from a DHCP server. Users need not to configure any parameters manually. All configuration parameters will be getting from DHCP server and applied to the device. This is recommended for most users.
- Static IP configuration - this option allows users to manually configure each IP parameter, including IP address, mask, gateway, and primary and secondary domains. This usually applies to some professional network user environments.

Please see 10.7.2.1 network Settings for detailed configuration and use.

7.9 SIP Configurations

A line must be configured properly to be able to provide telephony service. The line configuration is like a virtualized SIM card. Just like a SIM card on a mobile phone, it stores the service provider and the account information used for registration and authentication. When the device is applied with the configuration, it will register the device to the service provider with the server's address and user's authentication as stored in the configurations.

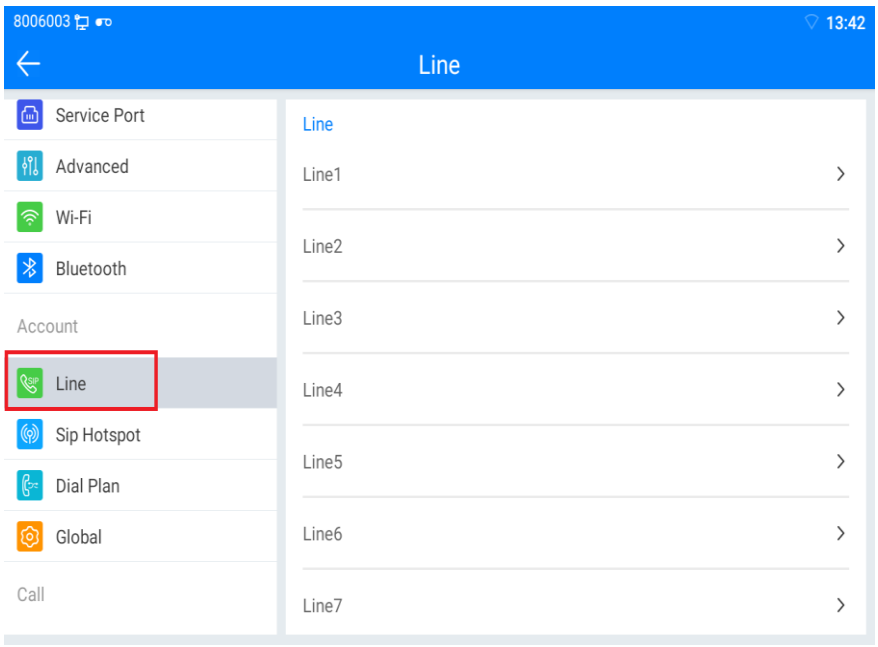
The user can conduct line configuration on the interface of the phone or the webpage, and input the corresponding information at the registered address, registered user name, registered password and SIP user, display name and registered port respectively, which are provided by the SIP server administrator.

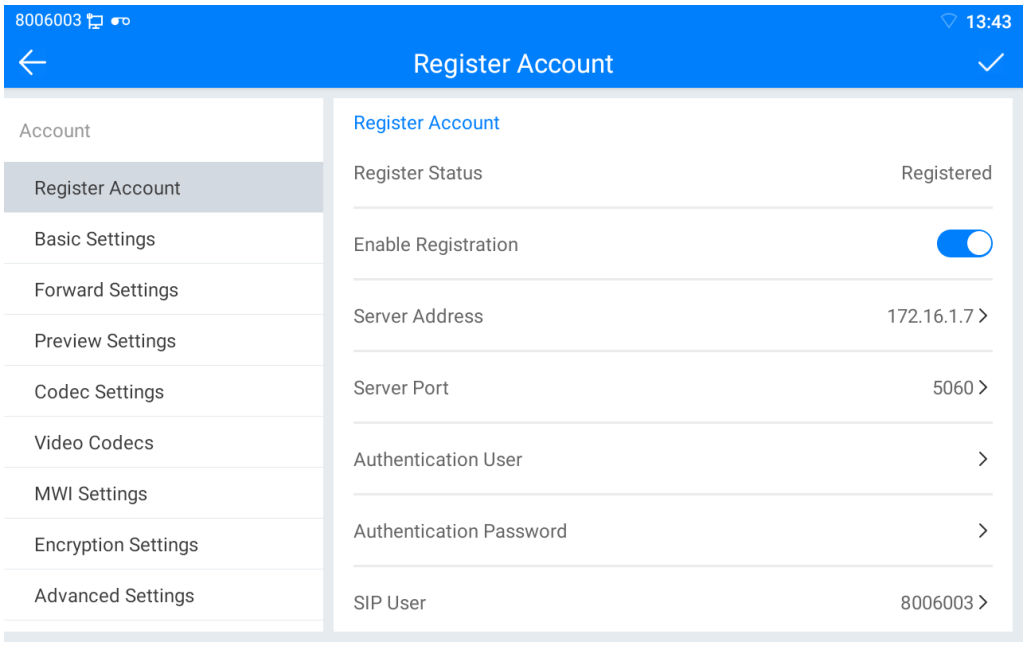
- Phone interface：To manually configure a line, the user can press the line key for a long time, or

press the button in the function menu [**Phone Settings**] >> [**Account**] >> [**Line**] configuration, click “OK” to save the configuration.

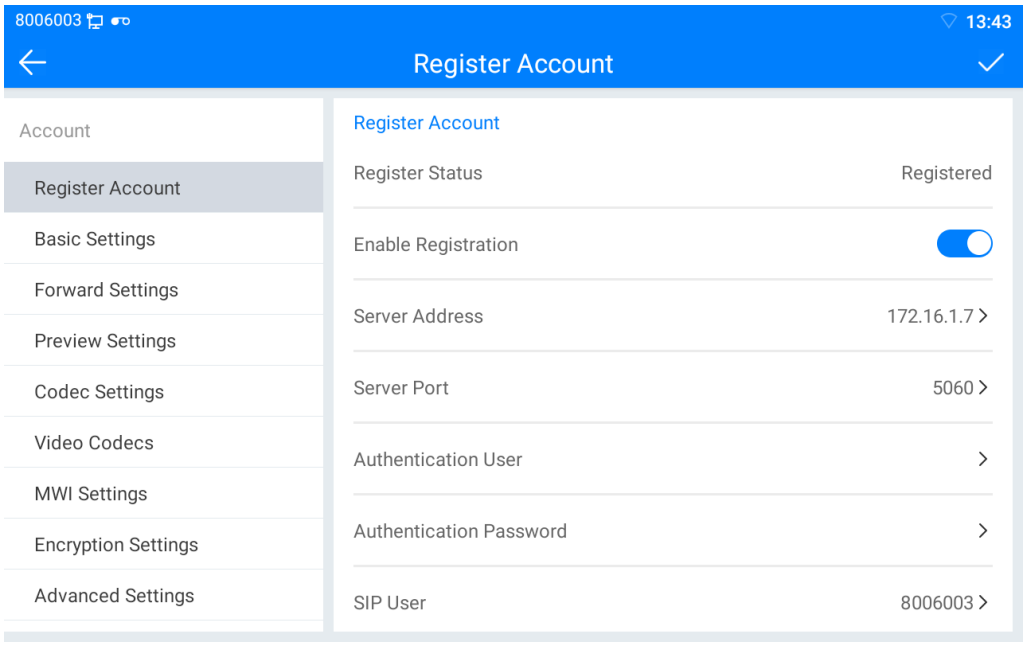
NOTICE! User must enter correct PIN code to be able to advanced settings to edit line configuration. (The default PIN is 123)

The parameters and screens are listed in below pictures.



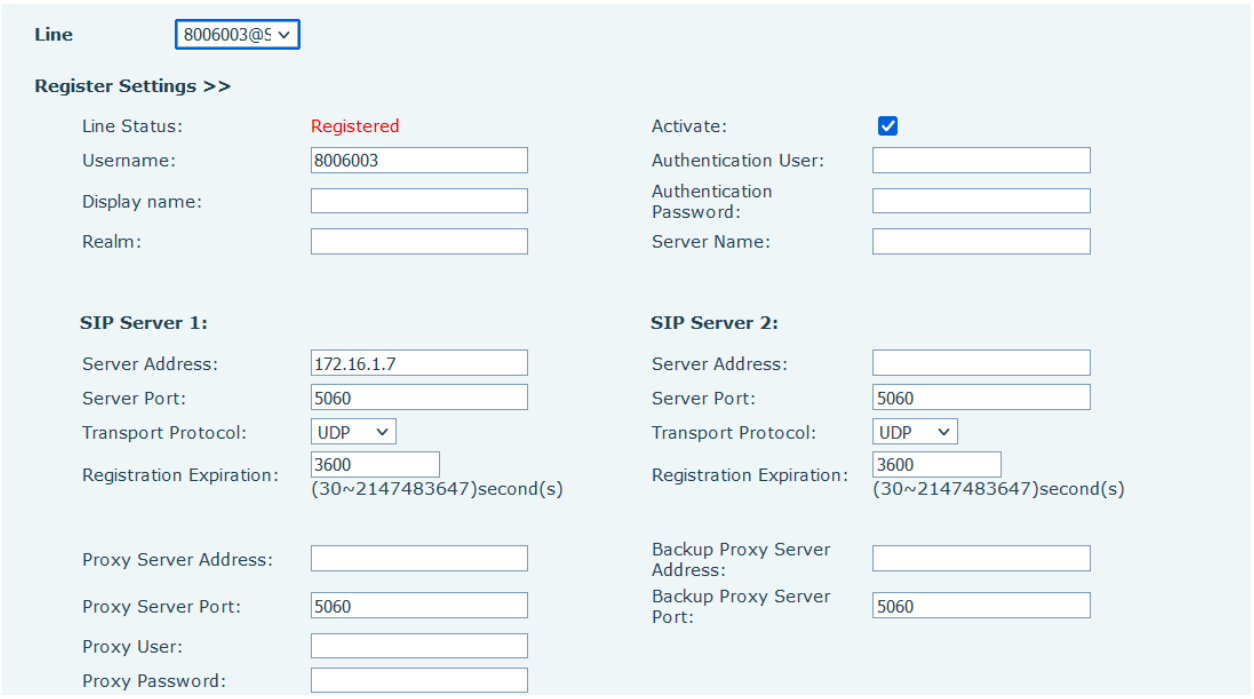


Picture 8 - Phone line SIP address and account information



Picture 9 - Phone display name and port

- WEB interface：After logging into the phone page, enter [**Line**] >> [**SIP**] and select **SIP Line** for configuration, click apply to complete registration after configuration, as shown below:



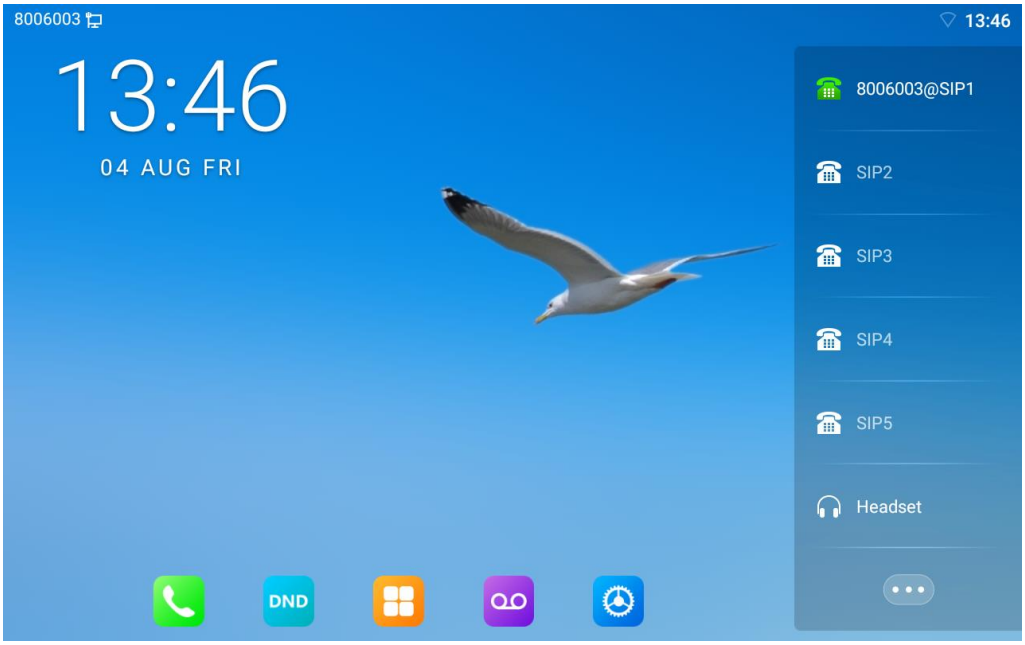
Picture 10 - Web SIP registration

8 Basic Function

8.1 Making Phone Calls

■ **Default Line**

The device provides twenty line services. If both lines are configured, user can make or receive phone calls on either line. If default line is configured by user, there will be a default line to be used for making outgoing call which is indicated on the top left corner. To change the default line, user can press left/right navigator buttons to switch between two lines. Enable or disable default line, user can press [**Menu**] >> [**Features**] >> [**Basic**] >> [**General**] >> [**Default Line**] or configure from Web Interface (Web / PHONE / Features / Basic Settings).



Picture 11 - Default line

■ **Dialing Methods**

User can dial a number by,

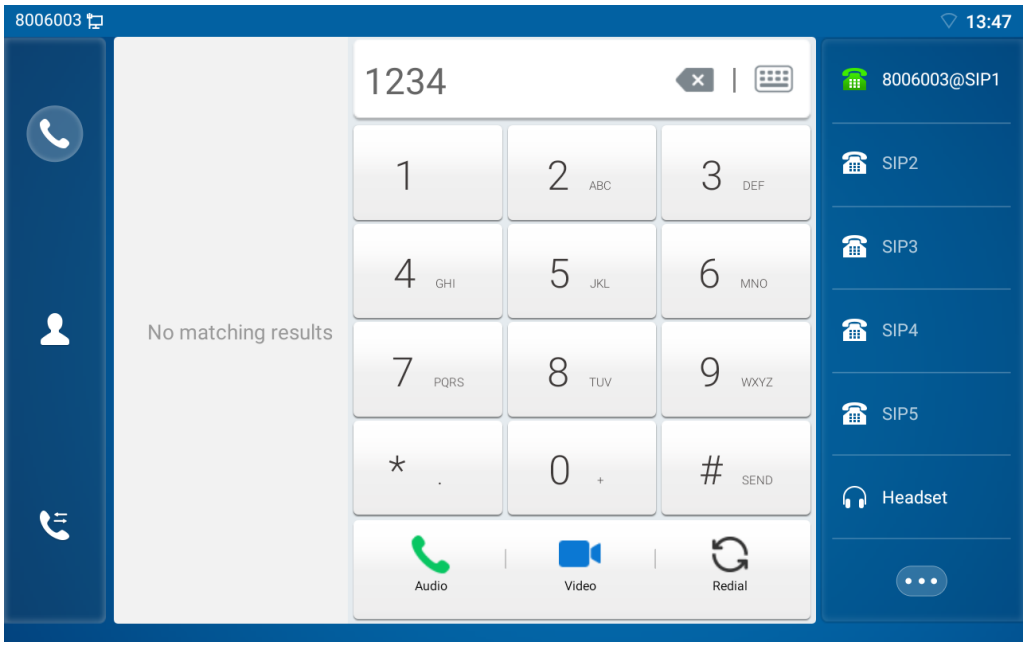
- Entering the number directly
- Selecting a phone number from phonebook contacts (Refer to 10.2.1 Local contacts)
- Selecting a phone number from cloud phonebook contacts (Refer to 10.2.3 Cloud Phone Book)
- Selecting a phone number from call logs (Refer to 10.3 Call Log)
- Redialing the last dialed number

■ **Dial Number then Open Audio**

To make a phone call, user can firstly dial a number by one of the above methods. When the dialed number is completed, user can press [**Dial**] button on the soft-menu, or press hand-free button to turn on the speaker or headphone, or lift the handset to call out with the current line, or user can press line key(Configured by DSS Keys) to call out with specified line.

■ **Open Audio then Dial the Number**

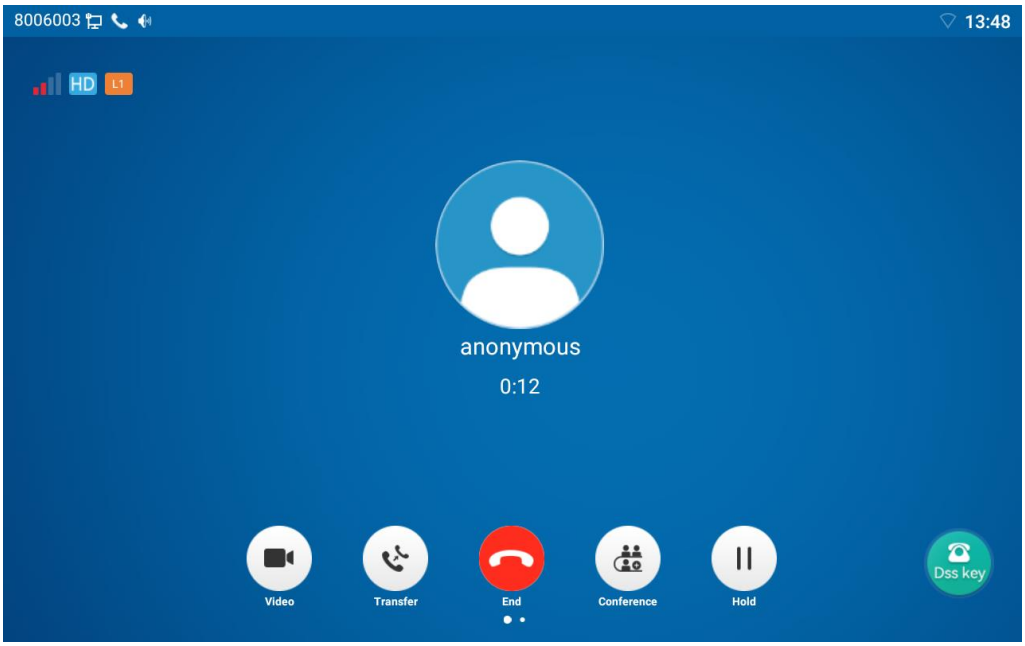
Another alternative is the traditional way to firstly open the audio channel by lifting the handset, turning on the hands-free speaker or headphone by pressing hands-free button, or line key, and then dial the number with one of the above methods. When dialing the number, user can press [**Dial**] button or [**OK**] button to call out, or the number will be dialed out automatically after timeout.



Picture 12 - Open the voice channel and dial the number

■ **Cancel Call**

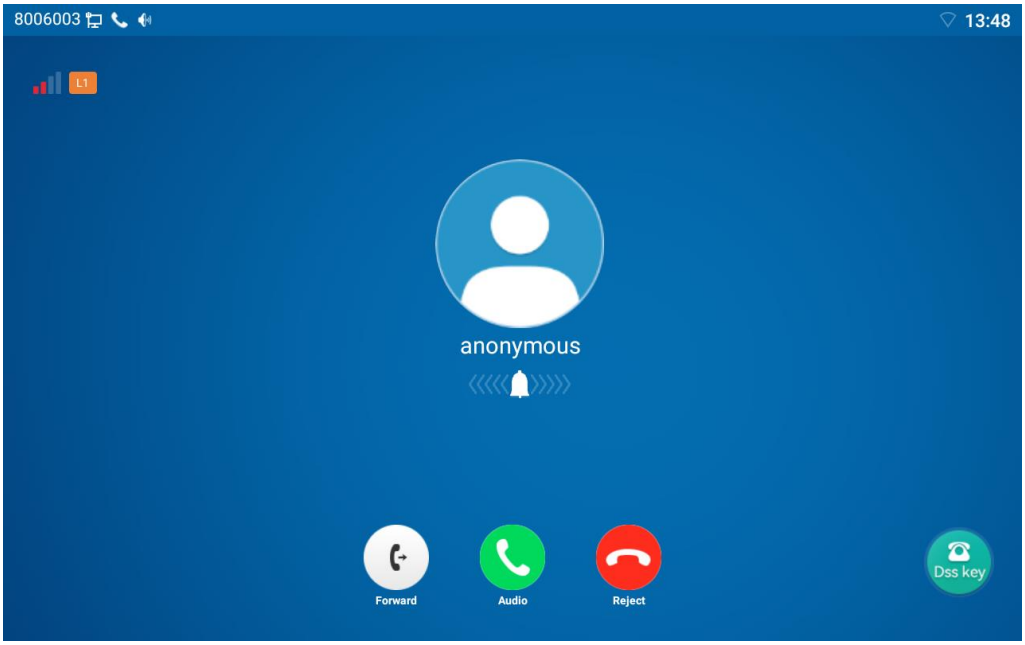
While calling the number, user can press to end the audio channel by putting back the handset or pressing the hands-free button to drop the call.



Picture 13 - Call number

8.2 Answering Calls

When the phone is idle and there is a call, the user will see the call reminder screen as belowed.

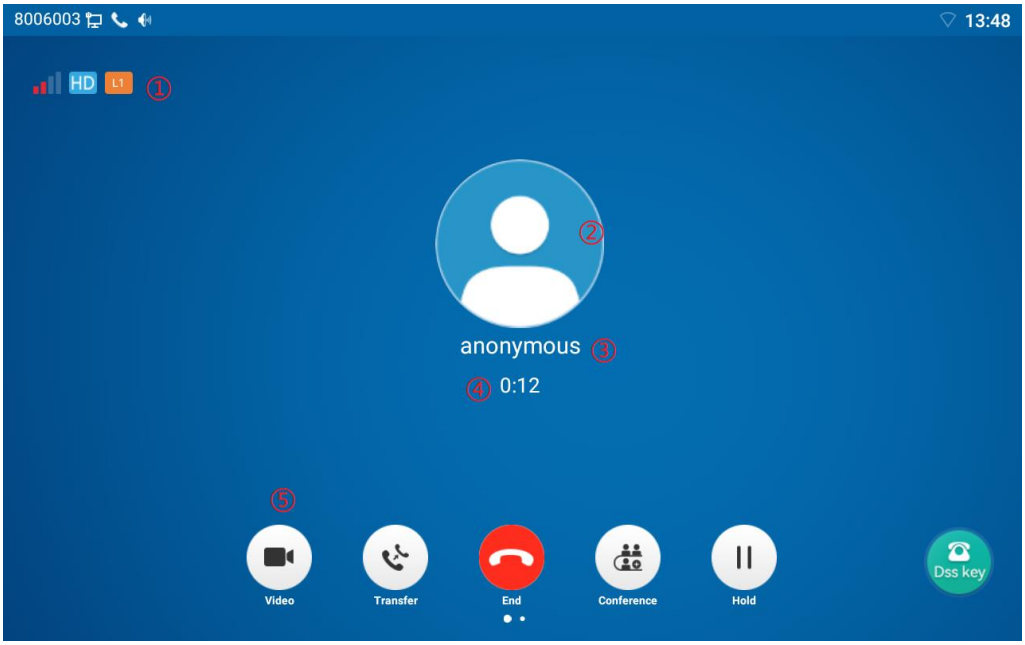


Picture 14 - Answering calls

User can answer the call by lifting the handset, open headphone or speaker phone by pressing the hands-free button, or the [Answer] button. To divert the incoming call, user should press [**Divert**] button. To reject the incoming call, user should press [**Reject**] button.

8.2.1 Talking

When the call is connected, user will see a talking mode screen as the following figure.



Picture 15 - Talking interface

Table 9 - Talking mode

Number	Name	Description
①	The current line	The line currently used by the phone.
②	User avatar	Default display, user can customize the selection of avatar pictures.
③	Calls to end	The name or number of the person on the other end of the call.
④	Call duration	The duration of a call after it has been established.
⑤	Video icon	Click to initiate video call.

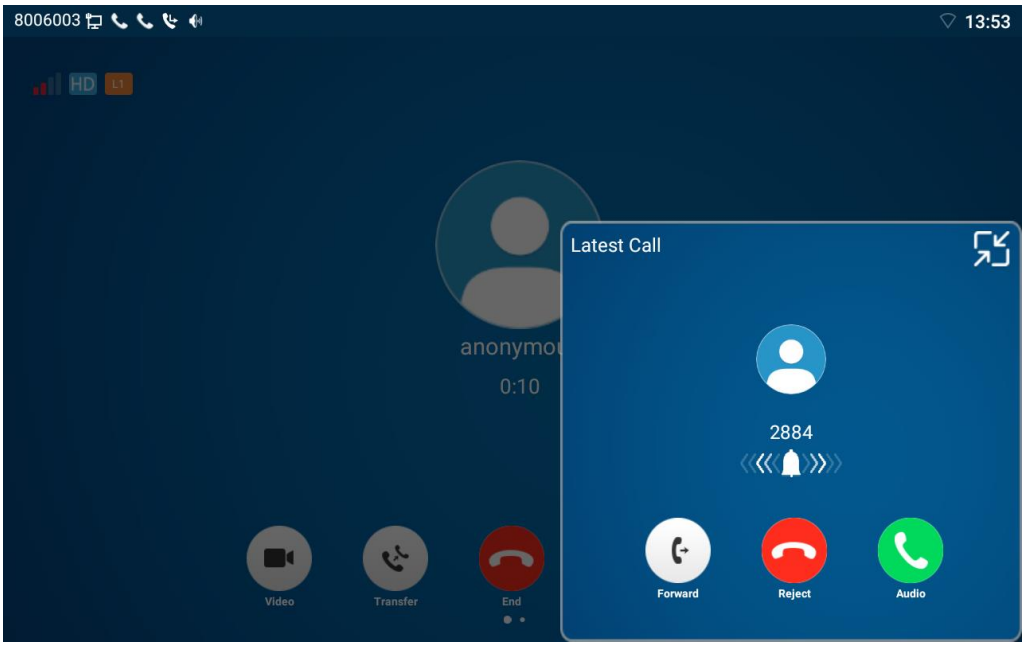
8.2.2 Make / Receive the Second Call

The device can support up to two concurrent calls. When there is already a call established, user can still answer another incoming call on either lines or make a second call on either lines.

■ **The Second Incoming Call**

When there is another incoming call during talking a phone call, this call will be waiting for user to answer it. User will see the call message in the middle of current screen. The device will not be ringing but playing call waiting tone in the audio channel of the current

call and the LED will be flashing in green. User can accept or reject the call as same as normal incoming call. When the waiting call is answered, the first call will be put on hold automatically.



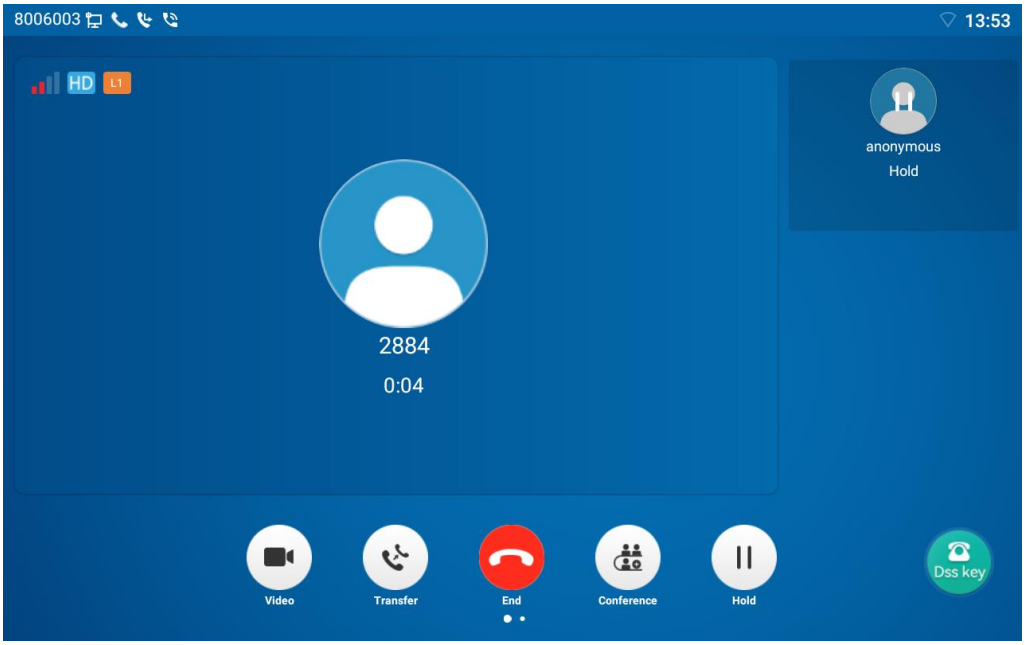
Picture 16 - The second call interface

- **Second Outgoing Call**

To make a second call, user may press [**Xfer**] / [**Conf**] button to make a new call on the default line or press the line key to make new call on specific line. Then dial the number the same way as making a phone call. Another alternative for making second call is to pressing DSS Keys dial out from the configured Keys (BLF/Speed Dial). When the user is making a second call with the above methods, the first call could be placed on hold manually first or will be put on hold automatically at second dial.

- **Switching between Two Calls**

When there are two calls established, user will see a dual calls screen as the following picture.



Picture 17 - Two way calling

User can press up/down navigator buttons to switch screen page, and switch call focus by pressing [**Resume**] button.

- **Ending One Call**

User may hang up the current talking call by closing the audio channel or press [**End**] button. The device will return to single call mode in holding state.

8.3 End of the Call

After the user finishes the call, the user can put the handle back on the phone, press the hands-free button or Softkey [End] key to close the voice channel and end the call.

Note! When the phone is in the reserved state, the user must press the [Resume] key to return to the call state, or put the receiver back and press the hands-free hook to end the call.

8.4 Video Call

A320i supports a variety of video formats CIF, VGA, 4CIF, 720P.

The device only supports video decoding, but users can initiate video calls.

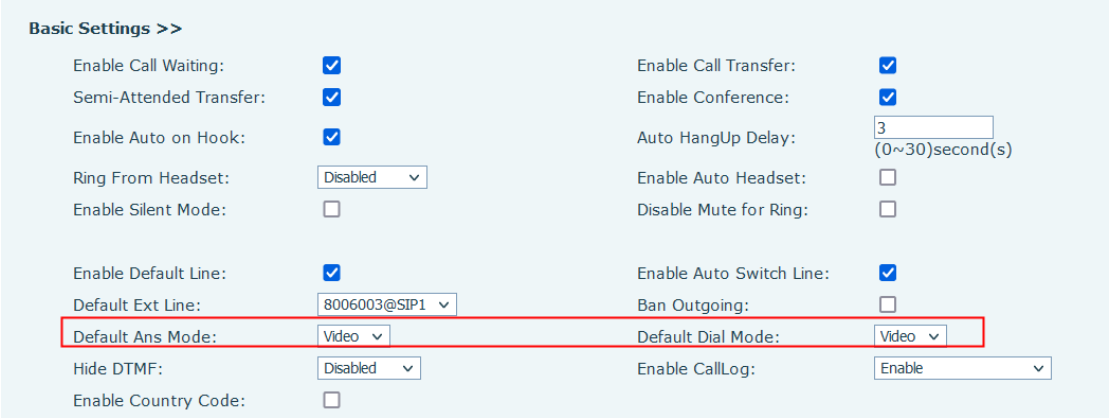
- The default dialing mode is video. When the device dials, it USES video mode to call

out by default. If the end device supports sending video, both sides establish video call.

- The default dialing mode is voice. The above operation establishes voice call

Picture 18 - Video interface

WEB interface: enter [**Phone Settings**] >> [**Features**] >> [**Basic Settings**], and choose to configure the “Default Dial Mode” and “Default Ans Mode”.

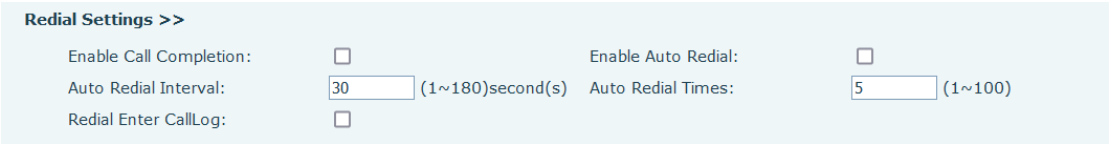


Picture 19 - Video Settings

8.5 Redial

- Redial the last outgoing number:
  When the phone is in standby mode, press the redial button and the phone will call out the last number dialed.
- Call out any number with the redial key:
  Enter the number, press the redial key, and the phone will call out the number on the dial.

- Press the redial key to enter the call record:
  Log in the phone page, enter [**Phone Settings**] >> [**Features**] >> [**Redial Settings**], check redial to enter the call record, press the redial button when standby to enter the call record page, and press again to call out the currently located number.



Picture 20 - Redial set

8.6 Dial-up Query

Phone is defaulted to open the dial-up inquiry function, dial-out, enter two or more Numbers, dial the interface will automatically match call records, contacts in the number list, use the navigation key up and down keys can select the number, press the call out key or time out.

8.7 Auto-Answering

User may enable auto-answering feature on the device and any incoming call will be automatically answered (not including call waiting). The auto-answering can be enabled on line basis.

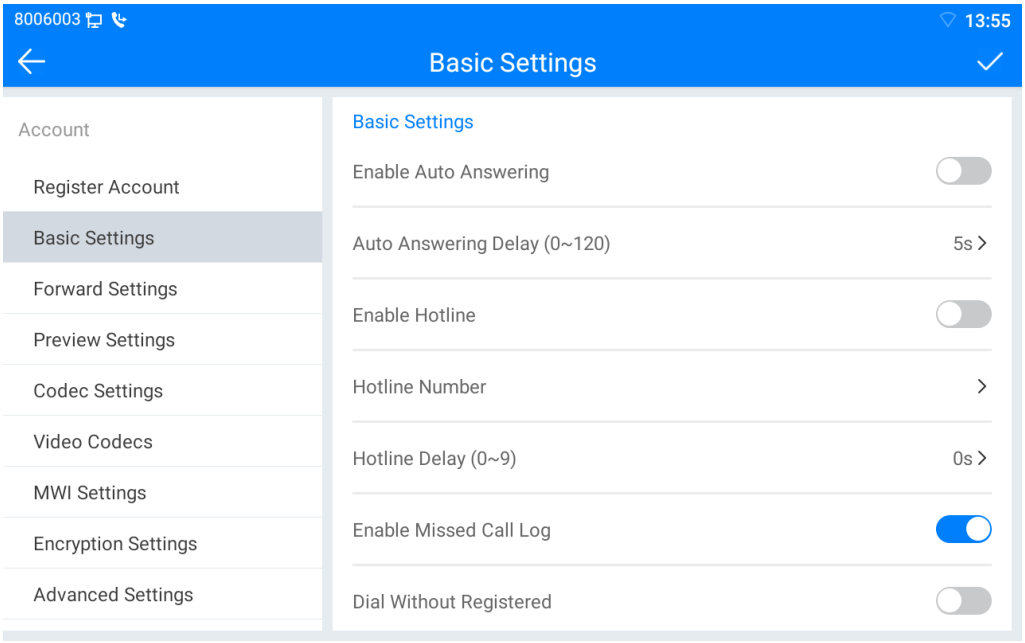
The user can start the automatic answer function in the telephone interface or the webpage interface.

- **Phone interface：**

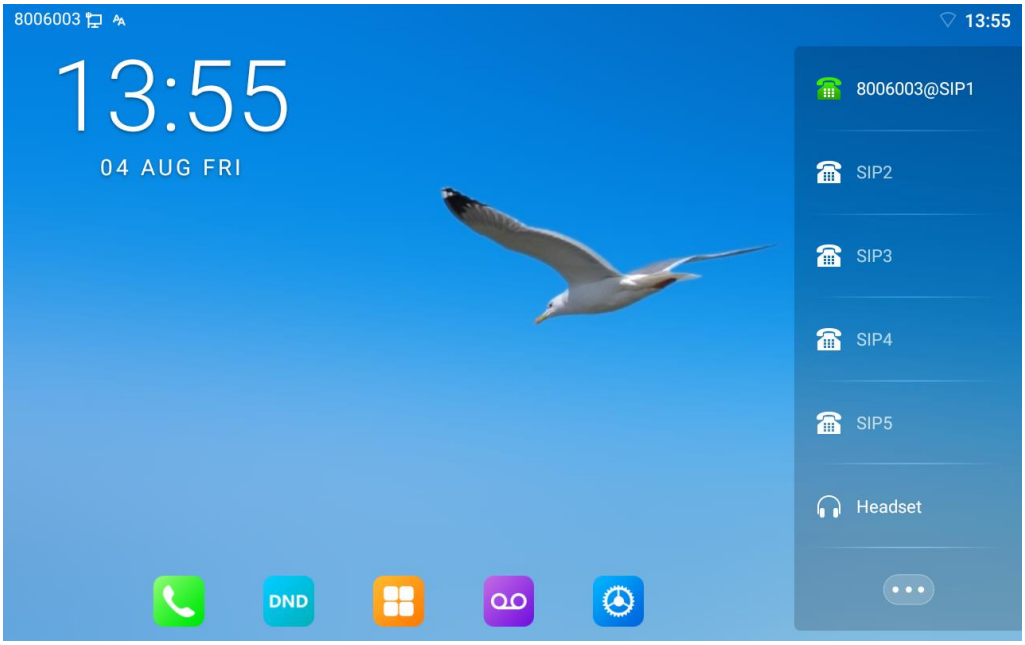
Press [**Phone Settings**] >> [**Account**] >> [**Line**] button;

Press the button to select the line and enter the [**Basic Settings**]. Click on/off the auto answering option and set the auto answering time. The default is 5 seconds.

The icon in the upper left corner of the screen indicates that auto answer is enabled.

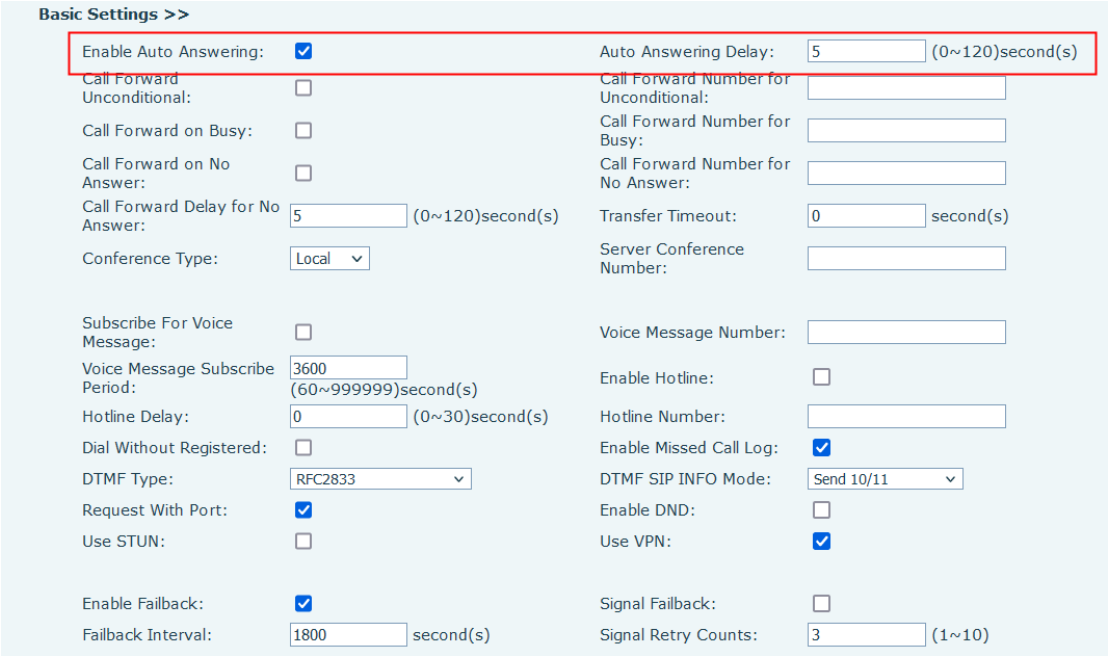


Picture 21 - Line 1 enables auto-answering



- **WEB interface：**

  Log in the phone page, enter [**Line**] >> [**SIP**], select [**SIP**] >> [**Basic settings**], start auto-answering, and click apply after setting the automatic answering time.



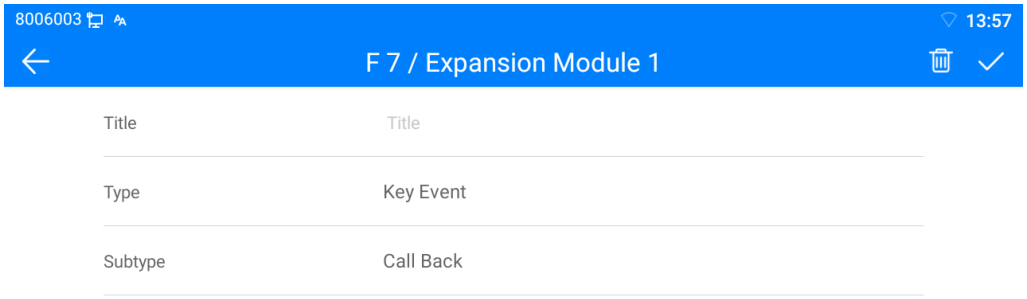
Picture 22 - Web page to start auto-answering

8.8 Call Back

The user can dial back the last call. If there is no call history, press the [**Callback**] button and the phone will say "can't process".

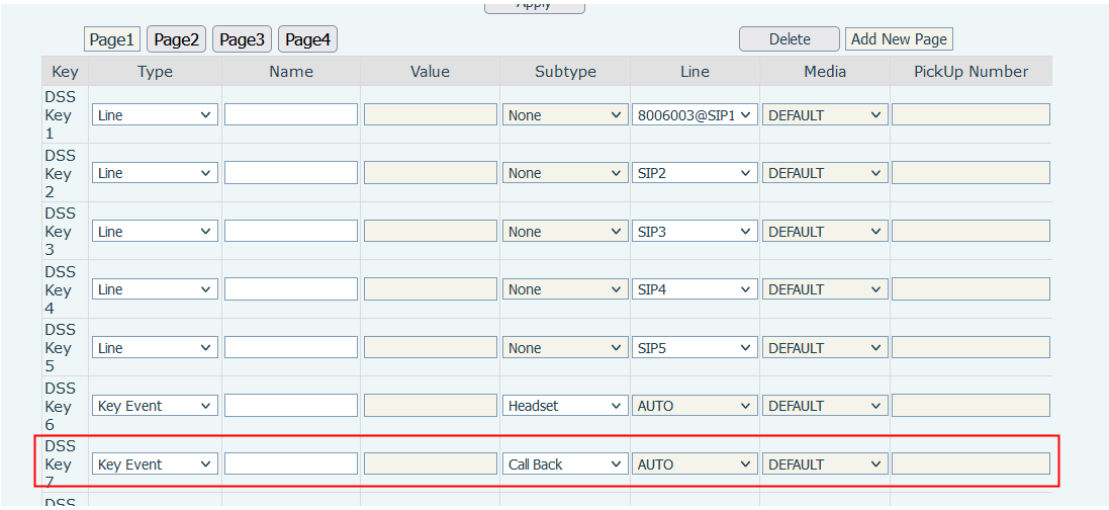
- Set the callback key through the phone interface:

  In standby mode, click the unfold button and long press the function key to be set, it will automatically enter the configuration interface; Type select key event type, subtype select call back, you can set the call back key name in the title input box, press [√] button to save.



Picture 23 - Set the callback key on the phone

- Set the callback key through the web interface:
  Log in the phone page, enter the [**Function Key**] >> [**Function Key**] page, select the function Key, set the type as the function Key, and set the subtype as the callback, as shown in the figure:



Picture 24 - Set the callback key on the web page

8.9 Mute

You can turn on mute mode during a call and turn off the microphone so that the local voice is not heard. Normally, mute mode will be automatically turned off at the end of a call. You can also turn on mute on any screen (such as the free screen) and mute the

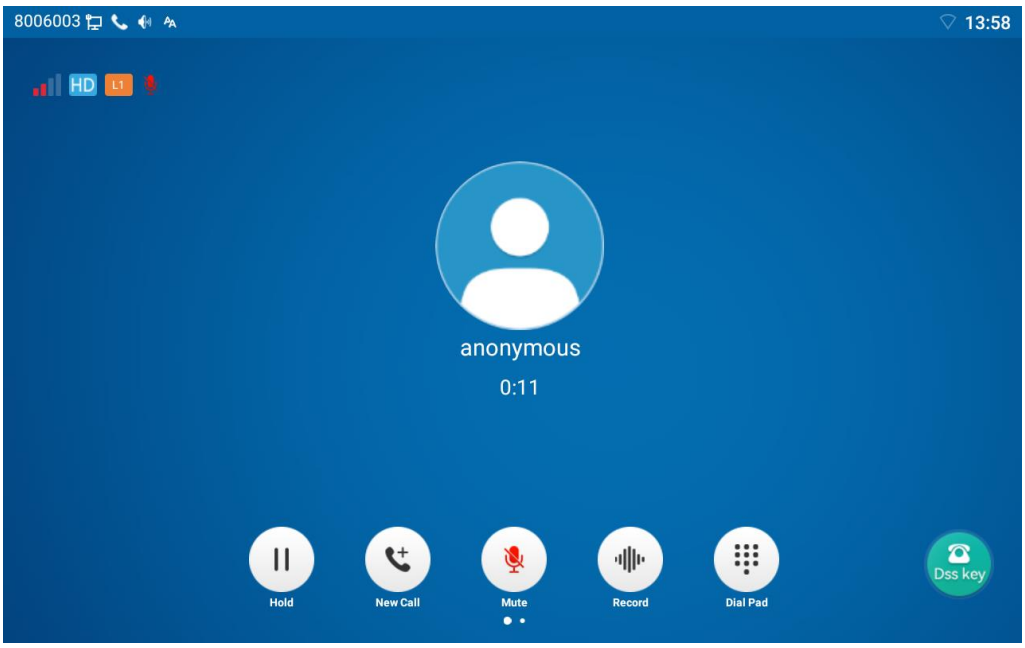
ringtone automatically when there is an incoming call.

Mute mode can be turned on in all call modes (handles, headphones or hands-free).

8.9.1 Mute the Call

- During the conversation, press the mute button on the phone: The red light of the mute button will be turned on.

  Red mute icon is displayed in the call interface, as shown in the figure:



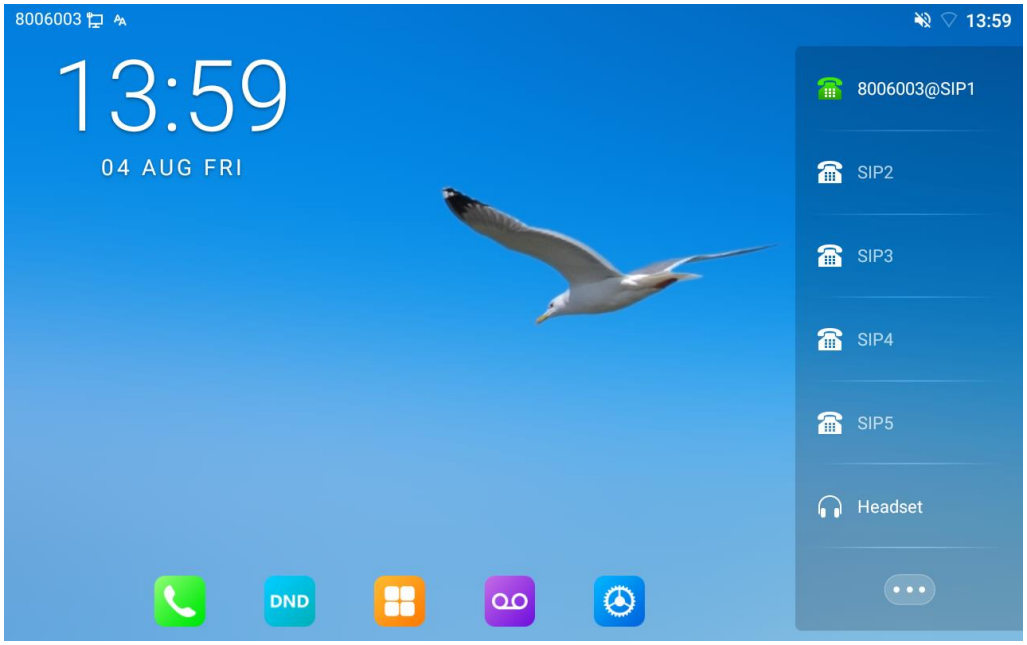
Picture 25 - Mute the call

- Cancel mute: press cancel mute on the phone again. The mute icon is no longer displayed in the call screen. The red light is off by mute button.

8.9.2 Ringing Mute

- Mute: press the mute button when the phone is in standby mode:

  The top right corner of the phone shows the bell mute icon , Mute button red light is always on, when there is an incoming call, the phone will display the incoming call interface but will not ring.

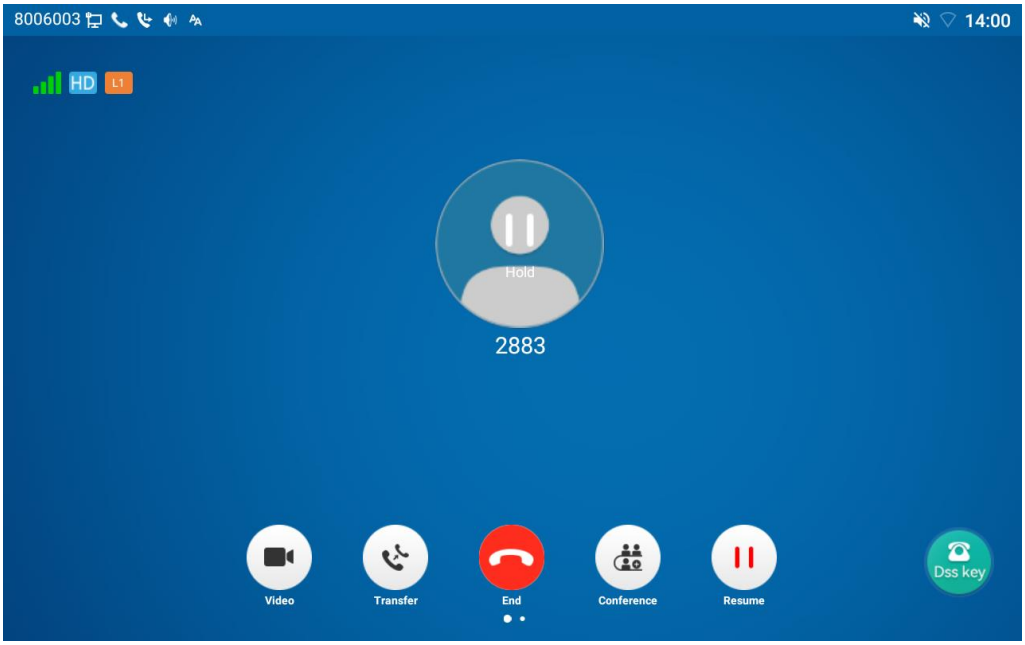


Picture 26 - Ringing mute

- Cancel ring tone mute: On the standby or incoming call screen, press the mute button again or volume up botton to cancel ring tone mute. It will no longer shows mute icon in upper right corner after cancel .The phone mute icon is off

8.10 Call Hold/Resume

The user can press the [**Hold**] button to maintain the current call, and this button will become the [**Resume**] button, and the user can press the "resume" button to restore the call.



Picture 27 - Call hold interface

8.11 DND

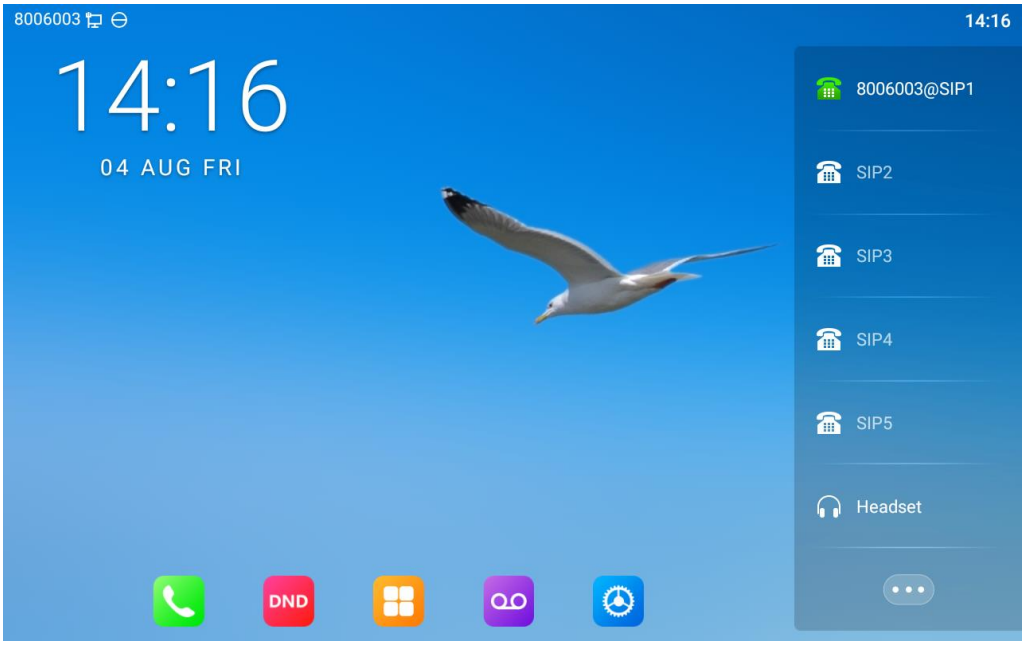
User may enable Do-Not-Disturb (DND) feature on the device to reject incoming calls (including call waiting). The DND can be enabled on line basis.

Enable/Disable phone all lines DND, Methods the following：

- Phone interface：Default standby mode，
  1) Press [**DND**] button to enter the DND setting interface, select line or phone to enable DND, the icon will become red

. The phone status prompt bar will have a DND icon.
  2) Press [**DND**] button to enter the DND setting interface and disable DND, the icon will be become blue

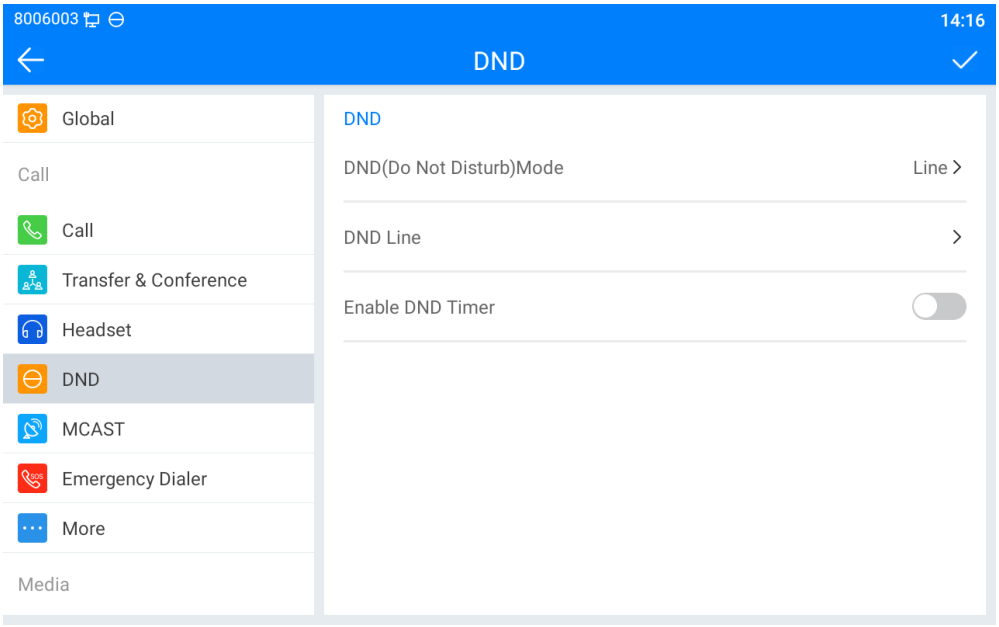
. DND icon in phone status prompt bar disappears.



Picture 28 - Enable DND

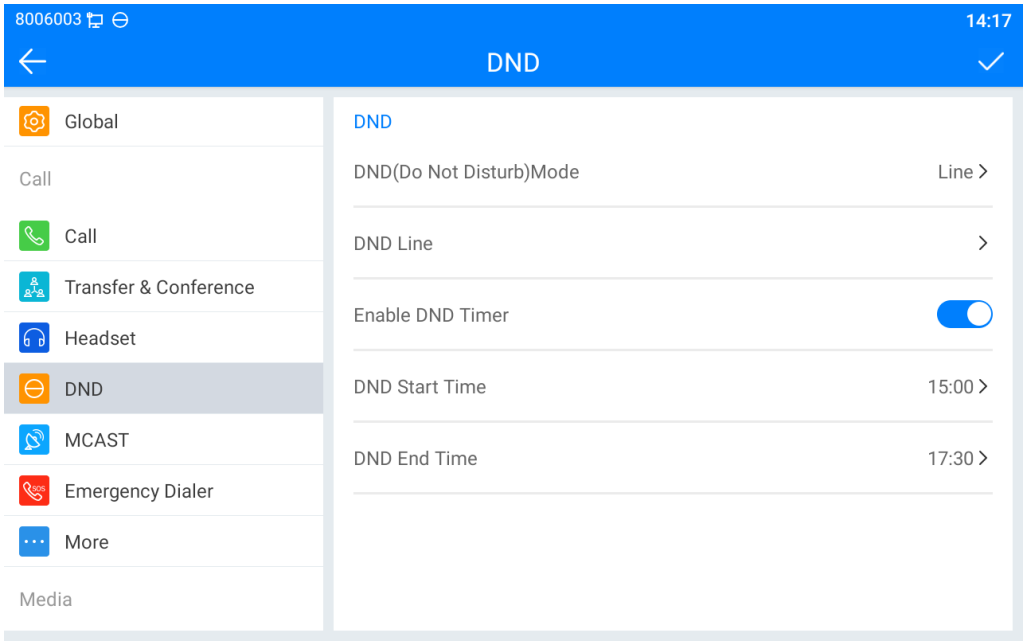
If the user wishes to enable/disable the uninterrupted function on a specific line, the user can set the uninterrupted function on the page of configuring the line.

1) Press [**Phone Settings**] >> [**Call**] >> [**DND**] button, Enter the [**DND**] editing interface.
2) Click the left/right navigation button to select the line to adjust the mode and state of "do not disturb", and then press the [**OK**] button to save.
3) The user will see the DND icon turn red, and the sip-line has enabled the mode of "DND".



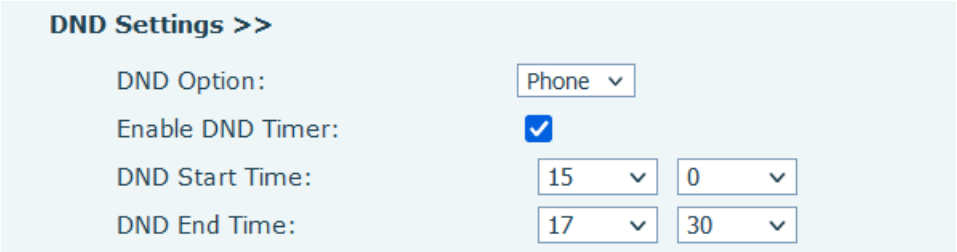
Picture 29 - DND setting interface

The user can also use the DND timer. After the setting, the DND function will be automatically turned on and the DND icon will turn red in the time range.



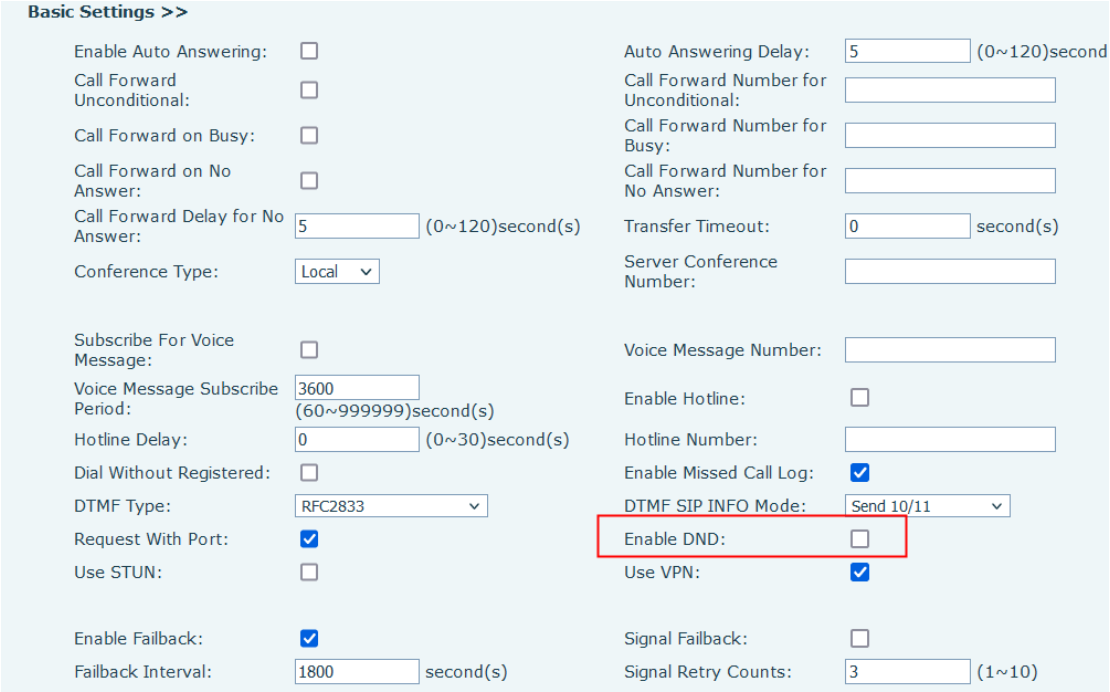
Picture 30 - DND timer

- WEB interface：Enter [**Phone setting**] >> [**Features**] >> [**DND settings**]，set the DND type (off, phone, line), and DND timing function.



Picture 31 - DND Settings

The user turns on the DND for a specific route on the web page：Enter [**Line**] >> [**SIP**], select a [**Line**] >> [**Basic settings**], and enable DND.



Picture 32 - Line DND

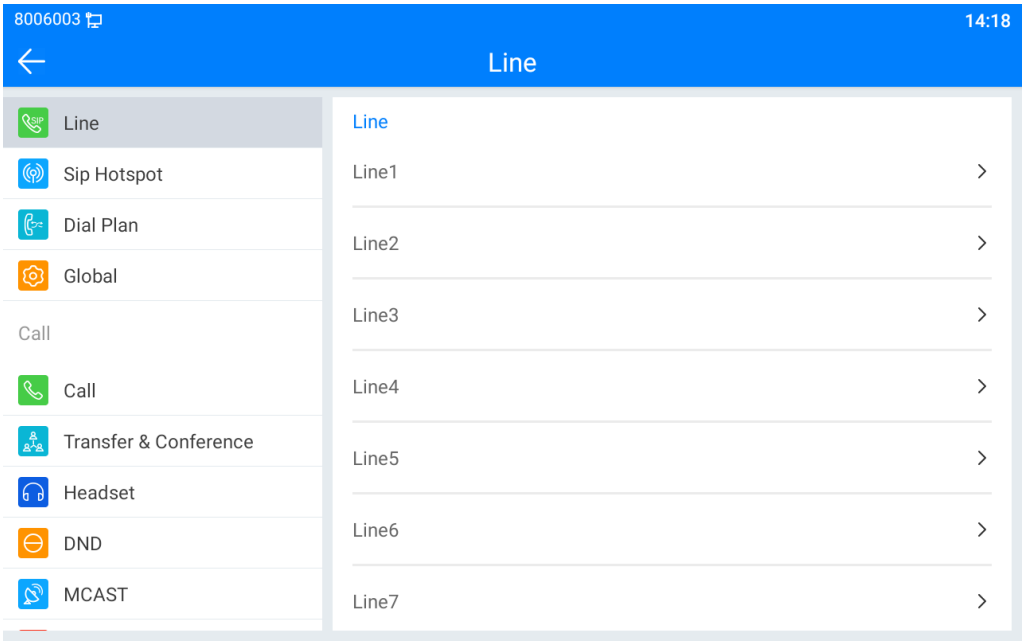
8.12 Call Forward

Call forward is also known as 'Call Divert' which is to divert the incoming call to a specific number based on the conditions and configurations. User can configure the call forward settings of each line.

There are three types,

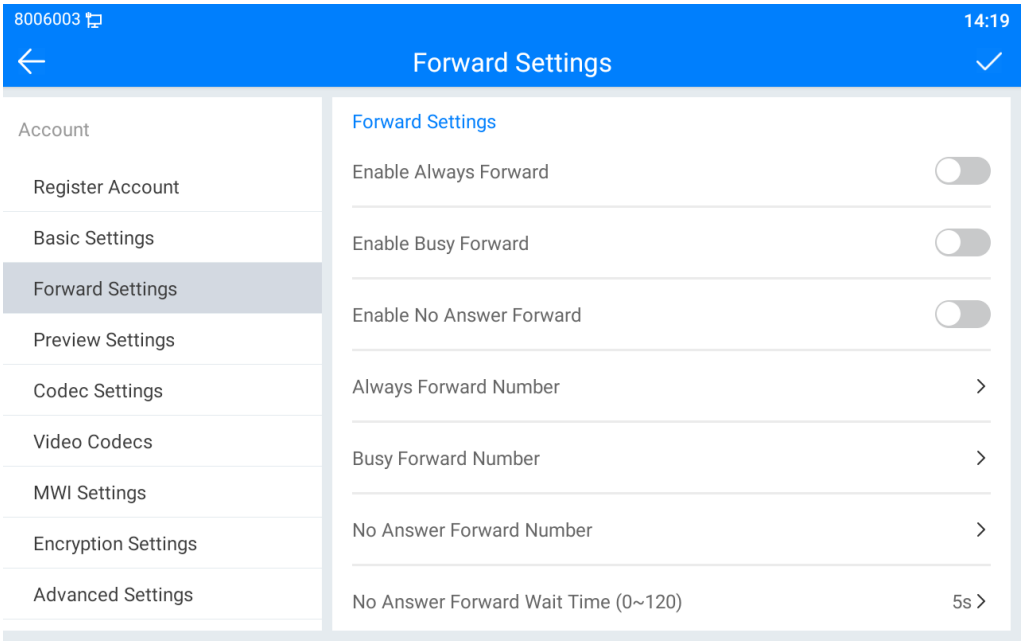
- **Unconditional Call Forward –** Forward any incoming call to the configured number.
- **Call Forward on Busy –** When user is busy, the incoming call will be forwarded to the configured number.
- **Call Forward on No Answer –** When user does not answer the incoming call after the configured delay time, the incoming call will be forwarded to the configured number.

- Phone interface：Default standby mode
  1) Press [**Application**] >> [**Phone Settings**] >> [**Account**] >> [**Line**] button, click any line to set up forward settings.



Picture 33 - Select the line to set up call forwarding

2) Select the line to be set and enter the call forward settings interface

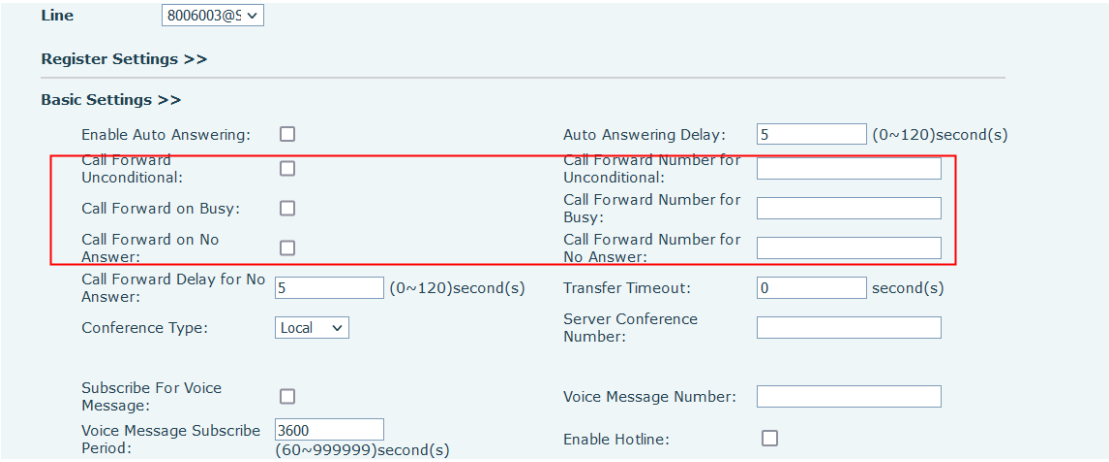


Picture 34 - Select call forward type

3) Click the slide button to select on/off.

4) Configure parameters by clicking Settings and enter the required information. When finished, press the [√] button to save the changes.

- WEB interface：Enter [**Line**] >> [**SIP**], Select a [**Line**] >> [**Basic settings**], and set the type, number and time of forwarding.



Picture 35 - Set call forward

8.13 Call Transfer

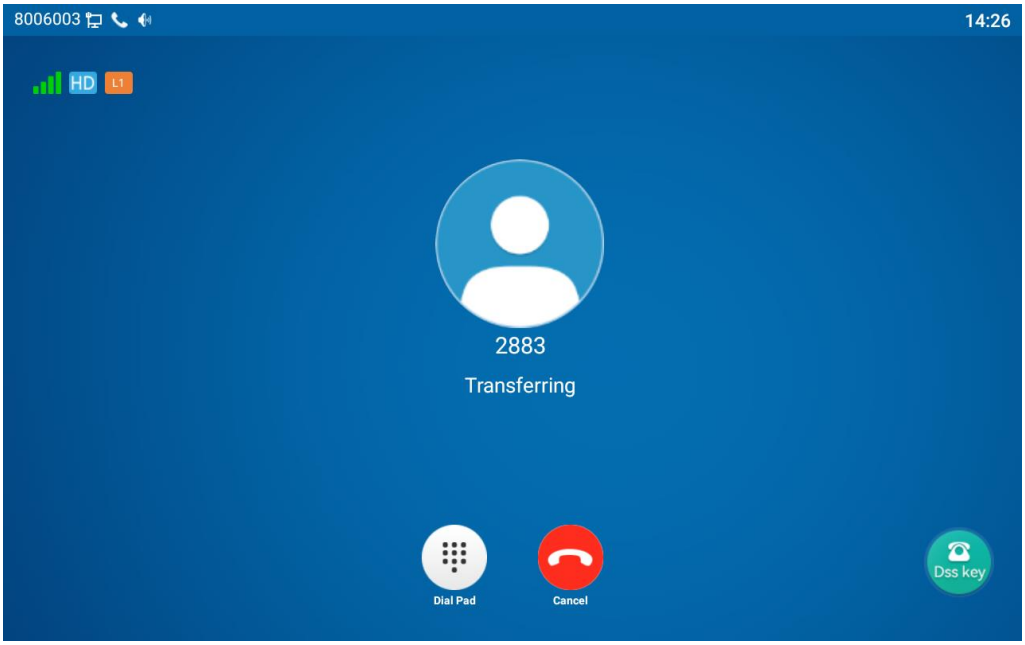
When the user is talking with a remote party and wish to transfer the call to another remote party, there are three ways to transfer the call, blind transfer, attended transfer and Semi-Attended transfer.

- Blind transfer：Do not need to negotiate with the other side, directly transfer the call to the other side.
- Semi-Attended transfer.：When you hear the ring back, transfer the call to the other party.
- Attended transfer：When the caller answers the call, transfer the call to the caller.

Note！For more transfer Settings, please refer to [12.5 Line >> Dial Plan](#)。

8.13.1 Blind transfer

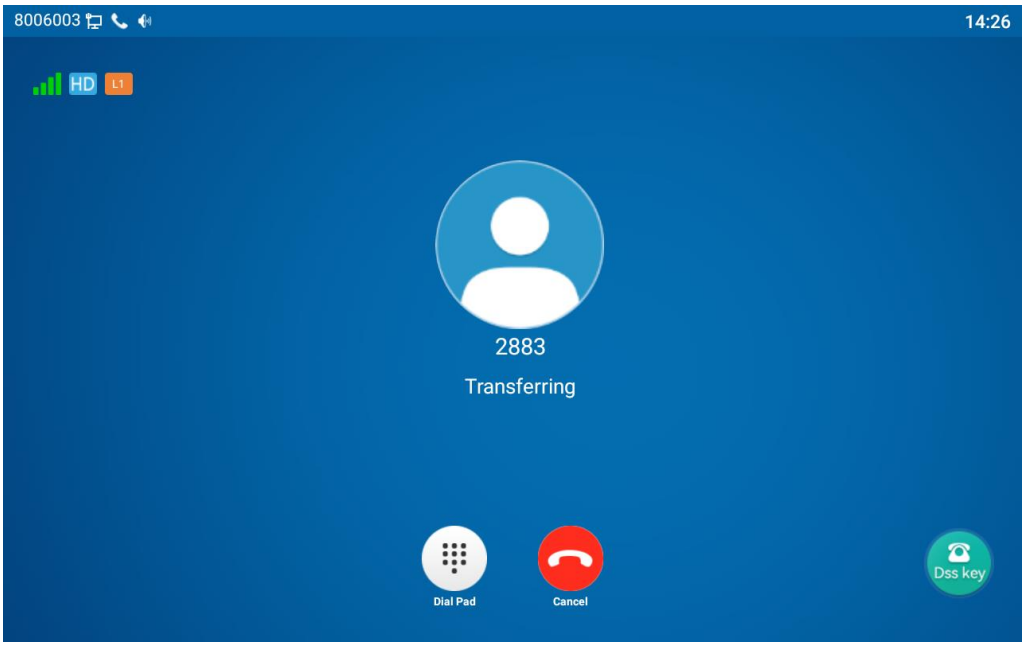
During the call, the user presses the function menu button [**Transfer**] or the transfer button on the phone , Enter the number to transfer or press the contact button or the history button to select the number, press the transfer key again or blind transfer to a third party. After the third party rings, the phone will show that the transfer is successful and hang up.



Picture 36 - Transfer interface

8.13.2 Semi-Attended transfer

During the call, the user presses the function menu button [transfer] or the transfer button on the phone to input the number to be transferred or press the contact button or the historical record button to select the number, and then press the call button. When the third party is not answered, press the transfer on the call interface to make the semi-attendance transfer or press the end button to cancel the semi-attendance transfer.

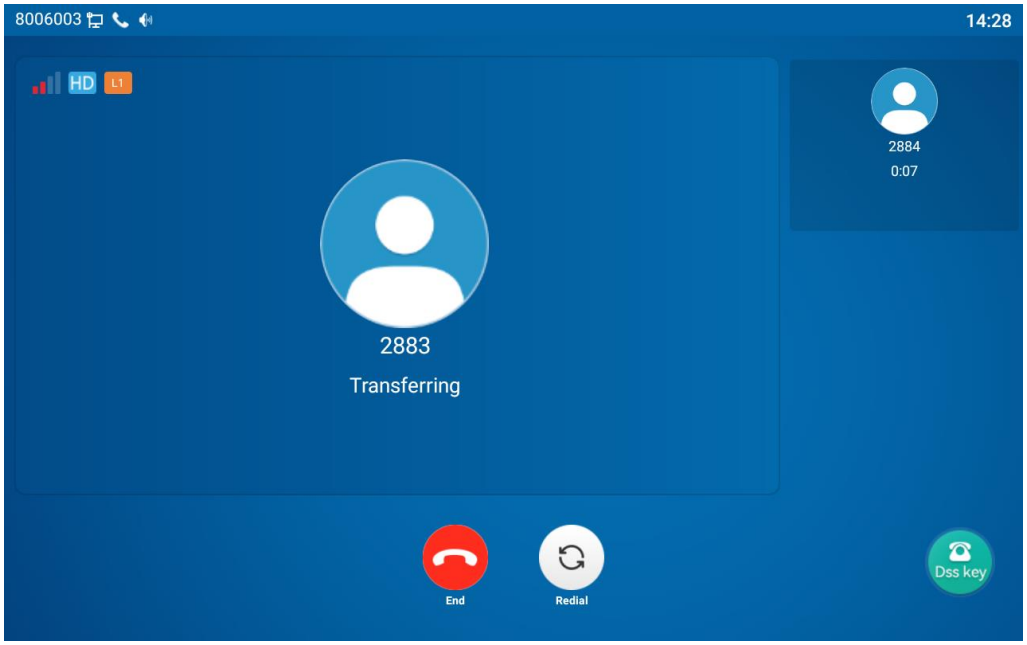


Picture 37 - Semi-Attended transfer

8.13.3 Attended transfer

Attendance transfer is also known as "courtesy mode", which is to transfer the call by calling the other party and waiting for the other party to answer the call.

Calling is the same procedure. In dual call mode, press the "transfer" button to transfer the first call to the second call.



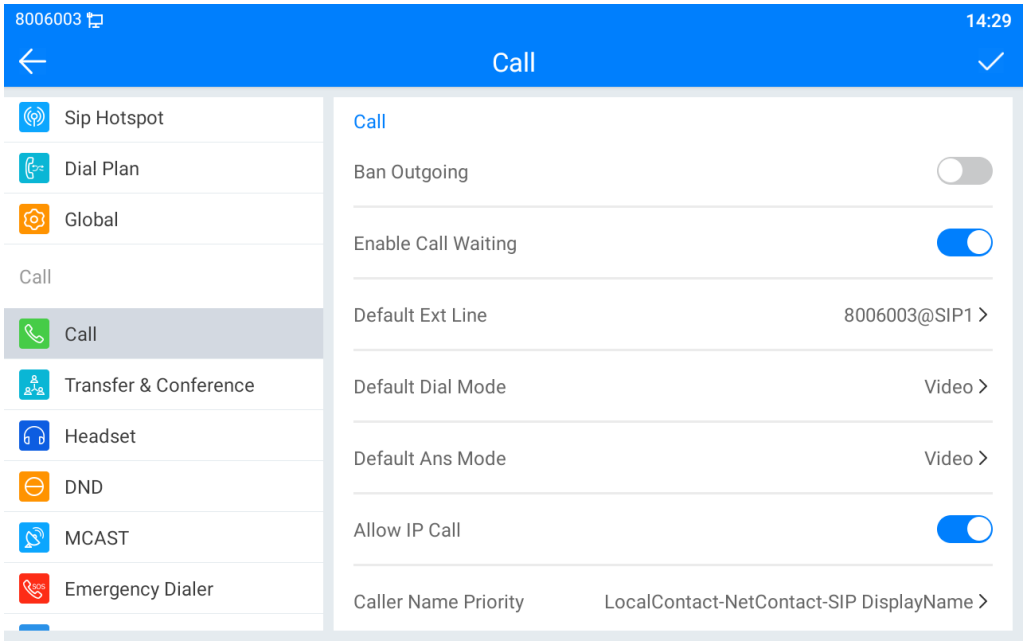
Picture 38 - Attended transfer

8.14 Call Waiting

- Enable call waiting: new calls can be accepted during a call.
- Disable call waiting: new calls will be automatically rejected and a busy tone will be prompted.
- Enable call waiting tone: when you receive a new call on the line, the tone will beep.

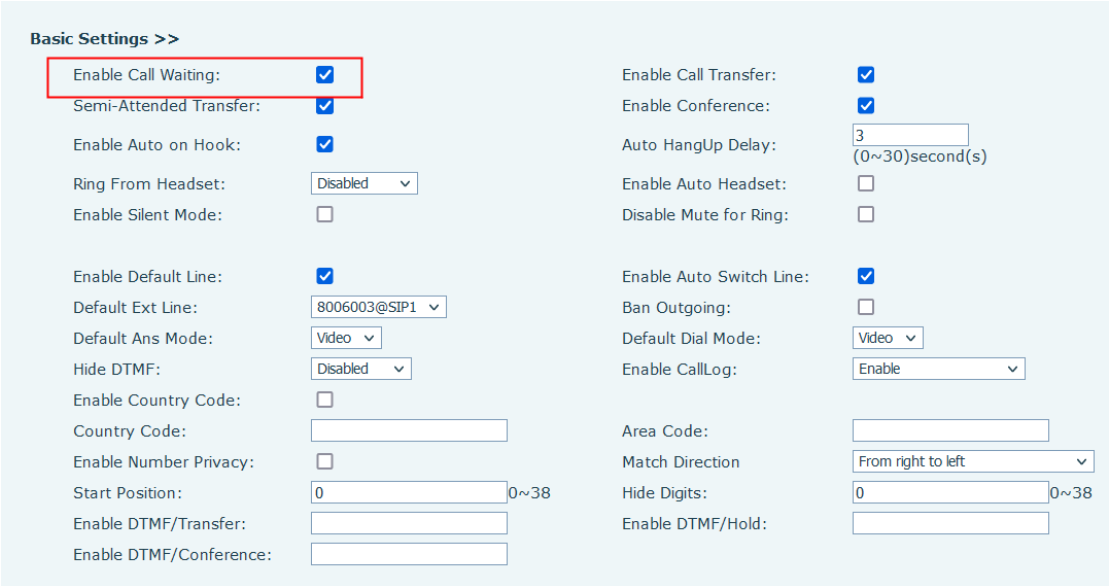
The user can enable/disable the call waiting function in the phone interface and the web interface.

- Phone interface：Press [**Phone Settings**] >> [**Call**] >> [**Call**], enable/disable call waiting and call waiting tone.

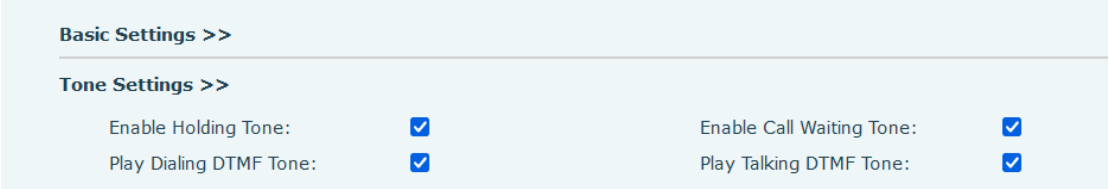


Picture 39 - Call waiting setting

- WEB interface: Enter [**Phone Settings**] >> [**Features**] >> [**Basic Settings**], enable/disable call waiting and call waiting tone.



Picture 40 - Web call waiting setting

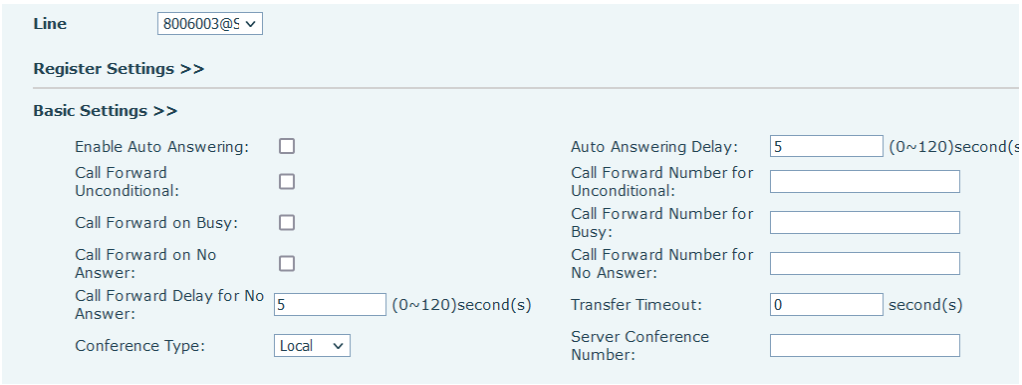


Picture 41 - Web call waiting tone setting

8.15 Conference

8.15.1 Local Conference

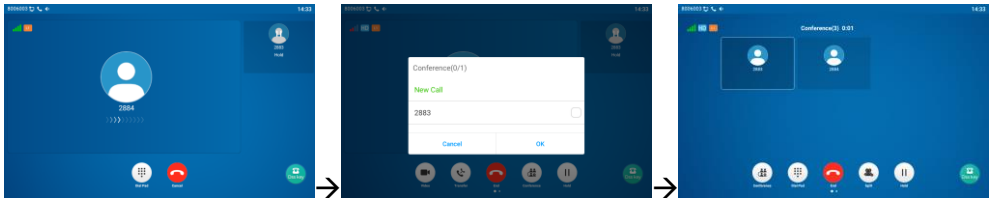
To conduct local conference, the user needs to log in the webpage and enter [**Line**] >> [**SIP**] >> [**Basic settings**]. The meeting mode is set as local (the default is local mode), as shown in the figure:



Picture 42 - Local conference setting

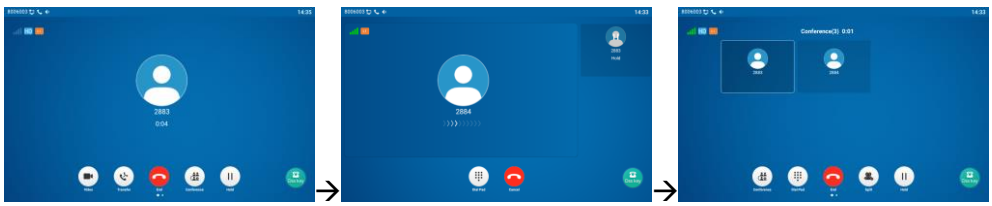
Two ways to create a local conference：

1） The device has two channels of communication. Press the conference button on the call interface. When selecting the conference number, select the other number that already exists.



Picture 43 - Local conference（1）

2） If the device has a call all the way, press the conference key in the call interface, enter the number to join the meeting and press the call; After the opposite end is answered, press the conference button again to set up the local tripartite conference：



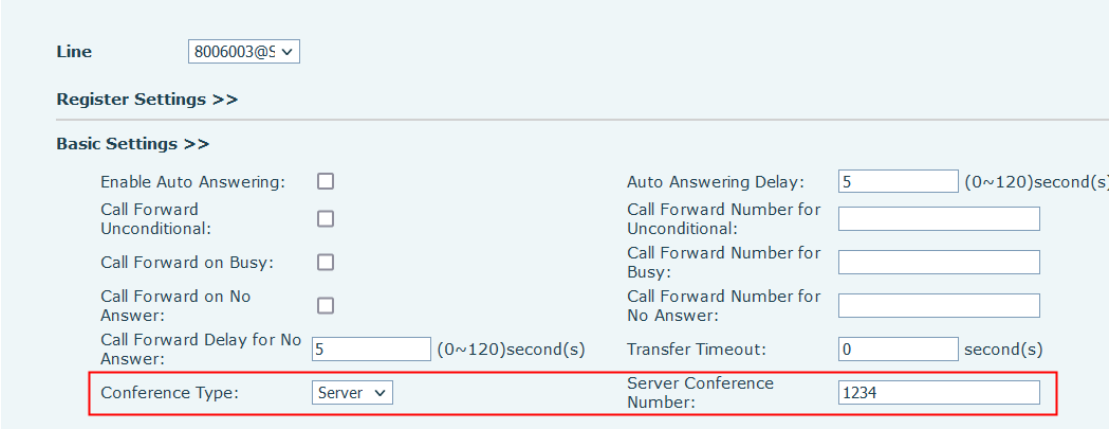
Picture 44 - Local conference（2）

Note：During the conference, press the split button to split the conference and press the end button to end the call.

8.15.2 Network Conference

Users need server support for network conference.

Log in the web page, enter [**Line**] >> [**SIP**] >> [**Basic settings**], set the conference mode as server mode (default is local mode), set the server conference room number (please consult your system administrator), as shown in the figure：



Picture 45 - Network conference

Method to join a network conference：

- Call the numbers of network conference and when they enter the password then will enter the conference room.
- The two phones have established common calls. Press the conference button to invite new members to the conference. Follow the voice prompt to operate.

Note: the upper limit of the number of participants in the network conference varies according to the server.

8.16 Call Park

Call Park requires server support. Consult your system administrator for support.

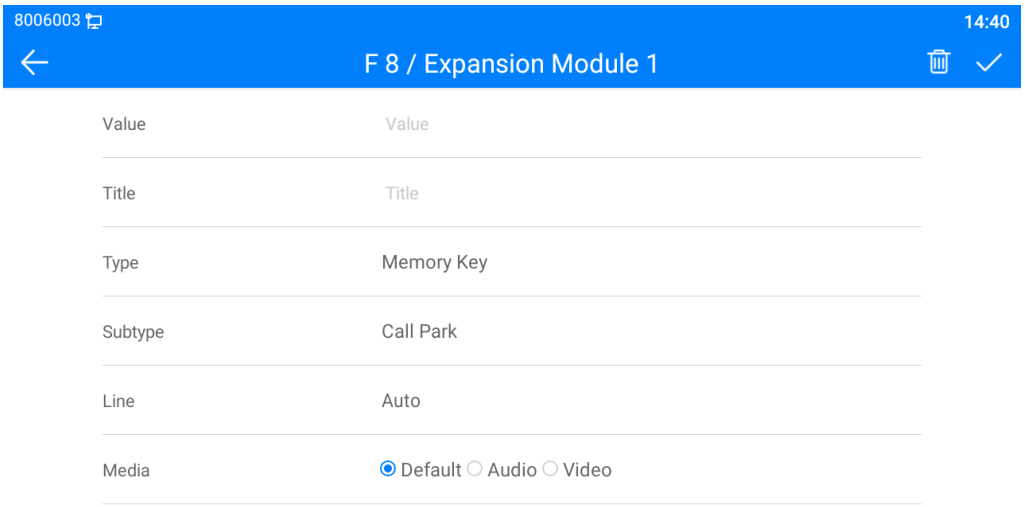
When you are on the call, it is not convenient to answer the phone at this time, you can press the configured park button to hold the call; After the Call Park is successful, you can resume the call by pressing the configured park button on other devices.

Set the call park button：

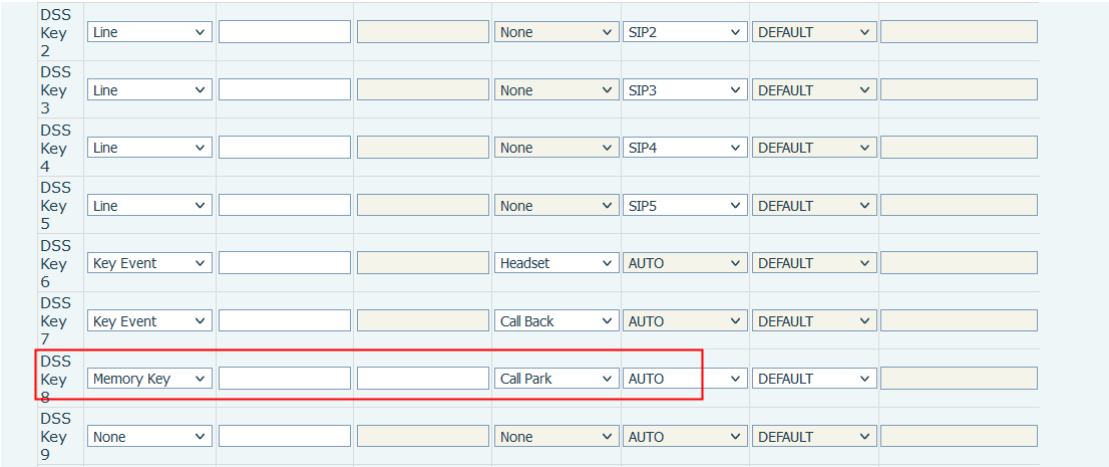
- Phone interface: In standby mode, click the unfold button and long press an editable

key to enter the function key setting interface. key function key type as memory and subtypes to call park, reside values for the server calls park number, set up corresponding SIP lines.

- WEB interface: log in the phone page, enter the [**Function Key**] >> [**Function Key**] page, select a DSSkey, set the function key type as memory key, the subtype as call park, and the value as the call park number of the server, and set the corresponding SIP line.



Picture 46 - Phone set call park



Picture 47 - WEB set call park

8.17 Pick Up

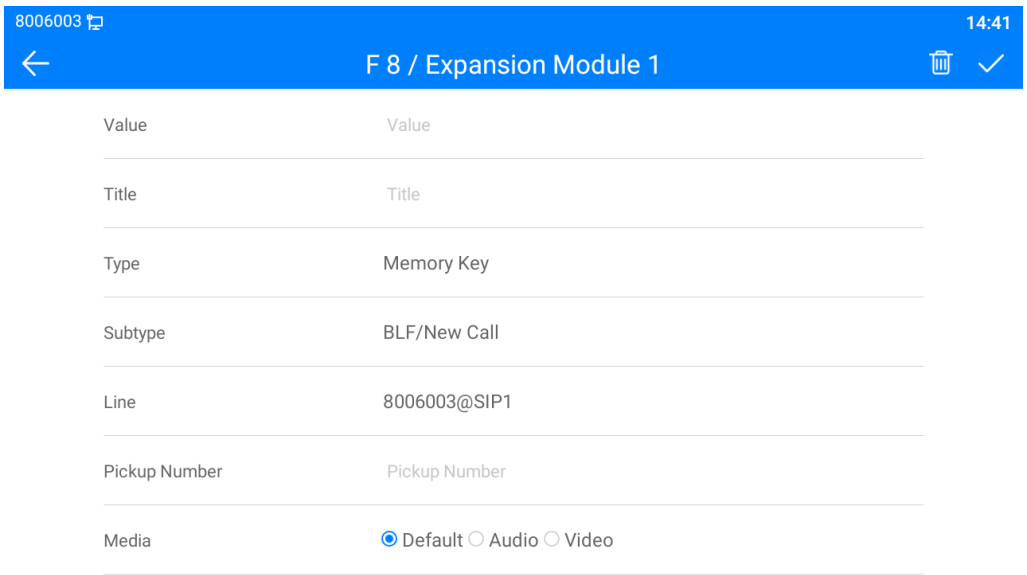
Picking-up requires server support. Consult your system administrator for support.

You can use the Pick Up function to answer incoming calls from other users. The phone can pick up incoming calls by configuring DSSkey for BLF and setting the Pick Up code.

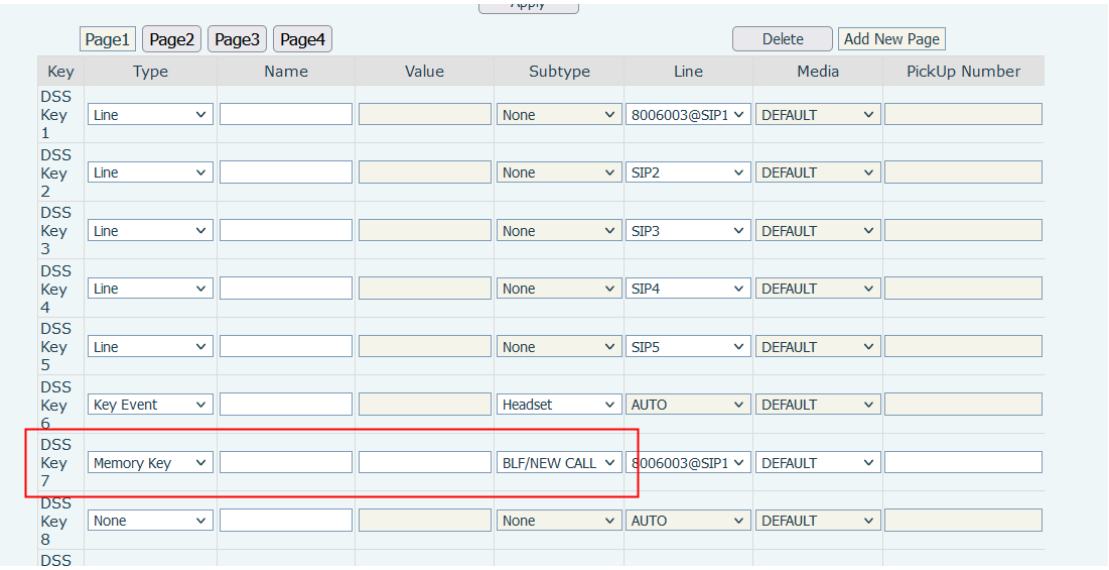
In standby mode, click the "unfold" button and long press an editable key to enter the interface of function key setting. Set the function key type as memory key and the subtype as BLF/NEW CALL, and set the corresponding SIP line. Finally fill in the grab number.

- Set the line, function key type as memory key, subtype as BLF/NEW CALL, set subscription number, and pick up code
  - Other phones call the subscription number, and the opposite end is in the incoming ring.
  - Press the DSS key to pick up the phone.
  - The caller picks up the call and speaks to it.

  WEB interface: Log in the phone webpage, enter the [**Function Key**] >> [**Function Key**] page, select a DSSkey, set the memory key type as memory key, the subtype as BLF/NEW CALL, and set the corresponding SIP line and pick up codes.



Picture 48 - Phone pick up setting



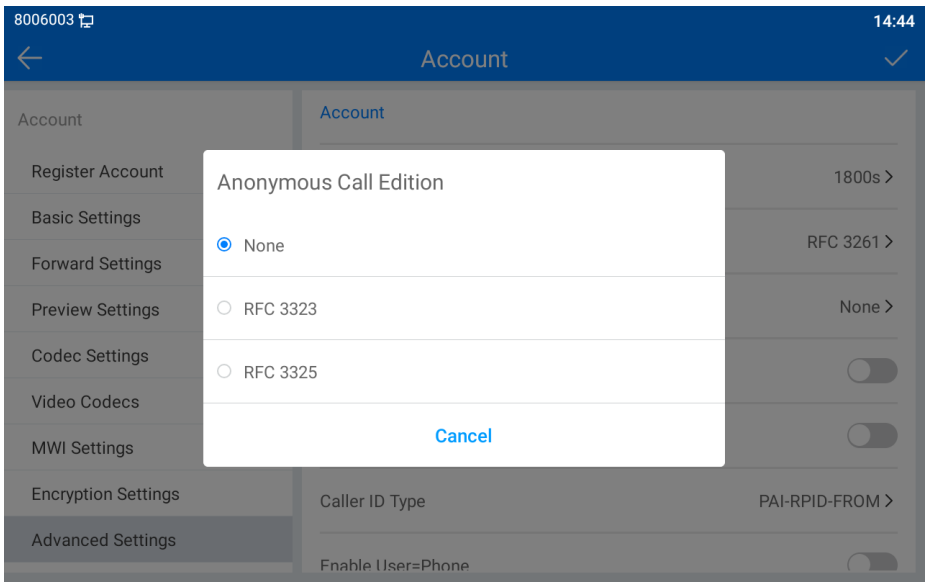
Picture 49 - WEB pick up setting

8.18 Anonymous Call

8.18.1 Anonymous Call

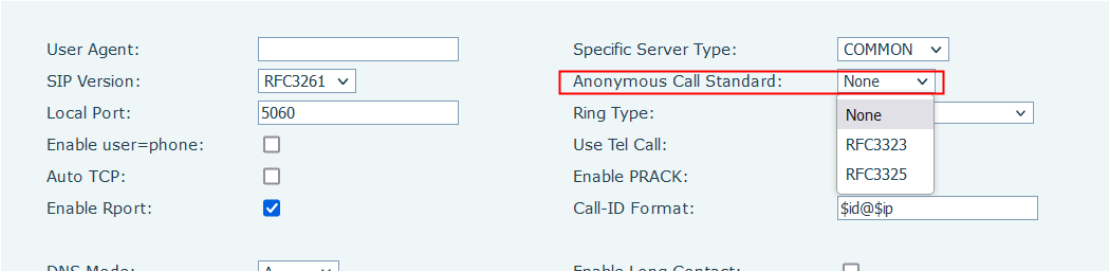
The phone can set up anonymous calls to hide the calling number and the calling name.

- You can see anonymity in the context of [**Phone Settings**] >> [**Account**] >> [**Line**] >> [**Advanced Settings**] >> [**Anonymous call edition**].
- The default is none, which is off, and RFC3323 and RFC3325 are optional.
- Select any one to open the anonymous call.



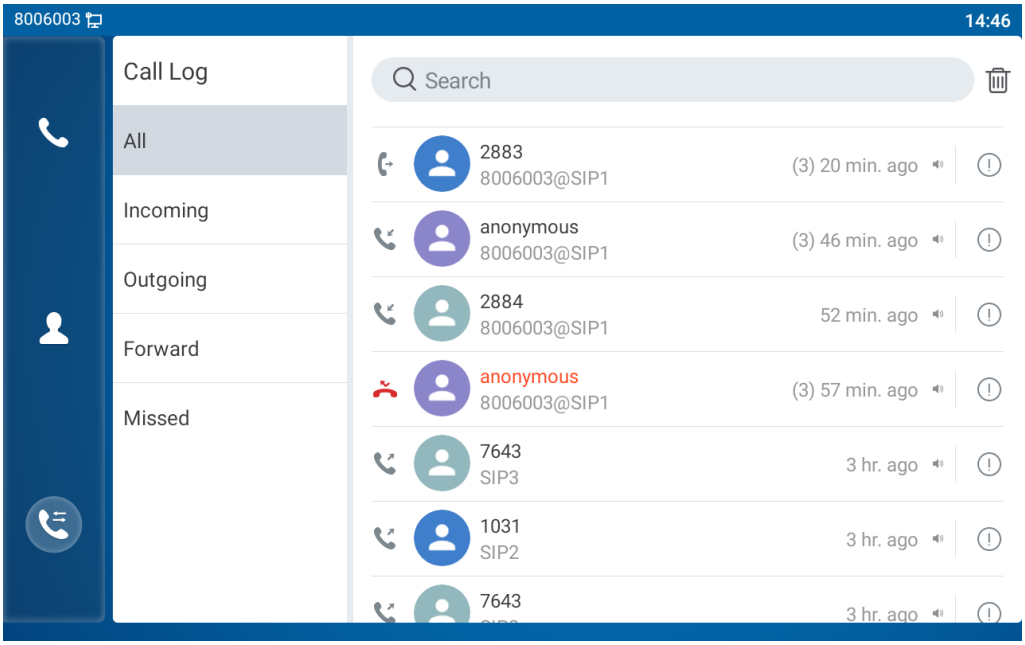
Picture 50 - Enable anonymous call

- On the web page [**Line**] >> [**SIP**] >> [**Advanced Settings**] can also open anonymous calls.
- Setting to enable anonymous calls also corresponds to the SIP line. That is, the setting under the SIP1 page can only take effect on the SIP1 line.



Picture 51 - Enable Anonymous web page call

The following is a transcript of an anonymous call received by the phone.

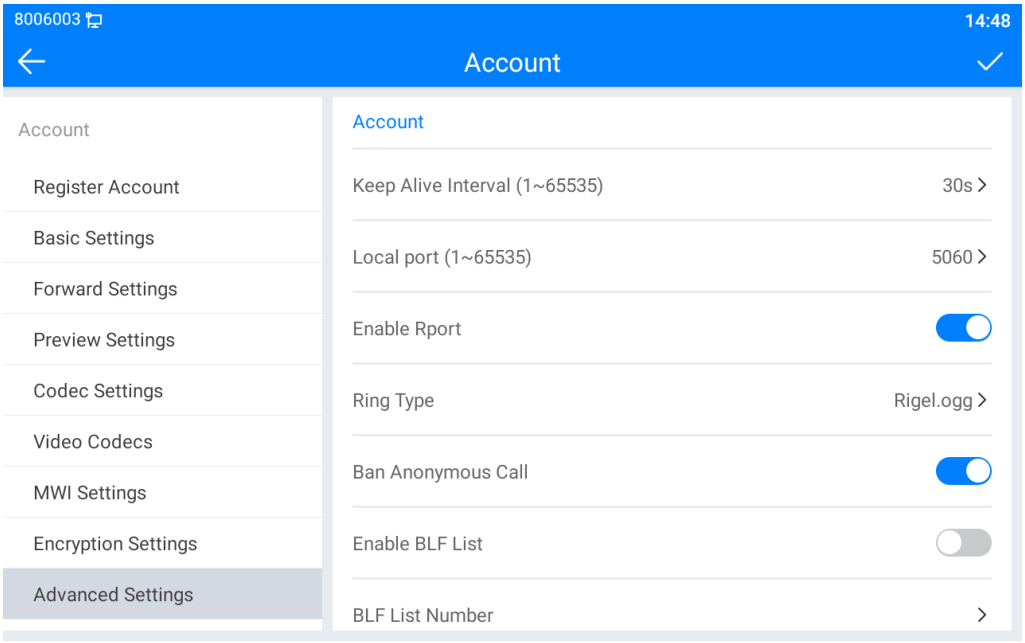


Picture 52 - Anonymous call log

8.18.2 Ban Anonymous Call

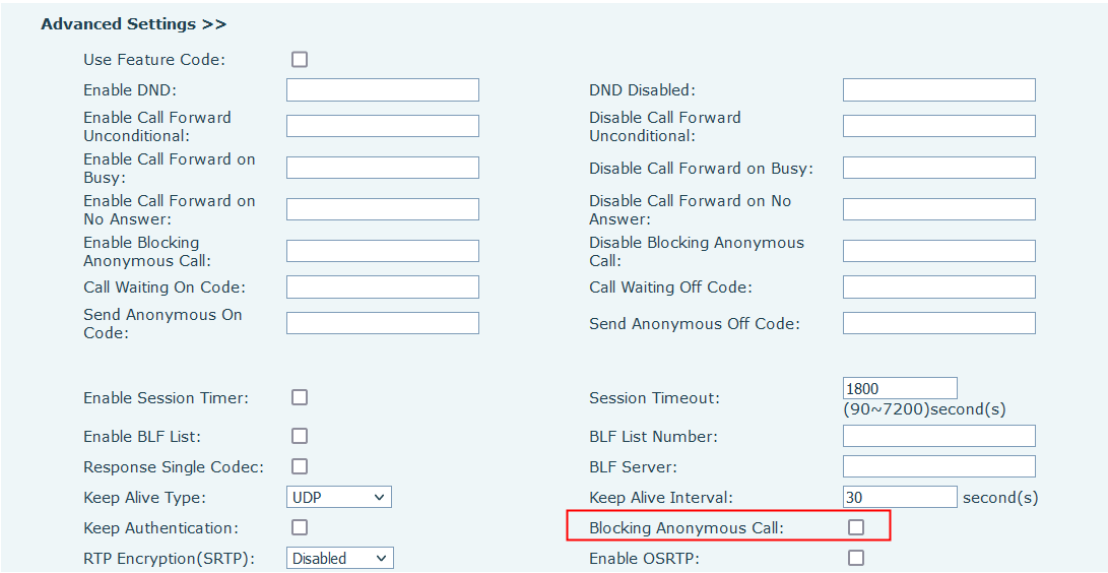
The device can be set to prohibit anonymous calls, that is anonymous calls to the number will be directly rejected.

- In the phone [**Phone Settings**] >> [**Account**] >> [**Line**] >> [**Advanced Settings**] >> [**Ban anonymous call**], can be enable and disable.



Picture 53 - Anonymous calls are not allowed on the phone

- On the web page [**Line**] >> [**SIP**] >> [**Advanced Settings**], also can disable anonymous calls.
- The setup to disable anonymous calls also corresponds to the SIP line. That is, the setting under the SIP1 page can only take effect on the SIP1 line.

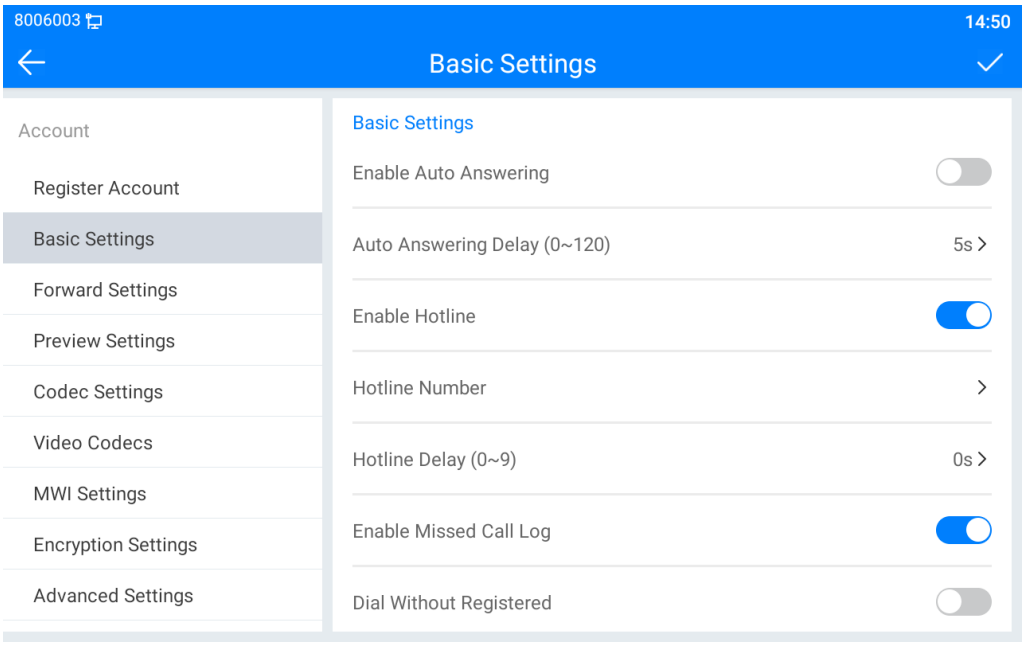


Picture 54 - Page Settings blocking anonymous call

8.19 Hotline

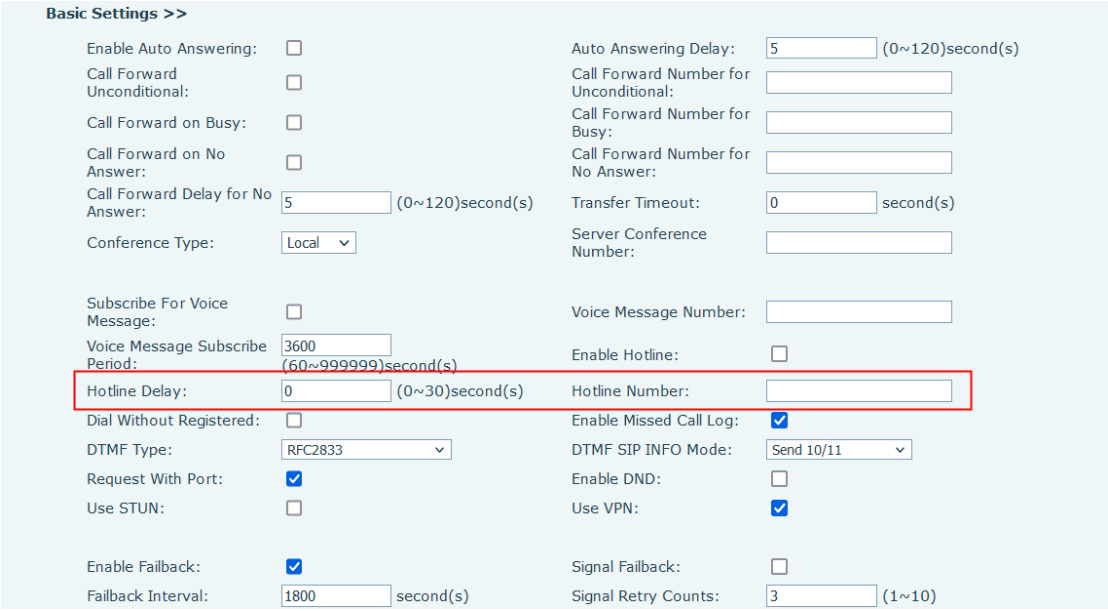
The device supports hotline dialing. After setting up the hotline dialing, directly pick up the handset, hands-free, earphone, etc., and the phone will automatically call according to the hotline delay time.

- In the phone [**Phone Settings**] >> [**Account**] >> [**Line**] >> [**Basic Settings**], click to enter.
- Then set the hotline for each SIP line, which is off by default.
- Open the hotline, set the hotline number, set the delay time of the hotline.



Picture 55 - Phone hotline setting interface

- On the website [**Line**] >> [**SIP**] >> [**Basic Settings**], can also set up a hotline.
- The setup hotline also corresponds to the SIP line. That is, the hotline set in the SIP1 webpage can only be activated in the SIP1 line.



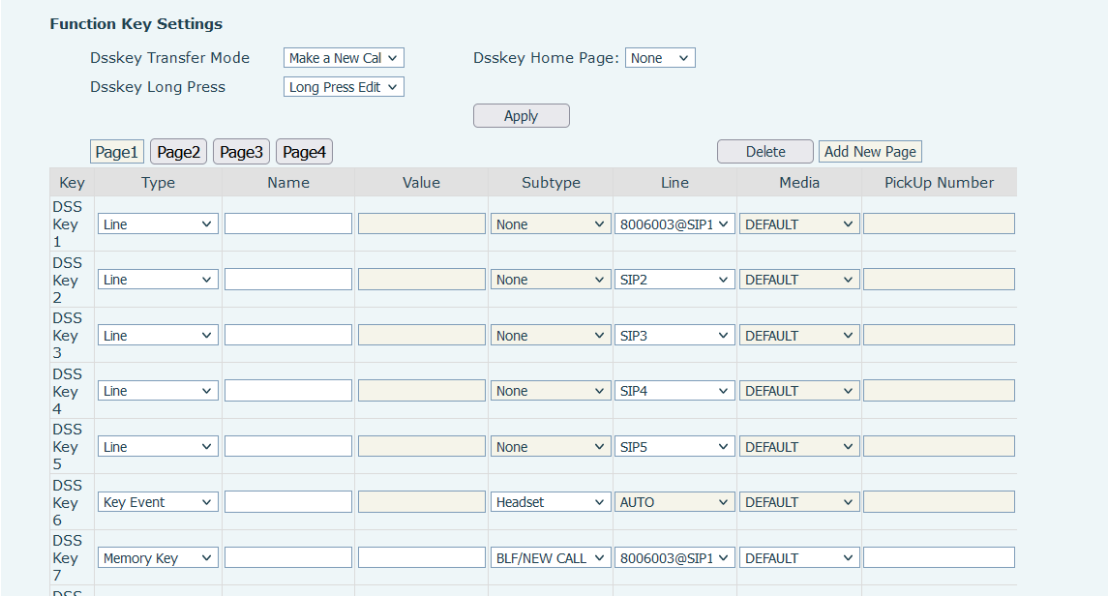
Picture 56 - Hotline set up on webpage

9 Advance Function

9.1 BLF (Busy Lamp Field)

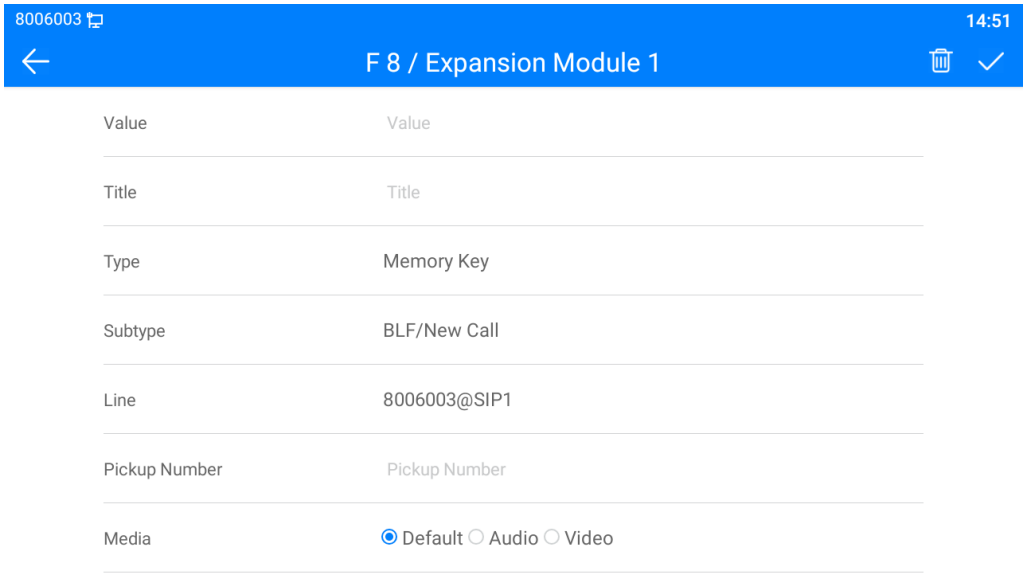
9.1.1 Configure the BLF Functionality

- Page interface: log in the phone page, enter the [**Function key**] >> [**Function key**] page, select a DSS key, set the function key type as memory key, choose subtype among BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, set BLF/DTMF value as the number which is subscribed, set the corresponding SIP line. The pickup number is provided by the server. The specific use of reference 8.17 Pick up.



Picture 57 - Web page configuration BLF function key

- Phone interface: Click unfold, long press a function key to enter the function key Settings interface, key function key types of memory, a subtype of BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, BLF/DTMF, the values to be subscription number, and set up corresponding SIP lines.



Picture 58 - Phone configuration BLF function key

Table 10 - BLF Function key subtype parameter list

Subtype	Standby is described	Calling is described
BLF/NEW CALL	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you create a new call along with the subscribed number.
BLF/BXFER	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you blind transfer the call to the subscribed number.
BLF/AXFER	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you attendance transfer the call to the subscribed number.
BLF/Conference	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you invite the subscriber number to join the meeting.
BLF/DTMF	Pressing the BLF key while standby to dial the subscriber number.	When the BLF key is pressed while talking to another user, the phone automatically sends the DTMF corresponding to the BLF key number.

9.1.2 Use the BLF Function

The BLF, also known as a "busy light field," notifies the user of the status of the subscribed object and is used by the server to pick up the call. BLF helps you monitor the other person's status (idle, ringing, talking, off).

BLF function：

- Monitor the status of subscribed phones.
- Call the subscribed number.
- Transfer calls to the subscribed number.
- Pick up incoming calls from subscribed number.

1） Monitors the status of subscribed phones.

Configuration BLF function keys, when the subscription of the number of the state (idle, ringing, talking) is changed, the function key state of LED lights will have corresponding change, see Appendix Ⅲ 6.3 to get to know each other under different status leds.

2） Call the subscribed number.

When the phone is in standby mode, press the configured BLF key to call out the subscribed number.

3） Transfer calls/calls to the subscribed number.

Refer to Table 9.1.1-blf function key subtype parameter list, the BLF key can be used for blind rotation, attention-rotation and semi-attention-rotation of the current call, and also can invite the subscribed number to join the call and send DTMF, etc.

4） Pickup incoming calls from subscribed phones.

When configuring BLF function key, configure the pickup number.

When the subscription number telephone rings, refer to Appendix Ⅲ 6.3 BLF LED will flash a red light. At this point, press the BLF button to answer the incoming call from the subscribed number.

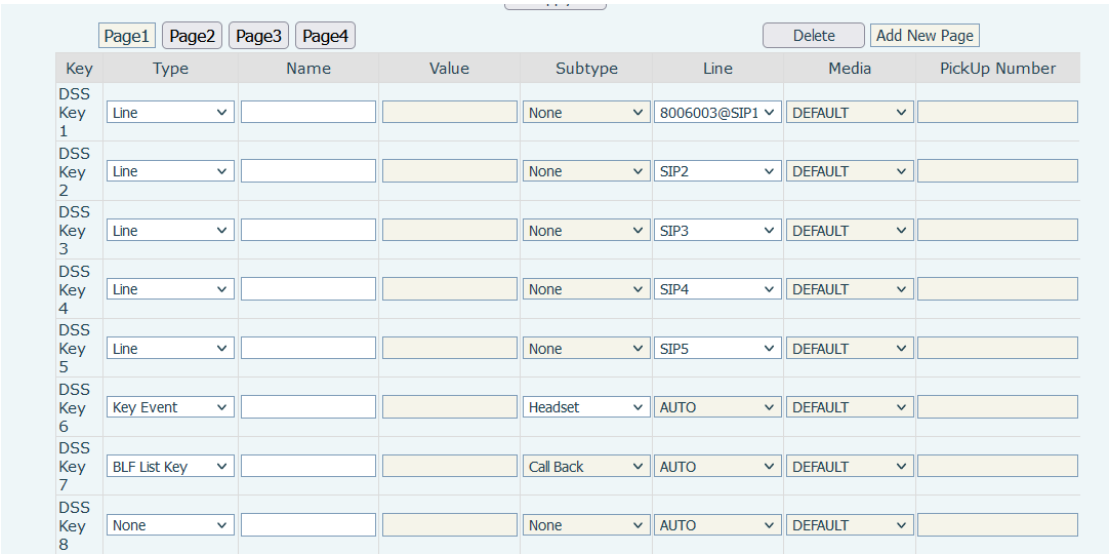
9.2 BLF List

BLF List Key is to put the number to be subscribed into a group on the server side, and the phone uses the URL of this group to make unified subscription. The specific information, number, name and status of each number can be resolved based on notify sent from the server. The unoccupied Memory Key is then set to the BLF List Key. If the state of the subscription object changes later, the corresponding led light state will be changed.

Configure BLF List function: log in the phone page, enter the [**Line**] >> [**SIP**] >> [**Advanced settings**] page, open the BLF List, and configure the BLF List number.

Picture 59 - Configure the BLF List functionality

Use the BLF List function: when the configuration is completed, the phone will automatically subscribe to the contents of the BLF List group. Users can monitor, call and transfer the corresponding number by pressing the BLF List key.



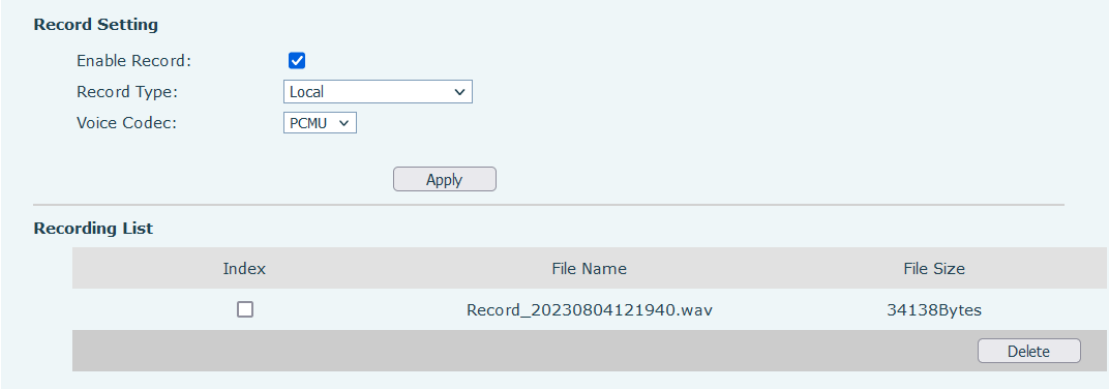
Picture 60 - BLF List number display

9.3 Record

The device supports recording during a call.

9.3.1 Local Record

When using local recording, it is necessary to start recording on the phone page [**Application**] >> [**Manage recording**], select the local type and set the voice coding. The webpage is as follows:



Picture 61 - WEB local recording

Local recording steps:

- Open the recording on the web page, and set the recording type as local recording.
- Set DSSkey type as key event and type as record in the phone/web interface.
- Set up one line call and press the recording key (set DSSkey).
- End the recording. End the call.

View local recording:

- Enter [**Application**] >> [**Sound Recorder**]
- Enter view the recording file.
- Or enter the webpage [**Application**] under the [**Manage recording**] to view the recording file.

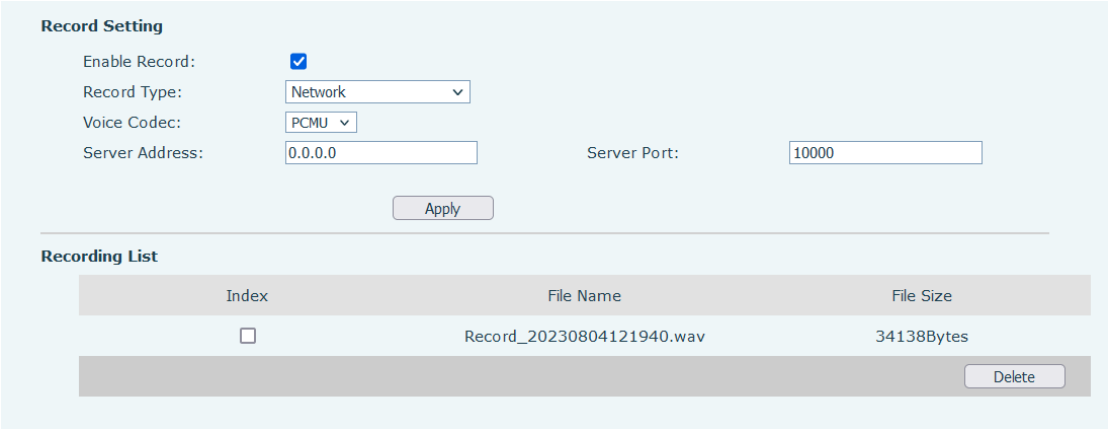
Listen to the record：

- Enter [**Application**] >> [**Sound Recorder**].
- Enter view the recording file.
- Select the recording file that you want to listen to, and click listen to the recording.

9.3.2 Server Record

When using the network server to record, it is necessary to open the recording in the phone web page [**Application**] >> [**Manage recording**]. The type is selected as network, and the address and port of the recording server are filled in and the voice coding is

selected. The web is as follows:



Picture 62 - Web server recording

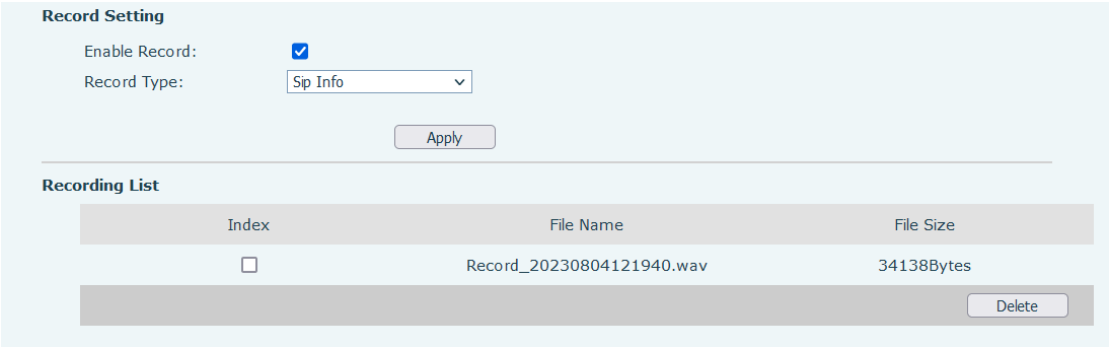
Note: to be used with recording software.

Please refer to the documentation for specific usage: **Call Recording Configuration and Use Description**

9.3.3 SIP INFO Record

The phone is registered with a server that supports SIP INFO recording. After registering the account, check the recording module of [**Application**] >> [**Manage recording**] to open the Record Settings, and the recording type is SIP INFO.

Please refer to the documentation for specific usage: **Call Recording Configuration and Use Description**



Picture 63 - Web SIP info recording

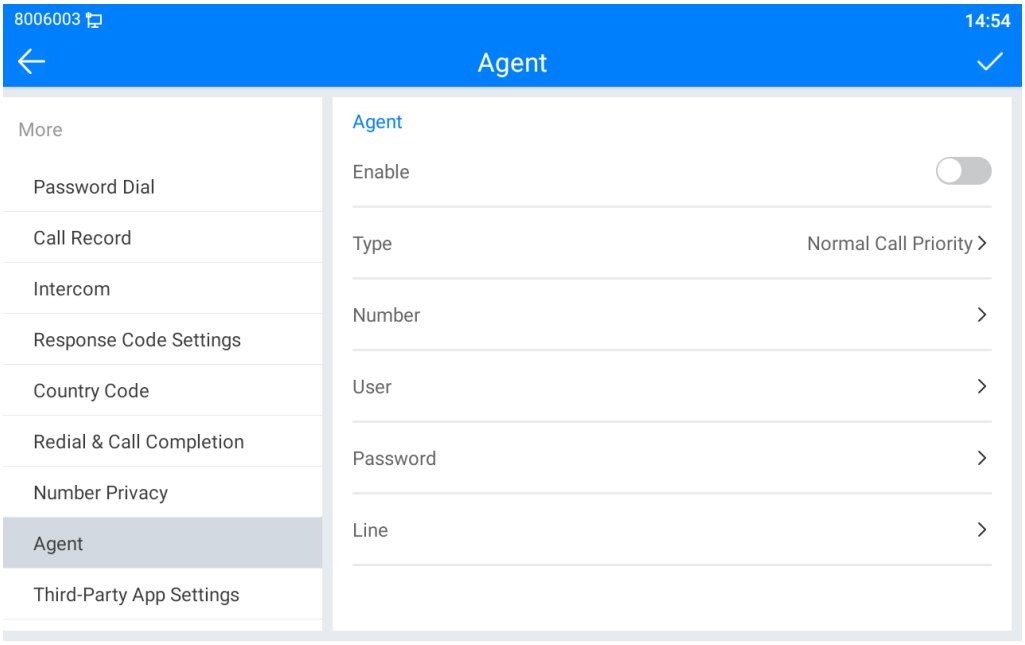
9.4 Agent

Agent (Agent function) of the phone can be realized: when multiple people use a device

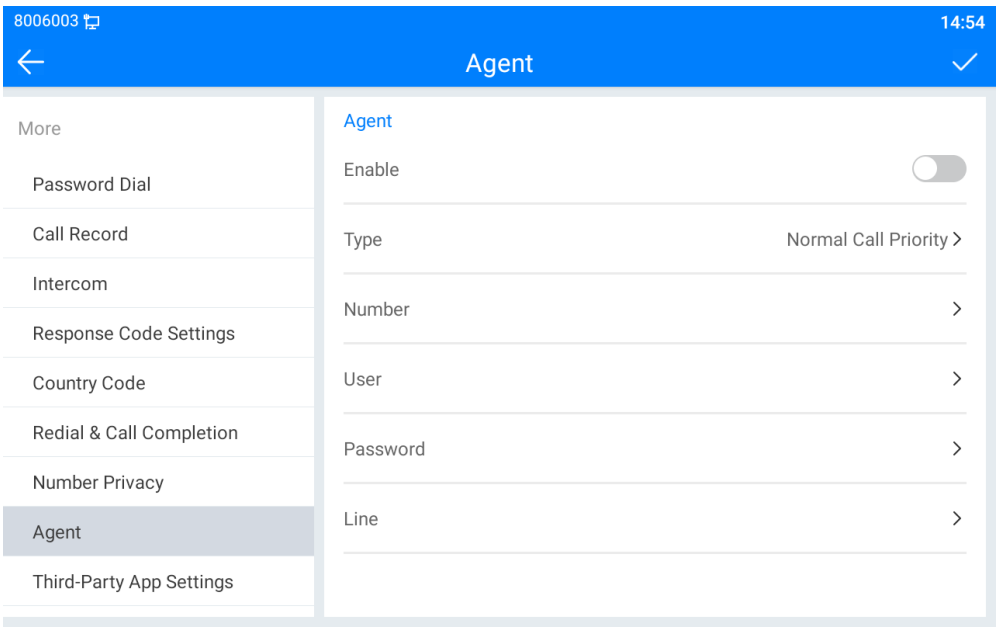
for Agent services at different times, he or she can quickly register his or her SIP account on the same server. The Agent functions of the phone can be divided into Normal and Hotel Guest. The Hotel Guest mode requires server support.

Normal Mode：

Configure agent function: set a DSS key as agent, press the function key or enter the [**Phone Settings**] >> [**Call**] >> [**More**] >> [**Agent**] to enter the agent page. The SIP server needs to be configured before the account can be configured.



Picture 64 - Configure the agent account in normal mode



Picture 65 - Configure the proxy account-hotel Guest mode

Table 11 - Agency mode

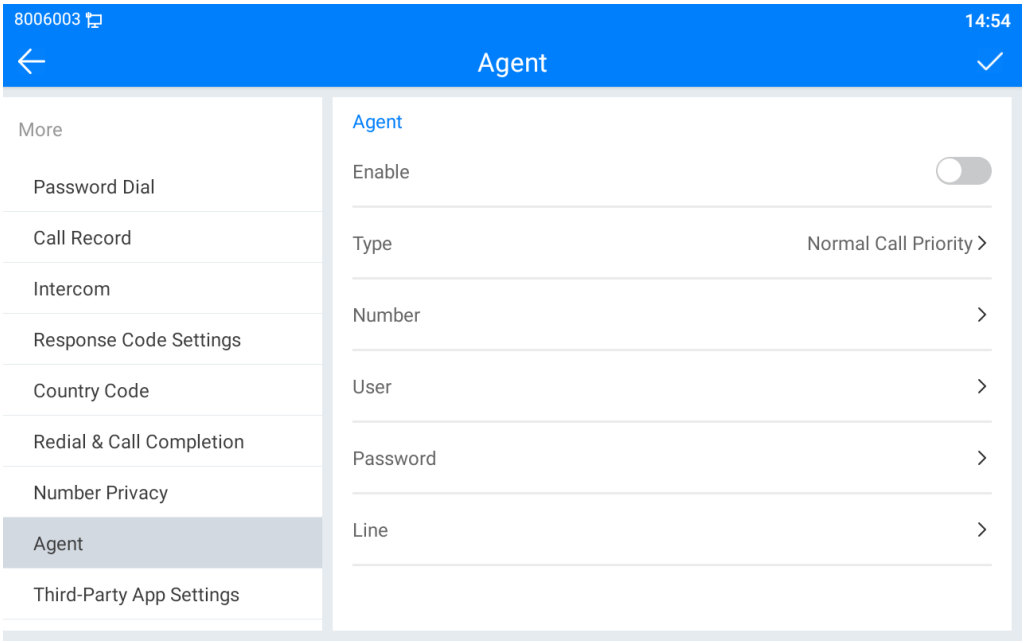
Parameter	Description
Normal mode	
Number	Set the proxy account number.
User	Set the proxy account number to verify the user name.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
CallLog	Users can choose to save all types, or delete.
Hotel Guest mode	
Number	Set the proxy account number.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
CallLog	Users can choose to save all types, or delete.
Status	The user can select the status of the number, the optional status is: login, logout, invalid, valid, SMS.

Using agent functions:

1） When the phone has been configured on SIP server, fill in the correct number and user name password, click login and then the phone can be registered to the SIP server;

2） After registration, click logout and the phone can delete the user name and password, and log out of the SIP account.

3） Click Unregister and the phone retain the user name and password, and logs out of the SIP account.



Picture 66 - Agent logon page

9.5 Intercom

When the Intercom is enabled, it can automatically receive calls from the intercom.

Picture 67 - Web Intercom configure

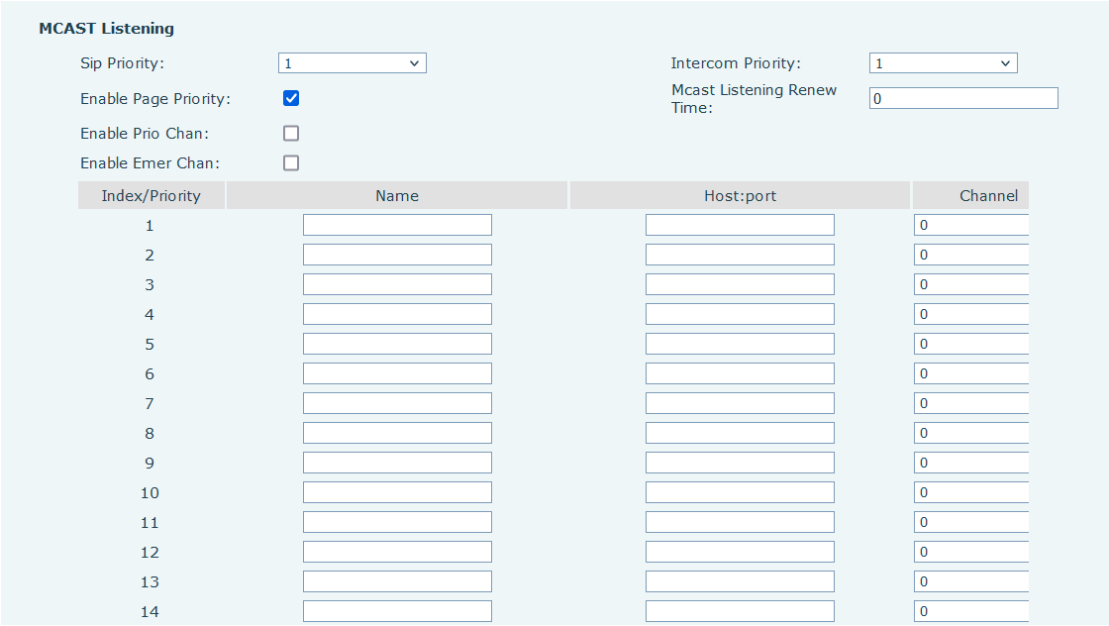
Table 12 - Intercom configure

Parameter	Description
Enable Intercom	When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is intercom call, the phone plays the intercom tone
Enable Intercom Barge	Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the

	second intercom call

9.6 MCAST

This feature allows user to make some kind of broadcast call to people who are in multicast group. User can configure a multicast DSS Key on the phone, which allows user to send a Real Time Transport Protocol (RTP) stream to the pre-configured multicast address without involving SIP signaling. You can also configure the phone to receive an RTP stream from pre-configured multicast listening address without involving SIP signaling. You can specify up to 10 multicast listening addresses.



Picture 68 - Multicast Settings Page

Table 13 - MCAST Parameters on Web

Parameters	Description
Normal Call Priority	Define the priority of the active call, 1 is the highest priority, 10 is the lowest.
Enable Page Priority	The voice call in progress shall take precedence over all incoming paging calls.
Name	Listened multicast server name
Host: port	Listened multicast server's multicast IP address and port.

Multicast:

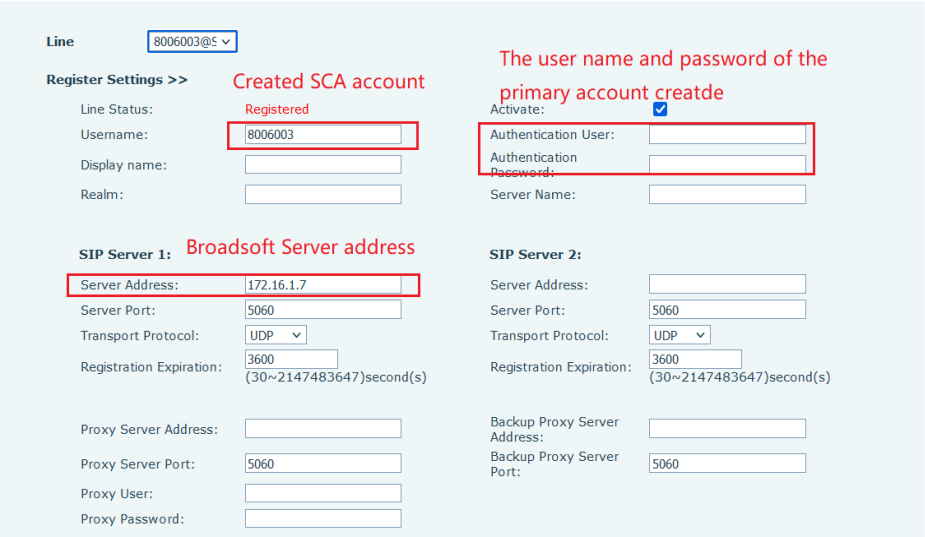
- Go to web page of [**Function Key**] >> [**Function Key**] , select the type to multicast, set the multicast address, and select the codec.
- Click Apply.
- Set up the name, host and port of the receiving multicast on the web page of [**Phone Settings**] >> [**MCAST**].
- Press the DSSKEY of Multicast Key which you set.
- Receiver will receive multicast call and play multicast automatically.

9.7 SCA（Shared Call Appearance）

Users need the support of server end to use SCA function.

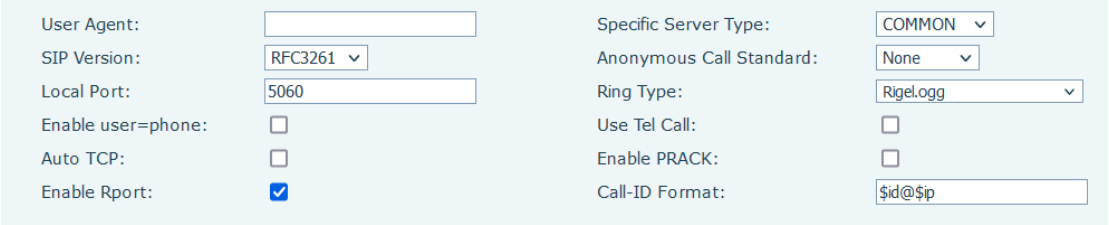
1） Configure on Phone

- When registering with the BroadSoft server, a Phone can register the account created previously on multiple terminals.



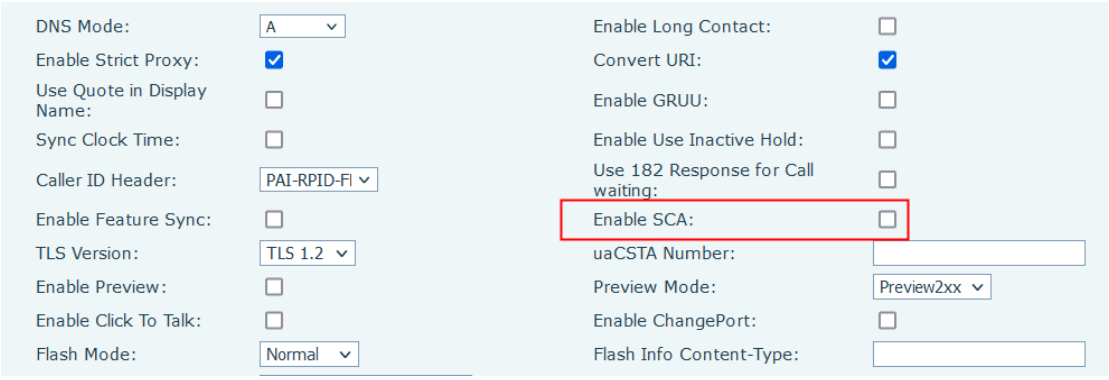
Picture 69 - Register BroadSoft account

- After the phone registers on the BroadSoft server, a server type needs to be set. Specifically, log in to the web page of the phone, choose [**Line**] >> [**SIP**] >> [**Advanced Settings**] and set Specific Server Type to BroadSoft, as shown in the following figure.



Picture 70 - Set BroadSoft server

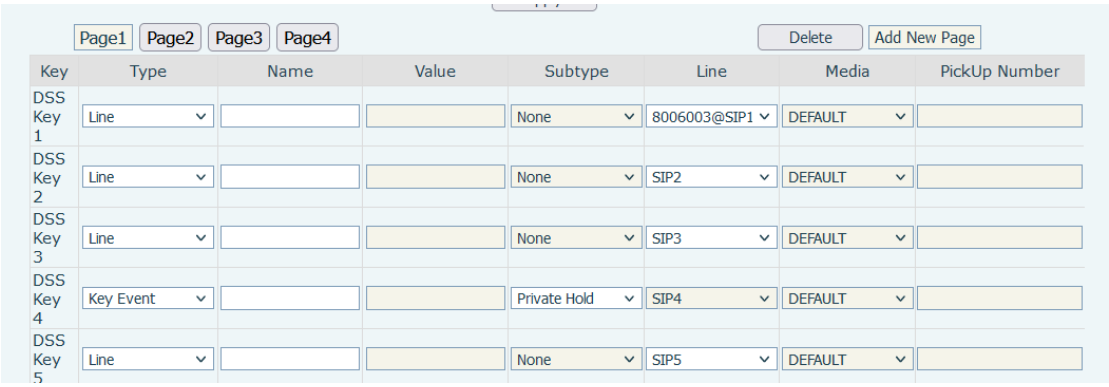
- If a phone needs to use the SCA function, enable it for the phone set. Specifically, log in to the webpage of the phone set, choose [**Line**] >> [**SIP**] >> [**Advanced Settings**], and select Enable SCA. If SCA is not enabled, the registered line is private line.



Picture 71 - Enable SCA

After an account is configured and successfully registered, you can configure DSS Keys as the lines which can enable Shared Call Appearanceas on the Function Key page to facilitate viewing the call status of the group. Each line key represents a call appearance. Understand the call status by referring to 6.3 Appendix III –LED .

To facilitate private hold, configure keys whose DSS Key is Private Hold on the Function Key page. Pay attention that the public hold key is the softkey [**Hold**] key during a call.



Picture 72 - Set Private Hold Function Key

- After each phone registered with the BroadSoft server is configured as above, the

SCA function can be used.

2）LED Status

To facilitate viewing the call status of a group, configure lines whose DSS Key is SCA. The following table describes the LEDs of lines in different states.

Table 14 - LED Status of SCA

State & Direction	Local Light	Remote Light
Idle	Off	Off
Seized	Steady green	Steady red
Progressing (outgoing call)	Steady green	Steady red
Alerting (incoming call)	Fast blinking green	Fast blinking green
Active	Steady green	Steady red
Public Held (hold)	Slow blinking green	Slow blinking red
Held-private (private hold)	Slow blinking yellow	Steady red
Bridge-active (Barge-in)	Steady green	Steady red
Bridge-held	Steady green	Steady red

3） Shared Call Appearance(SCA)

The following lists a couple of instances to facilitate understanding.

In the following scenarios, the manager and secretary register the same SCA account and the account is configured based on the preceding steps.

Scenario 1: When this account receives an incoming call, the phone sets of both the manager and the secretary will receive the call and ring. If the manager is busy, the manager can reject the call and the manager's phone set stops ringing but the secretary's phone set keeps ringing until the secretary rejects/answers the call or the call times out.

Scenario 2: When this account receives an incoming call, if the secretary answers the call first and the manager is required to answer the call, the secretary can press the Public Hold key to hold this call and notify the manager. The manager can press the line key corresponding to the SCA to answer the call.

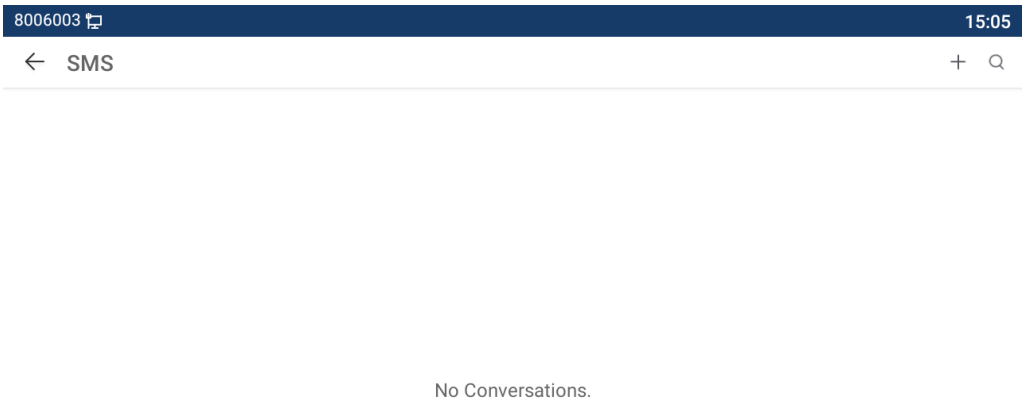
Scenario 3: The manager is in an important call with a customer and needs to leave for a while. If the manager does not want others to retrieve this call, the manager can press the Private Hold key.

Scenario 4: The manager is in a call with a customer and requires the secretary to join the call to make records. The secretary can press the corresponding SCA line key to barge in this call.

9.8 Message

9.8.1 SMS

If the service of the line supports the function of the short message, when the other end sends a text message to the number, the user will receive the notification of the short message and display the icon of the new SMS on the standby screen interface.



Picture 73 - SMS icon

Send messages:

- Go to [**Application**] >> [**SMS**].
- Users can create new messages, select lines and send numbers.
- After editing is complete, click Send.

View SMS:

- Use the navigation keys to select the standby icon [**message**]
- After selecting, press the navigation key [**OK**] to enter the SMS inbox interface.
- Select the unread message and press [**OK**] to read the unread message.

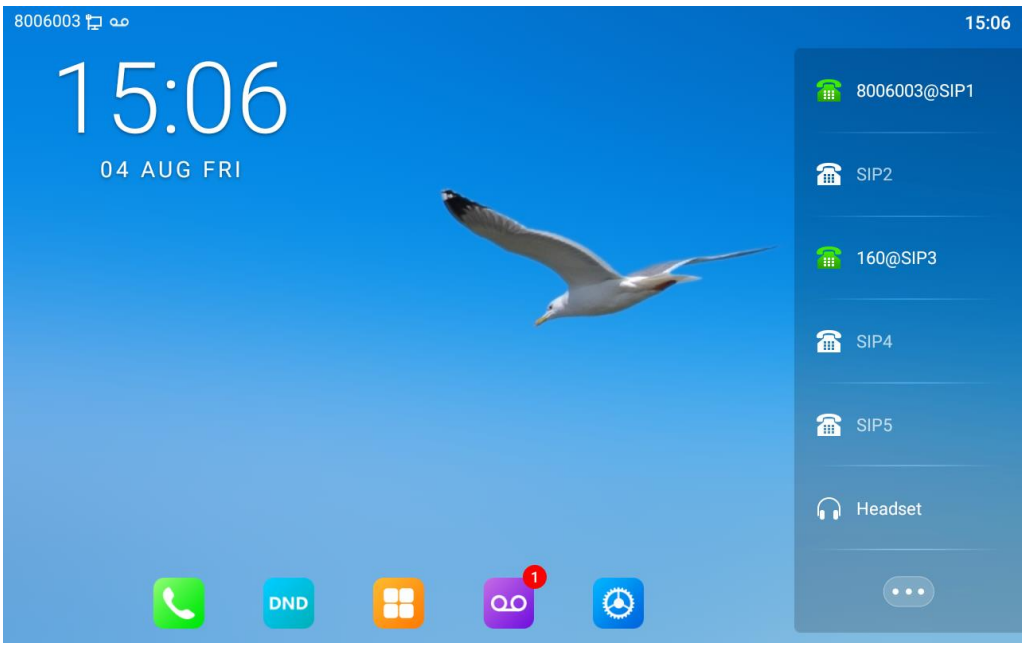
Reply to SMS:

- Use the navigation keys to select the standby icon [**Message**].
- After selecting, press the navigation key [**OK**] to enter the SMS inbox interface.

- Select the message you want to reply to, select Softkey [**Reply**], edit it, and click Send.

9.8.2 MWI（Message Waiting Indicator）

If the service of the lines supports voice message feature, when the user is not available to answer the call, the caller can leave a voice message on the server to the user. User will receive voice message notification from the server and device will prompt a voice message waiting icon on the standby screen.



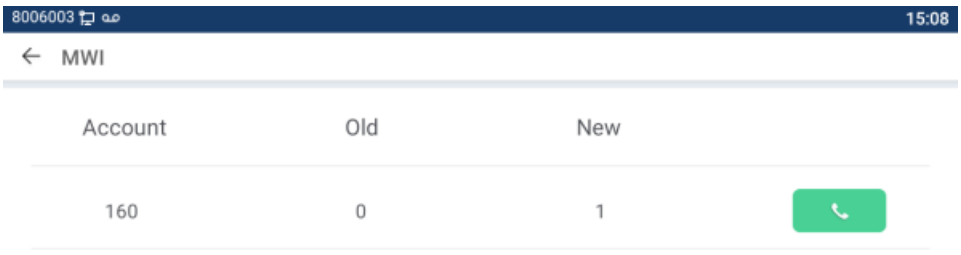
Picture 74 - New Voice Message Notification

Voice message icon

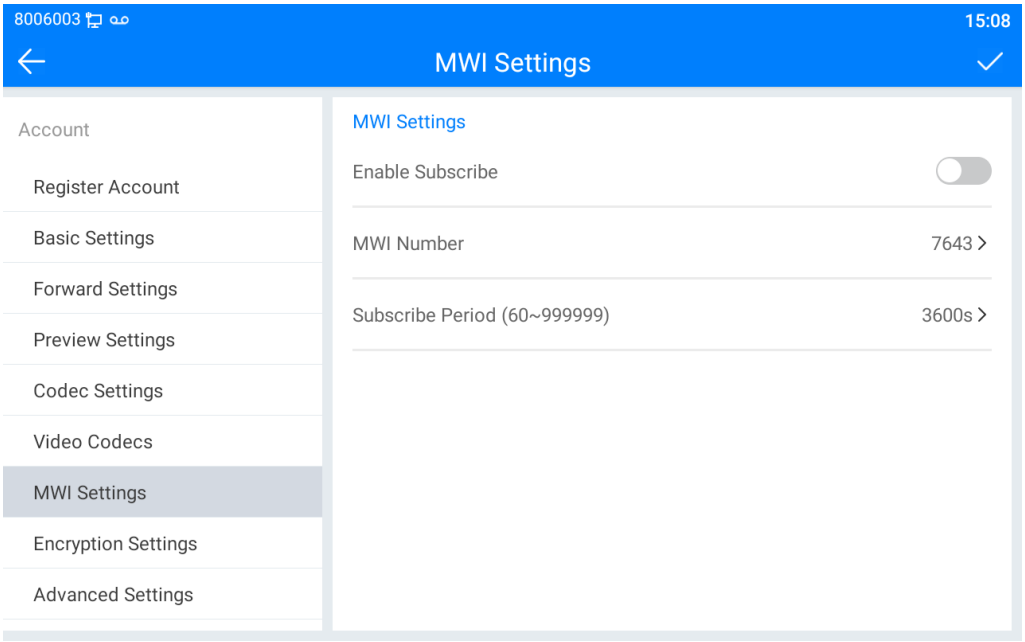
To listen to a voice message, the user must first configure the voicemail number. After the voicemail number is configured, the user can retrieve the voicemail of the default line.

When the phone is in the default standby state,

- The voicemail icon displays the number of unread voicemail messages.
- Click the icon to view the total number of voicemail messages, or listen to the messages directly in the voicemail interface



Picture 75 - Voice message interface



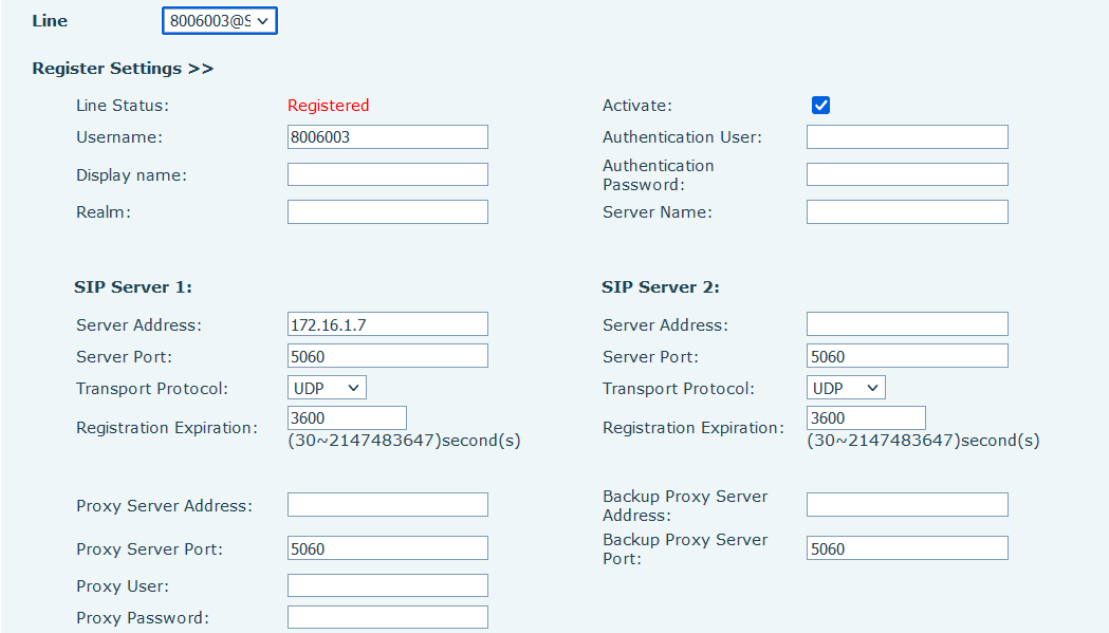
Picture 76 - Configure voicemail number

9.9 SIP Hotspot

SIP hotspot is a simple but practical function. With simple configurations, the SIP hotspot function can implement group ringing. SIP accounts can be expanded.

Set a phone as a SIP hotspot and other phones (B and C) as SIP hotspot clients. When somebody calls phone A, phone A, B, and C all ring. When any phone answers the call, other phones stop ringing. The call can be answered by only one phone. When B or C initiates a call, the SIP number registered by phone A is the calling number.

To set a SIP hotspot, register at least one SIP account.

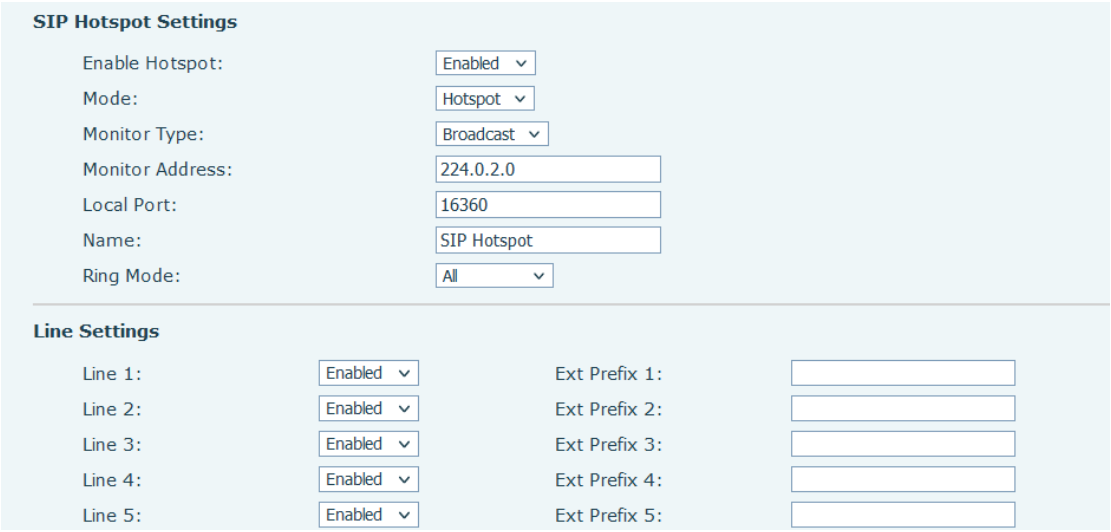


Picture 77 - Register SIP account

Table 15 - SIP hotspot Parameters

Parameters	Description
Device Table	If your phone is set to “SIP hotspot server”, Device Table will display as Client Device Table which connected to your phone. If your phone is set to “SIP hotspot client”, Device Table will display as Server Device Table which you can connect to.
SIP hotspot	
Enable hotspot	Set it to be Enable to enable the feature.
Mode	Choose hotspot, phone will be a “SIP hotspot server”; Choose Client, phone will be a “SIP hotspot Client”
Monitor Type	Either the Multicast or Broadcast is ok. If you want to limit the broadcast packets, you’d better use broadcast. But, if client choose broadcast, the SIP hotspot phone must be broadcast.
Monitor Address	The address of broadcast, hotspot server and hotspot client must be same.
Remote Port	Type the Remote port number.

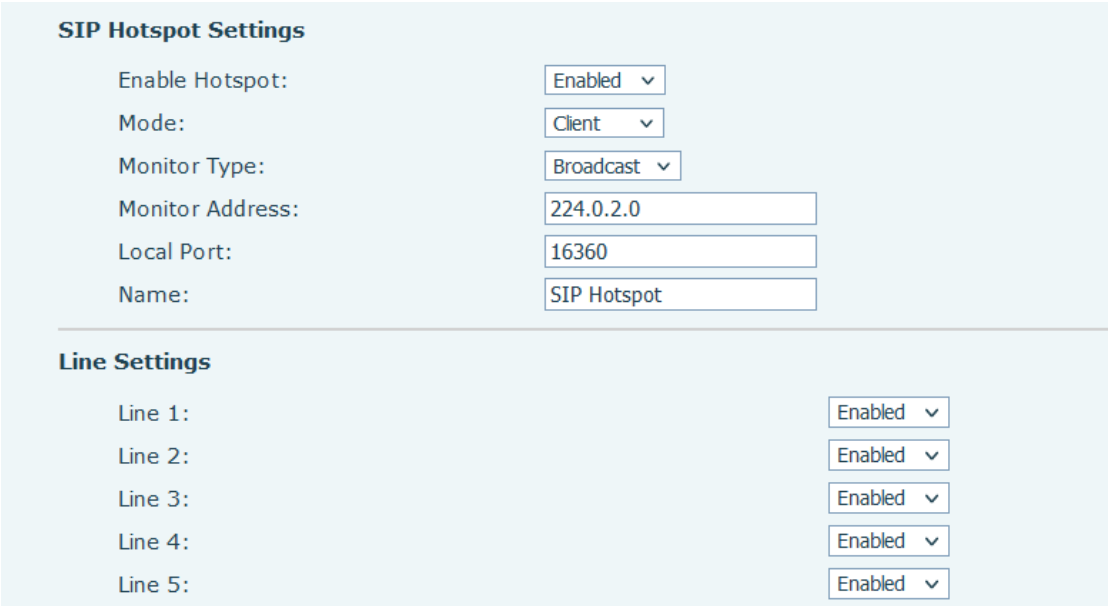
Configure SIP hotspot server:



Picture 78 - SIP hotspot server configuration

Configure SIP hotspot client:

As a SIP hotspot client, no SIP account needs to be set. The Phone set will automatically obtain and be configured a SIP account. On the SIP Hotspot tab page, set Mode to Client. The values of other options are the same as those of the hotspot.



Picture 79 - SIP hotspot client configuration

As the hotspot server, the default extension number is 0. When the phone is used as the client, the extension number is increased from 1, you can view the extension number through the [**SIP Hotspot**] page.

Call extension number:

- The hotspot server and the client can dial each other through the extension number.
- For example, extension 1 dials extension 0.

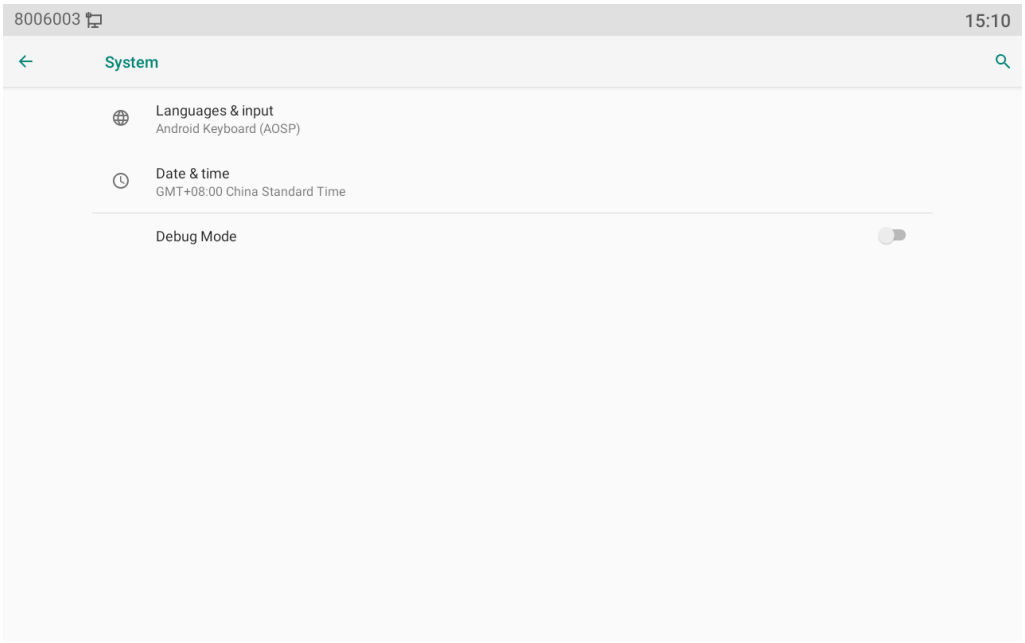
10 Phone Settings

10.1 Basic Settings

10.1.1 Language

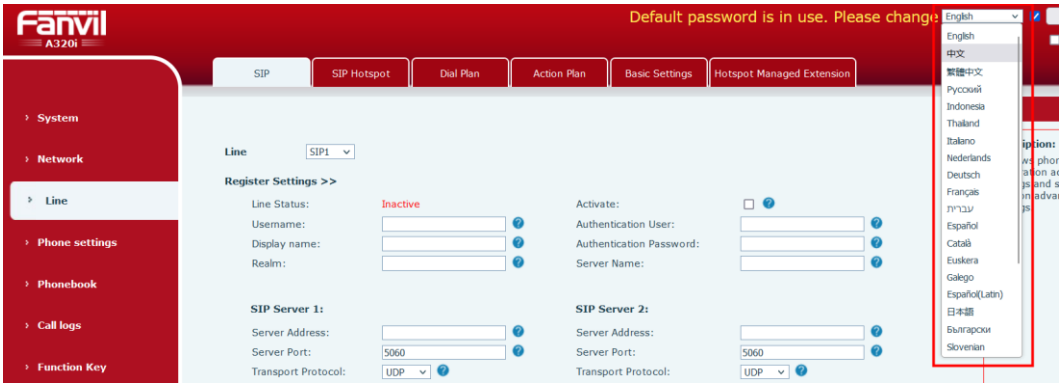
The user can set the phone language through the phone interface and web interface.

- Phone interface：After resetting the factory settings, the user needs to set the language; when setting the language during standby, go to [**Phone Settings**] >> [**System**] >> [**Language&input**] Settings, as shown in the figure.



Picture 80 - Phone language setting

- Web interface: Log in to the phone webpage and set the language in the drop-down box at the top right corner of the page, as shown in the figure:



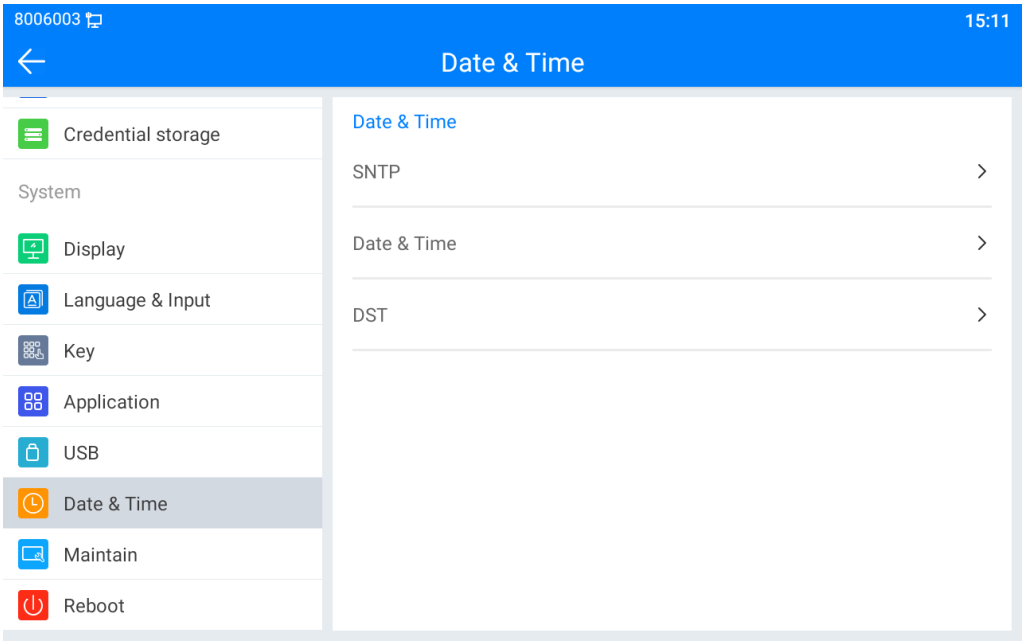
Picture 81 - Language setting on Web page

- The function box on the right side of the web interface language setting box is “Synchronize language to phone”; if selected, the phone language will be synchronized with the webpage language. If it is not selected, it will not be synchronized.

10.1.2 Time & Date

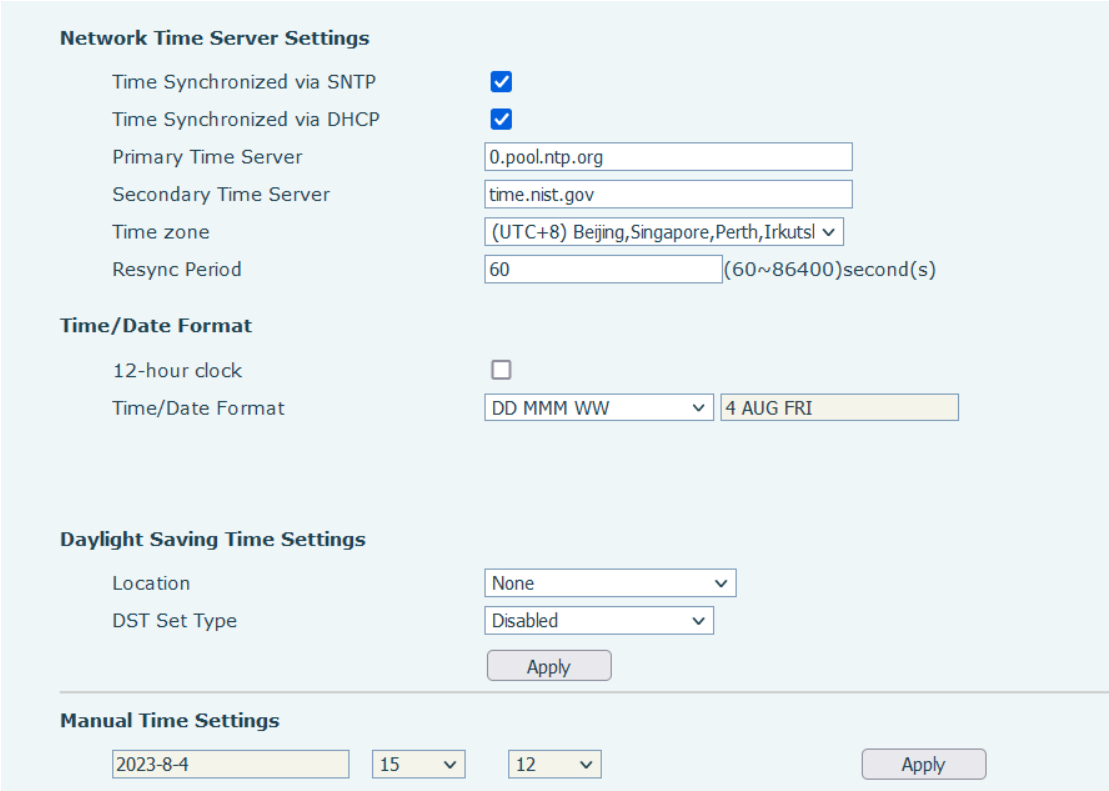
Users can set the phone time through the phone interface and web interface.

- Phone end: When the phone is in the default standby state, press the [**Phone Settings**] >> [**System**] >> [**Time & Date**] , use the up/down navigation button to edit parameters, press the [**OK**] to save after completion, as shown in the figure:



Picture 82 - Set time & date on phone

- Web end: Log in to the phone webpage and enter [**Phone Settings**] >> [**Time/Date**] , as shown in the figure:



Picture 83 - Set time & date on webpage

Table 16 - Time Settings Parameters

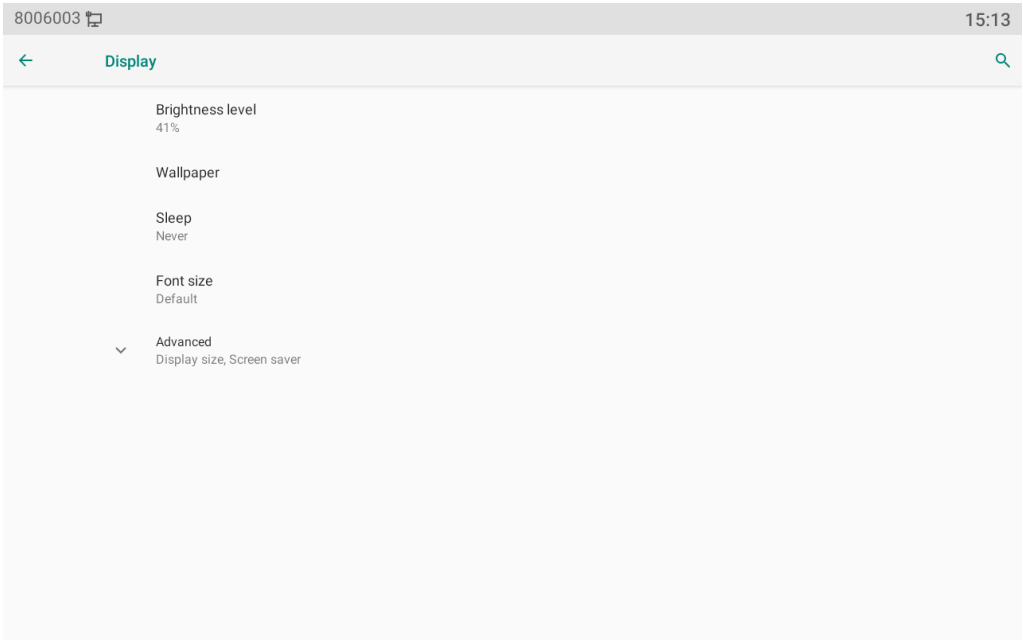
Parameters	Description
Mode	Auto/Manual Auto: Enable network time synchronization via SNTP protocol, default enabled. Manual: User can modify data manually.
SNTP Server	SNTP server address
Time zone	Select the time zone
Time format	Select time format from one of the followings: ■ 1 JAN, MON ■ 1 January, Monday ■ JAN 1, MON ■ January 1, Monday ■ MON, 1 JAN ■ Monday, 1 January ■ MON, JAN 1 ■ Monday, January 1 ■ DD-MM-YY

	■ DD-MM-YYYY ■ MM-DD-YY ■ MM-DD-YYYY ■ YY-MM-DD ■ YYYY-MM-DD
Separator	Choose the separator between year and moth and day
12-Hour Clock	Display the clock in 12-hour format
Daylight Saving Time	Enable or Disable the Daylight Saving Time

10.1.3 Screen

The user can adjust the brightness of phone screen in LCD in two ways.

- Slide down the outgoing status bar page in standby mode. Slide down again to adjust phone brightness conveniently.
- Enter the [**Settings**] >> [**System**]>> [**Display**], and then adjust the brightness.



Picture 84 - Set screen parameters on phone

10.1.3.1 Brightness and backlight

Phone interface:

1) in standby mode, slide from the top edge of the screen to enter the status bar;Sliding down again makes it easy to set the brightness of the device.

2) the phone enters >> [setting] >> [display], which can adjust the brightness and change the wallpaper.

10.1.3.2 Screen Saver

- When the phone is in default standby state, press the function menu [**Phone settings**]>> [**System**] >> [**Display**] >> [**Screen Security**] to enable the screen protection, as shown in the figure below:

Picture 85 - Phone screen saver

10.1.4 Ring

When the device is in the default standby mode,

- Enter [**Phone Settings**] >> [**Media**] >> [**Sound**] item till you find [**Tone**] item.
- Enter [**Sound**] >> [**Tone**] set promote tone
- The prompt tone contains Settings such as caller ring, notification ring, touch prompt tone, etc.

10.1.5 Voice Volume

When the device is in the default standby mode,

- Enter [**Phone Settings**] >> [**Media**] >> [**Sound**] item till you find [**Volume**] item.
- Enter [**Sound**] >> [**Volume**] set promote tone.
- The prompt tone contains Settings such as caller ring, notification ring, touch prompt tone, etc.

10.1.6 Reboot

When the device is in the default standby mode,

- Enter [**Phone Settings**] >> [**System**] >> [**Reboot**] item.
- Click [**Reboot**] to indicate whether to restart the phone.
- Press [**OK**] to restart the phone or press [**Cancel**] to exit the prompt box to return to the configuration interface.

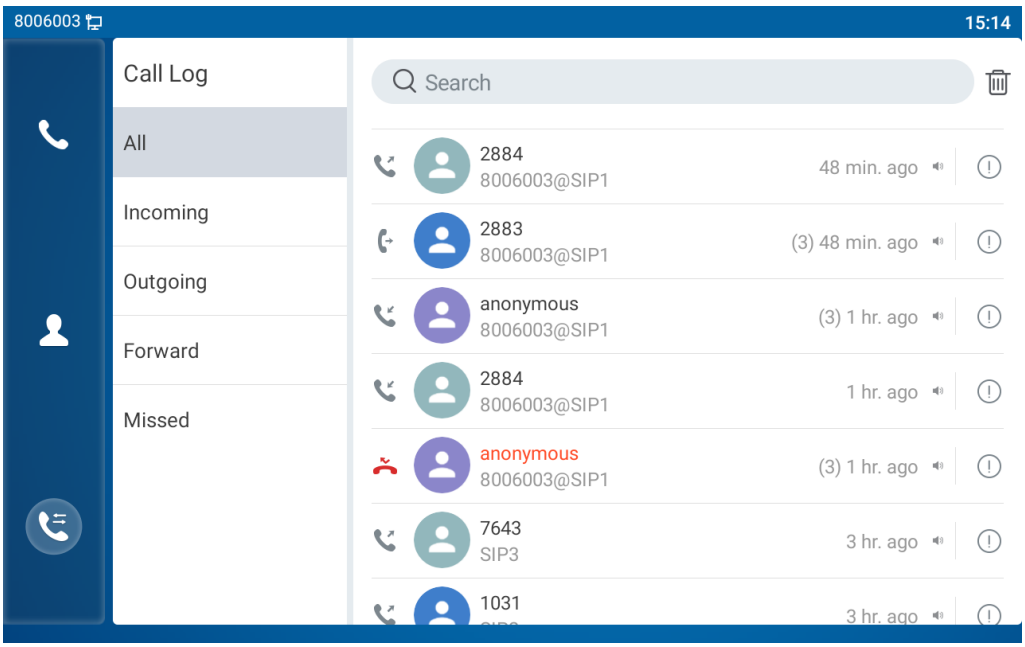
10.2 Phone book

10.2.1 Local contact

Users can save contact information in the phone book and dial the contact's phone number directly in the phone book.The user can open the phone book by pressing the function menu button "contact" or the preset button "phone book" on the phone in the default main interface.

By default, the phone book is empty, and users can add manually or add contacts to the phone book from the call log (or cloud phone book).

NOTICE! The device can save up to total 2000 contact records.



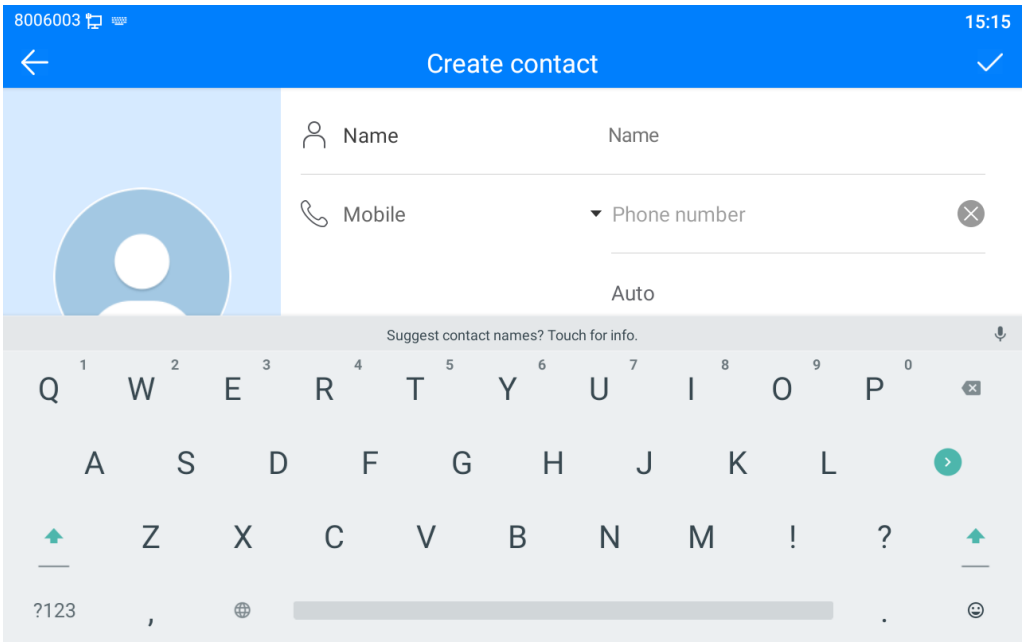
Picture 86 - Local Phone book

When there are contact records in the phone book, the contact records will be arranged in the alphabet order. User may browse the contacts with up/down navigator keys. The record indicator tells user which contact is currently focused. User may check the contact's information by pressing [**OK**] button.

10.2.1.1 Add / Edit / Delete Contact

Add a contact, click to enter the contact interface, select the first icon (contact icon, selected by default) and add the following contact information.

- Contact Name
- Tel. Number
- Mobile Number
- Other Number
- Line
- Ring Tone
- Contact Group
- Photo



Picture 87 - Add New Contact

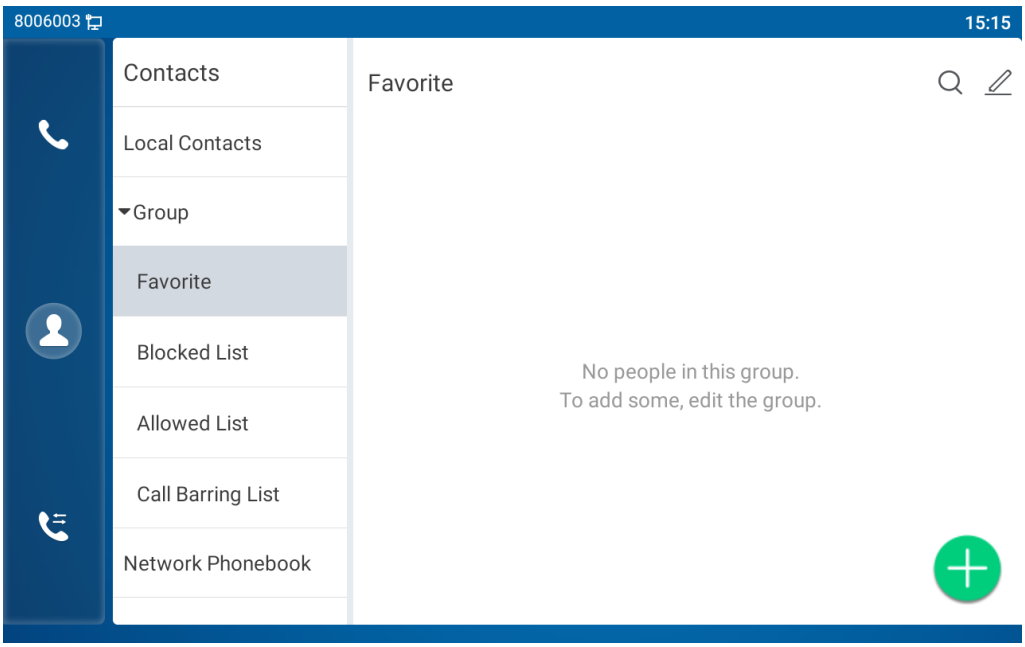
User can edit a contact by pressing [**Option**] >> [**Edit**] button.

To delete a contact, user should move the record indicator to the position of the contact to be deleted, press [**Option**] >> [**Delete**] button and confirm with [**OK**].

10.2.1.2 Add / Edit / Delete Group

By default, the group list is empty. Users can create their own group, edit group names, add or remove contacts from the group, and delete groups.

- Add group. In the contact list interface, press the "group" icon to switch to the group list. Click add button again to enter the page of creating groups.
- Delete groups, under groups list.
- To edit the group, press edit.

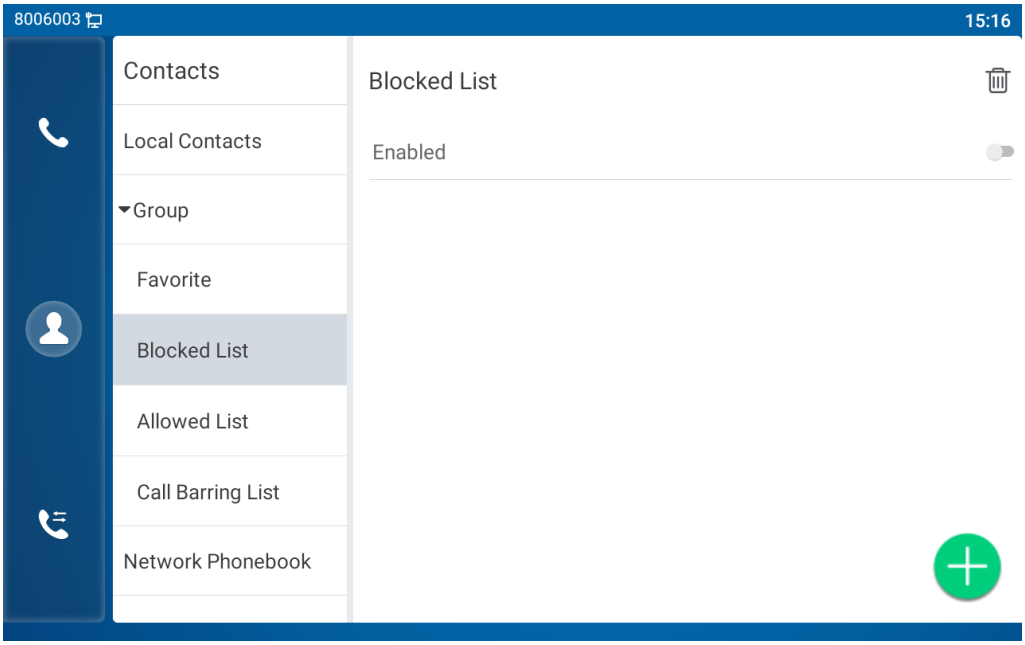


Picture 88 - Group List

10.2.2 Black list

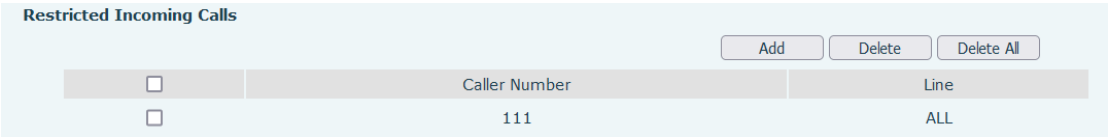
The device supports blacklist, such as the number added to the blacklist, the number of calls directly refused to the end, the end of the phone shows no incoming calls. (Blacklisted Numbers can be called out normally)

- There are multiple ways to add a number to Blacklist on the device. It can be added directly on [**Contacts**] icon >> [**Group**] icon>> [**Blacklist**].
- Select any number in the phone book (both local and network) for configuration addition.
- Select any number in the call log for configuration addition.



Picture 89 - Add Blacklist

- There are various ways to add number to the blacklist on web page, which can be added in the [**Phone book**] >> [**Call list**] >> [**Restricted Incoming Calls**].
- Select any number in the phone book (both local and network) for configuration addition.
- Select any number in the call log for configuration addition.



Picture 90 - Web Blacklist

10.2.3 Cloud Phone Book

10.2.3.1 Configure Cloud Phone book

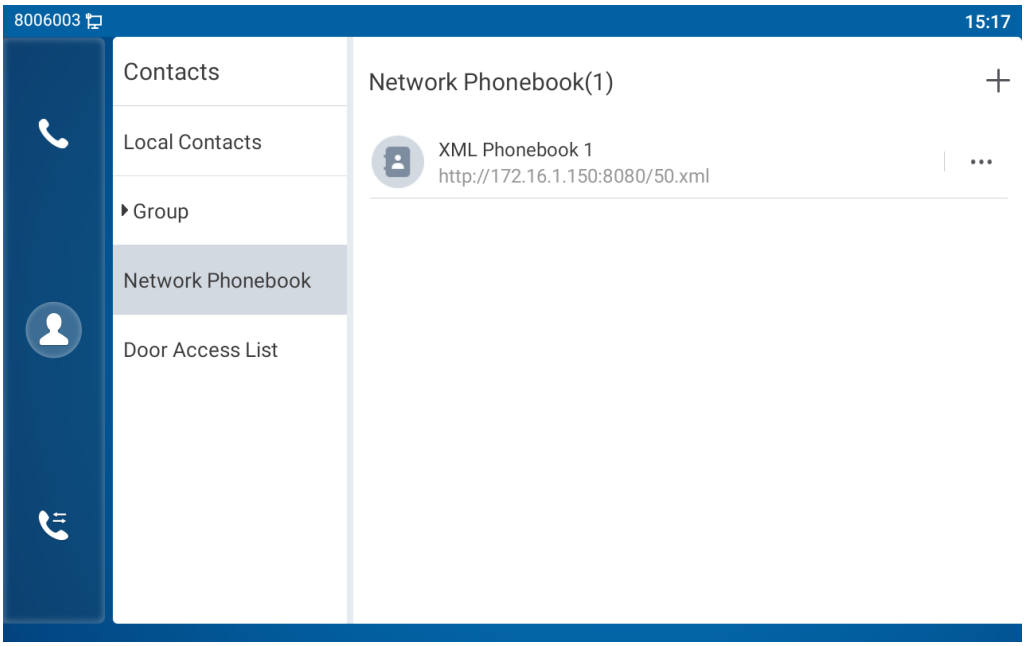
Cloud phonebook allows user to configure the device by downloading a phonebook from a cloud server. This is convenient for office users to use the phonebook from a single source and save the effort to create and maintain the contact list individually. It is also a useful tool to synchronize his/her phonebook from a personal mobile phone to the device with Cloud Phonebook Service and App which is to be provided publicly soon.

NOTICE! The cloud phonebook is ONLY temporarily downloaded to the device

each time when it is opened on the device to ensure the user get the latest phonebook. However, the downloading may take a couple seconds depending on the network condition. Therefore, it is highly recommended for the users to save important contacts from cloud to local phonebook for saving download time.

Open cloud phonebook list, press [**Application**] >> [**Contacts**] icon>> [**Network PhoneBook**] in phonebook screen.

TIPS! The first configuration on cloud phone should be completed on Web page by selecting [PhoneBook] >> [Cloud Contacts]. The setting of addition/deletion on device could be done after the first setting on Web page.

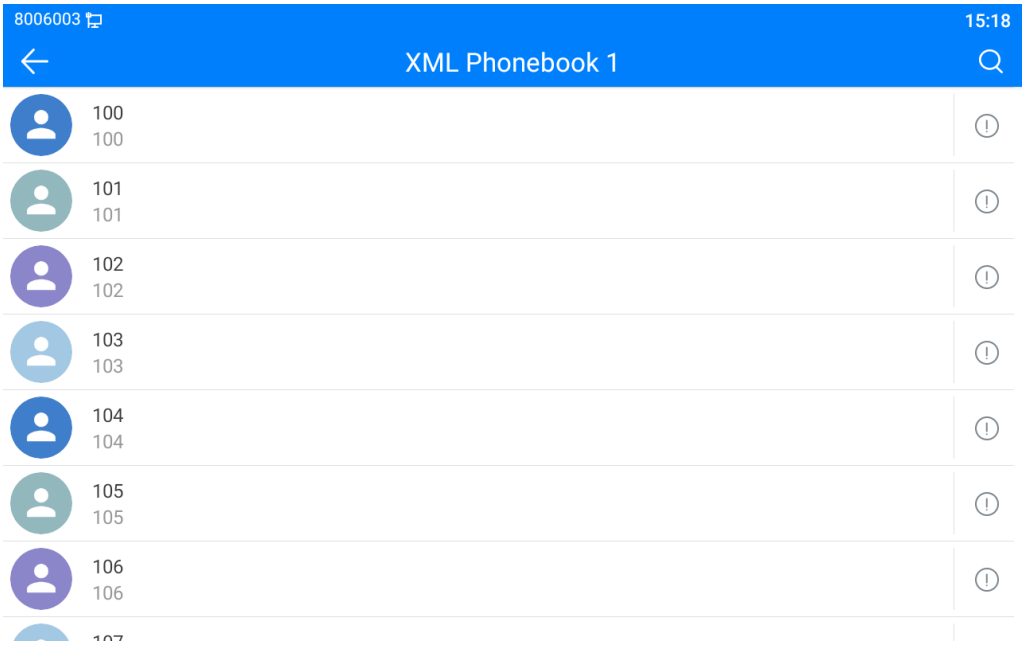


Picture 91 - Cloud phone book list

10.2.3.2 Downloading Cloud Phone book

In cloud phone book screen, user can open a cloud phone book by pressing the network phonebook. The device will start downloading the phone book. The user will be prompted with a warning message if the download fails,

Once the cloud phone book is downloaded completely, the user can browse the contact list and dial the contact number same as in local phonebook.



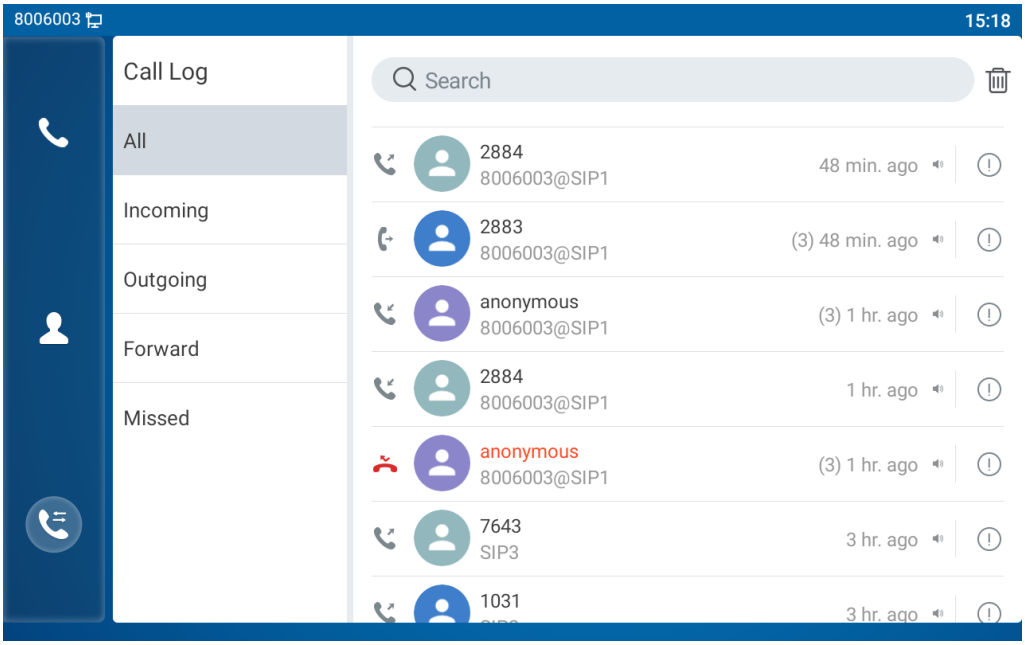
Picture 92 - Browsing Contacts in Cloud Phone book

10.3 Call Log

The device can store up to 2000 call log records and user can open the call logs to check all incoming, outgoing, and missed call records by pressing [**CallLog**] icon.

In the call logs screen, user may browse the call logs with up/down navigator keys. Each call log record is presented with 'call type' and 'call party number / name'. User can check further call log detail by pressing [**Info**] icon and dial the number with pressing the call log, or add the call log number to phonebook with pressing [**Info**] Icon >> [**Add to Contact**].

User can delete a call log by pressing [**Delete**] button and can clear all call logs by pressing [**Delete All**] button.



Picture 93 - Call Log

Users can also filter the call records of specific call types to narrow down the scope of search records, and select a call record type by left and right navigation keys.

- Missed Call Log

- Incoming Call Log

- Outgoing Call Log

- Forward Call Log

Picture 94 - Filter call record types

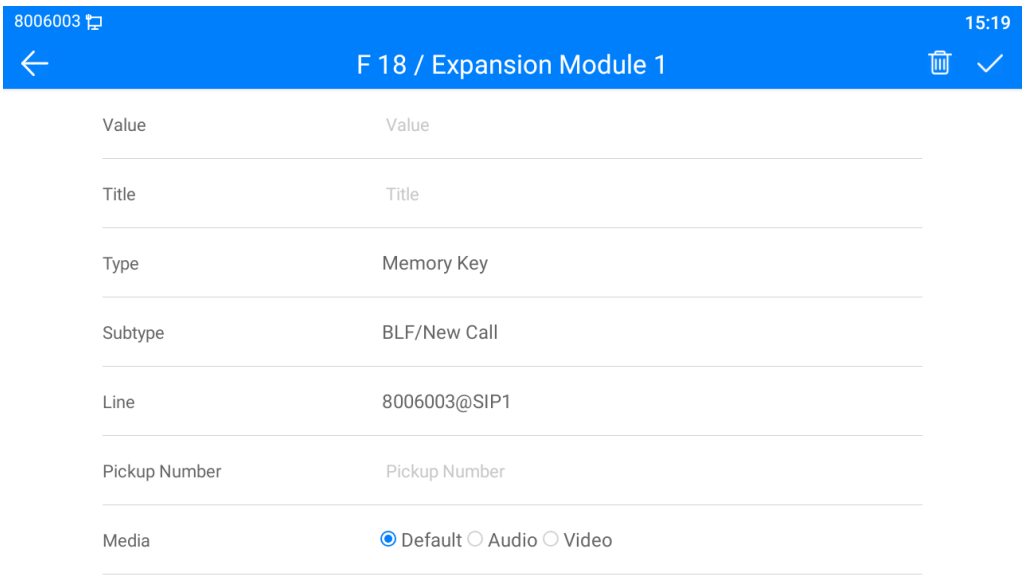
10.4 Function Key

- Function key Settings:

It shows 7 DSSKEY keys in standby mode on A320i Screen, each of which can be customized (expansion keys are not supported). After expansion, there will be 28 Function DSSkey, a total of four pages. Users can customize and configure each DSSKEY key on each page.

Users can add/delete DSSkey pages through the webpage, and can use the page switch

key to switch DSSkey pages. In addition, users can also long press each shortcut key, modify the corresponding key settings.



Picture 95 - DSS LCD Screen Configuration

The DSS Key could be configured as followings,

- Memory Key
  - Speed Dial/Intercom/BLF/Presence/Call Park/Call Forward (to someone)
- Line
- Key Event
  - MWI/DND/Hold/Transfer/Phonebook/Redial/Pickup/Call Forward (to specified line)/Headset/ SMS/Release
- DTMF
- Action URL
- BLF List Key
- MCAST Paging
- MCAST Listening
- Action URL
- XML Browser

Moreover, user also can add the user-defined title for the DSS Keys, which is configured as Memory Key / Line / URL / MCAST Paging / Prefix.

NOTICE! User-defined title is up to 10 characters.

More detailed information *refers to* *12.23 Function Key* and 6.3 Appendix III – LED

Definition .

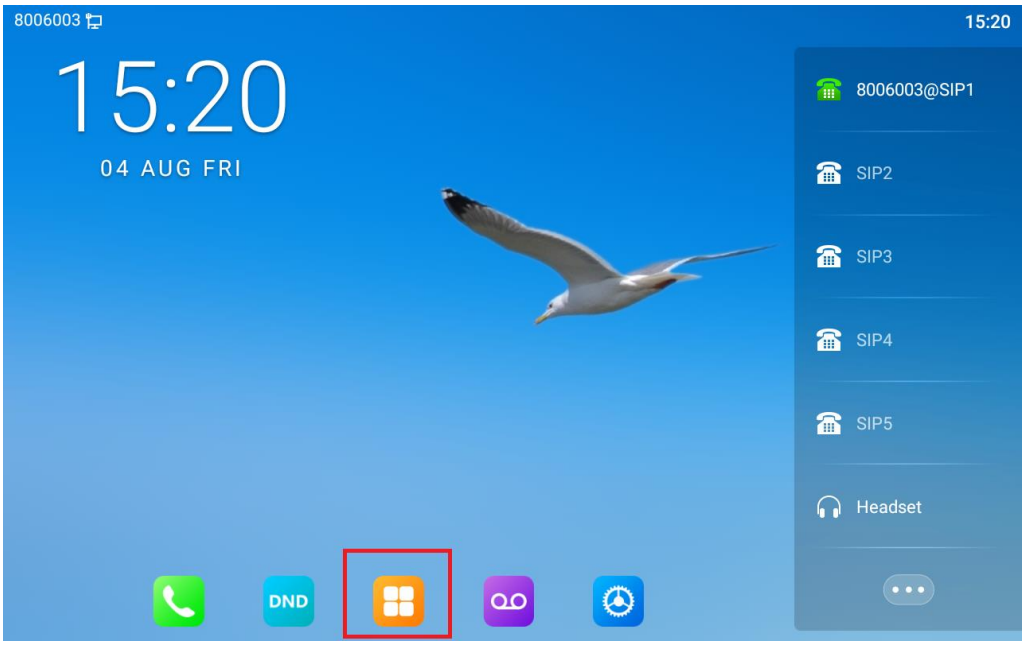
10.5 Wi-Fi

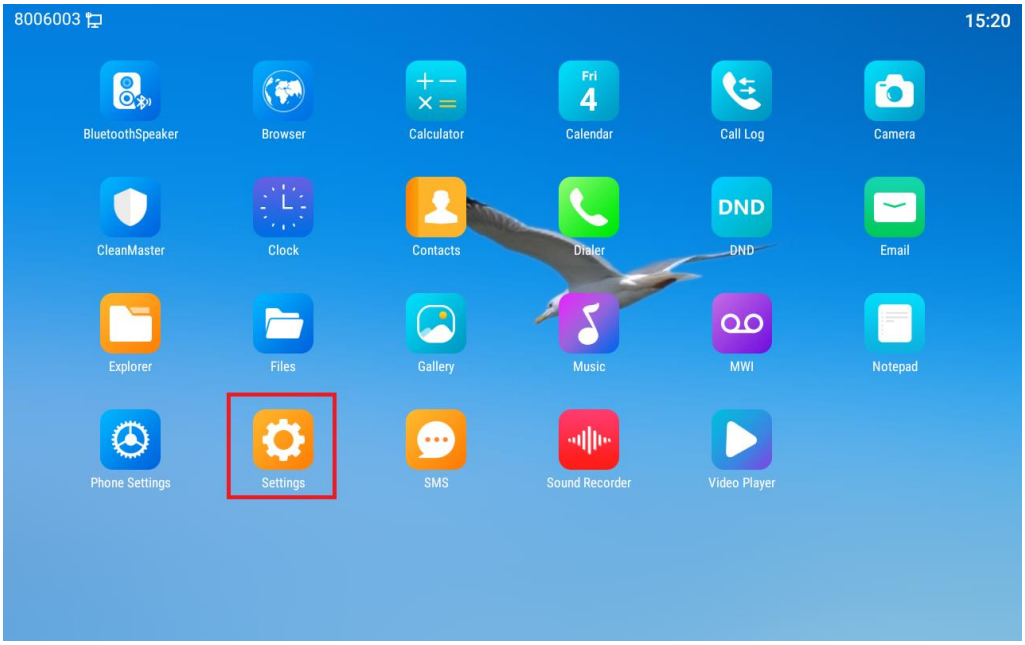
The device supports wireless Internet access and has built-in Wi-Fi without external devices.

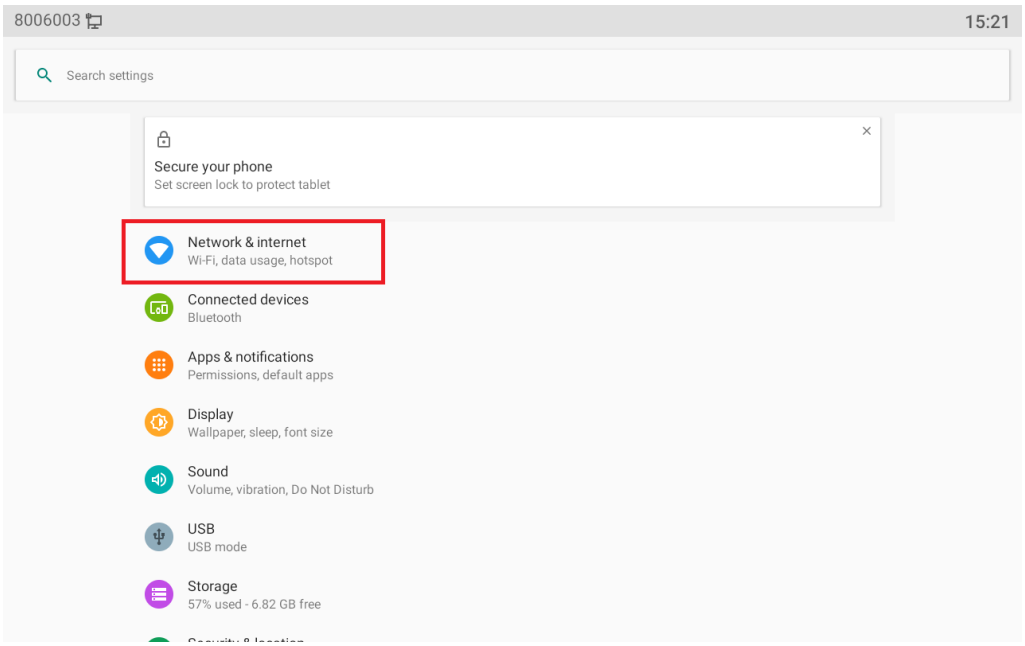
When the device is in the default standby mode,

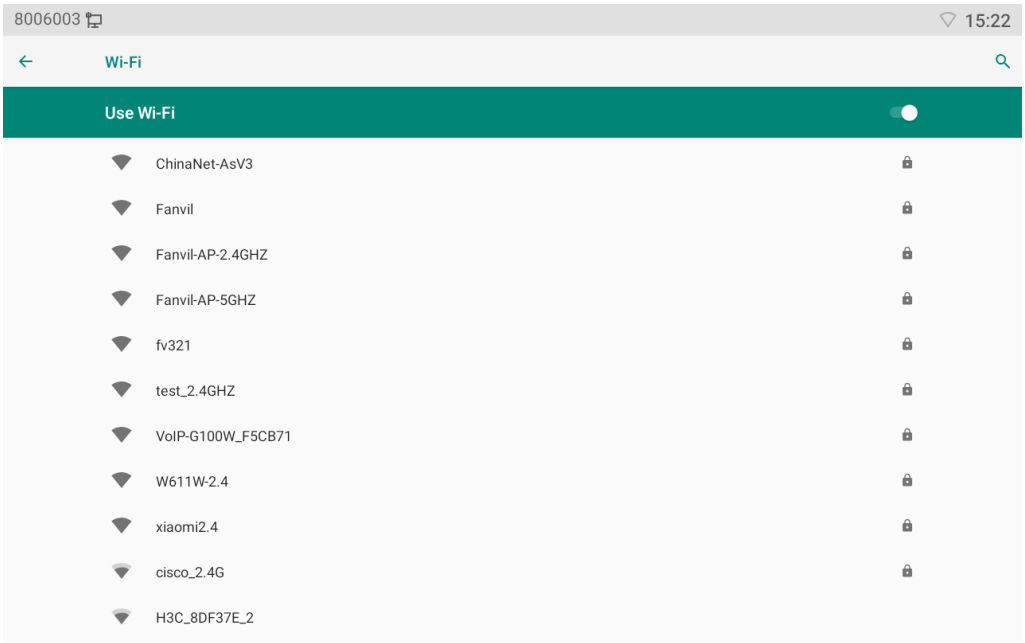
Press [**Application**] till you find the [**Settings**]>> [**Network &Internet**].

- Enter [**Wi-Fi**] item.
- Enable the Wi-Fi to search the current wireless network automatically.
- Select to the available network, enter the user name and password to connect successfully.




8006003
15:20
BluetoothSpeaker
Browser
Calculator
Fri
4
Calendar
Call Log
Camera
CleanMaster
Clock
Contacts
Dialer
DND
DND
Email
Explorer
Files
Gallery
Music
MWI
Notepad
Phone Settings
Settings
SMS
Sound Recorder
Video Player


8006003
15:21
Search settings
Secure your phone
Set screen lock to protect tablet
Network & internet
Wi-Fi, data usage, hotspot
Connected devices
Bluetooth
Apps & notifications
Permissions, default apps
Display
Wallpaper, sleep, font size
Sound
Volume, vibration, Do Not Disturb
USB
USB mode
Storage
57% used - 6.82 GB free

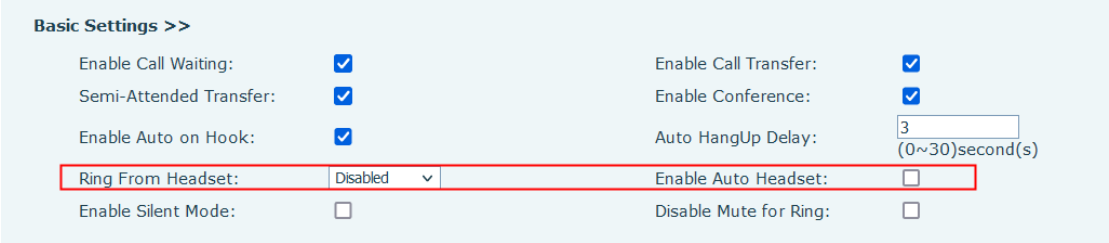


Picture 96 - WIFI settings

10.6 Headset

10.6.1 Wired Headset

- The device supports wired earphone with RJ9 interface, which can play incoming call sound and talk with earphone.
- After the phone is connected to the headset, the default DSS key of headset will be green light which indicates that the headset can be used normally.
- On the webpage [**Phone settings**] >> [**Features**], you can set the headset answering function, and the ring tone for headset.



Picture 97 - Headset function settings

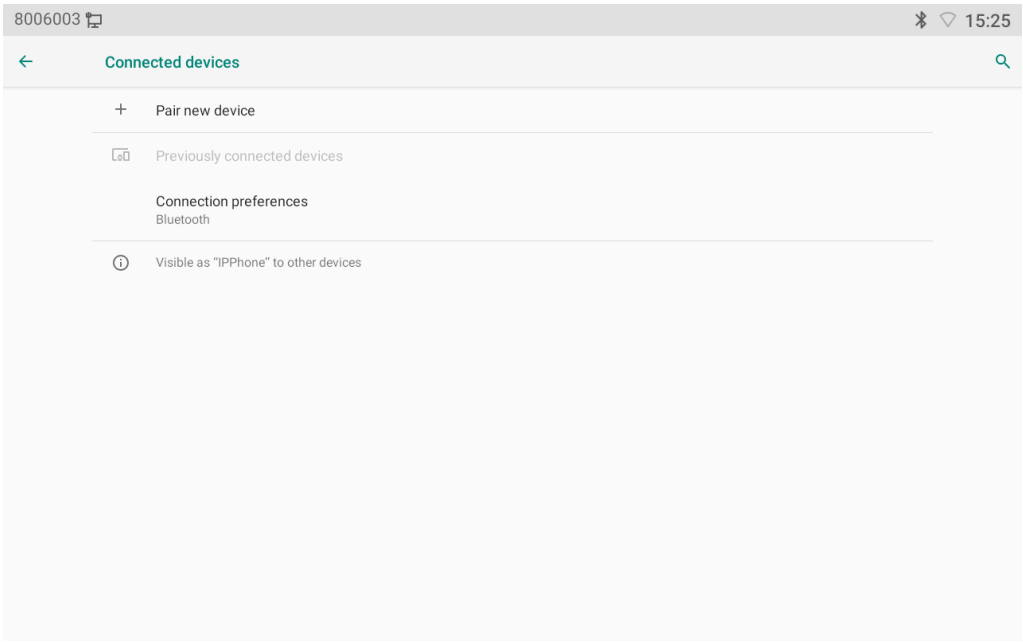
10.6.2 Bluetooth Headset

The device supports wireless Internet access, and the built-in Wi-Fi does not require

external devices.

When the device is in the default standby mode,

- Press [**Application**] till you find the [**Settings**] item.
- Press [**Bluetooth**] item to enter the setup interface.
- Enable Bluetooth and select Paired Device.



Picture 98 - Bluetooth Settings Screen

The use of Bluetooth headset can be divided into three types: call answering; Hang up; Bluetooth redial.

- call answering

When the Bluetooth headset is connected to the phone, the incoming call can be answered by pressing the Bluetooth answer button.

- Hang up

1) When talking with Bluetooth headset, you can hang up the phone by pressing the button on Bluetooth headset.

2) When there is an incoming call, double-click the answer button to reject the call.

3) When the caller is in the ringing state, press the answer button of the headset to cancel the call.

- Bluetooth redial

When the Bluetooth headset is connected, double-click the answer button to redial the number dialed last time.

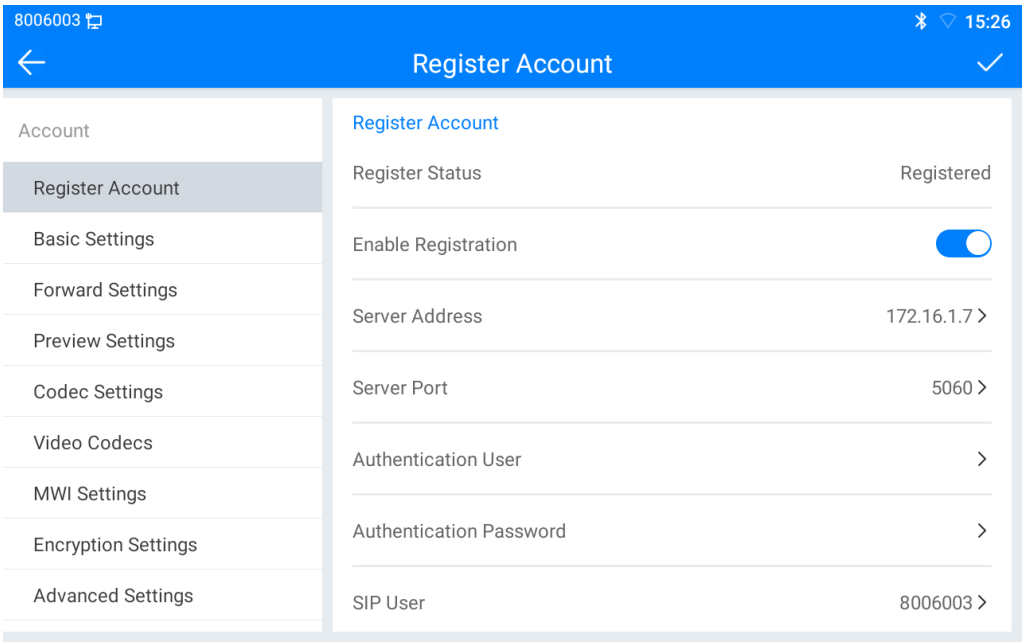
NOTICE! some models do not support double - click reject the call or redial function. Whether this function is supported or not, you can check the instruction

of the headset, or connect the Bluetooth headset to the phone, and double-click the answer button to see whether it will redial.

10.7 Advanced

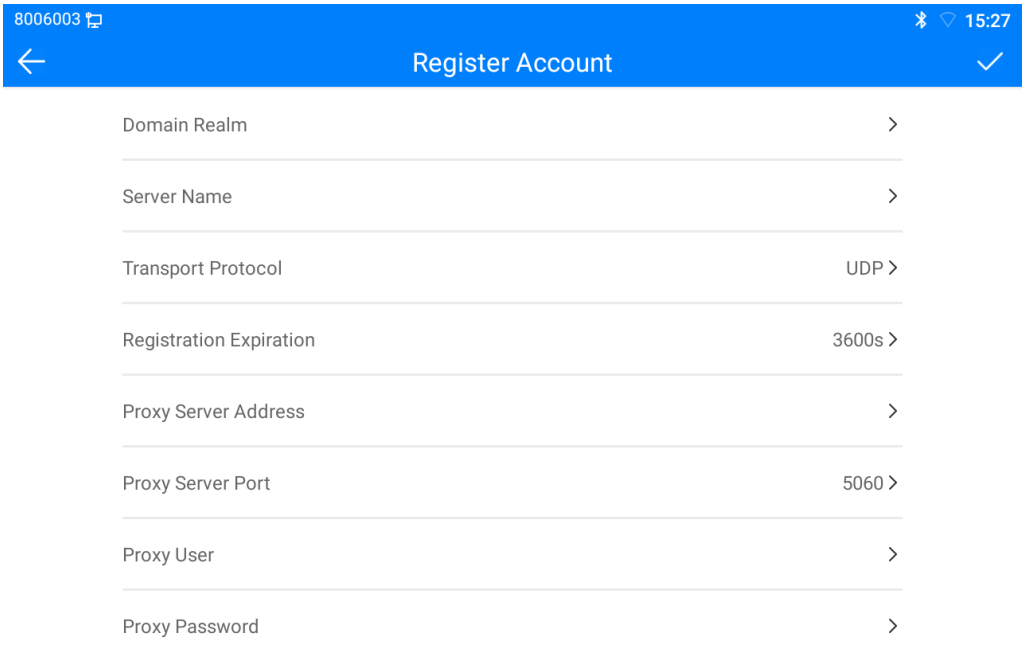
10.7.1 Line Configurations

Phone access [**Phone settings**] >> [**Account**] >> [**Line**], select [**Register Account]** to configure the SIP line on the phone.



Picture 99 - SIP address and account information

For users who want to configure more options, user should use web management portal to modify or [**More Register Settings**] in accounts on the individual line to configure those options.



Picture 100 - Configure Advanced Line Options

10.7.2 Network Settings

10.7.2.1 Network Settings

Phone access [**Phone Settings**] >> [**Network**] >> [**Ethernet**], you can configure the SIP line on the phone.

There are 2 connection mode options: DHCP, Static IP.

Picture 101 - DHCP network mode

When using DHCP mode, phone will get the IP address from DHCP server (router).

- Obtain DNS Server automatically: It is enabled as default. "Enable" means phone will get DNS address from DHCP server and "disable" means not.

Picture 102 - Static IP network mode

When using Static IP mode, user must configure the IP address manually.

- IP Address：Phone IP address.

- Subnet Mask: sub mask of your LAN.
- IP Gateway：The gateway IP address. Phone could access the other network via it.
- Primary DNS：Primary DNS address. The default is 8.8.8.8, Google DNS server address.
- Secondary DNS：Secondary DNS. When primary DNS is not available, it will work.

10.7.2.2 QoS & VLAN

Access [**Phone Settings**]>> [**Network**]>> [**Advance**]

■ **LLDP**

Link Layer Discovery Protocol. LLDP is a vendor independent link layer protocol used by network devices for advertising their identity, capabilities to neighbors on a LAN segment.

Phone could use LLDP to find the VLAN switch or other VLAN devices and use LLDP to learn feature to apply the VLAN ID from VLAN switch to phone its self.

■ **CDP**

Cisco Discovery Protocol. CDP is a not-for-profit charity that runs the global disclosure system for investors, companies, cities, states and regions to manage their environmental impacts. According to the CDP, Cisco devices could share the OS version, IP address, hardware version and so on.

Table 17 - QoS & VLAN

Parameters	Description
LLDP setting	
Report	Enable LLDP
Interval	LLDP requests interval time
Learning	apply the learned VLAN ID to the phone configuration
QoS	
QoS Mode	configure SIP DSCP and audio DSCP
WAN VLAN	
WAN VLAN	WAN port VLAN configuration
LAN VLAN	
LAN VLAN	LAN port VLAN configuration
CDP	

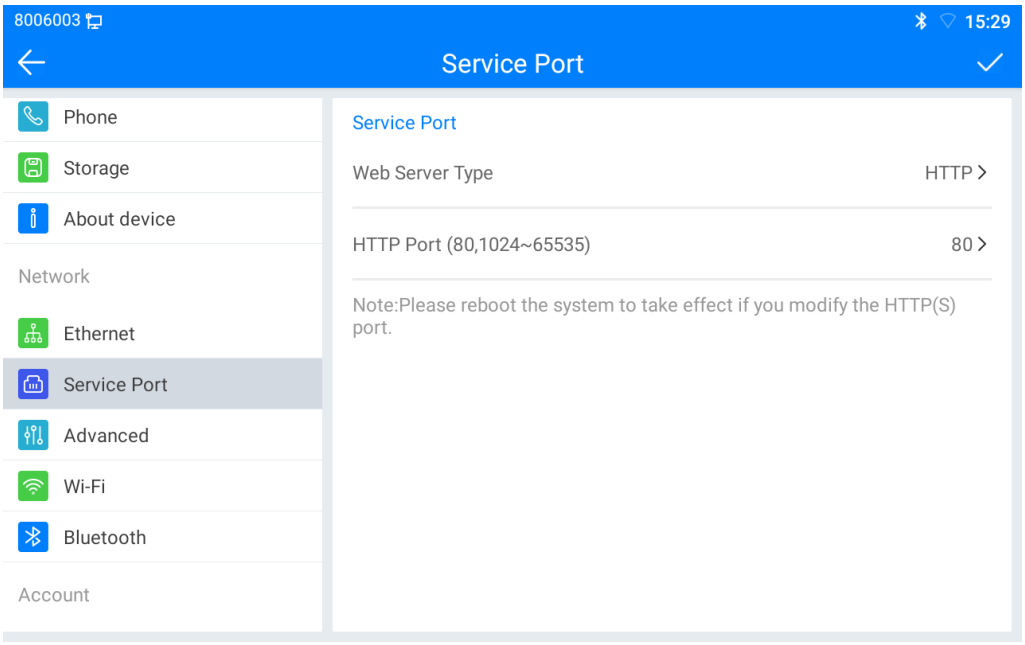
CDP	CDP enable/disable ， CDP interval time

Note：QoS & VLAN details refer to

10.7.2.3 Web Server Type

Access [**Phone Settings**]>> [**Network**]>> [**Service Port**] to configure the Web Server mode.

Configure the Web Server mode to be HTTP or HTTPS and will be activated after the reboot. Then user could use http/https protocol to access pone web page.

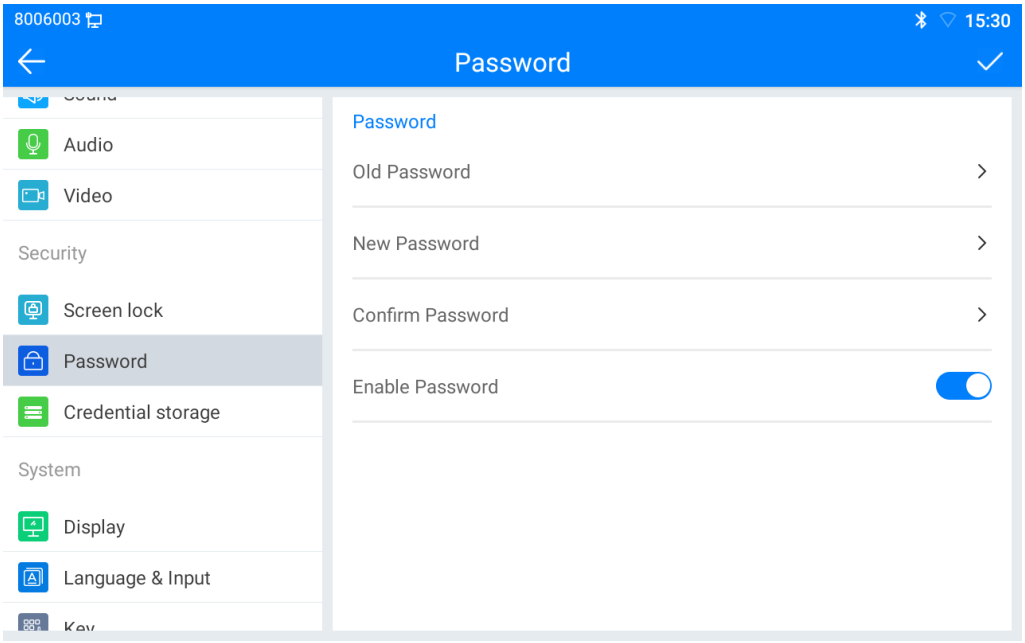


Picture 103 - The phone configures the web server type

10.7.3 Set The Secret Key

When the device is in the default standby mode,

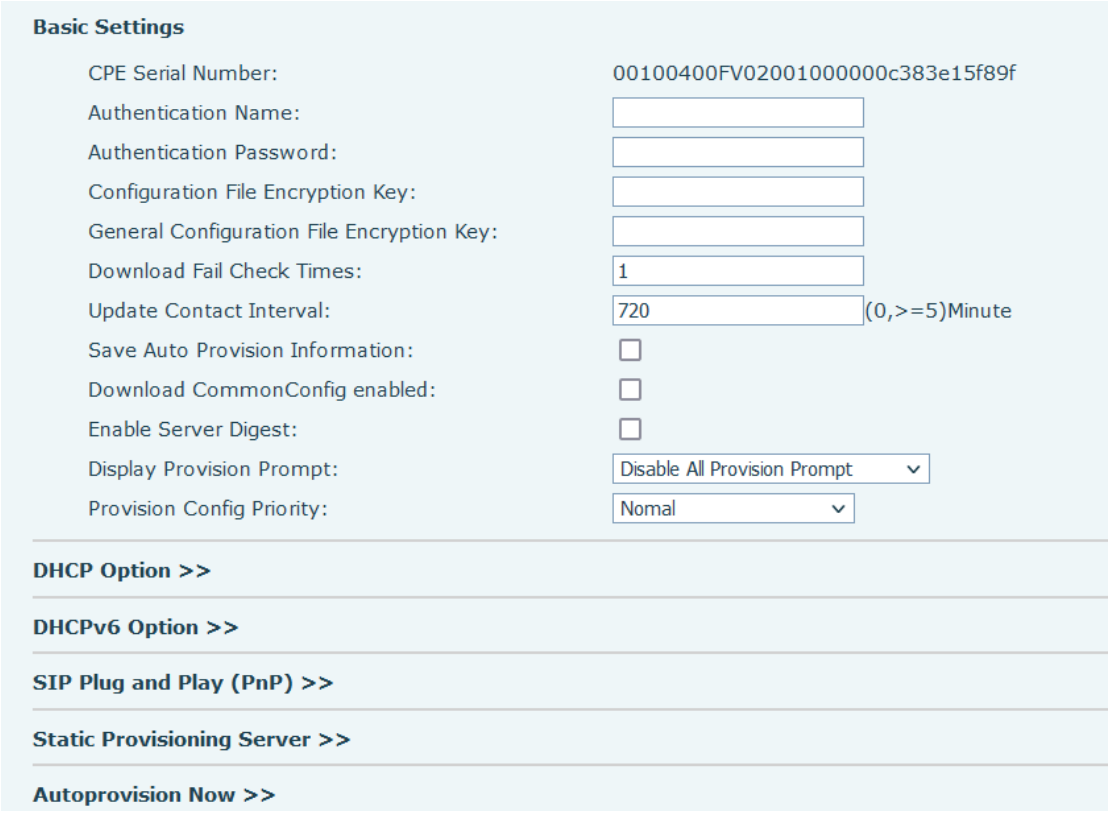
- Select [**Phone Settings**]>> [**System**]>> [**Password**]
- Click [**Password**] to change password.



Picture 104 - Menu password and Settings

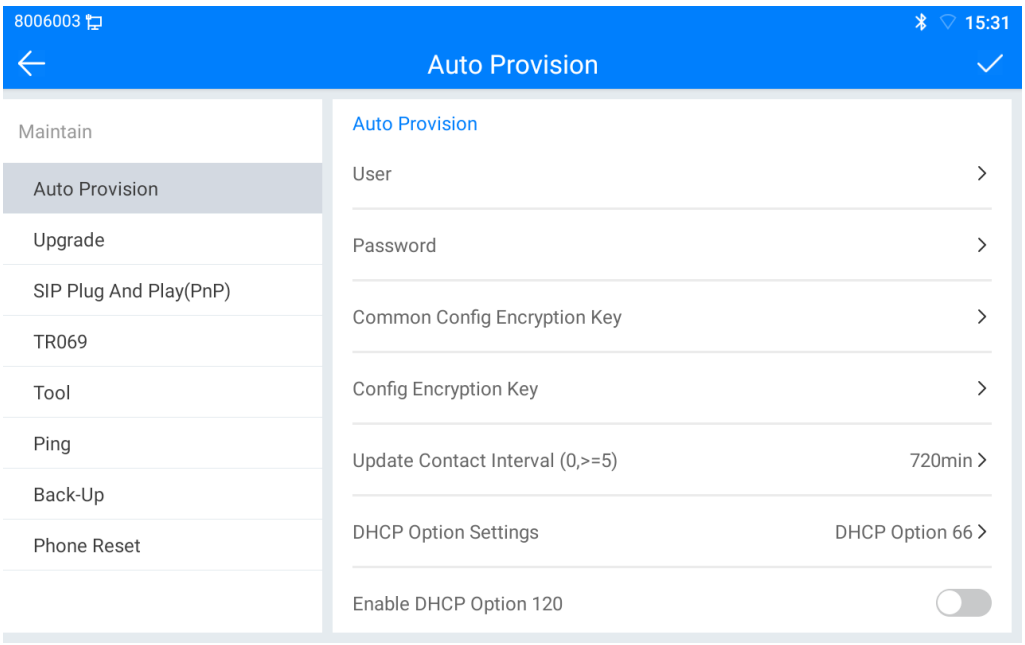
10.7.4 Maintenance

Phone Webpage: Login and go to [**System**] >> [**Auto provision**].



Picture 105 - Page auto provision Settings

LCD：Enter [**Phone Settings**] >> [**System**] >> [**Maintain**] >> [**Auto Provision**].



Picture 106 - Phone auto provision settings

devices support SIP PnP, DHCP options, Static provision, TR069. If all of the 4 methods are enabled, the priority from high to low as below:

PNP>DHCP>TR069> Static Provisioning

Transferring protocol: FTP、 TFTP、 HTTP、 HTTPS

Details refer to **Auto Provision in**

Table 18 - Auto Provision

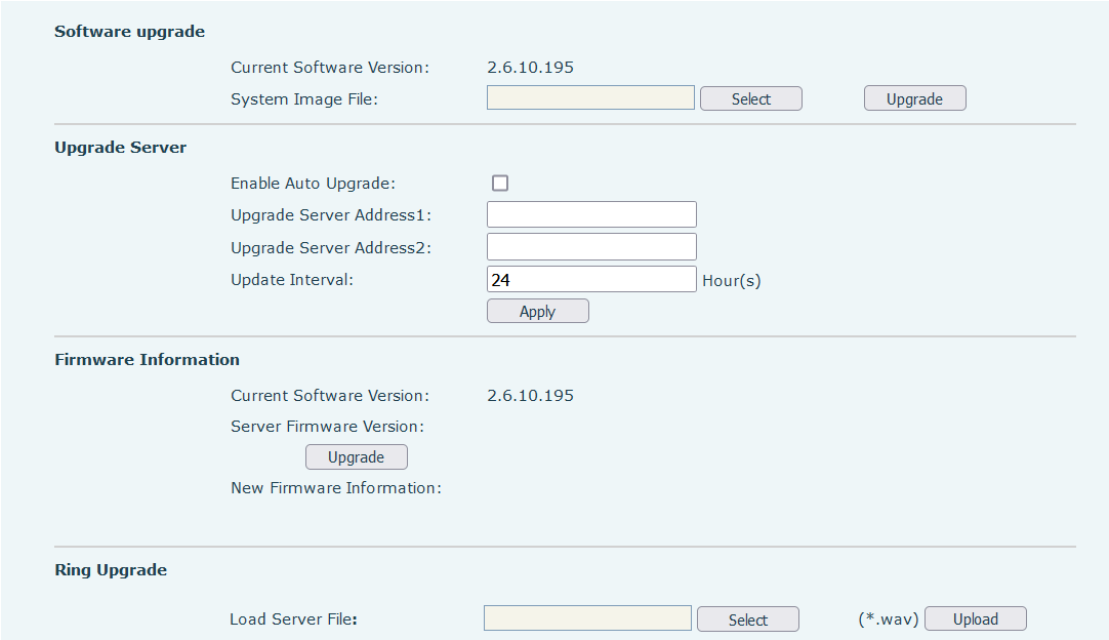
Parameters	**Description**
Basic settings	
CPE Serial Number	Display the device SN
Authentication Name	The user name of provision server
Authentication Password	The password of provision server
Configuration File Encryption Key	If the device configuration file is encrypted , user should add the encryption key here
General Configuration File Encryption Key	If the common configuration file is encrypted, user should add the encryption key here
Download Fail Check Times	If there download is failed, phone will retry with the configured times.
Update Contact Interval	Phone will update the phonebook with the configured interval time. If it is 0, the feature is disabled.
Save Auto Provision	Save the HTTP/HTTPS/FTP user name and password. If the

Information	provision URL is kept, the information will be kept.
Download Common Config enabled	Whether phone will download the common configuration file.
Enable Server Digest	When the feature is enable, if the configuration of server is changed, phone will download and update.
DHCP Option	
Option Value	Confiugre DHCP option, DHCP option supports DHCP custom option | DHCP option 66 | DHCP option 43, 3 methods to get the provision URL. The default is Option 66.
Custom Option Value	Custom Option value is allowed from 128 to 254. The option value must be same as server define.
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP server.
SIP Plug and Play (PnP)	
Enable SIP PnP	Whether enable PnP or not. If PnP is enable, phone will send a SIP SUBSCRIBE message with broadcast method. Any server can support the feature will respond and send a Notify with URL to phone. Phone could get the configuration file with the URL.
Server Address	Broadcast address. As default, it is 224.0.0.0.
Server Port	PnP port
Transport Protocol	PnP protocol, TCP or UDP.
Update Interval	PnP message interval.
Static Provisioning Server	
Server Address	Provisioning server address. Support both IP address and domain address.
Configuration File Name	The configuration file name. If it is empty, phone will request the common file and device file which is named as its MAC address. The file name could be a common name, $mac.cfg, $input.cfg. The file format supports CFG/TXT/XML.
Protocol Type	Transferring protocol type ，supports FTP、TFTP、HTTP and HTTPS
Update Interval	Configuration file update interval time. As default it is 1, means phone will check the update every 1 hour.
Update Mode	Provision Mode. 1. Disabled. 2. Update after reboot.

	3. Update after interval.
TR069	
Enable TR069	Enable TR069 after selection
ACS Server Type	There are 2 options Serve type, common and CTC.
ACS Server URL	ACS server address
ACS User	ACS server username (up to is 59 character)
ACS Password	ACS server password (up to is 59 character)
Enable TR069 Warning Tone	If TR069 is enabled, there will be a prompt tone when connecting.
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999s
STUN Server Address	Configure STUN server address
STUN Enable	To enable STUN server for TR069

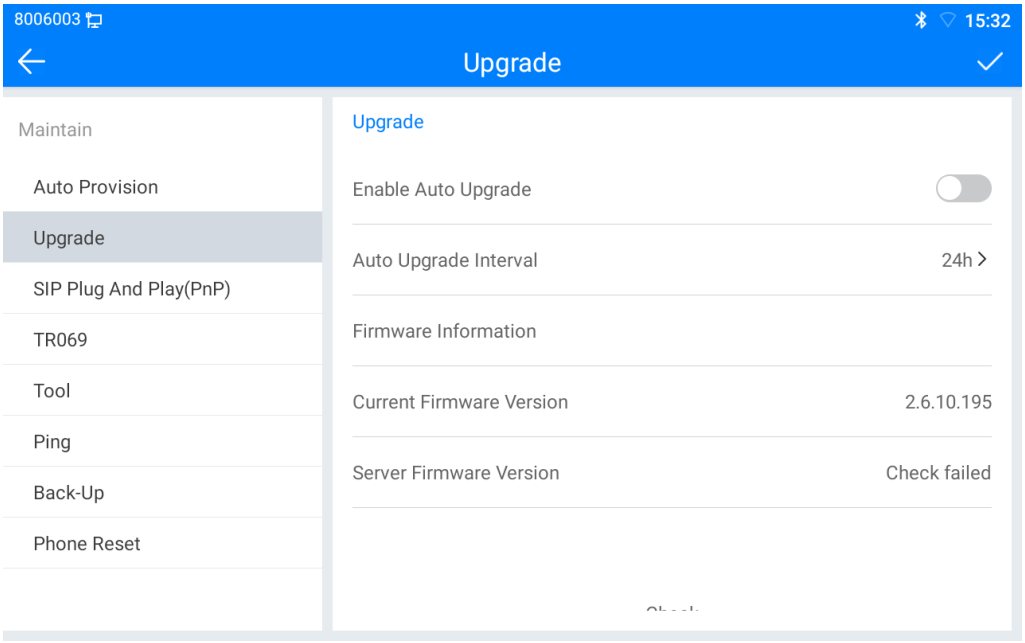
10.7.5 Firmware Upgrade

- Web page： Login phone web page, go to [**System**] >> [**Upgrade**].



Picture 107 - Web page firmware upgrade

- LCD interface: go to [**Menu**] >> [**Maintain**] >> [**Upgrade**] .



Picture 108 - Firmware upgrade information display

Table 19 - Firmware upgrade

Parameter	Description
Upgrade server	
Enable Auto Upgrade	Enable automatic upgrade, If there is a new version txt and new software firmware on the server, phone will show a prompt upgrade message after Update Interval.
Upgrade Server Address1	Set available upgrade server address.
Upgrade Server Address2	Set available upgrade server address.
Update Interval	Set Update Interval.
Firmware Information	
Current Software Version	It will show Current Software Version.
Server Firmware Version	It will show Server Firmware Version.
[Upgrade] button	If there is a new version txt and new software firmware on the server, the page will display version information and upgrade button will become available; Click [Upgrade] button to upgrade the new firmware.
New version description information	When there is a corresponding TXT file and version on the server side, the TXT and version information will be displayed under the new version description information.

- The file requested from the server is a TXT file called vendor_model_hw10.txt.Hw followed by the hardware version number, it will be written as hw10 if no difference

on hardware. All Spaces in the filename are replaced by underline.

- The URL requested by the phone is HTTP:// server address/vendor_Model_hw10 .txt：The new version and the requested file should be placed in the download directory of the HTTP server
- TXT file format must be UTF-8
- vendor_model_hw10.TXT The file format is as follows：

  Version=1.6.3 #Firmware

  Firmware=xxx/xxx.z #URL，Relative paths are supported and absolute paths are possible, distinguished by the presence of protocol headers.

  BuildTime=2018.09.11 20:00

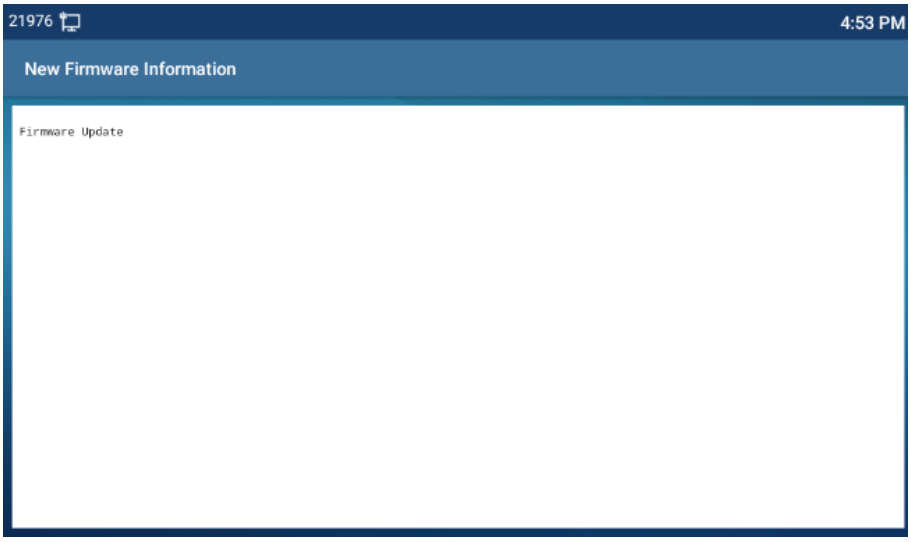
  Info=TXT|XML

  Xxxxx

  Xxxxx

  Xxxxx

  Xxxxx
- After the interval of update cycle arrives, if the server has available files and versions, the phone will prompt as shown below. Click [view] to check the version information and upgrade.



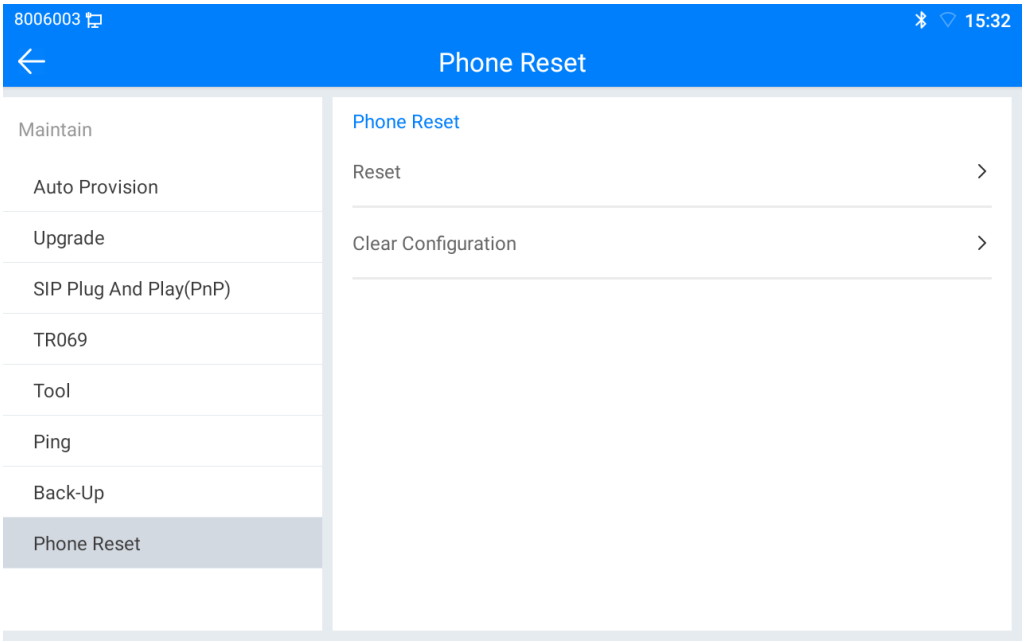
Picture 109 - Firmware upgrade

10.7.6 Factory Reset

The phone is in default standby mode.

- Press [**Phone Settings**] to find [**System**]>> [**Maintain**]>> [**Phone Reset**].
- Press the [**Reset**] button to select the file to be cleared.

Press [**OK**] to clear after completion. When you select clear configuration file and clear all, the phone will restart automatically after clearing.



Picture 110 - Reset to default

11 Web Configurations

11.1 Web Page Authentication

The user can log into the web page of the phone to manage the user's phone information and operate the phone. Users must provide the correct user name and password to log in.

11.2 System >> Information

User can get the system information of the device in this page including,

- Model
- Hardware Version
- Software Version
- Uptime

And summarization of network status,

- Network Mode
- MAC Address
- IP
- Subnet Mask
- Default Gateway

Besides, summarization of SIP account status,

- SIP User
- SIP account status (Registered / Unapplied / Trying / Timeout)

11.3 System >> Account

On this page the user can change the password for the login page.

Users with administrator rights can also add or delete users, manage users, and set permissions and passwords for new users.

11.4 System >> Configurations

On this page, users with administrator privileges can view, export, or import the phone configuration, or restore the phone to factory Settings.

■ **Clear Configurations**

Select the module in the configuration file to clear.

SIP: account configuration.

AUTOPROVISION: automatically upgrades the configuration

TR069:TR069 related configuration

MMI: MMI module, including authentication user information, web access protocol, etc.

DSS Key: DSS Key configuration

Note: The function of the Clear Configuration button is to permanently clear all basic configurations. User can choose to retain the contents of the six sections within the options.

■ **Clear Tables**

Select the local data table to be cleared, all selected by default.

■ **Reset Phone**

The phone data will be cleared, including configuration and database tables.

11.5 System >> Upgrade

Upgrade the phone software version, customized ringtone, background, DSS Key icon, etc., can also be upgraded to delete the file. Ring tone support ".wav" format.

11.6 System >> Auto Provision

The Auto Provision settings help IT manager or service provider to easily deploy and manage the devices in mass volume. For the detail of Auto Provision, please refer to this link Auto Provision Description。

11.7 System >> Tools

Tools provided in this page help users to identify issues at trouble shooting. Please refer to 13 Trouble Shooting for more detail.

11.8 System >> Reboot Phone

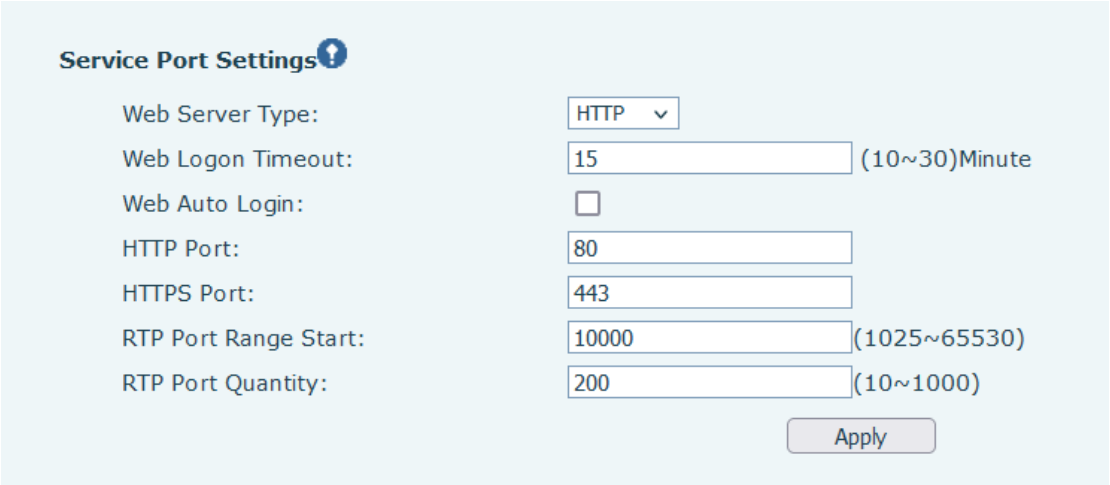
This page can restart the phone.

12 Network >> Basic

This page allows users to configure network connection types and parameters.

12.1 Network >> Service Port

This page provides settings for Web page login protocol, protocol port settings and RTP port.



Picture 111 - Service Port Settings

Table 20 - Service port

Parameter	Description
Web Server Type	Reboot to take effect after settings. Optionally, the web page login is HTTP/HTTPS.
Web Logon Timeout	Default as 15 minutes, the timeout will automatically exit the login page, need to login again.
Web auto login	After the timeout does not need to enter a user name password, will automatically login to the web page.
HTTP Port	The default is 80. If you want system security, you can set ports other than 80. Such as :8080, webpage login: HTTP://ip:8080
HTTPS Port	The default is 443, the same as the HTTP port.

RTP Port Range Start	The value range is 1025 to 65535. The value of RTP port starts from the initial value set. For each call, the value of voice and video port is added 2.
RTP Port Quantity	Number of calls.

12.2 Network >> Advanced

Advanced network Settings are typically configured by the IT administrator to improve the quality of the phone service. For configuration, query the 10.7 advanced Settings.

12.3 Line >> SIP

Configure the Line service configuration on this page.

Table 21 - Line configuration on the web page

Parameters	Description
Register Settings	
Line Status	Display the current line status at page loading. To get the up to date line status, user has to refresh the page manually.
Activate	Whether the service of the line is activated
Username	Enter the username of the service account.
Authentication User	Enter the authentication user of the service account
Display Name	Enter the display name to be sent in a call request.
Authentication Password	Enter the authentication password of the service account
Realm	Enter the SIP domain if requested by the service provider
Server Name	Input server name.
SIP Server 1	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP

	or TLS.
Registration Expiration	Set SIP expiration date.
SIP Server 2	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.
Registration Expiration	Set SIP expiration date.
SIP Proxy Server Address	Enter the IP or FQDN address of the SIP proxy server.
Proxy Server Port	Enter the SIP proxy server port, default is 5060.
Proxy User	Enter the SIP proxy user.
Proxy Password	Enter the SIP proxy password.
Backup Proxy Server Address	Enter the IP or FQDN address of the backup proxy server.
Backup Proxy Server Port	Enter the backup proxy server port, default is 5060.
Basic Settings	
Enable Auto Answering	Enable auto-answering, the incoming calls will be answered automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system automatically answered it
Call Forward Unconditional	Enable unconditional call forward, all incoming calls will be forwarded to the number specified in the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	Enable call forward on busy, when the phone is busy, any incoming call will be forwarded to the number specified in the next field.
Call Forward Number for Busy	Set the number of call forward on busy .
Call Forward on No Answer	Enable call forward on no answer, when an incoming call is not answered within the configured delay time, the call will be forwarded to the number specified in the next field.
Call Forward Number for No Answer	Set the number of call forward on no answer.
Call Forward Delay for No Answer	Set the delay time of not answered call before being forwarded.
Transfer Timeout	Set the timeout of call transfer process.

Conference Type	Set the type of call conference, Local=set up call conference by the device itself, maximum supports two remote parties, Server=set up call conference by dialing to a conference room on the server
Server Conference Number	Set the conference room number when conference type is set to be Server
Subscribe For Voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is voice message waiting on the server
Voice Message Number	Set the number for retrieving voice message
Voice Message Subscribe Period	Set the interval of voice message notification subscription
Enable Hotline	Enable hotline configuration, the device will dial to the specific number immediately at audio channel opened by off-hook handset or turn on hands-free speaker or headphone
Hotline Delay	Set the delay for hotline before the system automatically dialed it
Hotline Number	Set the hotline dialing number
Dial Without Registered	Set call out by proxy without registration
Enable Missed Call Log	If enabled, the phone will save missed calls into the call history record.
DTMF Type	Set the DTMF type to be used for the line
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'
Enable DND	Enable Do-not-disturb, any incoming call to this line will be rejected automatically
Subscribe For Voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is voice message waiting on the server
Use VPN	Set the line to use VPN restrict route
Use STUN	Set the line to use STUN for NAT traversal
Enable Failback	Whether to switch to the primary server when it is available.
Failback Interval	A Register message is used to periodically

	detect the time interval for the availability of the main Proxy.
Signal Failback	Multiple proxy cases, whether to allow the invite/register request to also execute failback.
Signal Retry Counts	The number of attempts that the SIP Request considers proxy unavailable under multiple proxy scenarios.
Codecs Settings	Set the priority and availability of the codecs by adding or remove them from the list.
Video Codecs	Select video code to preview video.
Advanced Settings	
Use Feature Code	When this setting is enabled, the features in this section will not be handled by the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field.
Enable DND	Set the feature code to dial to the server
Disable DND	Set the feature code to dial to the server
Enable Call Forward Unconditional	Set the feature code to dial to the server
Disable Call Forward Unconditional	Set the feature code to dial to the server
Enable Call Forward on Busy	Set the feature code to dial to the server
Disable Call Forward on Busy	Set the feature code to dial to the server
Enable Call Forward on No Answer	Set the feature code to dial to the server
Disable Call Forward on No Answer	Set the feature code to dial to the server
Enable Blocking Anonymous Call	Set the feature code to dial to the server
Disable Blocking Anonymous Call	Set the feature code to dial to the server
Call Waiting On Code	Set the feature code to dial to the server
Call Waiting Off Code	Set the feature code to dial to the server
Send Anonymous On Code	Set the feature code to dial to the server
Send Anonymous Off Code	Set the feature code to dial to the server
SIP Encryption	Enable SIP encryption such that SIP transmission will be encrypted
RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted
Enable Session Timer	Set the line to enable call ending by session timer refreshment. The call session will be ended if there is not new session timer event

	update received after the timeout period
Session Timeout	Set the session timer timeout period
Enable BLF List	Enable/Disable BLF List
BLF List Number	BLF List allows one BLF key to monitor the status of a group. Multiple BLF lists are supported.
Response Single Codec	If setting enabled, the device will use single codec in response to an incoming call request
BLF Server	The registered server will receive the subscription package from ordinary application of BLF phone. Please enter the BLF server, if the sever does not support subscription package, the registered server and subscription server will be separated.
Keep Alive Type	Set the line to use dummy UDP or SIP OPTION packet to keep NAT pinhole opened
Keep Alive Interval	Set the keep alive packet transmitting interval
Keep Authentication	Keep the authentication parameters from previous authentication
Blocking Anonymous Call	Reject any incoming call without presenting caller ID
User Agent	Set the user agent, the default is Model with Software Version.
Specific Server Type	Set the line to collaborate with specific server type
SIP Version	Set the SIP version
Anonymous Call Standard	Set the standard to be used for anonymous
Local Port	Set the local port
Ring Type	Set the ring tone type for the line
Enable user=phone	Sets user=phone in SIP messages.
Use Tel Call	Set use tel call
Auto TCP	Using TCP protocol to guarantee usability of transport for SIP messages above 1500 bytes
Enable Rport	Set the line to add rport in SIP headers
Enable PRACK	Set the line to support PRACK SIP message
DNS Mode	Select DNS mode, A, SRV, NAPTR
Enable Long Contact	Allow more parameters in contact field per RFC 3840

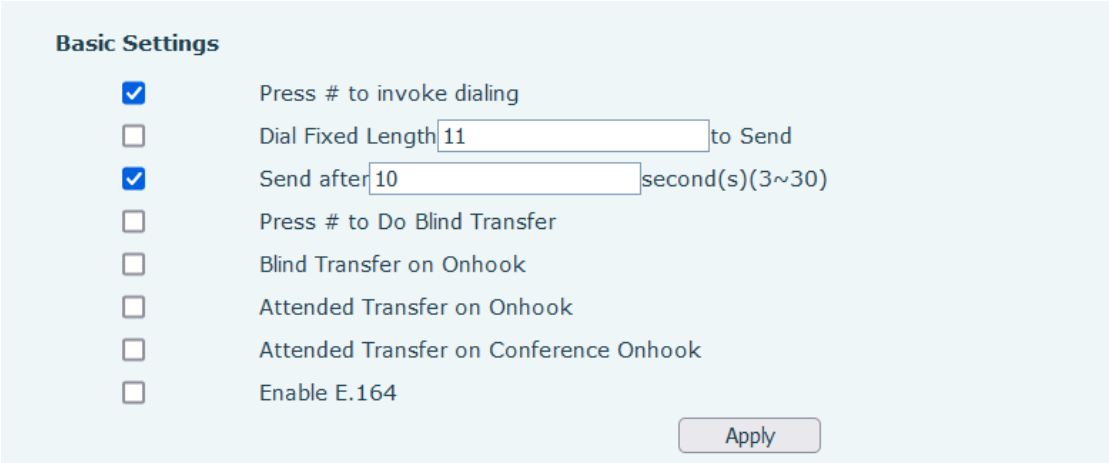
Enable Strict Proxy	Enables the use of strict routing. When the phone receives packets from the server，it will use the source IP address, not the address in via field.
Convert URI	Convert not digit and alphabet characters to %hh hex code
Use Quote in Display Name	Whether to add quote in display name, i.e. “123” vs 123
Enable GRUU	Support Globally Routable User-Agent URI (GRUU)
Sync Clock Time	Time Sync with server
Enable Inactive Hold	With the post-call hold capture package enabled, you can see that in the INVITE package, SDP is inactive.
Caller ID Header	Set the Caller ID Header
Use 182 Response for Call waiting	Set the device to use 182 response code at call waiting response
Enable Feature Sync	Feature Sync with server
Enable SCA	Enable/Disable SCA (Shared Call Appearance)
CallPark Number	Set the CallPark number.
Server Expire	Set the timeout to use the server.
TLS Version	Choose TLS Version.
uaCSTA Number	Set uaCSTA Number.
Enable Click To Talk	With the use of special server, click to call out directly after enabling.
Enable Chgport	Whether port updates are enabled.
VQ Name	Open the VQ name for VQ RTCP-XR.
VQ Server	Open VQ server address for VQ RTCP-XR.
VQ Port	Open VQ port for VQ RTCP-XR.
VQ HTTP/HTTPS Server	Enable VQ server selection for VQ RTCP-XR.
Flash mode	Chose Flash mode，normal or SIP info.
Flash Info Content-Type	Set the SIP info content type.
Flash Info Content-Body	Set the SIP info content body.
PickUp Number	Set the scramble number when the Pickup is enabled.
JoinCall Number	Set JoinCall Number.
Intercom Number	Set Intercom Number.

Unregister On Boot	Whether to enable logout function.
Enable MAC Header	Whether to open the registration of SIP package with user agent with MAC or not.
Enable Register MAC Header	Whether to open the registration is user agent with MAC or not.
BLF Dialog Strict Match	Whether to enable accurate matching of BLF sessions.
PTime(ms)	Set whether to bring ptime field, default no.
SIP Global Settings	
Strict Branch	Set up to strictly match the Branch field.
Enable Group	Set open group.
Enable RFC4475	Set to enable RFC4475.
Enable Strict UA Match	Enable strict UA matching.
Registration Failure Retry Time	Set the registration failure retry time.
Local SIP Port	Modify the phone SIP port.
Enable uaCSTA	Set to enable the uaCSTA function.

12.4 Line >> SIP Hotspot

Please refer to 9.9 SIP Hotspot.

12.5 Line >> Dial Plan

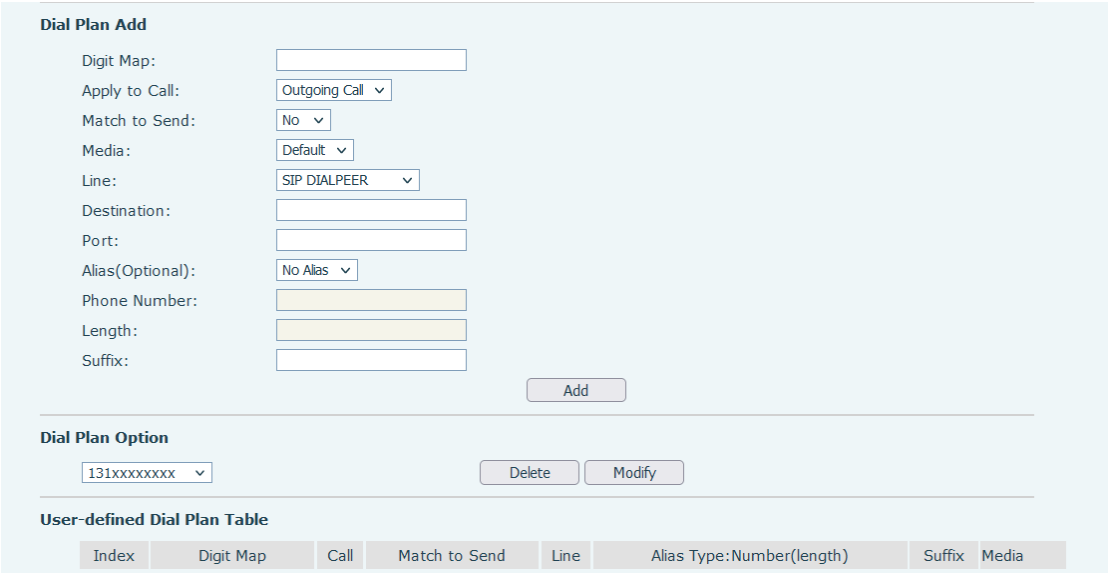


Picture 112 - Dial plan settings

Table 22 - Phone 7 dialing methods

Parameters	Description
Press # to invoke dialing	The user dials the other party's number and then adds the # number to dial out;
Dial Fixed Length	The number entered by the user is automatically dialed out when it reaches a fixed length
Timeout dial	The system dials automatically after timeout
Press # to Do Blind Transfer	Press the [Transfer] key first, and after the user enters the number to be transferred and then presses the "#" key to transfer the current call to a third party
Blind Transfer on Onhook	Press the [Transfer] key first, and after the user enters the number, hang up the handle or turn off the hands-free function to transfer the current call to a third party.
Attended Transfer on Onhook	Hang up the handle or press the hands-free button to realize the function of attention -transfer, which can transfer the current call to a third party.
Attended Transfer on Conference Onhook	During a three-way call, hang up the handle and the remaining two parties remain on the call.

Add dialing rules:



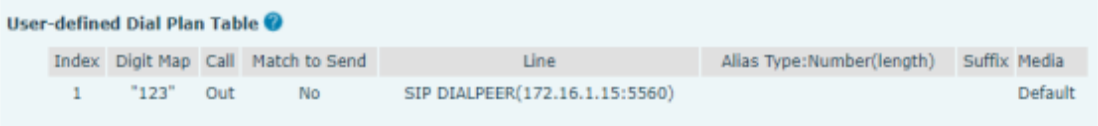
Picture 113 - Custom setting of dial - up rules

Table 23 - Dial - up rule configuration table

Parameters	Description
Dial rule	There are two types of matching: Full Matching or Prefix Matching. In Full matching, the entire phone number is entered and then mapped per the Dial Peer rules. In prefix matching, only part of the number is entered followed by T. The mapping with then take place whenever these digits are dialed. Prefix mode supports a maximum of 30 digits.
Note: Two different special characters are used. ■ x -- Matches any single digit that is dialed. ■ [ ] -- Specifies a range of numbers to be matched. It may be a range, a list of ranges separated by commas, or a list of digits.	
Destination	Set Destination address. This is for IP direct.
Port	Set the Signal port, and the default is 5060 for SIP.
Alias	Set the Alias. This is the text to be added, replaced or deleted. It is an optional item.
Note: There are four types of aliases. ■ all: xxx – xxx will replace the phone number. ■ add: xxx – xxx will be dialed before any phone number. ■ del – The characters will be deleted from the phone number. ■ rep: xxx – xxx will be substituted for the specified characters.	
Suffix	Characters to be added at the end of the phone number. It is an optional item.
Length	Set the number of characters to be deleted. For example, if this is set to 3, the phone will delete the first 3 digits of the phone number. It is an optional item.

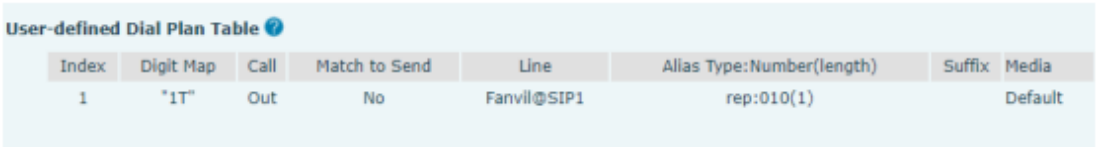
This feature allows the user to create rules to make dialing easier. There are several different options for dialing rules. The examples below will show how this can be used.

Example 1: All Substitution -- Assume that it is desired to place a direct IP call to IP address 172.168.2.208. Using this feature, 123 can be substituted for 172.168.2.208.



Picture 114 - Dial rules table (1)

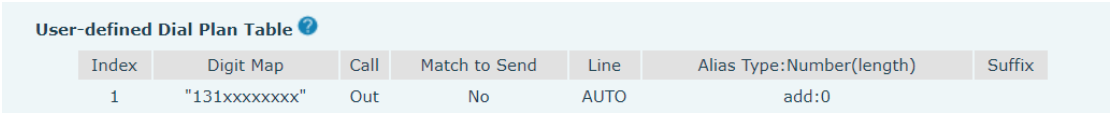
Example 2: Partial Substitution -- To dial a long distance call to Beijing requires dialing area code 010 before the local phone number. Using this feature 1 can be substituted for 010. For example, to call 62213123 would only require dialing 162213123 instead of 01062213123.



Picture 115 - Dial rules table (2)

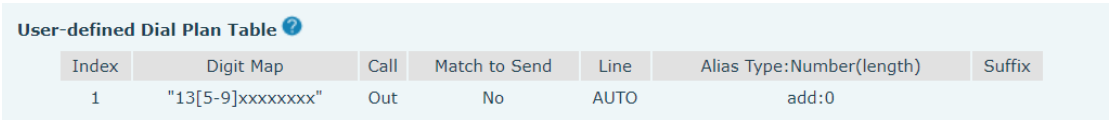
Example 3: Addition -- Two examples are shown.

In the first case, it is assumed that 0 must be dialed before any 11 digit number beginning with 131.



Picture 116 - Dial rules table (3)

In the second case, it is assumed that 0 must be dialed before any 11 digit number beginning with 135, 136, 137, 138, or 139. Two different special characters are used.



Picture 117 - Dial rules table (4)

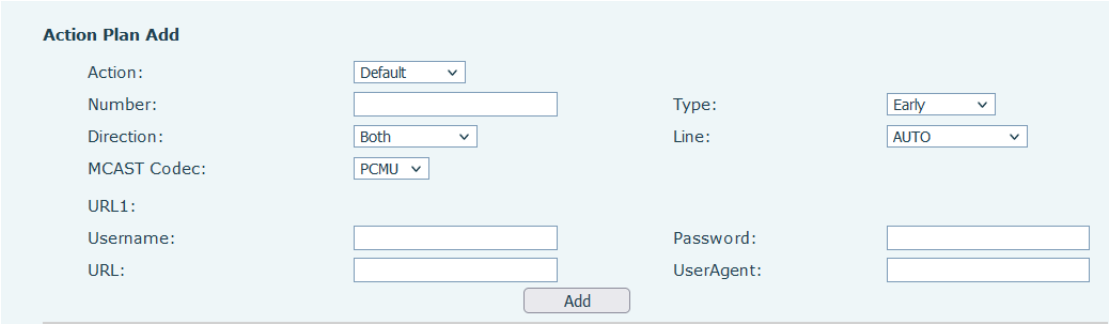
x -- Matches any single digit that is dialed.

[] -- Specifies a range of numbers to be matched. It may be a range, a list of ranges separated by commas, or a list of digits.

12.6 Line >> Action Plan

Action plan: a technical implementation defined and designed by fanvil for remote control and behavior linkage between fanvil terminal equipment and other equipment. That is, when an event occurs on the fanvil terminal, the terminal can execute an action, which is completed according to a plan rule.

Log in to the phone web, visit [**Line**] >[**Action plan**], and configure action plan rules.



Picture 118 - Action Plan

Table 24 - Action Plan

Parameter	Description
Action	Default: when the rule is triggered, the phone displays video or converts multicast according to the RTSP URL or multicast address port set by the website. Video: when the rule is triggered, the phone accesses the RTSP URL configured by the URL to display the video. MCAST-XFER: when the rule is triggered, the phone converts the incoming call or multicast into multicast and sends it to the set multicast address port. Record: the phone automatically turns on the recording function when the rule is triggered. Mute: the phone will mute automatically when the rule is triggered. Answer: when the rule is triggered, the phone

	automatically answers the incoming call.
Number	Auxiliary phone number
Type	Early: trigger execution before call establishment. Connected: trigger execution after call establishment.
Direction	For call mode, incoming/outgoing call
Line	Set up outgoing lines.
Username	Bind the user name of the IP camera.
Password	Bind IP camera password.
URL	Video streaming information or MCAST IP address.
User Agent	Set user agent information

12.7 Line >> Basic Settings

Set up the register global configuration.

Table 25 - Set the line global configuration on the web page

Parameters	Description
STUN Settings	
Server Address	Set the STUN server address
Server Port	Set the STUN server port, default is 3478
Binding Period	Set the STUN binding period which can be used to keep the NAT pinhole opened.
SIP Waiting Time	Set the timeout of STUN binding before sending SIP messages
Certification File	
TLS Certification File	Upload or delete the TLS certification file used for encrypted SIP transmission.

12.8 Phone settings >> Features

Configuration phone features.

Table 26 - General function Settings

Parameters	Description
Basic Settings	
Enable Call Waiting	Enable this setting to allow user to take second incoming call during an established call. Default enabled.
Enable Call Transfer	Enable Call Transfer.
Semi-Attended Transfer	Enable Semi-Attended Transfer by selecting it
Enable 3-Way Conference	Enable 3-way conference by selecting it
Enable Auto Onhook	The phone will hang up and return to the idle automatically at hands-free mode
Auto Onhook Time	Specify Auto Onhook time, the phone will hang up and return to the idle automatically after Auto Hand down time at hands-free mode, and play dial tone Auto Onhook time at handset mode
Ring for Headset	Enable Ring for Handset by selecting it, the phone plays ring tone from handset.
Auto Headset	Enable this feature, headset plugged in the phone, user press 'answer' key or line key to answer a call with the headset automatically.
Enable Silent Mode	When enabled, the phone is muted, there is no ringing when calls, you can use the volume keys and mute key to unmute.
Disable Mute for Ring	When it is enabled, you can't mute the phone
Enable Default Line	If enabled, user can assign default SIP line for dialing out rather than SIP1.
Enable Auto Switch Line	Enable phone to select an available SIP line as default automatically
Default Ext Line	Select the default line to use for outgoing calls
Ban Outgoing	If you select Ban Outgoing to enable it, and you cannot dial out any number.
Hide DTMF	Configure the hide DTMF mode.
Enable CallLog	Select whether to save the call log.
Enable Restricted Incoming List	Whether to enable restricted call list.
Enable Allowed Incoming List	Whether to enable the allowed call list.
Enable Restricted Outgoing List	Whether to enable the restricted allocation list.

Enable Country Code	Whether the country code is enabled.
Country Code	Fill in the country code.
Area Code	Fill in the area code.
Enable Number Privacy	Whether to enable number privacy.
Match Direction	Matching direction, there are two kinds of rules from right to left and from left to right.
Start Position	Open number privacy after the start of the hidden location.
Hide Digits	Turn on number privacy to hide the number of digits.
Allow IP Call	If enabled, user can dial out with IP address
P2P IP Prefix	Prefix a point-to-point IP call.
Caller Name Priority	Change caller ID display priority.
Emergency Call Number	
Search path	Select the search path.
LDAP Search	Select from with one LDAP for search
Emergency Call Number	Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number
Restrict Active URI Source IP	Set the device to accept Active URI command from specific IP address. More details please refer to this link
Push XML Server	Configure 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.
Enable Pre-Dial	Disable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.
Enable Multi Line	If enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.
Line Display Format	Custom line format：SIPn/SIPn：xxx/xxx@SIPn
Contact As White List Type	NONE/BOTH/DND White List/FWD White List
Block XML When Call	Disable XML push on call.
SIP notify	When enabled, the phone displays the

	information when it receives the relevant notify content.
Tone Settings	
Enable Holding Tone	When turned on, a tone plays when the call is held
Enable Call Waiting Tone	When turned on, a tone plays when call waiting
Play Dialing DTMF Tone	Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.
Play Talking DTMF Tone	Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.
DND Settings	
DND Option	Select to take effect on the line or on the phone or close.
Enable DND Timer	Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.
DND Start Time	Set DND Start Time
DND End Time	Set DND End Time
Intercom Settings	
Enable Intercom	When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is intercom call, the phone plays the intercom tone
Enable Intercom Barge	Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call
Response Code Settings	
DND Response Code	Set the SIP response code on call rejection on DND
Busy Response Code	Set the SIP response code on line busy
Reject Response Code	Set the SIP response code on call rejection
Password Dial Settings	

Enable Password Dial	Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stands for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone.
Encryption Number Length	Configure the Encryption Number length
Password Dial Prefix	Configure the prefix of the password call number
Power LED	
Common	Standby power lamp state, off when off, open is always bright red. Off by default.
SMS/MWI	The status of power lamp when there is unread short message/voice message, including off/on/slow flash/quick flash, default slow flash.
Missed	The state of the power lamp when there is a missed call, including off/on/slow flash/quick flash, the default slow flash.
Talk/Dial	In the talk/dial state, the power lamp state, off is off, on is always red bright, the default is off.
Ringing	Power lamp status when there is an incoming call, including off/on/slow flash/quick flash, default flash.
Mute	Power lamp status in mute mode, including off/on/slow flash/quick flash, off by default.
Hold/Held	The power lamp state, including off/on/slow flash/quick flash, is turned off by default when left/retained.
Notification Popups	
Display Missed Call Popup	No incoming call popup prompt after opening, no popup prompt when closing, open by default.
Display MWI Popup	Voice message popup prompt is not answered after opening, and it is opened by default if there is no popup prompt when closing.
Display Device Connect Popup	There is a popup prompt when the WIFI adapter

	is connected. There is no popup prompt when the WIFI adapter is closed. It is on by default.
Display SMS Popup	There is popup prompt for unread messages after opening, and there is no popup prompt when closing. It is opened by default.
Display Other Popup	When the handle is not hung back after opening, registration fails, IP acquisition fails, Tr069 connection fails and other abnormalities, there will be popup prompt when it is opened; otherwise, there will be no prompt when it is closed, and it will be opened by default.

12.9 Phone settings >> Media Settings

Change voice Settings.

Table 27 - Voice settings

Parameter	Description
Codecs Settings	Select enable or disable voice encoding: G.711A/U,G.722,G.729, G.726-16,G726-24,G726-32,G.726-40, ILBC,opus
Video codec	
Video codec	Select to enable video encoding:H264
Media Setting	
DTMF Payload Type	Enter the DTMF payload type, the value must be 96~127.
Headset Mic Gain	Set the earphone's radio volume gain to fit different models of earphones.
Opus playload type	Set Opus load type, range 96~127.
OPUS Sample Rate	Set Opus sampling rate, including opus-nb (8KHz) and opus-wb (16KHz).
ILBC Payload Type	Set the ILBC Payload Type, the value must be 96~127.
ILBC Payload Length	Set the ILBC Payload Length
Onhook Time	Configure a minimum response time, which

	defaults to 200ms
Enable the patting spring to generate Flash	Whether to turn on the plug spring to generate Flash
Video bit rate	Set the bit rate of video:64kbps，192kbps，256kbps，384kbps，512kbps，768kbps，1Mbps，1.6Mbps，2Mbps，3Mbps，4Mbps
Video frame rate	Set the video frame rate：5fps，10fps，15fps，20fps，25fps，30fps
Video resolution	Set Video resolution：CIF,VGA,4CIF,720P
H.264Payload Type	Set the H264 Payload Type，the value must be 96~127.
Display splicing frame	Whether to start displaying splicing frames
RTP Control Protocol(RTCP) Settings	
CNAME user	Set CNAME user
CNAME host	Set CNAME host
RTP Settings	
RTP keep alive	Hold the call and send the packet after 30s
Alert Info Ring Settings	
Value	Set the value to specify the ring type.
Ring Type	Type1-Type9

12.10 Phone settings >> MCAST

This feature allows user to make some kind of broadcast call to people who are in multicast group. User can configure a multicast DSS Key on the phone, which allows user to send a Real Time Transport Protocol (RTP) stream to the pre-configured multicast address without involving SIP signaling. You can also configure the phone to receive an RTP stream from pre-configured multicast listening address without involving SIP signaling. You can specify up to 10 multicast listening addresses.

Table 28 - Multicast parameters

Parameters	Description
Normal Call Priority	Define the priority of the active call, 1 is the highest priority, 10 is the lowest.
Enable Page Priority	The voice call in progress shall take precedence over all incoming paging calls.
Name	Listened multicast server name

Host: port	Listened multicast server's multicast IP address and port.

12.11 Phone settings >> Action

Action URL

Note! Action urls are used for IPPBX systems to submit phone events. Please refer to Action URL for details.

12.12 Phone settings >> Time/Date

The user can configure the time Settings of the phone on this page.

Table 29 – Time & Date settings

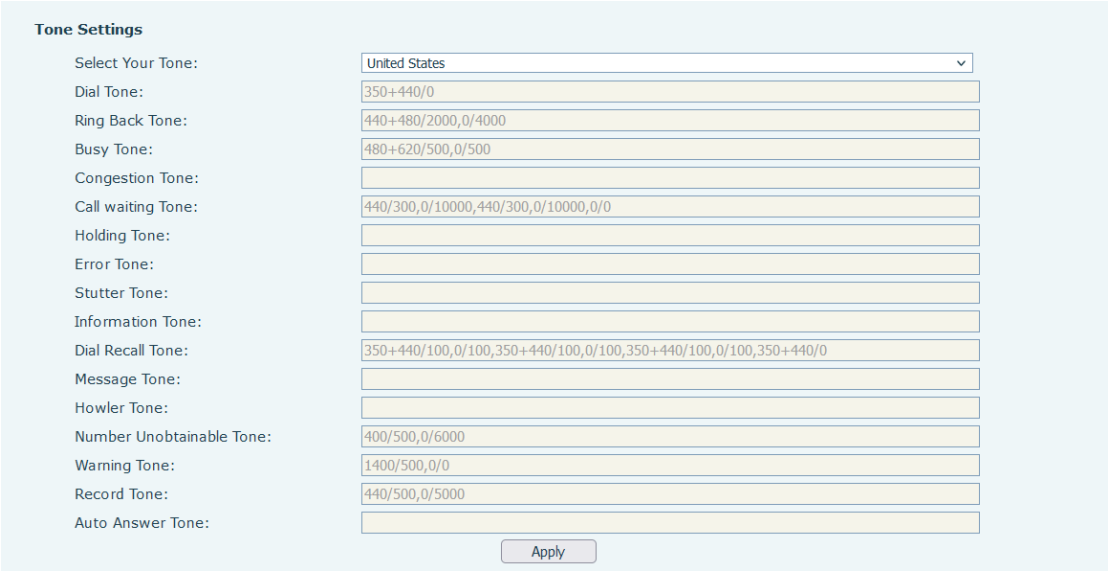
Parameters	Description
Network Time Server Settings	
Time Synchronized via SNTP	Enable time-sync through SNTP protocol
Time Synchronized via DHCP	Enable time-sync through DHCP protocol
Primary Time Server	Set primary time server address
Secondary Time Server	Set secondary time server address, when primary server is not reachable, the device will try to connect to secondary time server to get time synchronization.
Time Zone	Select the time zone
Resync Period	Time of re-synchronization with time server
12-Hour Clock	Set the time display in 12-hour mode
Date Format	Select the time/date display format
Daylight Saving Time Settings	
Local	Choose your local, phone will set daylight saving time automatically based on the local
DST Set Type	Choose DST Set Type, if Manual, you need to set the start time and end time.
Fixed Type	Daylight saving time rules are based on specific dates or relative rule dates for conversion. Display in read-only mode in automatic mode.
Offset	The offset minutes when DST started

Month Start	The DST start month
Week Start	The DST start week
Weekday Start	The DST start weekday
Hour Start	The DST start hour
Minute Start	The DST start minute
Month End	The DST end month
Week End	The DST end week
Weekday End	The DST end weekday
Hour End	The DST end hour
Minute End	The DST end minute
Manual Time Settings	You can set your time manually

12.13 Phone settings >> Tone

This page allows users to configure a phone prompt.

You can either select the country area or customize the area. If the area is selected, it will bring out the following information directly. If you choose to customize the area, you can modify the button tone, call back tone and other information.



Picture 119 - Tone settings on the web

12.14 Phone settings >> Advanced

User can configure the advanced configuration settings in this page.

- Screen Configuration.

- Enable Energy Saving
- Backlight Time
- Screen Saver

- LCD Menu Password Settings.

The password is admin by default.

- Keyboard Lock Settings.
- Configure Greeting Words

When the phone is in standby mode, the welcome message will be displayed in the upper left corner of the screen. You can enter up to 12 characters. The default is "VoIP Phone".

Note: The welcome message can only be displayed in the upper left corner of standby mode when the default line selection function is disabled (the default line can be turned off in the [Menu]>[Function]>[General] interface).

12.15 Phonebook >> Contact

User can add, delete, or edit contacts in the phonebook in this page. User can browse the phonebook and sorting it by name, phones, or filter them out by group.

To add a new contact, user should enter contact's information and press "Add" button to add it.

To edit a contact, click on the checkbox in front of the contact, the contact information will be copied to the contact edit boxes, press "Modify" button after finished editing.

To delete one or multiple contacts, check on the checkbox in front of the contacts wished to be deleted and click the "Delete" button, or click the "Clear" button with selecting any contacts to clear the phonebook.

User can also add multiple contacts into a group by selecting the group in the dropdown options in front of "Add to Group" button at the bottom of the contact list, selecting contacts with checkbox and click "Add to Group" to add selected contacts into the group.

Similarly, user can select multiple users and add them into blacklist by click "Add to Blacklist" button.

12.16 Phonebook >> Cloud phonebook

Cloud Phonebook

User can configure up to 8 cloud phonebooks. Each cloud phonebook must be configured with an URL where an XML phonebook is stored. The URL may be based on HTTP/HTTPs or FTP protocol with or without authentication. If authentication is required, user must configure the username and password.

To configure a cloud phonebook, the following information should be entered,

Phonebook name (must)

Phonebook URL (must)

Access username (optional)

Access password (optional)

LDAP Settings

The cloud phonebook allows user to retrieve contact list from a LDAP Server through LDAP protocols.

User must configure the LDAP Server information and Search Base to be able to use it on the device. If the LDAP server requests an authentication, user should also provide username and password.

To configure a LDAP phonebook, the following information should be entered,

Display Title (must)

LDAP Server Address (must)

LDAP Server Port (must)

Search Base (must)

Access username (optional)

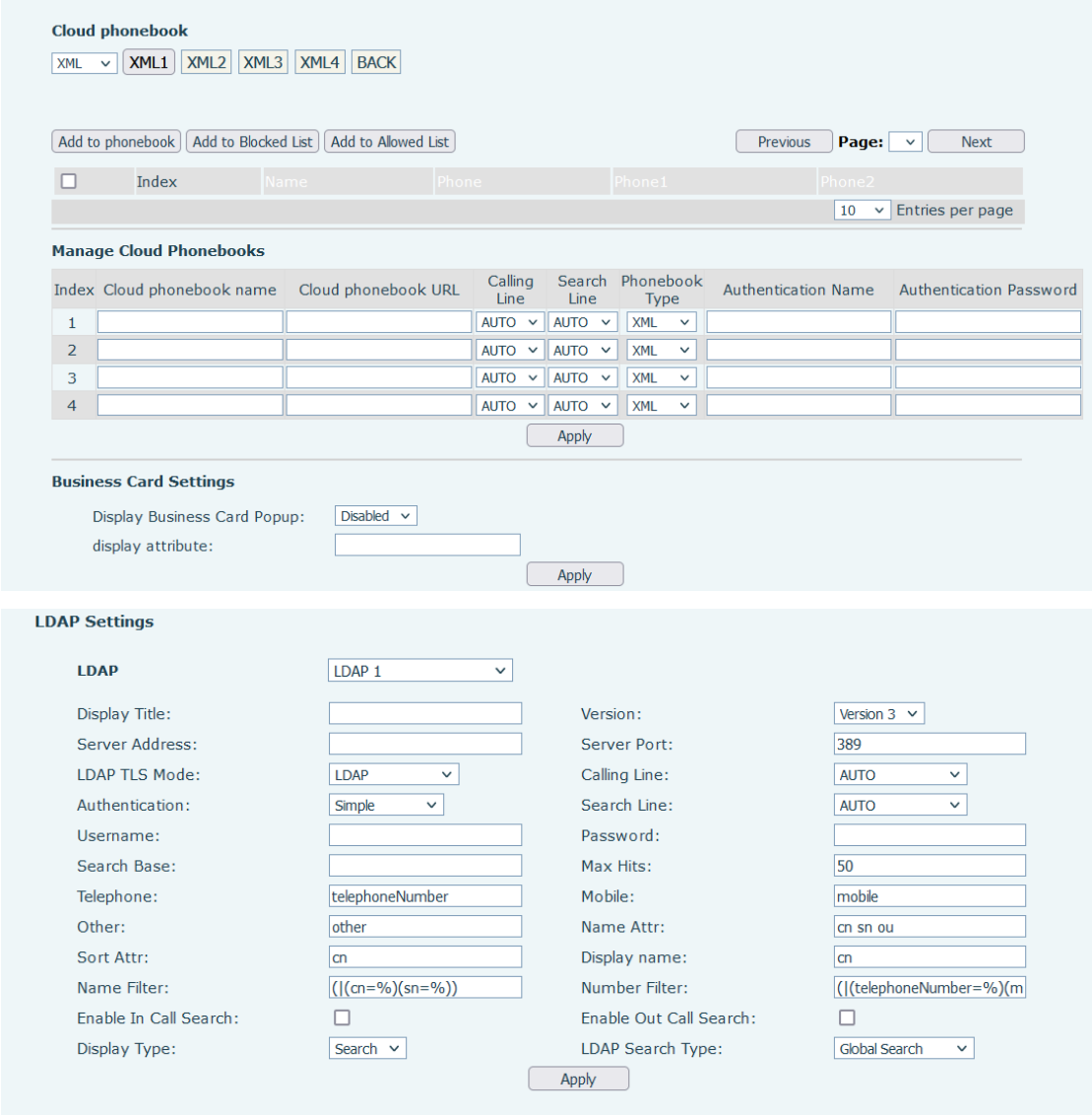
Access password (optional)

Note! Refer to the LDAP technical documentation before creating the LDAP phonebook and phonebook server.

Web page preview

Phone page supports preview of Internet phone directory and contacts

- After setting up the XML Voip directory or LDAP,
- Select [**Phone book**] >> [**Cloud phone book**] >> [**Cloud phone book**] to select the type.
- Click the set XML/LDAP to download the contact for browsing.



Picture 120 - Web cloud phone book Settings

12.17 Phonebook >> Call List

■ Restricted Incoming Calls：

It is similar like a blacklist. Add the number to the blacklist, and the user will no longer receive calls from the stored number until the user removes it from the list.

Users can add specific Numbers to the blacklist or add specific prefixes to the blacklist to block calls with all Numbers with this prefix.

■ Allowed Incoming Calls：

When DND is enabled, the incoming call number can still be called.

■ Restricted Outgoing Calls：

Adds a number that restricts outgoing calls and cannot be called until the number is removed from the table.

12.18 Phonebook >> Web Dial

Use web pages for call, reply, and hang up operations.

12.19 Phonebook >> Advanced

Users can export the local phone book in XML, CSV, and VCF format and save it on the local computer.

Users can also import contacts into the phone book in XML, CSV, and VCF formats.

Attention! If the user imports the same phone book repeatedly, the same contact will be ignored. If the name is the same but the number is different, the contact is created again.

Users can delete groups or add new groups on this page. Deleting a contact group will not delete contacts in that group.

12.20 Call Logs

The user can browse the complete call record in this page. The call record can be sorted by time, call number, contact name or line, and the call record can be screened by call record type (incoming call, outgoing call, missed call, forward call).

The user can also save the number in the call record to his/her phone book or add it to the blacklist/whitelist.

Users can also dial the web page by clicking on the number in the call log.

Users can also download call records conditionally and save them locally.

12.21 Function Key >> Function Key

- Function Key Configuration：

One-key transfer Settings: establish new call, blind transfer, attention-transfer, one-key three-party, Play DTMF.

DSS Key home page: None/Page1/Page2/Page3/Page4

The device provides 112 user-defined shortcuts that users can configure on a web page.

Table 30 - Function Key configuration

Parameters	Description
Memory Key	**BLF (NEW CALL/BXFE /AXFER)**: It is used to prompt user the state of the subscribe extension, and it can also pick up the subscribed number, which help user monitor the state of subscribe extension (idle, ringing, a call). There are 3 types for one-touch BLF transfer method. p.s. User should enter the pick-up number for specific BLF key to fulfill the pick-up operation. **Presence**: Compared to BLF, the Presence is also able to view whether the user is online. Note: You cannot subscribe the same number for BLF and Presence at the same time **Speed Dial**: You can call the number directly which you set. This feature is convenient for you to dial the number which you frequently dialed. **Intercom**: This feature allows the operator or the secretary to connect the phone quickly; it is widely used in office environments.
Line	It can be configured as a Line Key. User is able to make a call by pressing Line Key.
Key Event	User can select a key event as a shortcut to trigger. For example: MWI / DND / Release / Headset / Hold / etc.
DTMF	It allows user to dial or edit dial number easily.
URL	Open the specific URL directly.
Multicast	Configure the multicast address and audio codec. User presses the key to initiate the multicast.
Action URL	The user can use a specific URL to make basic calls to the phone.
XML browser	Users can set the DSS Key for specific URL download and other operations.

12.22 Function Key >> Softkey

The User Settings mode and display style, display page.

Table 31 - Softkey configuration

Parameter	Description
Softkey Mode	
Softkey mode	Disabled and More，Default is Disabled
Softkey Style	
Softkey display style	Softkey Exit on Left or Right
Screen	
Call Dialer	Redial/2aB/Delete/Exit/Call Back/Dial/Join/MWI/Local Contacts/Pickup/CallLog/Missed/Clear/ln/Dialed/Pause/Next line/Prev line/Headset/Audio/Video/Remote XML/DSS Key
Conference	Hold/Split/End/Release/Mute/DSS Key/Headset
Desktop	CallLog/Menu/Local Contacts/DND/Prev Account/Next Account/Blacklist/Call Back/CallForward/Locked/Memo/ Missed/MWI/Dialed/Reboot/Redial/Remote XML/SMS/ Headset/Status/DSS Key/ln
Divert Dialed	Redial/2aB/Delete/Exit/Forward/Local Contacts/CallLog /Clear/Missed/Dialed/Headset/Video/Audio/Remote XML /DSS Key
Ending	Redial/End/Headset/Release/DSS Key
Predictive Dialer	Dial/2aB/Delete/Exit/Call Back/Local Contacts/Redial /Pickup/MWI/Join/CallLog/Release/Missed/Pause/Dialed/ Headset/Video/Audio/Remote XML/DSS Key/ln/Next line /Prev line
Ringing	Answer/Forward/Reject/Mute/Release/Headset/Video/Audio/ DSS key
Talking	Hold/Transfer/Conference/End/Mute/Release/New Call/ Local Contacts/Listen/CallLog/Next call/Prev call/ Private/Headset/Video/Audio/DSS Key
Transfer Alerting	End/Transfer/Headset/Release/DSS Key
Transfer Dialer	Redial/Delete/Exit/2aB/Dial/Local Contacts/Transfer/ CallLog/Clear/Missed/Dialed/Pause/Headset/Video/Audio/R

	emote XML/DSS Key
Trying	End/Release/Headset/DSS Key
Waiting	Hold/Transfer/Conference/End/Answer/Forward/Mute/Next call/New call/Prev call/Reject/Release/Headset/Listen/ Video/Audio/DSS Key

12.23 Function Key >> Advanced

- **Global key Settings**

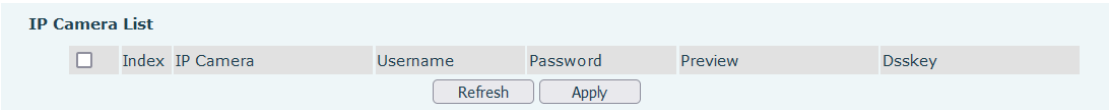
The default configuration is empty, and the global memory key function can be configured.

The configured memory key has a call path. If the global configuration is maintained, pressing the memory key again will maintain the call path. If the same configuration hung up, press the memory key again will hang up this road call.

- **Programmable key Settings**

Please refer to the Table 31 Softkey configuration

- **IP Camera List**



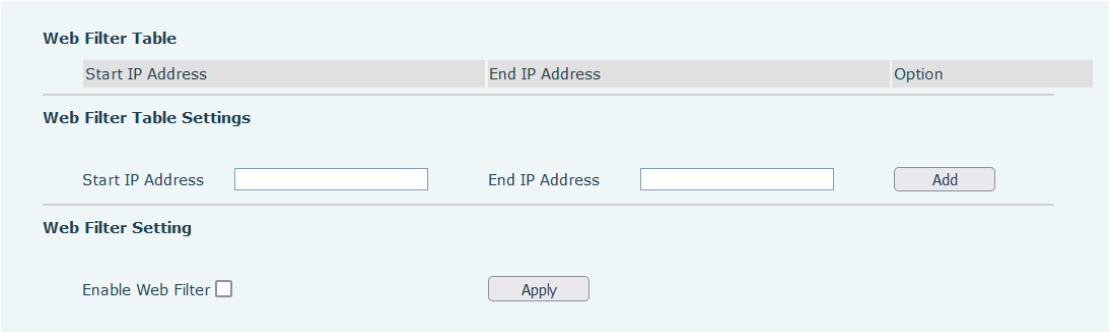
Picture 121 - IP Camera List

12.24 Application >> Manage Recording

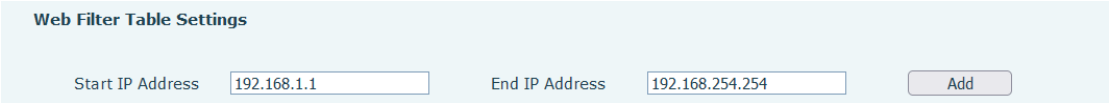
See 9.3 Record for details of recording.

12.25 Security >> Web Filter

The user can set up a configuration management phone that allows only machines with a certain network segment IP access.



Picture 122 - Web Filter settings



Picture 123 - Web Filter Table

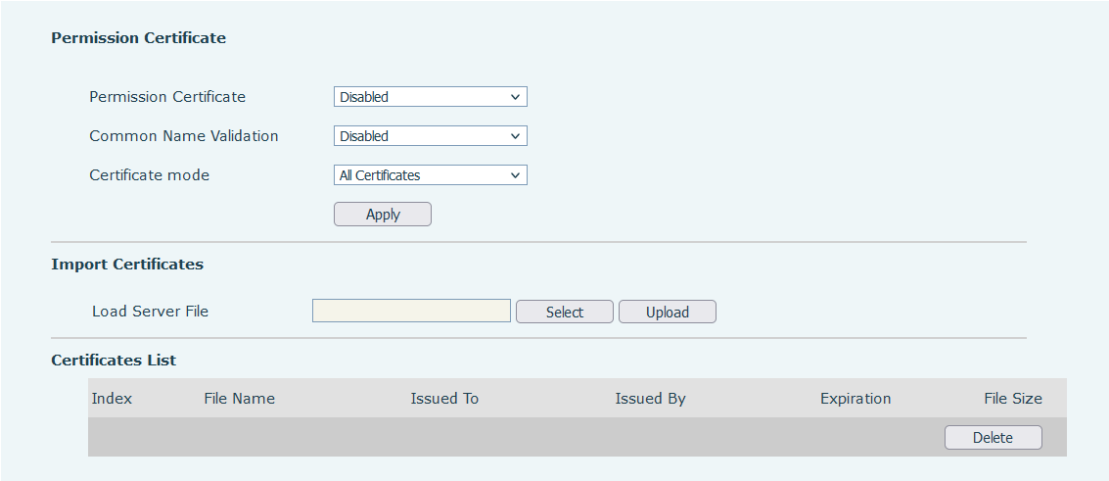
Add and remove IP segments that are accessible; Configure the starting IP address within the start IP, end the IP address within the end IP, and click [**Add**] to submit to take effect. A large network segment can be set, or it can be divided into several network segments to add. When deleting, select the initial IP of the network segment to be deleted from the drop-down menu, and then click [**Delete**] to take effect.

Enable web page filtering: configure enable/disable web page access filtering; Click the "apply" button to take effect.

Note: if the device you are accessing is in the same network segment as the phone, please do not configure the filter segment of the web page to be outside your own network segment, otherwise you will not be able to log in the web page.

12.26 Security >> Trust Certificates

Set whether to open license certificate and general name validation, select certificate module.
You can upload and delete uploaded certificates.

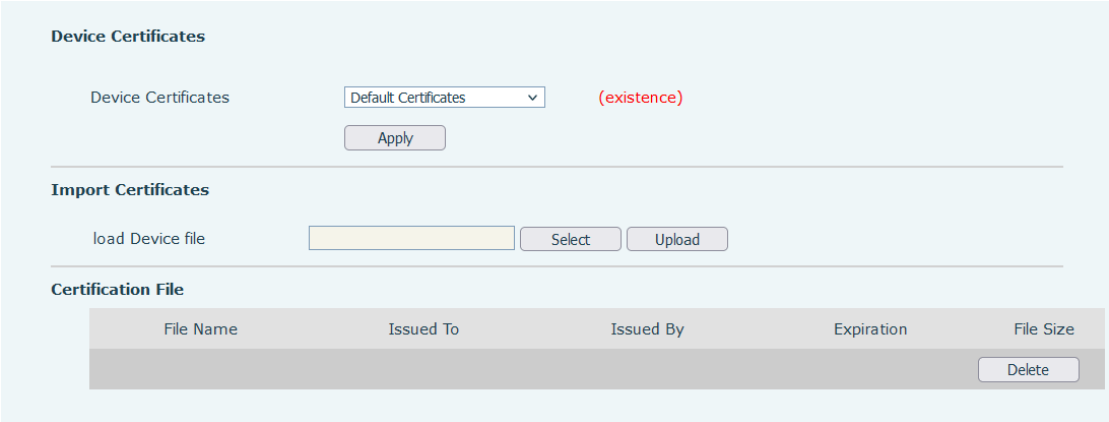


Picture 124 - Certificate of settings

12.27 Security >> Device Certificates

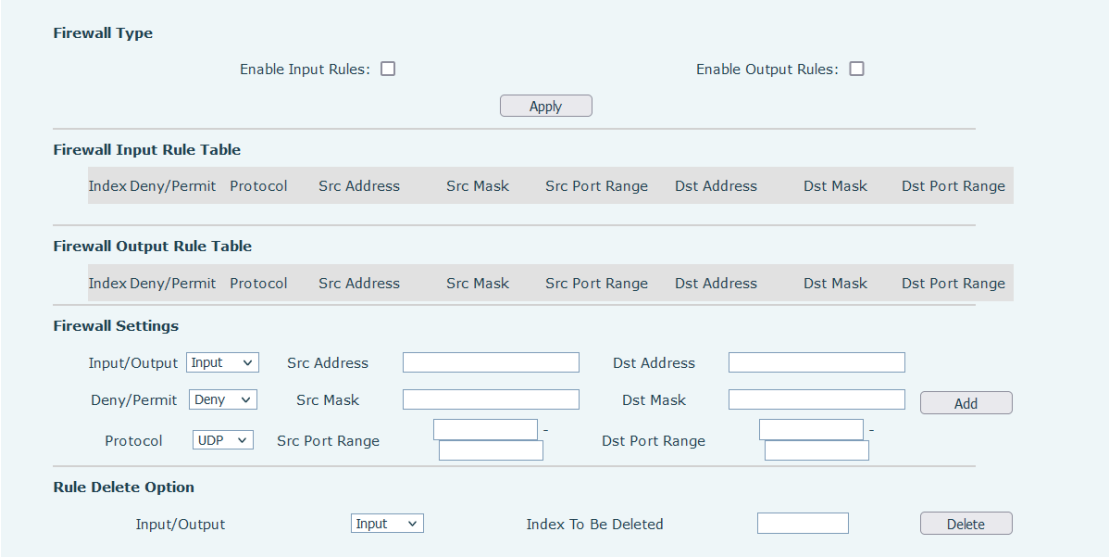
Select the device certificate as the default and custom certificate.

You can upload and delete uploaded certificates.



Picture 125 - Device certificate setting

12.28 Security >> Firewall



Picture 126 - Network firewall Settings

Through this page can set whether to enable the input, output firewall, at the same time can set the firewall input and output rules, using these Settings can prevent some malicious network access, or restrict internal users access to some resources of the external network, improve security.

Firewall rule set is a simple firewall module. This feature supports two types of rules: input rules and output rules. Each rule is assigned an ordinal number, allowing up to 10 for each rule.

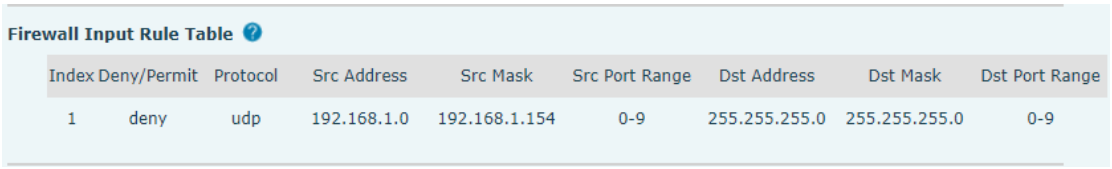
Considering the complexity of firewall Settings, the following is an example to illustrate:

Table 32 - Network Firewall

Parameter	**Description**
Enable Input Rules	Indicates that the input rule application is enabled.
Enable Output Rules	Indicates that the output rule application is enabled.
Input/Output	To select whether the currently added rule is an input or output rule.
Deny/Permit	To select whether the current rule configuration is disabled or allowed;
Protocol	There are four types of filtering protocols: TCP | UDP | ICMP | IP.
Src Port Range	Filter port range
Src Address	Source address can be host address, network address, or all addresses 0.0.0.0; It can also be a network address similar to *.*.*.0, such as: 192.168.1.0.
Dst Address	The destination address can be either the specific IP

	address or the full address 0.0.0.0; It can also be a network address similar to *.*.*.0, such as: 192.168.1.0.
Src Mask	Is the source address mask. When configured as 255.255.255.255, it means that the host is specific. When set as 255.255.255.0, it means that a network segment is filtered.
Dst Mask	Is the destination address mask. When configured as 255.255.255.255, it means the specific host. When set as 255.255.255.0, it means that a network segment is filtered.

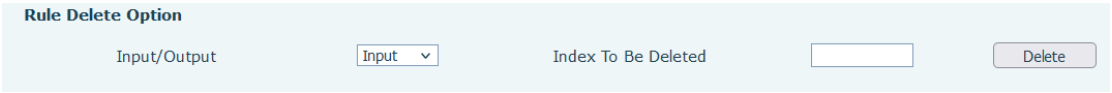
After setting, click [**Add**] and a new item will be added in the firewall input rule, as shown in the figure below:



Picture 127 - Firewall Input rule table

Then select and click the button [**Apply**].

In this way, when the device is running: ping 192.168.1.118, the packet cannot be sent to 192.168.1.118 because the output rule is forbidden. However, other IP of the ping 192.168.1.0 network segment can still receive the response packet from the destination host normally.



Picture 128 - Delete firewall rules

Select the list you want to delete and click [**Delete**] to delete the selected list.

12.29 Device Log >> Device Log

You can grab the device log, and when you encounter an abnormal problem, you can send the log to the technician to locate the problem. See 13.6 Get log information.

13 Trouble Shooting

When the phone is not in normal use, the user can try the following methods to restore normal operation of the phone or collect relevant information and send a problem report to technical support mailbox.

13.1 Get Device System Information

Users can get information by pressing the [**Menu**] >> [**Status**] option in the phone.The following information will be provided:
The network information
Equipment information (model, software and hardware version), etc.

13.2 Reboot Device

Users can reboot the device from soft-menu, [**Menu**] >> [**Phone settings**] >> [**System**], and press [**Reboot**], Or, simply remove the power supply and restore it again.

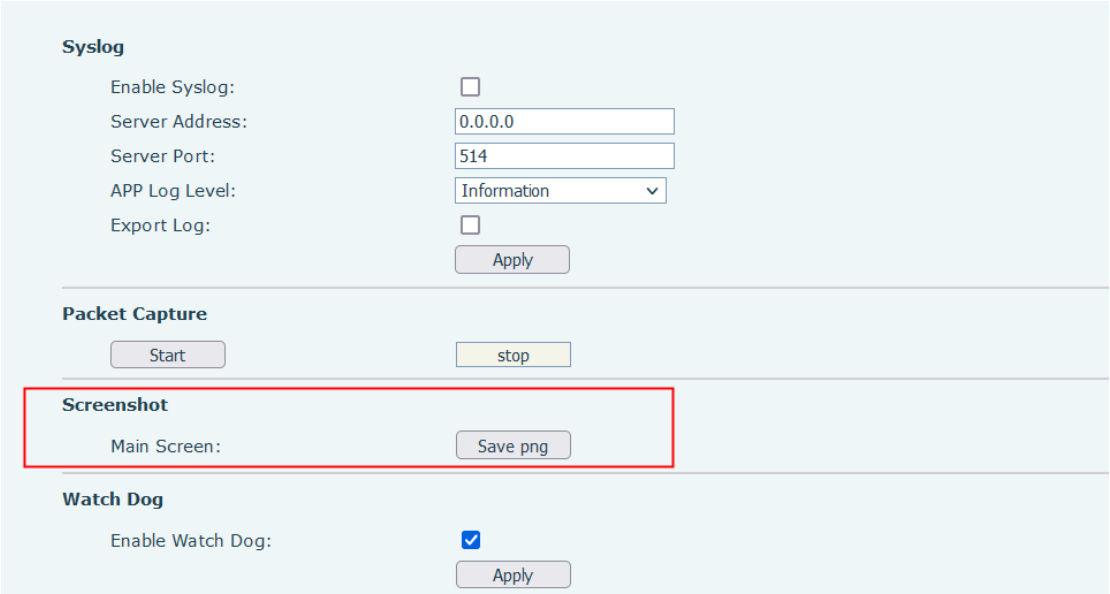
13.3 Reset Device to Factory Default

Reset Device to Factory Default will erase all user's configuration, preference, database and profiles on the device and restore the device back to the state as factory default.

To perform a factory default reset, user should press [**Menu**] >> [**phone setting**]>> [**maintain**] , and then input the password to enter the interface. Then choose [**Phone Reset**] and press [**Reset**]. The device will be rebooted into a clean factory default state.

13.4 Screenshot

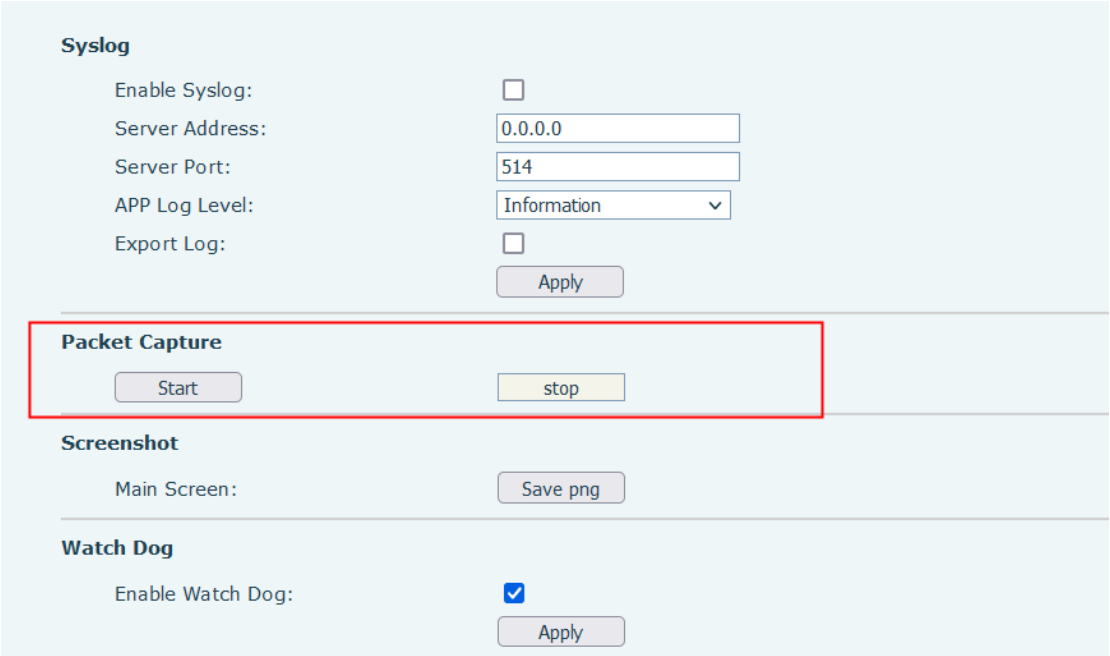
If there is a problem with the phone, the screenshot can help the technician locate the function and identify the problem. In order to obtain screen shots, log in the phone webpage [**System**] >> [**Tools**], and you can capture the pictures of the main screen (you can capture them in the interface with problems).



Picture 129 - Screenshot

13.5 Network Packets Capture

Sometimes it is helpful to dump the network packets of the device for issue identification. To get the packets dump of the device, user needs to log in the device web portal, open page [**System**] >> [**Tools**] and click [**Start**] in “Network Packets Capture” section. A pop-up message will be prompt to ask user to save the capture file. User then should perform relevant operations such as activate/deactivate line or making phone calls and click [**Stop**] button in the web page when operation finished. The network packets of the device during the period have been dumped to the saved file.

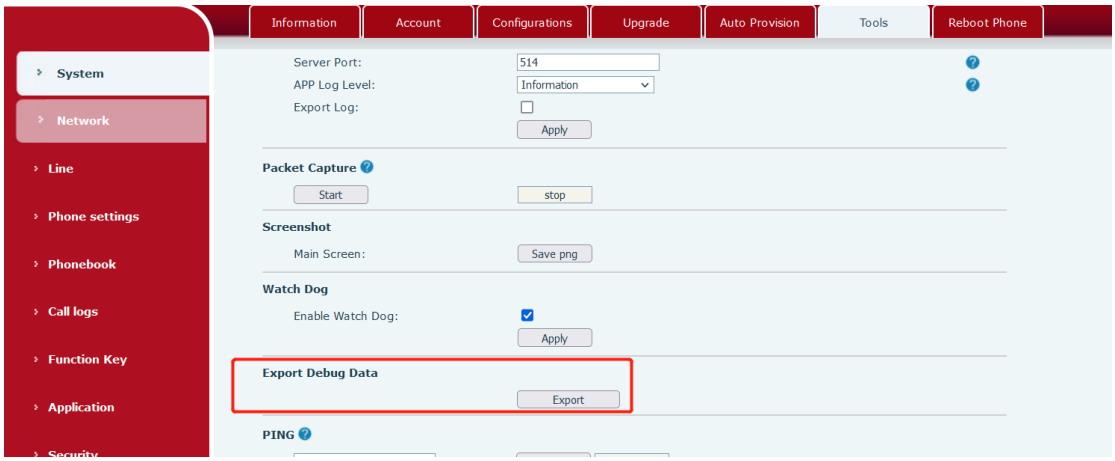


Picture 130 - Web capture

User may examine the packets with a packet analyzer or send it to support mailbox.

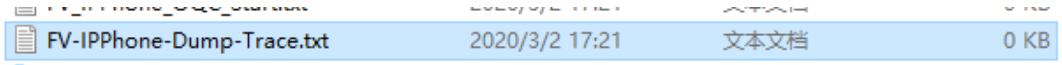
13.6 Get Log Information

Log information is helpful when encountering an exception problem. In order to get the log information of the phone, the user can log in the phone web page, open the page [**System**] -[**Tools**] - [**one-click Export Debug Info**], [**Export**] to local analysis or send the log to the technician to locate the problem.

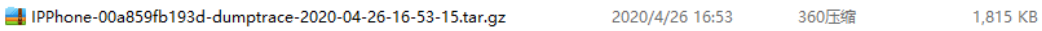


Picture 131 - one-click Export

Or use a thumb drive to export debugging log, find a thumb drive to place a text document named fv-ipphone-dump-trace.txt,



Plug in the USB port and wait for about 3 minutes.The usb flash drive automatically generates log files.



13.7 Common Trouble Cases

Table 33 - Trouble Cases

Trouble Case	Solution
Device could not boot up	1. The device is powered by external power supply via power adapter or PoE switch. Please use standard power adapter provided by PoE switch met with the specification requirements and check if device is well connected to power source. 2. If you saw “POST MODE” on the device screen, the device system image has been damaged. Please contact location technical support to help you restore the phone system.
Device could not register to a service provider	1. Please check if device is well connected to the network. The network Ethernet cable should be connected to the [Network] port NOT the [PC] port. If the cable is not well connected to the network icon [WAN disconnected] will be flashing in the middle of the screen. 2. Please check if the device has an IP address. Check the system information, if the IP displays “Negotiating…”, the device does not have an IP address. Please check if the network configurations is correct. 3. If network connection is fine, please check again your line configurations. If all configurations are correct, please kindly contact your service provider to get support, or follow the instructions in “13.5 Network Packet Capture” to get the network packet capture of registration process and send it to support to analyze the issue.
No Audio or Poor Audio in Handset	1. Please check if Handset is connected to the correct Handset ( ) port NOT Headphone ( ) port. 2. The network bandwidth and delay may be not suitable for audio call at the moment.
Poor Audio or Low Volume in	1. There are two Headphone wire sequence in the market.

Headphone	
Audio is chopping at far-end in Hands-free speaker mode	This is usually due to loud volume feedback from speaker to microphone. Please lower down the speaker volume a little bit, the chopping will be gone.