



SIP-H680(W/L)

User Manual



Catalog

Copyright.....	4
Guarantee.....	4
Statement.....	4
CE mark.....	5
Part 15 of FCC Regulations.....	5
WEEE Mark.....	5
Customer Feedback.....	5
Writing purpose.....	6
1.Outline.....	7
1.1 Hardware composition.....	7
1.2 Display icon description.....	9
1.3 Configuration interface description.....	11
1.3.1 Phone LCD Configuration.....	11
1.3.2 Web interface configuration.....	11
1.3.3 Mobile phone scan code configuration.....	12
1.4 Usage Documentation.....	14
2. Notes for safe use.....	16
3. Getting started with the phone.....	18
3.1 Packing list.....	18
3.2 Phone Installtion.....	18
3.3 Phone initialization.....	19
3.4 Phone standby interface.....	19
3.5 Check phone status.....	20
3.6 Set up phone network.....	21
3.7 Register an account.....	25
3.8 Phone input method and input method.....	25
4. Phone customization.....	28
4.1 Basic setting.....	28
4.1.1 Language.....	28
4.1.2 Time&Date.....	30
4.1.3 Call out button.....	34
4.1.4 Keypad lock.....	35
4.2 Voice setting.....	38
4.2.1 Volume setting.....	38
4.2.2 Ringtone settings.....	39
4.2.3 Button sound.....	40
4.2.4 Signal tone.....	41
4.3 Contact management.....	43
4.3.1 Local contacts.....	43
4.3.2 Blacklist.....	53
4.3.3 LDAP configuration.....	57
4.4 CDR (call history) management.....	61
4.5 Accessories customization.....	64

4.5.1 Headset.....	64
4.6 System customization.....	65
4.6.1 Account management.....	65
4.7 Dial Plan.....	66
4.7.1 Dial plan syntax.....	66
4.7.2 Dial plan Function.....	67
5. Basic functions.....	76
5.1 Make a call.....	76
5.2 Answer a call.....	78
5.3 End a call.....	79
5.4 Redial.....	79
5.5 DND.....	79
5.6 Call Forward.....	82
5.6.1 Active transfer.....	82
5.6.2 Auto transfer.....	83
5.7 Call transfer.....	87
5.7.1 Blind transfer.....	88
5.7.2 Inquiry transfer.....	90
5.8 Call waiting.....	92
5.9 Auto redial.....	93
5.10 Auto Answer.....	94
5.11 Anonymous Call.....	96
5.12 Hotline.....	96
5.13 QR Code.....	97
5.14 Conference.....	98
5.15 Upgrade.....	100
6. Advanced function.....	102
6.1 Multicast.....	102
6.1.1 Multicast list configuration.....	102
6.1.2 Accept multicast RTP stream.....	105
6.1.3 Multicast use.....	107
6.2 Message.....	107
6.2.1 SMS.....	107
6.3 Configuration management.....	111
6.4 Auto Provision.....	112
6.4.1 Preparing steps.....	112
6.4.2 Automatic update operation steps.....	114
6.5 SIP configuration.....	117
6.5.1 SIP Session Timer.....	117
6.5.2 Local SIP port and TLS SIP port.....	118
6.6 Action URL.....	119
6.6.1 The action that can realize reporting to the server.....	119
6.6.2 Variable description.....	123
6.6.3 Web page configuration description.....	124

6.7 Trusted Certificates..... 124



Copyright

Copyright © 2020 LVswitch (Guangdong) Information Technology Co., Ltd.

Copyright, all rights reserved.

Without the express written permission of LVswitch (Guangdong) Information Technology Co., Ltd., no unit or individual may copy, copy or translate part or all of this manual without authorization.

It shall not be used in any form or any method (electronic, video, printing or other methods) for commercial purposes, profit purposes, and LVswitch (Guangdong) Information Technology Co., Ltd. will not bear any responsibility for any property or other losses caused by illegal actions.

When this document is used for network dissemination, the company allows users to download or print it for private use.

Guarantee

The product specifications and consultations mentioned in this manual are for reference only, and will not be notified if the content is updated. Unless there is a special agreement, this manual is only used as a guide, try to provide the most accurate statements, information and suggestions, and does not guarantee any express or implied structure. The user shall bear full responsibility for the application of the product.

LVswitch (Guangdong) Information Technology Co., Ltd. does not make any guarantees for this guide, including but not limited to implied merchantability and special purpose guarantees. LVswitch (Guangdong) Information Technology Co., Ltd. shall not be liable for any indirect or incidental losses caused by incorrect use of this guide.



This equipment complies with the basic requirements of CE, FCC and other relevant regulations. You can view the CE and FCC information

Statement

CE mark

This device complies with the European Union's safety directive 2014/35/EU and electromagnetic compatibility directive 2014/30/EU.

Part 15 of FCC Regulations

The device complies with Part 15 of the FCC regulations. The following two requirements should be followed when working.

1. The device will not cause harmful interference.
2. This device must accept any interference received, including interference that may cause unintended operation.

Since electronic products contain certain hazardous substances, in order to properly dispose of these electronic and electrical wastes and at the same time recover precious resources, when users intend to discard this product, it should



WEEE Mark



Customer Feedback

We are working hard to improve the quality of the documentation and would love to receive your feedback. If you have any suggestions or questions about the content of the document, please send your feedback to the following mailbox: service@lvswitches.com.

Writing purpose

Thank you for using SIP-H680W/SIP-H680L IP phone. H680 is a simple office handheld phone with rich functions. In addition, it also has high-definition sound quality, unique appearance design, multi-language interchange; supports WIFI module/4G LTE module; compatible with service platforms of many manufacturers, such as IPPBX, Cloud PBX, IMS core network, softswitch, etc. and friendly user interface fully meet the communication and collaboration needs of users. SIP-H680W/SIP-H680L use the same firmware, the software functions are the same, and the difference lies in the hardware. The following table describes the differences between these hardware.

Product model	Description
SIP-H680W	Carry WiFi module version
SIP-H680L	4G LTE version

This guide contains all the functions of the phone and instructions for use, so that users can be familiar with the functions of the T790 IP phone. Before installing the phone, please read the safety instructions and the contents of the packing list in this guide to use the phone safely and quickly.

For more help, please contact your network administrator or dealer.

Contents of the manual

This guide contains the following:

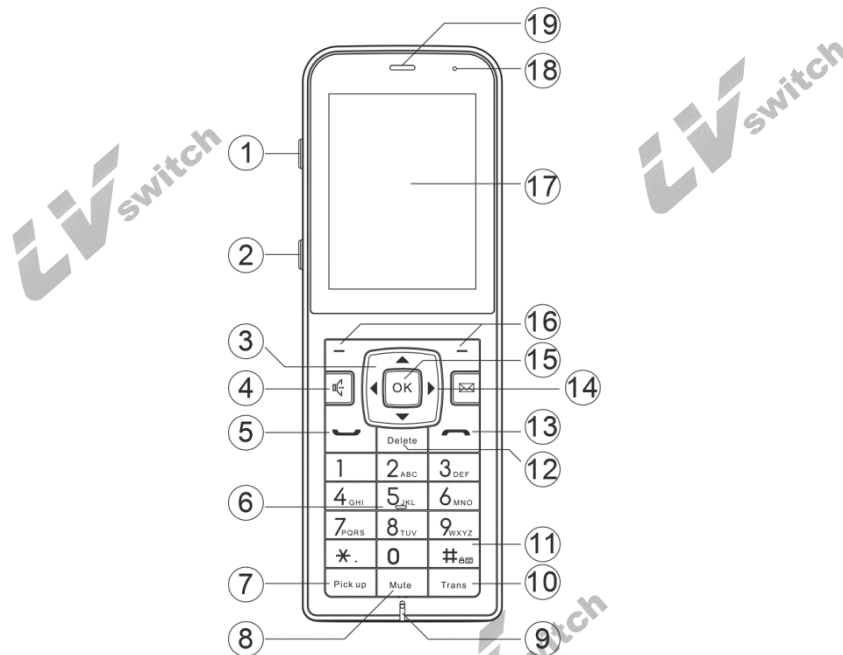
- [1.Outline](#)
- [2.Notes for safe use](#)
- [3.Getting started with the Phone](#)
- [4.Phone customization](#)
- [5.Basic Function](#)
- [6.Advanced Features](#)

1.Outline



This chapter mainly provides a brief overview of the T790 IP phone. The main contents are as follows:

- [1.1 Hardware composition](#)
- [1.2 Display icon description](#)
- [1.3 Configuration interface description](#)
- [1.4 Use documentation](#)

1.1 Hardware composition









Item	Name	Description
1	Volume up key	Increase volume.
2	Volume down key	Volume declined when in standby mode or ringing interface,during a call.
3	Up, down, left and right buttons	Options for switching the display.
4	Hands-free key	Press for hands-free mode.

5	Off-hook key/dial	Used for calling and entering into the dialing interface.
6	Numeric keypad	Provide number input, uppercase and lowercase letter input, punctuation input(* # . :)
7	Pick up key	Used for call pickup function.
8	Mute key	Press the mute button during a call to mute the call.
9	Microphone	Audio input when using the handle to make a call
10	Call transfer/transfer button (Transfer)	<ul style="list-style-type: none"> - Blind transfer - Inquiry transfer - Quickly switch call forwarding when the phone is idle It can also be achieved through the soft keys at the bottom of the screen.
11	 /Lock key	# key or used for keypad lock.
12	Delete key	Delete input.
13	On hook /Power key	Hang up a call;Power key.
14	Voicemail key	Configure the information feature code, which is provided by each IPPBX. After configuration, press the number to quickly query the phone information.
15	 button	<ul style="list-style-type: none"> -Function setting confirmation operation. -Dial the number after entering the number. -Answer when there is an incoming call. -View network status (IP address, MAC address, version information, etc.).

16	Two Soft keys	<p>Corresponding to the two function names at the bottom of the display</p> <p>(For example, 2 soft key functions are displayed on the main interface:History ,Menu).</p> <p>These two soft keys will change with the operation of the phone keys. In the function description below, the soft keys refer to these two keys, and the soft key functions correspond to the text at the bottom of the display screen.</p>
17	LCD screen	<p>Display the information of the phone:</p> <ul style="list-style-type: none"> -Register account information(Display name,display number) - Time and date,battery level,wifi signal or LTE signal. - Reminder icon(For details, please refer to the display icon description) - Messages(Incoming call, missed call, email message) - Operation prompt
18	LED indicator	Charging indicator.
19	Earphone	Audio output when using the handset.

1.2 Display icon description

H680 display screen mainly used icons and their corresponding descriptions are as follows:

Type	ICON	Description
Account		Account is not activated/not registered
		Registering
		Registered
Voice status		DND
		Auto answer
		Missed calls

		Voice mail
		Test Message
		The mute mode
		Speaker phone mode
		Handset mode
		Headset mode
		Call forwarding enabled
Call list icon		Missed call
		Received call
		Dialed call
System icon		Wifi connected
		Wifi no signal
		Keyboard locked
		LTE no signal
		LTE signal full level

1.3 Configuration interface description

The H680 phone supports the following ways to configure the phone:

- [Phone LCD configuration](#)
- [Web interface configuration](#)
- [QR code configuration](#)

Quickly configure the phone, through the phone LCD screen and the phone keyboard panel, you can configure and use the phone functions. After checking the IP address of the phone, you can also enter the IP address of the phone in the browser to view all the functions of the phone, and configure it through the browser. If there is no computer around, you can use your smartphone to scan the QR code provided by the phone for configuration. The details are as follows:

1.3.1 Phone LCD Configuration


Enter the menu through the menu soft keys, you can configure basic settings (language, ringtones, etc.), and configure advanced settings (account, network, etc.), enter the advanced settings need to enter the administrator password, the initial administrator password of H680 is admin. At the same time, there are some basic functions in the menu. Please refer to the function configuration chapter for specific function settings.

Note The H680L series connect to the network through a 4G data card. Generally, PCs, smart phones and other devices cannot be connected to the same local area network. Therefore, H680L cannot be configured through computer web pages or mobile phone scan codes. This description mainly focuses on H680W. If you want to configure the H680L web client, please contact your network administrator or dealer to check it.

1.3.2 Web interface configuration

- To view the IP address (IPv4 or IPv6) of the phone:

It can be viewed in any of the following ways:

1. Press the  button.
2. Press the menu soft key -> enter the status option.

Note IPv4 address:192.168.1.123
IPv6 address:2003:4998:c:e33::1004

After obtaining the IP address of the phone, enter the IP address in the computer web browser, for example: IPv4 address input (192.168.1.123 or http://192.168.1.123), IPv6 address input ([2003:4998:c:e33::1004] Or http://[2003:4998:c:e33::1004]), Enter the phone login page and use the login account password to enter the main interface. The initial administrator account and password are admin. For specific function setting introduction, please see the [function configuration](#) chapter.

1.3.3 Mobile phone scan code configuration

Get the phone's QR code through the phone's QR code function. Before scanning, the smart phone needs to be connected to the WIFI of the same network as the phone before you can use the smart phone to scan the QR code to access the phone's management page. For detailed feature settings, please refer to the [function configuration](#) chapter .

For more help, please contact your network administrator.

The configurable functions of the three configuration ways are compared as follows:

Phone configuration	Phone configuration	Web code configuration	QR code configuration
Status			
├ IPv4	√	√	√
├ IPv6			
├ MAC address			
├ Version			
└ Account status			
Account			
├ User information	√	√	√
├ Display name	√		

└ User name	✓		
└ Register name	✓		
└ Password	✓		
└ Server information			
└ Sip server 1	✓		
└ Sip server 2	✓		
└ Sip port number	✓		
└ Re-registration time	✓		
└ Proxy server	✓		
└ NAT	✓		
└ Codec setting	×		
└ DTMF setting	×		
Network setting			
└ IPv4/IPv6/IPv4&IPv6	✓		
└ DHCP setting	✓		
└ Static IP setting	✓		
└ Advanced network setting			✓
└ CDP	✓		
└ SNMP	✓		
└ STUN	×		
Features			
└ Call forward	✓		
└ Call transfer	✓		
└ Auto Answer	✓		
└ Anonymous Rejection	✓	✓	✓
└ Anonymous Call	✓		
└ Hotline	✓		
└ QR code	✓		
└ DND	✓		
└ Conference	✓		
└ Call waiting	✓	✓	✓
└ Auto redial	✓	✓	✓
Advanced features			
└ Intercom	✓	✓	✓
└ Paging list	✓		

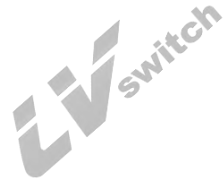
└Message	✓		
└Configuration management	×		
└Auto Provision	✓		
Customization			
└ Time&date	✓		
└ Multi language	✓		
└ Sound			
└ Button voice	✓		
└ Ring tone	✓		
└ Signal tone	×		
└ call out button	✓	✓	✓
└ Dial plan	×		
└ DSS keys	×		
└ Keypad Lock	✓		
└ Directory	✓		
└ Local directory	✓		
└ Blacklist	✓		
└ Remote PhoneBook	×		
└LDAP	×	✓	✓

Note Scan code configuration and web page configuration are the same, the following only shows the web page icons.

1.4 Usage Documentation

The technical support manual provided by H680 is as follows:

Name	Description	Obtain	Language
H680 quick user manual	Includes easy installation and phone customization	With IP phone	Chinese/English
		Lvswitch company website download	
H680 User Guide for IP Phone	Detailed function introduction and use	Lvswitch company website download	Chinese/English



2. Notes for safe use

Please read the safety instructions carefully before installing and using the phone to ensure safe and convenient use of the phone!

- Please use the power adapter specified by the product (supplied with the package). If you need to use the power adapter provided by other manufacturers due to special circumstances, please confirm that the voltage and current of the provided adapter comply with the specifications of this product (see the connection of power supply and network cable for details), and it is recommended to use safety certified products, otherwise it may cause damage to the equipment or may even cause a fire or electric shock. Before using this product, please check whether the power cord is damaged. Do not use damaged power cords and abnormal conditions such as twisted, stretched, or bundled power cords to avoid fire and electric shock.
- Non-technical service personnel must not disassemble or repair the product by themselves. Improper installation or repair may cause electric shock, fire and other accidents. At the same time, the warranty service of your product will also be invalid. If you need technical support, please contact the agent or your network administrator .
- Keep the temperature and humidity of the product in line with the working requirements of the product. Make sure that the product is placed flat on the workbench, and check that the non-slip glue on the product base does not fall off and cause the phone to slide on the platform. Please keep away from electrical appliances with strong magnetic or electric fields, such as microwave ovens or refrigerators, when placing the equipment. Keep the equipment away from fire sources.
- Do not put metal objects such as pins and iron wires into vents or gaps. Otherwise, it may cause electric shock and other injury accidents caused by current passing through metal objects. If similar metal objects fall into the product, stop using it in time.
- This product contains small parts inside. When placing the device, keep it out of the reach of children to avoid accidentally swallowing small parts.
- If you need to clean the phone, please cut off the power, wipe with a dry cloth, and place it in a ventilated place to dry naturally after cleaning. The power adapter needs

to be kept dry and clean, otherwise accidents may occur.



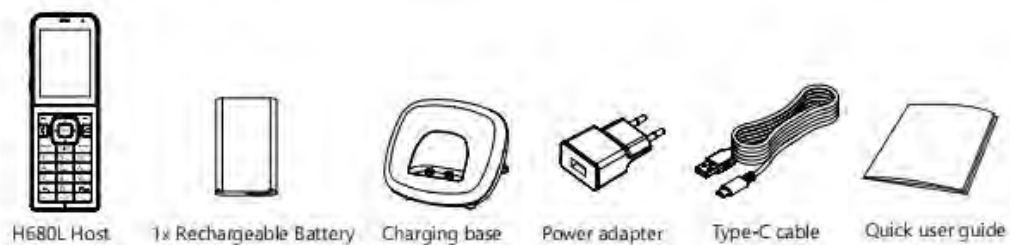
3. Getting started with the phone

This chapter introduces the basic operation of the H680 IP phone, including the following contents:

- [3.1 Packing list](#)
- [3.2 Phone installation](#)
- [3.3 Phone initialization](#)
- [3.4 Phone standby interface](#)
- [3.5 Check phone status](#)
- [3.6 Set up phone network](#)
- [3.7 Register an account](#)
- [3.8 Phone input method](#)

3.1 Packing list

H680 IP phone contains the following accessories:

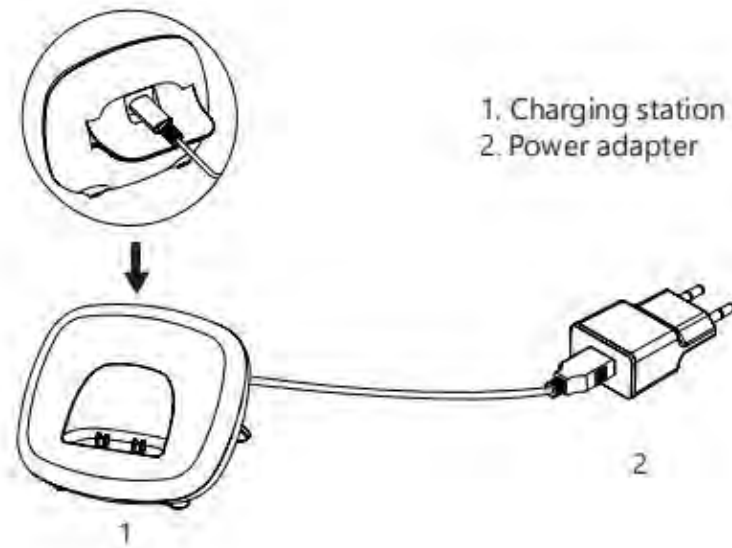


Note Before installing the phone, please check the integrity of the accessories according to the packing list. If any accessories are missing, please contact your network administrator or seller.

3.2 Phone Installation

Charge the phone:

Plug the power adapter into a power source socket to start using the charging base.



3.3 Phone initialization

After the phone is correctly installed and powered on, the phone will start up and display the following display:

- Phone initialization

The LCD screen displays “Welcome Initializing Please wait ...”。

- Connect to network (the phone's initial network is automatically obtained by DHCP)

After the phone is successfully turned on, the phone will automatically obtain the assigned IP address, subnet mask, default gateway, DNS server and other network configuration. If the network cable is connected after the phone is turned on, the LCD screen will display the prompt of network acquisition.

Note If you cannot get the network information, please check the [network settings](#) chapter, or contact your network administrator or dealer to check.

3.4 Phone standby interface

The display interface after the phone starts normally is as follows:



The phone standby interface can display the phone's time, date, phone status (Do Not Disturb, Auto Answer), account registration status, extension number, label, battery level and WIFI icon, and two soft keys at the bottom of the LCD screen (History , Menu) label. For the description of the icons on the standby interface, please refer to the display icon composition.




3.5 Check phone status

The phone status contains the following information:

- Network information
IP mode、 IPv4 / IPv6 address、 subnet mask、 default gateway、 DNS server
- Account status
SIP account registration information
- Device information
Firmware version、 product name、 hardware version、 MAC address、 Product ID.

You can check the phone status in the following ways:

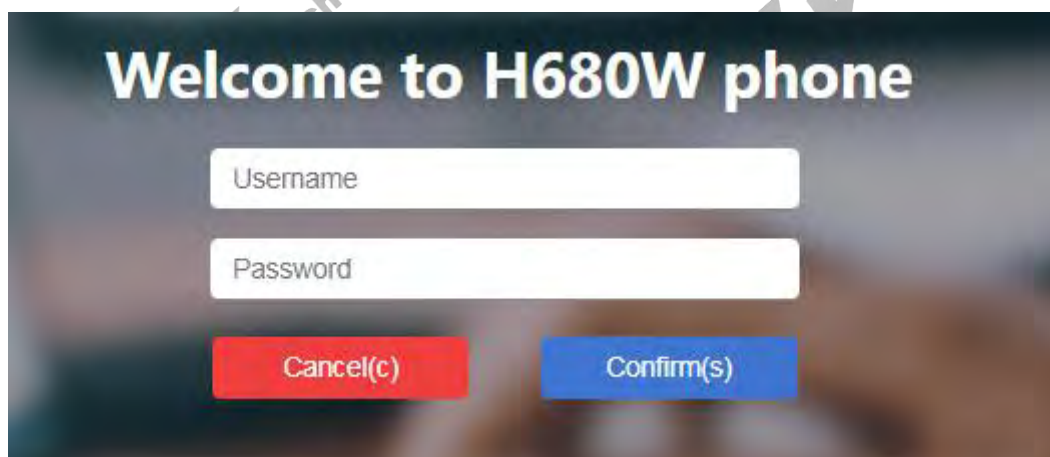
- Phone interface

1. Press  button or press soft key **Menu->Status** to check .
2. Press  or  to select, Enter "**More...**" to view more detailed status.



- Computer browser interface to view

1. Open the browser.
2. Enter the IP address of the phone (IPv4 /IPv6), 192.168.17.39.
3. Enter the phone login page, enter the account and password to log in, the initial account and password is (admin/admin).





3.6 Set up phone network

H680 can set three network modes: IPv4、IPv6、IPv4 & IPv6.





Note If there is no need to configure the network mode, the default IP mode of H680 is IPv4, please skip this step.

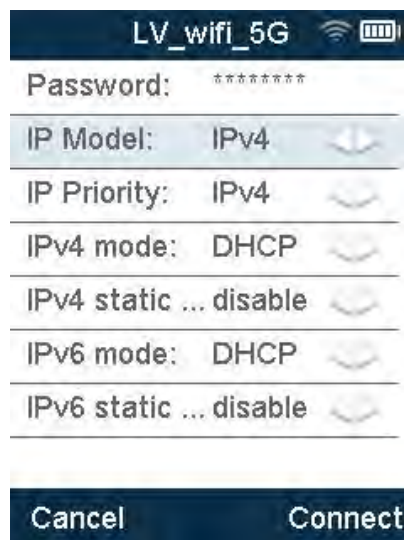
- Set the network mode through the phone interface

1. Press Menu->**WIFI**->**Wireless network**, Select the SSID to connect, press **Option**->**Configuration**.

2. Press  or  to select the desired mode in the IP mode (IPv4、IPv6、IPv4 & IPv6).

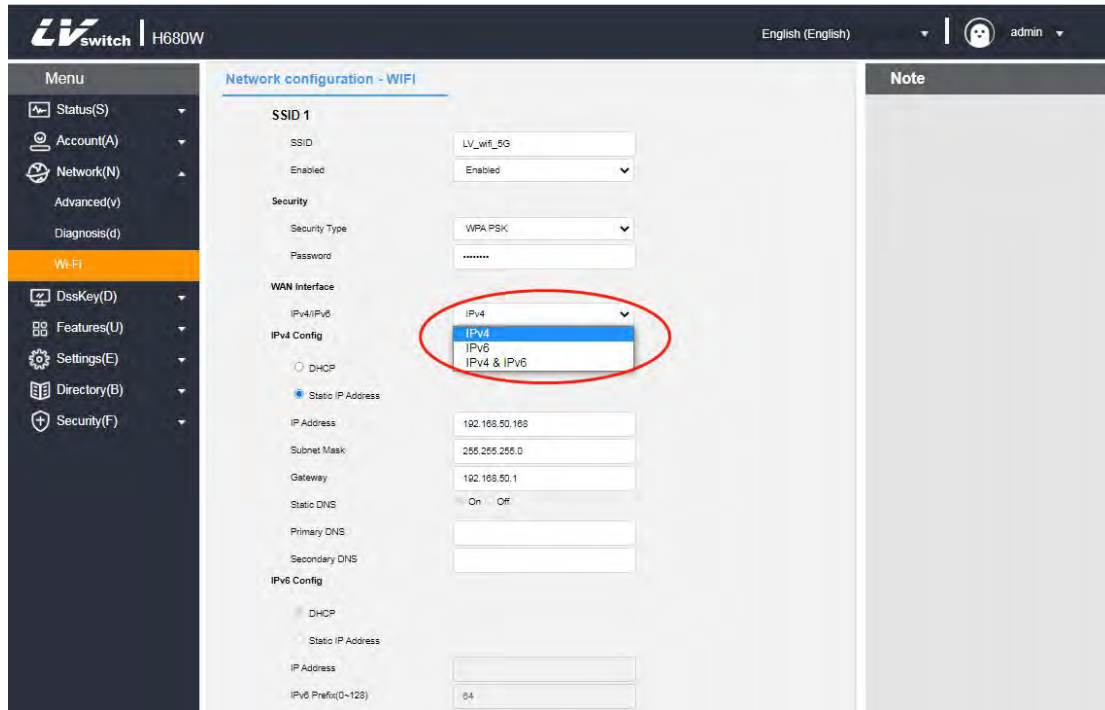
Note When entering an IPv6 address, you must add brackets before and after the address, such as [fe80::daec:a3ff:fe43:ad34], otherwise you cannot access the phone webpage through the IPv6 address, and not all servers support IPv6, please consult your before use Network administrator.

3. If it is IPv4&IPv6 mode, you can configure the mode priority. Press  or  to enter selecting mode priority, press  or  to switch. If you want to set up a DHCP network, fill in other corresponding SSID information and save it.



- Set network mode through web interface

1. Log in to the phone page by IP address.
 2. Click Network (N) ->**WIFI**->**SSID1**, Fill in the corresponding ssid information and enable it, select it in the WAN interface drop-down box.





If you want to set up a DHCP network, fill in other corresponding SSID information and click Submit.

H680 phone can set static IP address

- Set a static IP through the phone interface

1. Press Menu->**WIFI**->**Wireless network** , Select the SSID to connect, press Option-> **configuration**.

2. Press  or  to select the desired mode in the IP mode (IPv4、IPv6、IPv4 & IPv6).

3. Select static IP in IPv4 mode.

4. Fill in the relevant details:

IPv4 needs to fill in the IP address, subnet mask, default gateway, primary DNS and secondary DNS.

IPv6 needs to fill in the IP address, IPv6 IP prefix, default gateway, primary DNS and secondary DNS.

5. After filling in, press the connect soft key to connect or cancel softkey to cancel.

LV_wifi_5G	
Password:	*****
IP Model:	IPv4
IP Priority:	IPv4
IPv4 mode:	Static
IPv4 IP:	192.168.50.16
IPv4 subnet:	255.255.255.
IPv4 gatew...	192.168.50.1
IPv4 dns 1:	114.114.114.11
Cancel Connect	

- Set static IP via web interface

1. Log in to the phone page through the IP address.
2. Click Network (N) ->WIFI->SSID1, fill in the corresponding ssid information and enable.
3. Check the static IP address according to the selected WAN interface mode
IPv4 needs to fill in the IP address, subnet mask, default gateway, preferred DNS and alternative DNS.
For IPv6, you need to fill in the IP address, IPv6 prefix, default gateway, preferred DNS, and alternative DNS.
4. Click the confirm button to save.

Menu

- Status(S)
- Account(A)
- Network(N)
- Advanced(v)
- Diagnosis(d)
- Wi-Fi
- DeskKey(D)
- Features(U)
- Settings(E)
- Directory(B)
- Security(F)

Network configuration - WiFi

SSID 1

SSID: LV_wifi_6G

Enabled: Enabled

Security

Security Type: WPA_PSK

Password:

WAN Interface

IPv4/IPv6: IPv4

IPv4 Config

DHCP

Static IP Address

IP Address: 192.168.50.188

Subnet Mask: 255.255.255.0

Gateway: 192.168.50.1

Static DNS: On / Off

Primary DNS: 114.114.114.114

Secondary DNS: 8.8.8.8

IPv6 Config

DHCP

Static IP Address

IP Address:

IPv6 Prefix(0-128): 64

Note

Note Wrong IP configuration may cause the phone to fail to access the web interface. Please make sure that the IP address is not the same as the IP in the LAN before configuration. If you need help, please contact your network administrator.

3.7 Register an account

The H680 phone supports two configuration methods:

- Manual configuration
- Software batch configuration

The H680 IP phone supports dual account registration. The account switch is performed through the account button of the phone. The phone is generally configured by the system administrator. The account has been configured when the phone is obtained. You can use the account as long as you plug in the Internet cable to obtain the IP and the account is successfully registered. If the phone has not been configured with an account, you need to configure the account manually. For details, please refer to the [Account management](#) chapter.

3.8 Phone input method and input method
















The phone supports keyboard input, and you can use the numeric keyboard to

enter data on the screen to configure the phone's functions.








H680 supports 4 input methods: 123 , 2aB, abc and ABC. When you need to input data, you can use the # key to switch between these 4 input methods. When the input method is at 2aB, press the button repeatedly to switch the characters to be input (numbers/letters) /Punctuation), when you switch to the character you want, stop and wait for 1 second before entering the next character.

-

-The characters that can be input by different keyboard input methods are as follows:

Input method Button	123	2aB	abc	ABC
	1	1		
	2	2abcABC	abc2	ABC2
	3	3defDEF	def3	DEF3
	4	4ghiGHI	ghi4	GHI4
	5	5jklJKL	jkl5	JKL5
	6	6mnoMNO	mno6	MNO6
	7	7pqrsPQRS	pqrs7	PQRS7
	8	8tuvTUV	tuv8	TUV8
	9	9wxyzWXYZ	wxyz9	WXYZ9
	0	0	Space	Space
	*	*.'#!\~()\$@/:	*.'#!\~()\$@/:	*.'#!\~()\$@/:
	#	#	#	#
				
				
				

- Input method introduction :

Example	Method
Input English word "Switch" Switch	<p>-Switch input method to 2aB</p> <ol style="list-style-type: none"> 1.Press the button continuously , Until S appears. 2.Press the button  continuously, until w appears. 3.Press the button  continuously, until i appears. 4.Press the button  continuously, until t appears. 5.Press the button  continuously, until c appears. 6.Press the button  continuously, until h appears. <p>Finally form the word.</p>
Enter IP address 192.168.0.1	<p>- Switch input method to 123</p> <ol style="list-style-type: none"> 1.Input number. 2.Press the button  continuously until the symbol '.' appears.

4. Phone customization

You can customize the phone according to your own usage habits, such as: language, time & date, ringtones, contacts, Dir, etc. This chapter will give a detailed introduction to the customized phone. The main contents are as follows:

- [4.1 Basic setting](#)
 - [4.2 Voice setting](#)
 - [4.3 Contact management](#)
 - [4.4 CDR management](#)
 - [4.5 Accessories customization](#)
 - [4.6 System customization](#)

4.1 Basic setting



The basic settings of H680 include the following:

- Language
- Time&Date
- Call out button
 - Keypad lock

4.1.1 Language

H680 supports multiple languages, the default language of phone initialization is English, phone interface and web interface are integrated: after the phone changes language, the web page will be refreshed and the language will be updated synchronously with the phone; when the web interface changes language, you need to restart the phone .

- Set the language through the phone interface

1. Press Menu->**Settings**->**Basic settings**->**Language**.
2. Press  or  to select the language required.
3. Press the Save soft key to save the language selected by the arrow, as shown in the figure below.



Note When the language of the phone interface is changed, after the web interface is refreshed, the language will be synchronously changed to the language set on the phone (for example: English is set on the phone interface, the web interface is refreshed, and the language of the web interface is also changed to English).

- Set the language through the phone interface

1. Enter the phone IP address to enter into the web interface.
2. At the top right of the web interface, select the language from the drop-down box.

Version	
Firmware Version	V68W 4.0.6
Sub Version	9668
Hardware Version	1.0.0.0

Network	
WAN Interface	ipv4

IPv4	
WAN Port Type	DHCP
WAN IP Address	192.168.50.34
Subnet Mask	255.255.255.0
Gateway	192.168.50.1
Primary DNS	192.168.50.1
Secondary DNS	

Network Common	
MAC Address	84.3B.10.06.70.62
Link Status	Connected
Run Time	2 Day 01:11
Current Time	2021-10-28 10:58:25 Thu
Device Type	Bridge

AccountStatus	
Account1	20801@192.168.2.220: Registered
Account2	6002@192.168.0.168: Registered

Note When the language of the web interface is changed, the LCD language will be synchronously changed after phone restart (for example: English is set on the web interface, then restart phone and the language of phone LCD is also changed to English).

4.1.2 Time&Date

H680 can be set to display the time on the LCD screen when the phone is in standby, configure your SNTP server to automatically obtain the time and date, or manually set the time and date.

- Obtain the time and date automatically through the phone interface

1. Press **Menu** -> **Settings** -> **Basic Settings** -> **Time & Date** -> **Automatic Timing**.

2. Press the **OK** soft key to save.

- Set the time and date manually through the phone interface

1. Press **Menu** -> **Settings** -> **Basic Settings** -> **Time & Date** -> **Manual Timing**.

2. Press  or  to select.

3. Input the time and date you want to set through the numeric keyboard.



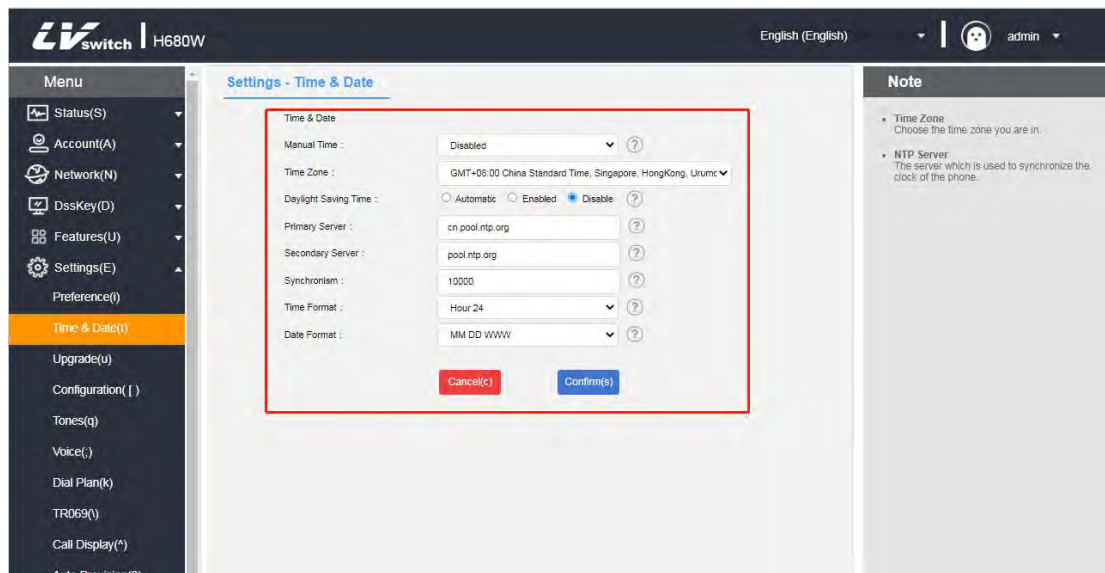
Back

Save

Note The SNTP server cannot be configured on the phone interface. If you need to configure the time zone and SNTP server, please configure it on the web interface.

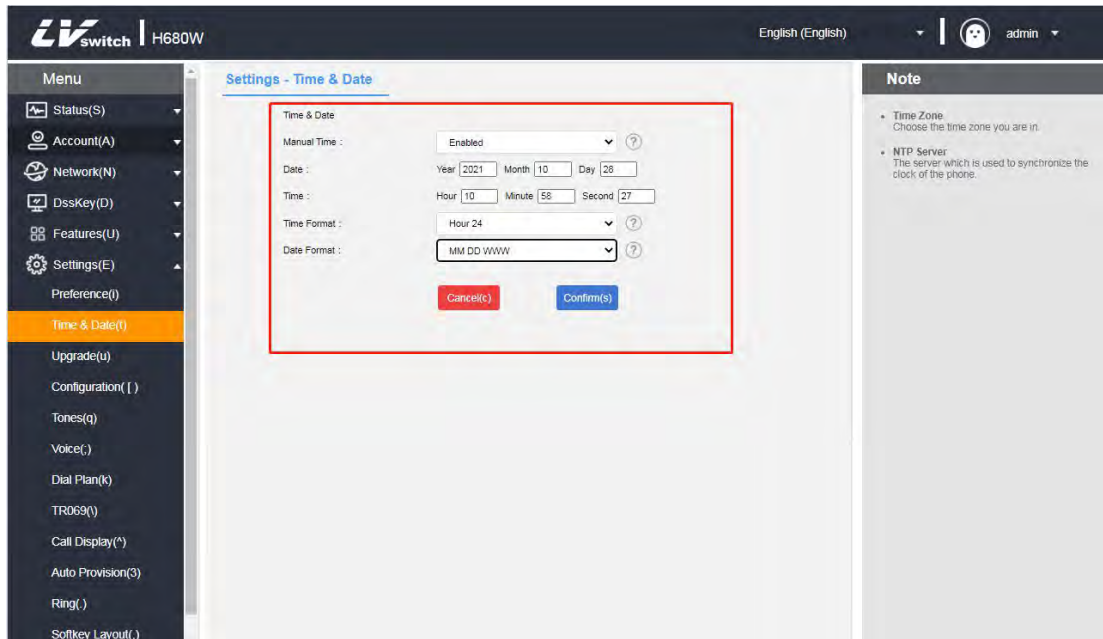
- Obtain time automatically via web browser

1. Log in to the phone page by IP address.
2. Press **settings (E) -> date and time (t)**.
3. Manual setting is disabled by default.
4. Primary server and secondary server fill in the SNTP server address.
5. Set the synchronization period, unit (seconds).
6. Click the **Confirm** button to save after setting.



- Set the time manually via a web browser

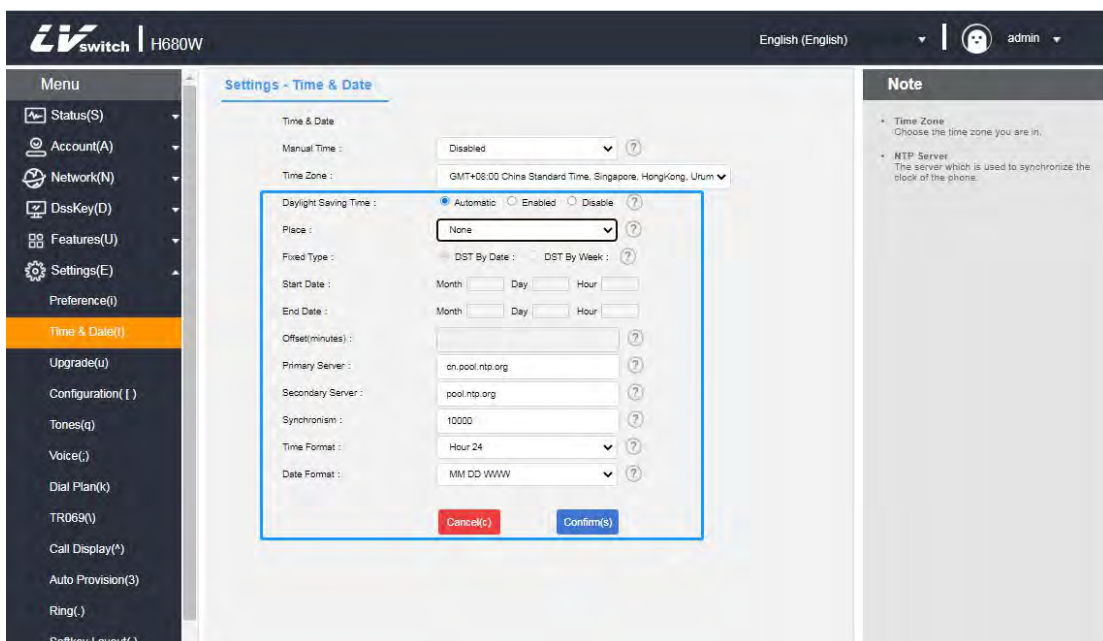
1. Log in to the phone page by IP address.
- Press **settings (E) -> date and time (t)**.
3. Manual setting is enabled.
 4. Set the time and date as needed.
 5. Click the **Confirm** button to save after setting.



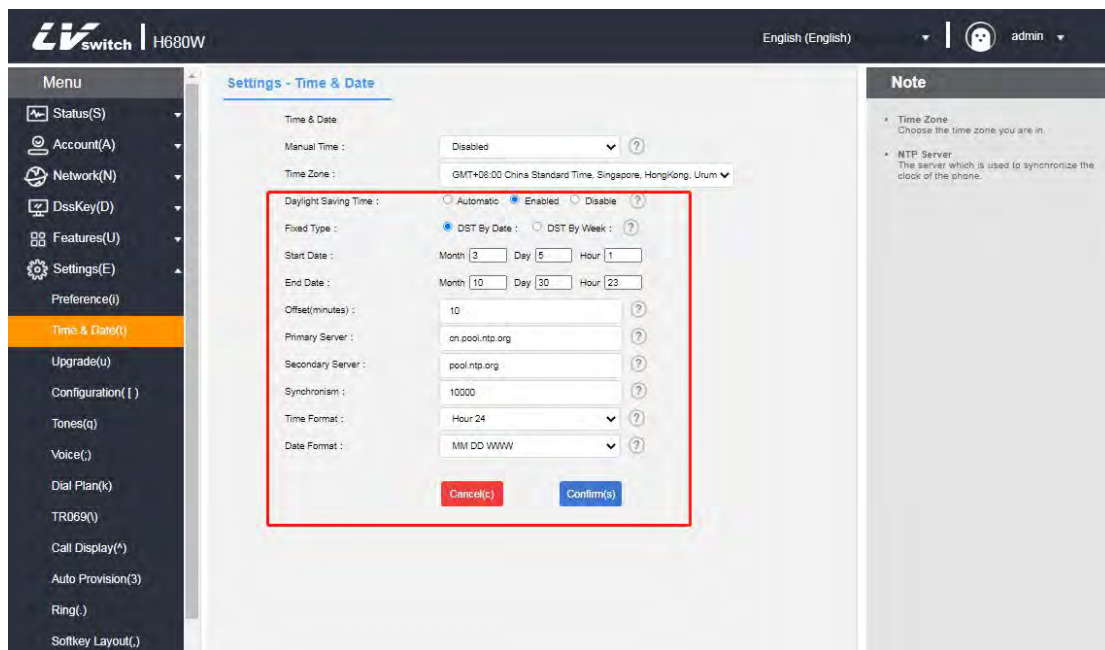
- - Daylight Saving Time setting

1. Log in to the phone page by IP address.
2. Press **settings (E) -> date and time (t)**.
4. There are two types of manually setting the daylight saving time method by date or by week. Fill in the start time and end time.
5. Click the **Confirm** button to save after setting.

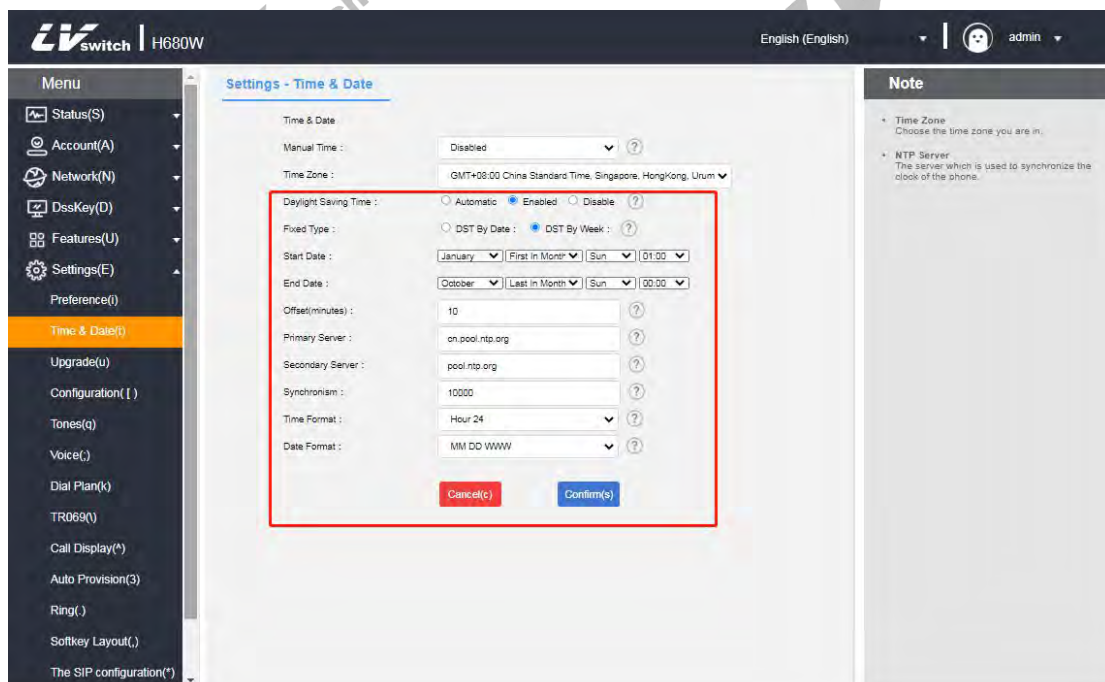
◆ Automatic set Daylight saving time:



◆ Set daylight saving time in date mode:



◆ Set daylight saving mode in week mode:



- Set time and date display format via web browser


1. Log in to the phone page through the IP address.
2. Press Settings (E) -> Date and Time (t).
3. Select the corresponding format in the time format (support 12-hour system and 24-hour system).

4.The phone supports 7 date formats, and different date formats will display the corresponding date on the phone LCD screen.

The following table shows the date displayed in each date format:

Date format	Display
MM DD WWW	Wed,Aug 12
YY MM DD	12-Aug-20
YYYY MM DD	2020-Aug-12
YYYY/MM/DD	12/Aug/2020
YY/MM/DD	12/Aug/20
YYYY MM DD	12 Aug.2020
MM DD WW	Wed 12,Aug

4.1.3 Call out button

H680 can set * and # numbers as the outgoing button, you can also use the  button, send soft key etc to make outgoing calls.Set according to your personal habits.

- Set the outgoing key on the phone interface
 - 1.Press Menu->Features->Key as send.
 - 2.Use the switch soft key to switch the outgoing key (*, #, disable).
 - 3.After switching, press the Save soft key to save the operation.



Note For specific operations of making a call, please refer to the section on making a call.

4.1.4 Keypad lock

Enabling the keypad lock on the phone can prevent the phone from being used by unauthorized persons or accidental operations caused by accidental touches. When the keyboard is locked, only emergency call numbers can be dialed. If you need to dial other numbers, you need to unlock it.

The keyboard lock can be divided into: menu key, function key and all keys.

Menu key : Menu soft key is locked, other keys can be used.

Function keys: the direction navigation key, OK key, Message key, Pickup key, Mute key, Trans key, 2 soft keys and other function keys are locked. The other keys are used normally.

All keys: Except for the *,# key ,the numeric keyboard, the hands-free key, and the volume adjustment key, the rest of the keys are all locked. The dial interface can only dial preset emergency numbers. You can answer the call by pressing the off-hook key, hands-free key, and the answer soft key. You can reject the incoming call through the reject soft key.


- Set the keypad lock through the phone interface

1. Press Menu -> Settings -> Basic Settings -> Keypad Lock.
2. Enter the keyboard lock password in the unlock PIN (the factory default password is admin), and press the OK soft key to enter.
3. If you enter the default password, you will be prompted to change the password, which is used to enter the keyboard lock setting and unlock the keyboard.
4. Press the left and right buttons to enable the keyboard lock option.



5. In the keyboard lock type option, press the left and right buttons or switch soft keys to select the type of keyboard lock.

6. Enter the automatic lock time in the keyboard lock time input box (0~3600 seconds).

a.If the time is set to 0 seconds, it will not be automatically locked after saving the keyboard lock.It needs to long press  to enable keypad lock.


b.Set other time (for example, after 10 seconds), the phone will be automatically locked at the set time after standby.

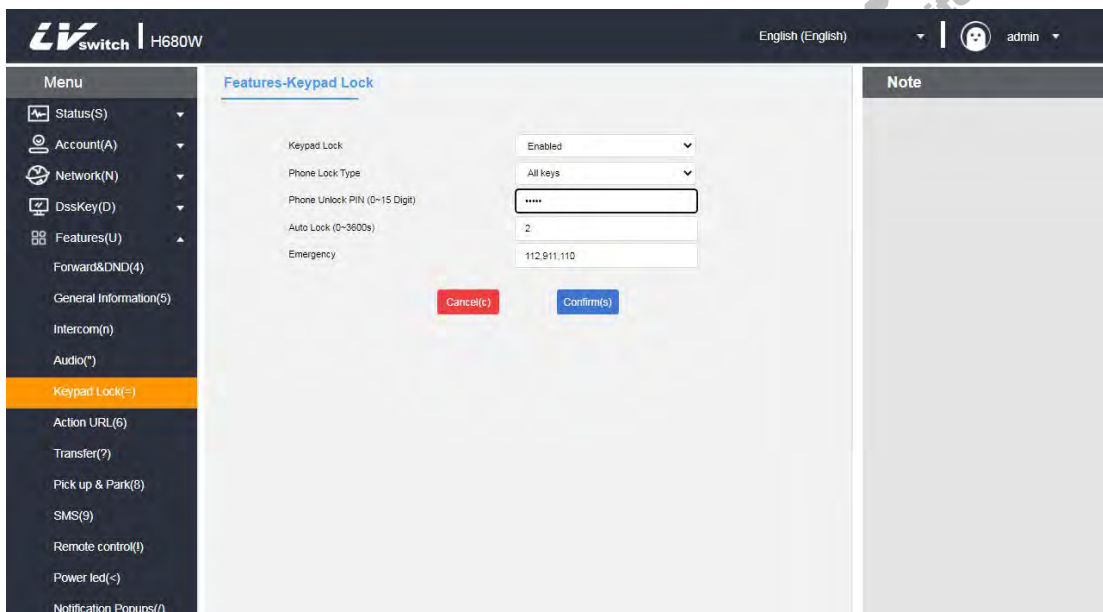
7. Press **Save** soft key to save the change.

When the phone is locked , the LCD screen prompts “The keyboard is locked.”. And soft key showing will change to Emerg(emergency call) and Unlock(Use for unlock keyboard).As shown below:



- Set keyboard lock via web interface

1. Log in to the phone page by IP address.
2. Press **Features (U) -> Keypad Lock (=)**.
3. Enable keypad lock.
4. Select the keypad lock type.
5. If you need to change the unlock password, set the unlock password.
6. Enter the automatic lock time (0~3600 seconds) in the keyboard lock time input box.
 - a. If the time is set to 0 seconds, the keyboard lock will not be automatically locked after saving, you need to long press  to enable the keyboard lock.
 - b. If another time is set (for example, 10 seconds), the phone will automatically lock after the set time (for example, after 10 seconds) after standby.
7. Set the emergency call number.
8. Click confirm button to confirm the operation.




The screenshot shows the web interface for configuring the keypad lock. The top navigation bar includes the LV switch logo, the model 'H680W', the language 'English (English)', and the user 'admin'. The left sidebar menu has 'Keypad Lock(=)' highlighted. The main content area is titled 'Features-Keypad Lock' and contains the following configuration options:

- Keypad Lock: Enabled
- Phone Lock Type: All keys
- Phone Unlock PIN (0-15 Digit): ****
- Auto Lock (0-3600s): 2
- Emergency: 112,911,110

At the bottom of the configuration area are 'Cancel(c)' and 'Confirm(s)' buttons. A 'Note' section is visible on the right side of the page.

- Unlock the keypad lock on the phone interface

1. Press the **Unlock** soft key or any locked key, such as menu key, function key, and all keys.
2. Enter unlock password in the Unlock PIN field.(Default:admin)
3. Press ok softkey.

The **Unlock** soft key on the standby interface disappears, that is, it is successfully unlocked. Long press  or wait for the unlocking time to lock the keyboard again.



Note If you forget the unlock password, you can reset it via web user interface.

4.2 Voice setting

There are several sound settings in H680, including the following points:

- Volume setting
- Ringtone setting
- Button voice setting
 - Signal tone setting

4.2.1 Volume setting

The H680 phone can set the ring volume and the volume during the call. The volume setting range is 1-15, and the volume becomes larger as the value increases.

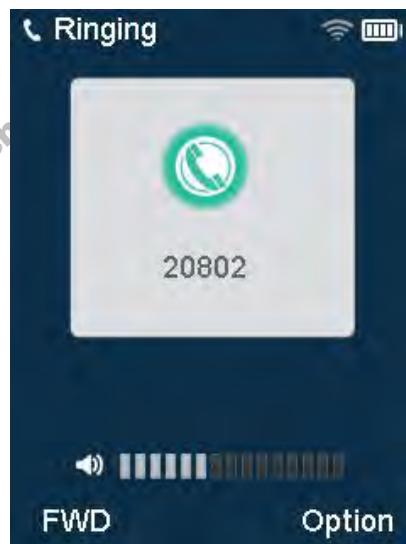
- Set the ring volume of incoming calls in standby/ringing state

1. Press the side volume key to adjust the ring volume, as shown in the figure:



- Set the volume of the handset, speaker headset and other devices when a call comes in

1. Press the side volume key to adjust the ring volume, as shown in the figure:



4.2.2 Ringtone settings

You can set different ringtones for your phone to distinguish incoming calls. In addition to unified ringtones, contacts can also set different ringtones to distinguish incoming calls from different contacts. The system provides a total of 10 default ringtones to choose from.

- Set the incoming call ringtone on the phone interface

1. Press Menu->**Settings**->**Basic settings**->**Sounds**->**Ringtone**.

2. Press  or  to select the ringtone.

3. Press save softkey to save the operation.



- **Set the contact ringtone in the web browser**

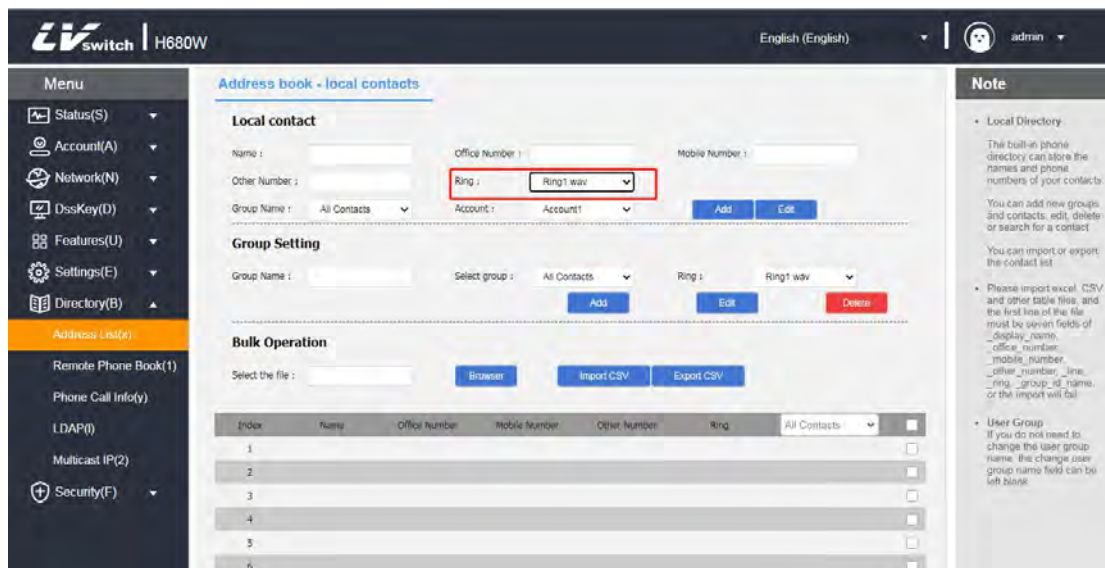
1. Log in to the phone page through the IP address.

2. Press Directory (**B**) ->**Local contact** (**x**) .

3. Add a contact or click a contact in the list to edit it.

4. Select a ringtone for the contact from the ringtone selection box.

5. If you want to add a contact, click the Add button, if you want to modify a contact, click the Edit button.



4.2.3 Button sound

The phone will emit a key tone when pressing the keyboard key to indicate that

the key has been triggered. The key tone can be enabled or disabled by setting.

-Set button sound via phone interface.

- 1.Press Menu->**Settings->Basic settings->Sounds->button tone.**
- 2.Press the switch soft key to enable and disable the key tone.
- 3.Press save softkey to save the operation.

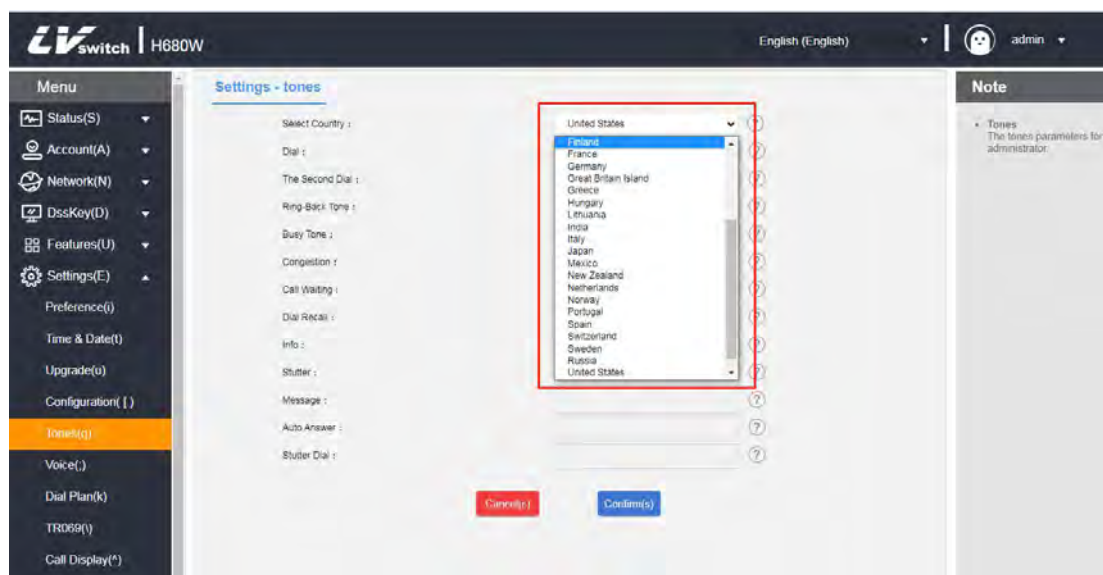


4.2.4 Signal tone

The audible signal sent by the switch to the user indicates that the phone is in a certain state. The signal tones follow a unified standard in each device. You can customize the signal tones according to national standards, or you can customize the signal tones. The lower the value, the lower the signal tone.

- Set signal tone via web browser

1. Log in to the phone page by IP address.
2. Press **Settings(E)->tones(q).**
3. Please select the country according to the national standard. If you want to customize the signal tone, select custom in the country option.
4. To select custom, you need to fill in the value yourself to change the signal.
5. Click save button to save settings.



- Signal tone type introduction and standard

Signal tone	frequency	Transmission frequency(dBm0)	Description
Dial	450±25	- 10±3dBm0	Used to notify the calling user that they can dial
The Second Dial	450±25	- 10±3dBm0	Prompt tone during second dialing
Ring-Back Tone	450±25	- 10±3dBm0	Indicates that the called user is ringing
Busy Tone	450±25	- 10±3dBm0	Indicates that the connection is busy or the called party is busy
Congestion	450±25	- 10±3dBm0	Indicates that this connection has encountered machine line congestion
Call waiting	450±25	- 10±3dBm0	Indicates that the phone is in call waiting
Dial Recall	450±25	- 10±3dBm0	Indicates that the phone is in a callback state
Info	450±25	- 10±3dBm0	Beeps when receiving special information

Stutter	450±25	-10±3dBm0	Prompt tone when receiving voice message
Message	450±25	-10±3dBm0	Tones for receiving messages
Auto Answer	450±25	-10±3dBm0	Prompt tone in automatic answering state
Stutter Dial	450±25	-10±3dBm0	Prompt tone for voice mail callback

4.3 Contact management

Contact management of the H680 IP phone mainly includes:

- [Local contacts](#)
- [Blacklist](#)
- [LDAP](#)

4.3.1 Local contacts

Local contacts can save the contact's name, internal extension number, mobile phone number and other information. H680 supports saving 1000 local contacts and 10 contact groups (including default groups). It supports operations such as adding groups, editing, setting ringtones, setting accounts, and editing contacts.

4.3.1.1 Add group

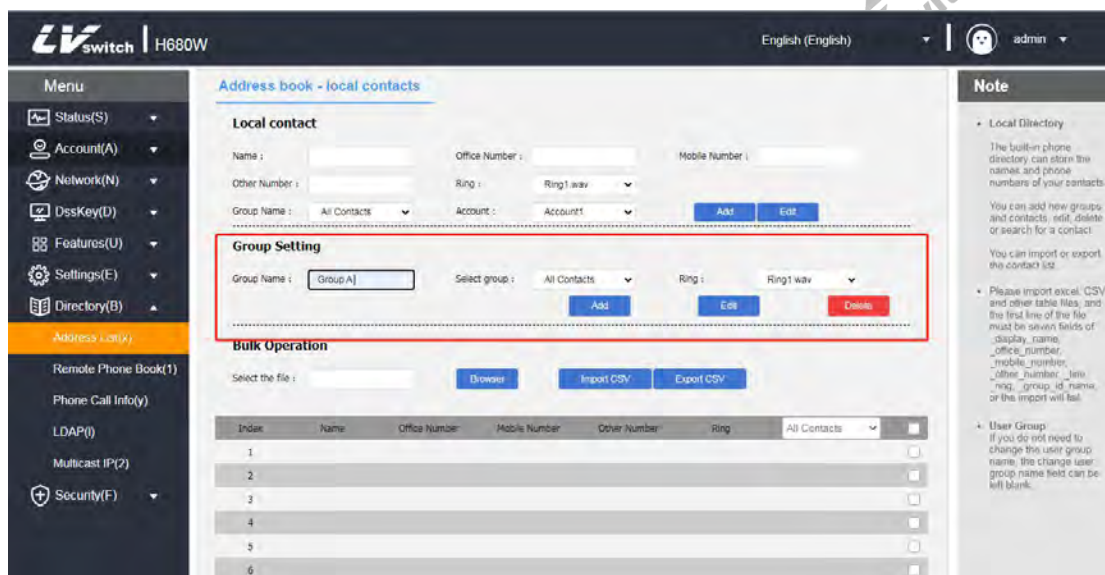
- Add a group via phone

1. Press the soft key **Dir** -> **AddGrp**.
2. Fill in the group name.
3. Press the **Save** soft key to save the group.



- Add group via web browser

1. Log in to the phone page by IP address.
2. Click **Directories(B)->Address list(x)**.
3. Enter the group name in the group name box.
4. Click the **Add** button to add a group.



4.3.1.2 Edit group

- Edit group via phone interface (Default group can't be edited)

1. Press Menu ->Directory -> Local directory.
2. Press or to select the edited group.
3. Press softkey Option->Detail, enter the edit interface.
4. Enter the new group name in the group name edit box (only English can be

input on the phone interface) .

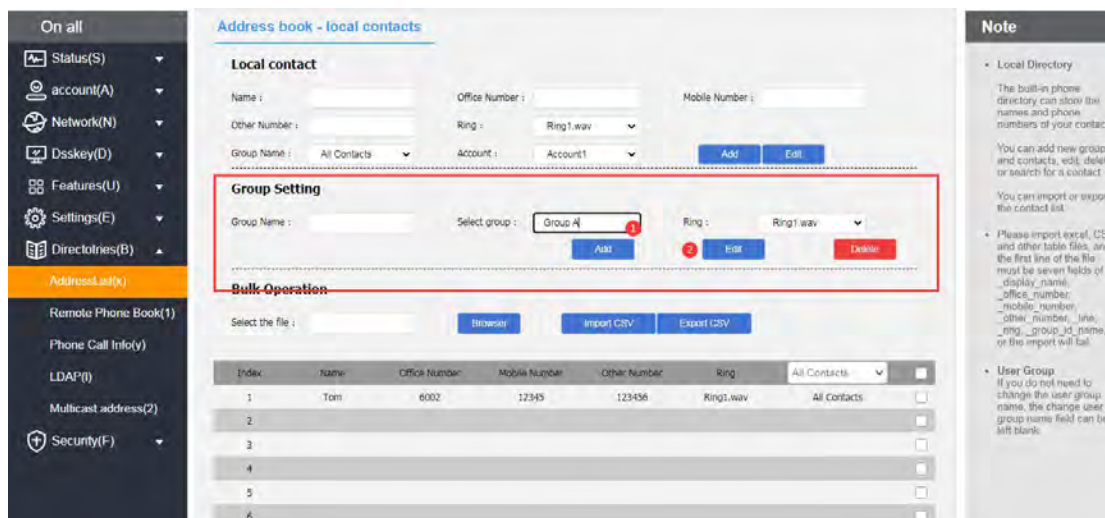
5.Press save softkey to save the group.



Note H680 adds up to 9 groups, and the default group All Contacts, a total of 10 groups, and then add a group will prompt "group is full, can not add", if you need other groups, please edit the group or delete the original groups and add the group again.

- Edit group via web browser (default group cannot be edited)

- 1.Log in to the phone page through the IP address.
- 2.Click Directory (B) ->Address list (x) .
- 3.Select the group.
- 4.After the selection, the selected group becomes an input mode, and it is modified to the name to be changed.
- 5.Click the edit button to make changes.



4.3.1.3 Delete group

- Delete the group through the phone (the default group cannot be deleted)

1. Menu ->Directory -> Local directory.

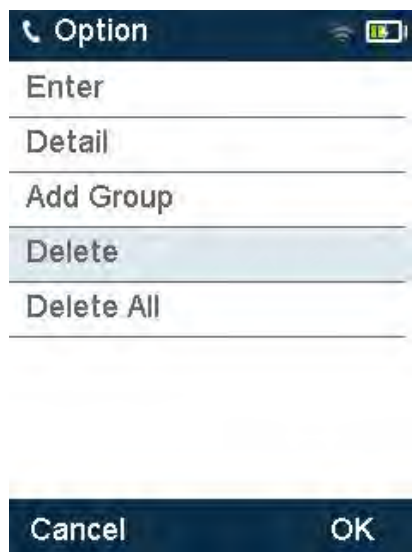
2. Press or to select the group needs to be deleted.

3. Press option softkey.

4. Press or to select delete option.

5. Press ok softkey to delete.

If you want to delete all groups, press Option->Delete All.



- Delete the group through the web browser (the default group cannot be

deleted)

1. Log in to the phone page through the IP address.
2. Click Directory (B) -> Address list (x) .
3. Select the group in the group module.
4. Click the delete button in the group setting module.

Note : If a group is deleted, the sub-groups in the deleted group will be grouped into the default group "All Contacts".



4.3.1.4 Add contact

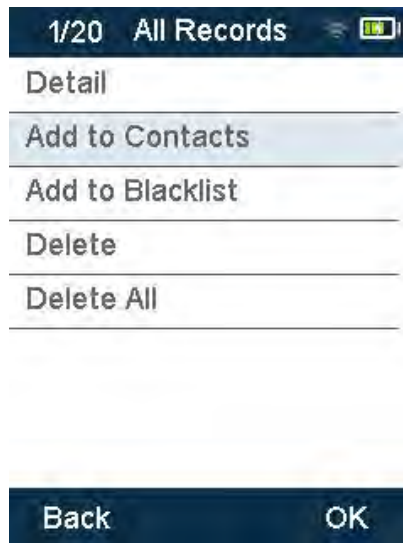
There are three ways of adding contact:

- Manually add
- Batch import
- Add from call record





- Add contacts via phone user interface

1. Press the history soft key in the standby state.
2. Press or to select the number needs to add to contact.
3. Press softkey Option->Add to contact.

4. Press  or  to complete contact information (name, group).
5. Press save to save the contact.



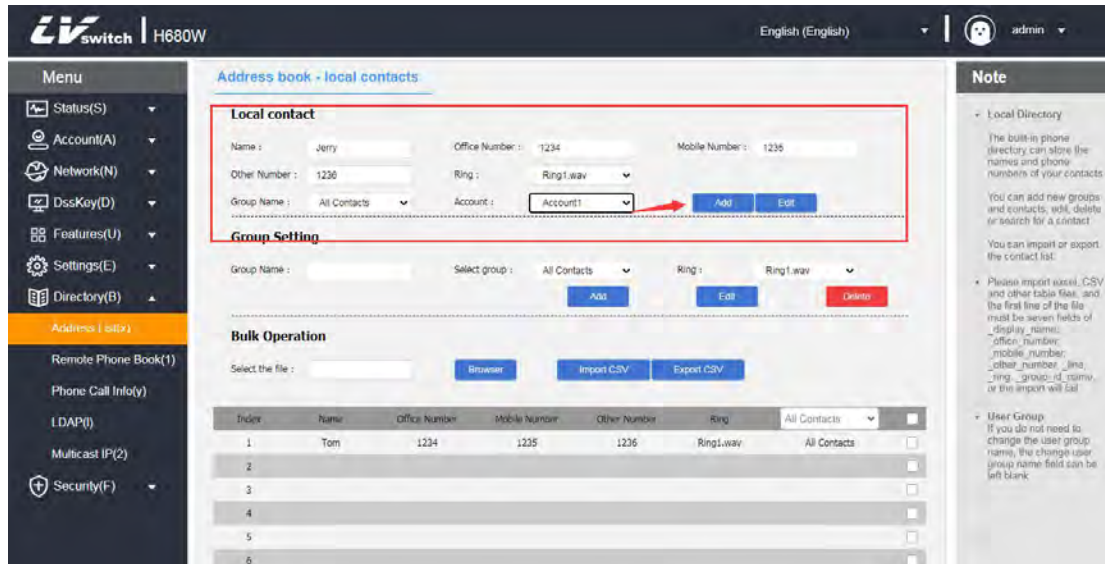
- Add a contact through the local contact of the phone interface

1. Press Menu->Directory->Local Directory on the standby interface.
2. Press  or  to select the group.
3. After entering the group, press the Option-Add key to enter the add interface.
4. Press  or  to fill in the contact information (Name, mobile number, office number, other number, ring, account, group, etc. Can switch to another group.)
5. Press save softkey to save the contact.



- Add contacts via web browser

1. Log in to the phone page by IP address.
2. Click **Directories(B)->Address list(x)**.
3. Fill in the contact information in the local contact module.
4. Click the **Add** button of the local contact module to add.



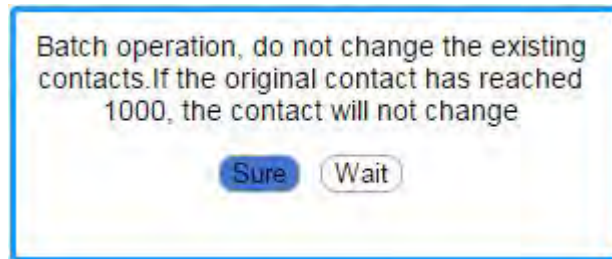
- Import contacts in bulk via web browser

1. Log in to the phone page by IP address.
2. Click **Directories(B)->Address list(x)**.
3. Batch operation module click on CSV format to export contact templates.
4. Add/edit contact information in the table
5. Batch operation module Click Browse to find the CSV file you want to import, click CSV format import to add contacts

(Currently only supports importing xls, csv, xlsx file types)

1	_display	_office_r	_mobile_r	_other_nu_line	_ring	_group_id	name
2	Tony	1234			1	Ring1.wav	All Contacts
3	Dave	1235			1	Ring1.wav	All Contacts
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							



After clicking Import, the following prompt will appear:





4.3.1.5 Edit contact

- Edit contacts via phone interface

1. In the standby mode, press the contact soft key (or Menu->Directory->Local Directory)->All Contacts.

2. Press  or  to select the person name needed to be edit.

3. Press Option->**Detail**, enter into the edit page of the contact.

4. Press  or  to edit the contact information.

5. Press the save button to save the operation



- Edit contacts via web browser

Log in to the phone page by IP address.

2. Click **Directories(B)**->**Address list(x)**.
3. Click the contact you want to edit in the contact list below, and the information will be filled in the local contact module.
4. Modify the contact information in the local contact module.
5. Click the **Edit** button to save the editing operation.

Address book - local contacts

Local contact

Name : Tom Office Number : 1234 Mobile Number : 1235
 Other Number : 1236 Ring : Ring1.wav
 Group Name : All Contacts Account : Account1 **Add** **Edit** **Delete**

Group Setting

Group Name : Select group : All Contacts Ring : Ring1.wav
Add **Edit** **Delete**

Bulk Operation

Select the file : **Browse** **Import CSV** **Export CSV**

Index	Name	Office Number	Mobile Number	Other Number	Ring	Group Name	
1	Tom	1234	1235	1236	Ring1.wav	All Contacts	Edit
2							
3							
4							
5							

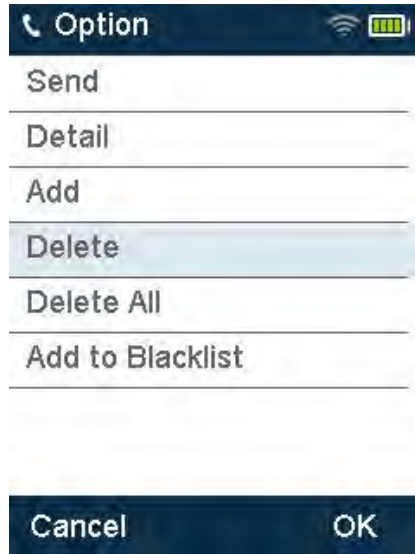
Note

- Local Directory
 - The built-in phone directory can store the names and phone numbers of your contacts.
 - You can add new groups and contacts, edit, delete or search for a contact.
 - You can import or export the contact list.
- Please import excel, CSV and other table files, and the first line of the file must be seven fields of _display_name, _office_number, _mobile_number, _other_number, _line, _ring, _group_id, name, or the import will fail.
- User Group
 - If you do not need to change the user group name, the change user group name field can be left blank.

4.3.1.6 Delete contact

- Delete contact via phone user interface

1. Press **Menu** -> **Directory** -> **Local Directory** -> **All Contacts** in standby mode .
2. Press or to select the name of the contact you want to delete.
3. Press **Option** -> **Delete/Delete all** .
4. Press the **OK** soft key to confirm the action.



- Delete contacts via web browser

1. Log in to the phone page by IP address.
2. Click **Directories(B)**->**Address list(x)**.
3. Tap the contact you want to delete in the contact list below.
4. Click the **Delete/Delete all** button under the list to delete the contact.

- Network(N) ▾
- DssKey(D) ▾
- Features(U) ▾
- Settings(E) ▾
- Directory(B) ▴
- Address List(x)
- Remote Phone Book(1)
- Phone Call Info(y)
- LDAP(i)
- Multicast IP(2)
- Security(F) ▾

Other Number: Ring: Ring1.wav ▾

Group Name: All Contacts ▾ Account: Account1 ▾ Add Edit

Group Setting

Group Name: Select group: All Contacts ▾ Ring: Ring1.wav ▾

Add Edit Delete

Bulk Operation

Select the file: Browser Import CSV Export CSV

Index	Name	Office Number	Mobile Number	Other Number	Ring	All Contacts ▾	<input type="checkbox"/>
1	Ài1	1234			Ring1.wav	All Contacts	<input checked="" type="checkbox"/>
2	Ài2	1235			Ring1.wav	All Contacts	<input type="checkbox"/>
3	Ài3	1236			Ring1.wav	All Contacts	<input type="checkbox"/>
4	Ài4	1237			Ring1.wav	All Contacts	<input type="checkbox"/>
5	Ài5	1238			Ring1.wav	All Contacts	<input type="checkbox"/>
6	Ài6	1239			Ring1.wav	All Contacts	<input type="checkbox"/>
7	Ài7	1240			Ring1.wav	All Contacts	<input type="checkbox"/>
8	Ài8	1241			Ring1.wav	All Contacts	<input type="checkbox"/>
9	Ài9	1242			Ring1.wav	All Contacts	<input type="checkbox"/>
10	Ài10	1243			Ring1.wav	All Contacts	<input type="checkbox"/>

999/1000 Skip to 1 < > Delete All Delete Move To All Contacts ▾

names and phone numbers of your contacts.

You can add new groups and contacts, edit, delete or search for a contact

You can import or export the contact list





- Please import excel, CSV and other table files, and the first line of the file must be seven fields of display_name, _office_number, _mobile_number, _other_number_line, _ring_group_id_name, or the import will fail.
- User Group If you do not need to change the user group name, the change user group name field can be left blank.

Copyright ©2021 *Inc. All Rights Reserved

Note The deleted contact cannot be recovered. Confirm whether you want to delete it before deleting.

4.3.1.7 Call contact

- Call a local contact through the phone interface

1. Press **Menu -> Directory -> Local Directory) ->All Contacts.** in standby mode
2. Press  or  to select the name of the contact you want to call.
3. Press send softkey to enter the contact number list.
4. Press  or  to select the number you want to call to make a call.
(mobile number or office number).
5. Press the **Send** soft key to make a call.





4.3.2 Blacklist

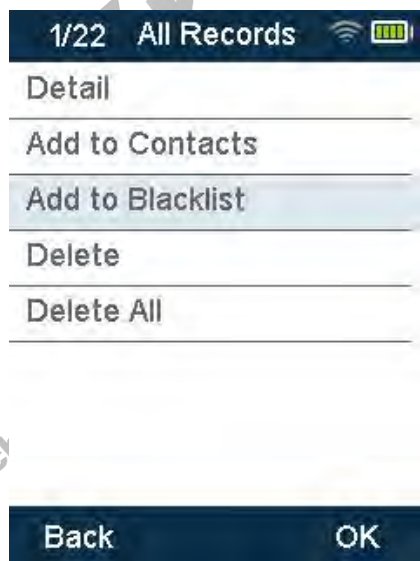
H680 can save up to 30 blacklisted contacts, and the phone numbers with blacklisted will be automatically rejected by the phone.

4.3.2.1 Add to blacklist

- Add a blacklist through the phone CDR interface

1. Press the **History** soft key in standby mode.

2. Press  or  to select the number added to the blacklist.
3. Press soft key **Option->Add to blacklist**.
4. Complete blacklist member information.
5. Press **OK** to save the blacklist.



- Add blacklist via web browser

1. Log in to the phone page by IP address.
2. Click **Directories(B)->Address list(x)**.
3. Fill in the name and phone number to be added to the blacklist in the local contact module, and select the group as a Blacklist (BlackList).
4. Click the **Add** button to save the blacklisted contacts.

Local contact

Name: BadCall Office Number: 1234 Mobile Number:

Other Number: Ring: Ring1.wav

Group Name: All Contacts Account: Account1 Add Edit

Group Settings

Group Name: Select group: All Contacts Ring: Ring1.wav

Add Edit Delete

Bulk Operation

Select the file: Browse Import CSV Export CSV



Index	Name	Office Number	Mobile Number	Other Number	Ring	All Contacts
1	A11	1234			Ring1.wav	All Contacts
2	A12	1235			Ring1.wav	All Contacts
3	A13	1236			Ring1.wav	All Contacts
4	A14	1237			Ring1.wav	All Contacts
5	A15	1238			Ring1.wav	All Contacts
6	A16	1239			Ring1.wav	All Contacts
7	A17	1240			Ring1.wav	All Contacts

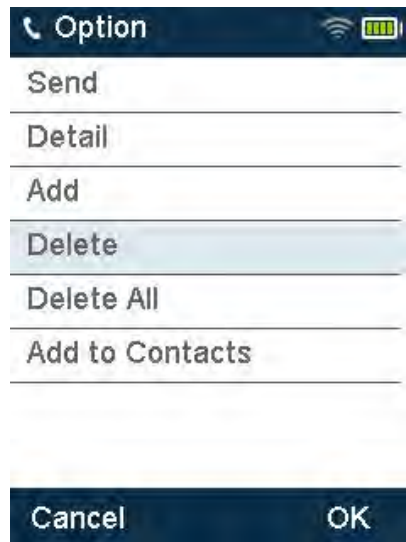
Note

- Local Directory
 - The built-in phone directory can store the names and phone numbers of your contacts.
 - You can add new groups and contacts, edit, delete or search for a contact.
 - You can import or export the contact list.
- Please import excel, CSV and other table files, and the first line of the file must be seven fields of:
 - _display_name
 - _office_number
 - _mobile_number
 - _other_number
 - _line
 - _ring_group_id
 - _name
 or the import will fail.
- User Group:
 - If you do not need to change the user group name, the change user group name field can be left blank.

4.3.2.2 Delete blacklist

- Delete the blacklist through the phone interface

1. In standby mode, press the soft key **Menu** -> **Directory** -> **Local Directory**-> **Blacklist**.
2. Press  or  to select the blacklist members to be deleted.
3. Press Option->**Delete/Delete all**.
4. Press the **OK** soft key to delete.



- Delete the blacklist through a web browser

1. Log in to the phone page by IP address.
2. Click **Directories(B)**->**Address list(x)**.
3. Select the blacklist from the drop-down box of the contact list below (BlackList) .
4. Check the blacklist to be deleted.
5. Click the **Delete/Delete All** button under the list to delete the blacklist.

Menu

- Status(S)
- Account(A)
- Network(N)
- DssKey(D)
- Features(U)
- Settings(E)
- Directory(B)
- Address List(x)
- Remote Phone Book(1)
- Phone Call Info(y)
- LDAP(l)
- Multicast IP(2)
- Security(F)

Address book - local contacts

Local contact

Name : Nataly Office Number : 123 Mobile Number : 12345
 Other Number : 123456 Ring : Ring1.wav
 Group Name : Blacklist Account : Account1 Add Edit

Group Setting

Group Name : Select group : All Contacts Ring : Ring1.wav
Add Edit Delete

Bulk Operation

Select the file : Browser Import CSV Export CSV

Index	Name	Office Number	Mobile Number	Other Number	Ring	Blacklist
1	Nataly	123	12345	123456	Ring1.wav	Blacklist
2						
3						
4						
5						
6						
7						
8						
9						
10						

1/1000 Skip to: 1 Delete All Delete Move To Blacklist

Note

- Local Directory
The built-in phone directory can store the names and phone numbers of your contacts. You can add new groups and contacts, edit, delete or search for a contact. You can import or export the contact list.
- Please import excel, CSV and other table files, and the first line of the file must be seven fields of _display_name, _office_number, _mobile_number, _other_number, _ring, _group_id_name, or the import will fail.
- User Group
If you do not need to change the user group name, the change user group name field can be left blank.

4.3.3 LDAP configuration

4.3.3.1 Function Description

LDAP (Light Directory Access Protocol, Lightweight Directory Access Protocol) is an application layer protocol running on an IP network that provides a series of functions for accessing and maintaining distributed directory information services. Simply put, LDAP is a fast way to get centralized static data about people or resources. LDAP is most useful for information stored in this way: data needs to be read from different locations, but does not need to be updated frequently. LDAP is very effective for storing the phone book and organization chart of company employees, and it is especially convenient for querying information.

For example: According to the tree structure, the root of the tree is the company name, and each department can be logically branched underneath, and each employee can be branched out under the department, and contacts can be retrieved within a certain range according to specific rules, such as the name of a company's hardware department. Including "J" employees, etc.

You can configure the phone to connect to an LDAP server that supports LDAPv2 or LDAPv3. The phone supports the following LDAP servers:

- Microsoft Active Directory
- Sun ONE Directory Server
- Open LDAP Directory Server
- Microsoft Active Directory Application Mode (ADAM)

The biggest advantage of LDAP is that users can quickly find contacts from the LDAP server, without the need to maintain a local phone book. The contact information returned by the LDAP server is read-only. Users can call LDAP contacts but cannot add, edit or delete LDAP contacts. The administrator can configure LDAP query filter conditions on the phone, such as the number of contacts displayed, the information returned, and how to sort contacts. How to perform LDAP search on the H680 series IP phone:

Directly enter the search content on the pre-dial/dial interface (make sure that LDAP is enabled for the outgoing contact matching list), and the phone will query from the LDAP server. If there is a result, it will be displayed on the LCD interface, and the user can select a contact and initiate a call.

Press the LDAP programmable button or press Menu->Contacts->LDAP, and enter the content to be searched in the LDAP search interface. The phone will query the relevant contacts from the LDAP server and display them on the LCD interface. The user can select one Contact and initiate a call, or add the contact to the local address book or blacklist.

The phone sends a search request to the LDAP server. The LDAP server searches for all contacts based on the entered search content and configured filter conditions, and then returns the matching results to the phone.

4.3.3.2 Configure LDAP server

The following example is for reference only. You can modify the LDAP attribute value according to your specific needs.

1. Open the web interface and login .
2. Click **Directories(B)->LDAP(I)**.
3. Configure LDAP parameters as following:

The screenshot shows the LDAP configuration interface for the LV switch H680W. The interface is in English and the user is logged in as 'admin'. The menu on the left includes options like Status(S), Account(A), Network(N), DssKey(D), Features(U), Settings(E), Directory(B), Address List(x), Remote Phone Book(1), Phone Call Info(y), LDAP(I), Multicast IP(2), and Security(F). The LDAP configuration page has the following fields:

- Enable LDAP: Enabled
- Label: LDAP
- LDAP Name Filter: CallerIDName=%
- LDAP Number Filter: AccountNumber=%
- LDAP TLS Mode: LDAP
- Server Address: 192.168.2.240:8080
- Port: 389
- Base: dc=pbx,dc=com
- User Name: admin
- Password: [masked]
- Max Hits(1-1000): 50
- LDAP Name Attributes: CallerIDName Email Department FirstNa
- LDAP Number Attributes: AccountNumber MobileNumber HomeNu
- LDAP Display Name: %FirstName
- Protocol: Version3
- LDAP Lookup For Incoming Call: Enabled
- LDAP Lookup for Callout: Enabled
- LDAP Sorting Results: Enabled

Buttons for 'Cancel(c)' and 'Confirm(s)' are located at the bottom of the configuration area. A note on the right states: 'LDAP (Lightweight Directory Access Protocol) is an application protocol for accessing and maintaining information services for the distributed directory over an IP network.'

4.3.3.3 LDAP setting explanation:

LDAP setting	Explanation	Example
--------------	-------------	---------

Enable LDAP	Whether to enable the LDAP function or not	Enable
LDAP LABEL	Fill in the telephone directory name	Telephone Directory
LDAP name filtering	<p>Set whether the phone can search for contact information by "nickname" or "last name".</p> <p>*Represents any letter.</p> <p>%Represents the input string and is used as the prefix of the filter condition.</p>	(CallerIDName=%)
LDAP number filtering	<p>Set whether the phone can search for contact information by "mobile phone number, office number or home number".</p> <p>*Represents any letter.</p> <p>%Represents the input string and is used as the prefix of the filter condition.</p>	(AccountNumber=%)
LDAP Encrypted transmission mode	<p>Set the connection method between the LDAP server and the IP phone:</p> <p>①LDAP</p> <p>②LDAP TLS Start</p> <p>③LDAPS</p>	LDAP
LDAP server address	Fill in the IPPBX address	192.168.17.30
Port	Fill in the port of the LDAP server address.	389
Base	<p>Fill in the root directory node of the LDAP server or a certain phone book node. The LDAP server will search for contacts from this node.</p> <p>①Fill in the directory node of the LDAP server, the LDAP server will search for contacts from all the phone books.</p> <p>②Fill in a phone book node, the LDAP server will search for contacts from this phone book.</p>	dc=pbx,dc=com
User name	Fill in the user name of LDAP server	The user name provided by the LDAP server

Password	Fill in the password of the LDAP server	The password provided by the LDAP server
Max hit (1~1000)	Set the maximum entry of LDAP server search results.	50
LDAP Name Attributes:	Set the name attribute to be obtained. Multiple name attributes can be set, separated by spaces.	CallerIDName Email Department FirstName LastName
LDAP Number Attributes:	Set the attributes of the number to be obtained. Multiple number attributes can be set, separated by spaces.	AccountNumber MobileNumber HomeNumber Fax
LDAP Display Name	Set the display name of LDAP server search results. The display name format must start with %.	%FirstName
Protocol	LDAP server protocol version.	3
LDAP Lookup For Incoming Call	Set whether to perform LDAP search on incoming call numbers.	Enable
LDAP Lookup for Callout	Set whether to search for numbers in the LDAP phone book when making a call.	Enable
LDAP Sorting Results	Set whether to sort the search results in alphabetical or numerical order.	Enable



4.3.3.4 Search LDAP contacts through the address book

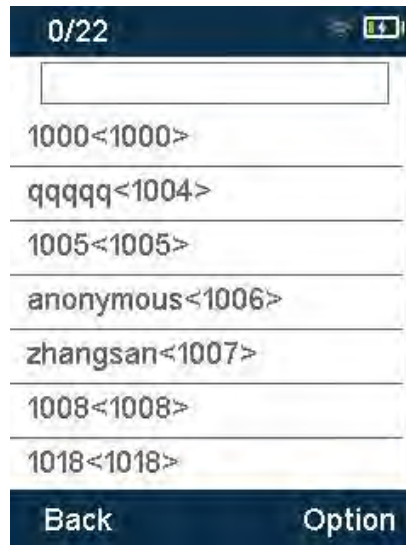
- Enable LDAP address book

1. Log in the phone web interface, click **Directories(B)->LDAP**.
2. Enable LDAP address book.
3. Click **Confirm(s)**.

- Search LDAP contacts.

1. Click **Menu->Directory->LDAP**.
2. Input the name or number of the contact, the contact information that meets the search criteria will be displayed on the screen.



3. Press  or  to select the contact.
4. Press **Send** soft key, and make a call.



4.4 CDR (call history) management

The call history of H680 includes dialed numbers, missed calls, and received calls. Each record supports up to 300 records. You can view, delete, add contacts, and add blacklists to the dialog list. For contact operations, please refer to the chapter on contact management.

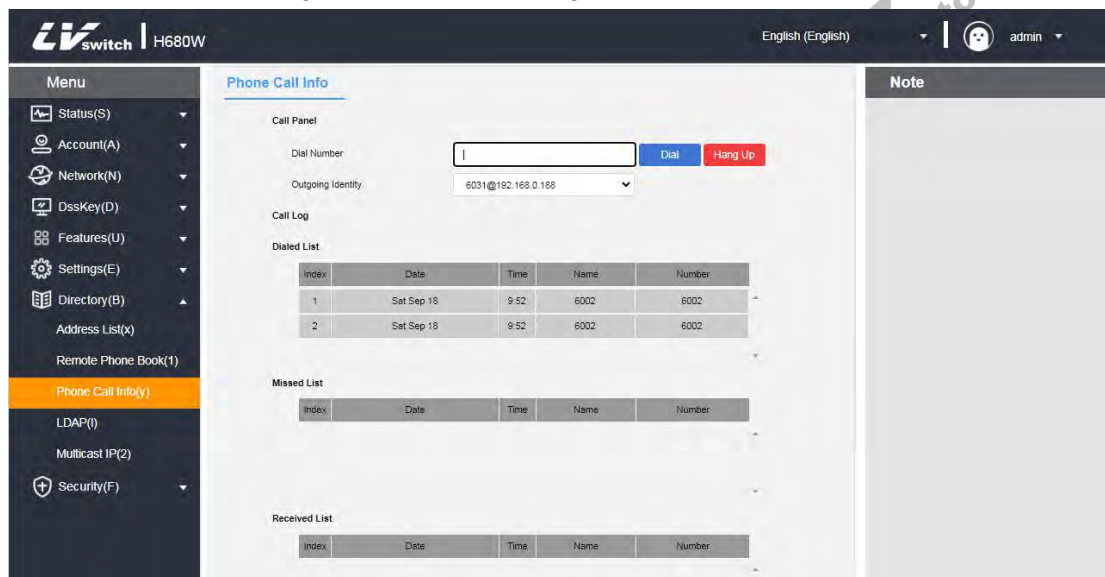
- View the call history through the phone interface

1. Press the History soft key, the number list displayed on the LCD screen is the recent call record.
2. Press  or  to select the call record.
3. Press the soft key Option -> Detail. You can view the details of the record.





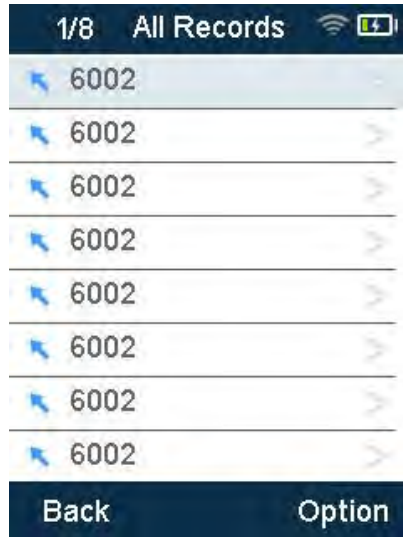
-View CDRs via web browser

- 1.Log in to the phone page through the IP address.
- 2.Click **Directory (B)** ->**Call info (y)** .



- Make a call from the CDRS

- 1.Press the **History** soft key when the phone is in standby.
- 2.Press  or  to select the number going to call.
- 3.Press option->**detail to send out** .



4.5 Accessories customization


H680 can be used with a variety of accessories, the main accessories are as follows:

- Headset

4.5.1 Headset


H680 can use a headset. You only need to connect the headset to activate the headset mode. For the headset installation, please refer to the phone installation chapter.

- Activate headset mode

1. Plug the headset into the phone. The icon in the upper left corner of the LCD screen is changed to a headset icon .

When the phone receives an incoming call, press the Answer soft key to answer the call, and the phone automatically enters the headset call mode. Dial the number and press the send button, the phone will automatically use the headset mode to make a call.

- Exit headset mode:

1. Pull out the headset, the icon in the upper left corner of the LCD screen changes to an account icon .

4.6 System customization



4.6.1 Account management



H680 can register SIP accounts, up to 2 accounts, and make calls through the registered SIP accounts. Dual accounts can make multiple calls at the same time, and switch the account to use by pressing the account key.



4.6.1.1 Account Register



- Register an account through the phone interface

1. Press Menu->**Accounts**.

2. Press  or  to select the account to be configured, and press the **Enter** soft key to enter the configuration interface.

3. The account status can be enabled or disabled by the  or .

4. Press  or  to fill in label, display name, user name, user name, password and sip server, sip server port etc.

5. Press  or  to change the transport method: UDP or TCP.

6. Press save softkey to save the account.



SIP Line	
1.Active Line:	enable
2.Label:	29091
3.Display ...	29091
4.Register ...	29091
5.User Na...	29091
6.Password:	*****
7.SIP Serv...	fs.lvswitches.
8.The port:	63888
<div style="display: flex; justify-content: space-between;"> Back Save </div>	

Note : If you need to register account 2, please repeat steps 2~6.

-Register an account through the web interface

1. Log in to the phone page by IP address .
2. Click Account(A)->Register(r).
3. Submit after filling in (required items: display name, user name, registered account, password, server address, port,transport protocol).

Note If there is a problem that the phone cannot be registered, please check whether the registered information is filled in correctly and whether the phone network is normal. If you need help, please contact your network administrator.

4.7 Dial Plan

Set the dial plan, the phone can dial conveniently according to the grammar set by the dial plan.

Note This function can only be set in the web interface.

4.7.1 Dial plan syntax

Before using the dial plan, you need to understand the dialing grammar. If you are already familiar with the grammar, you can skip this step and check the contents of the dialing plan function.

Symbol description of dialing rules:

Symbol	Description	Example
.	Represents any number of placeholders	Enter "78." match "786" "7856" "78911" "7857713" etc
x	Represents a placeholder	Enter "78x" match "781" "782" "783" "784" ... "789" etc
-	Indicates the interval range	Enter "[7-9]" match "7" or "8" or "9"
[]	Represents the interval range, there is only one [] in the string, used with the-symbol	Enter "12[7-9]45" match "12745" "12845" "12945"
()	Represents a combination of multiple ranges, there are multiple [] in the string.	Enter "([1-2][7-8])" match "17" "27" "18" "28"

4.7.2 Dial plan Function

Dialing rules include the following:

- Replace rule
- Call out immediately
- Area code
- Block out

4.7.2.1 Replace rule

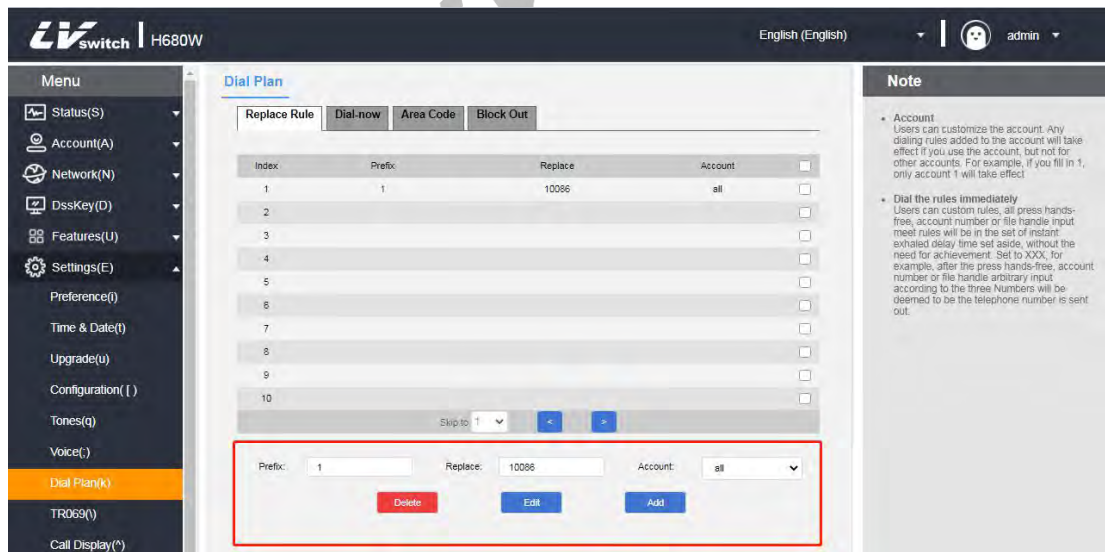
You can customize the replacement rules, up to 100. The replacement rule means that if you enter a string of characters, the phone will automatically replace it with a custom string for you. In practical applications, for example, to set a replacement rule, enter: "1", replace with "10086", when you dial 1 on the phone, press the send soft key or #, the phone will automatically be replaced with 10086 for dialing.

Using replacement rules, IP point-to-point calls can also be made quickly. -

Add replacement rules through the web interface

1. Log in to the phone page through the IP address.

2. Click **Settings (E)** -> **Dial Plan(k)** -> **Replace Rules**.
3. Enter a character string in the prefix field (for example: 1).
4. Enter a character string (for example: 10086) in the replacement area.
5. Select the corresponding account in the account area (account 1/2/all).
6. Click **Add** to add a replace rule.



After adding the above rules, when you dial the number "1", press the Send soft key or # to make the call, the phone will automatically be replaced with "10086" for dialing.

- Modify the replacement rule through the web interface:

1. Log in to the phone interface through the IP address.
2. Click **Settings(E)** -> **Dial Plan(k)** -> **Replace Rules**.
3. In the rule list, select the check box to the right of the rule to be modified.
4. Modify the values in the prefix area and replacement area or account.
5. Click edit button to save the modification.

- Delete one or more replacement rules through the web interface:

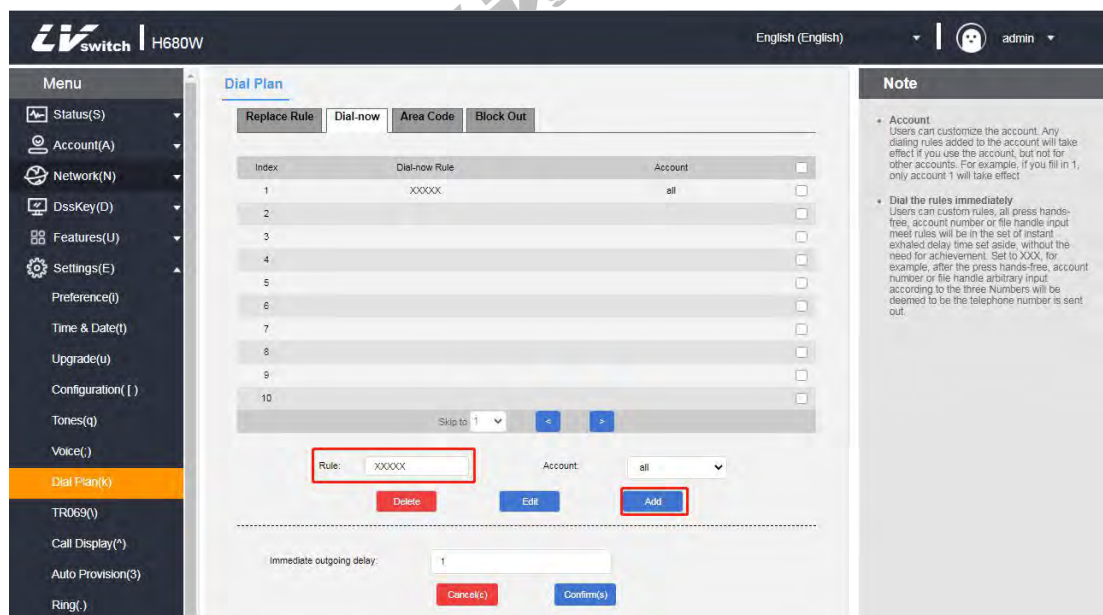
1. Log in to the phone interface through the IP address.
2. Click **Settings(E)** -> **Dial Plan(k)** -> **Replace Rules**.
3. In the rule list, select the check box to the right of the rule to be modified.
4. Click the delete button to delete the rule.

4.7.2.2 Dial now rule

You can customize the immediate outgoing rules, up to 100. Any number that meets the rules entered by pressing the hands-free or off-hook key will be dialed out at the set instant outgoing delay time without pressing the send button. For example, when you set the outgoing rule to xxxxx and the calling account to all (any account), when you dial any five-digit number of 10086, the phone will immediately call 10086 when the outgoing rule is met.

- Add call-out rules via web interface.

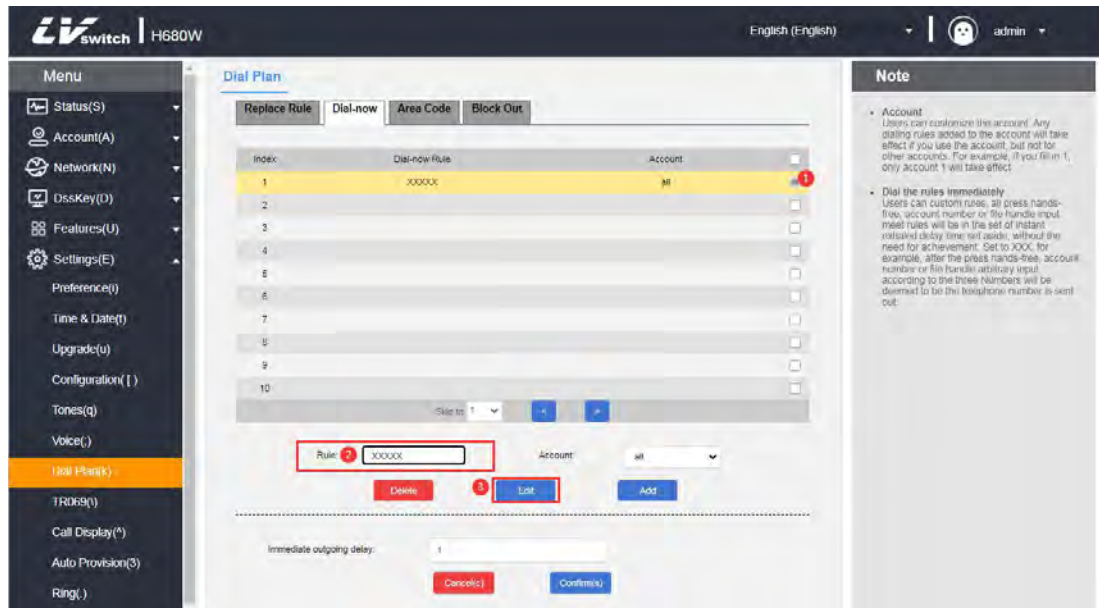
1. Log in to the phone interface through the IP address.
2. Click Setting (E) ->Dial rule (k) ->dial-now.
3. Enter the rule character to be set in the rule input area (such as: xxxxx).
4. For the account, select the account that applies the matching rules (for example, account 1/2/all), and the default value is all (representing all accounts).
5. Click the Add button to save the rule.



When entering any five-digit number such as 10086, the call will be made immediately after waiting for the delay time.

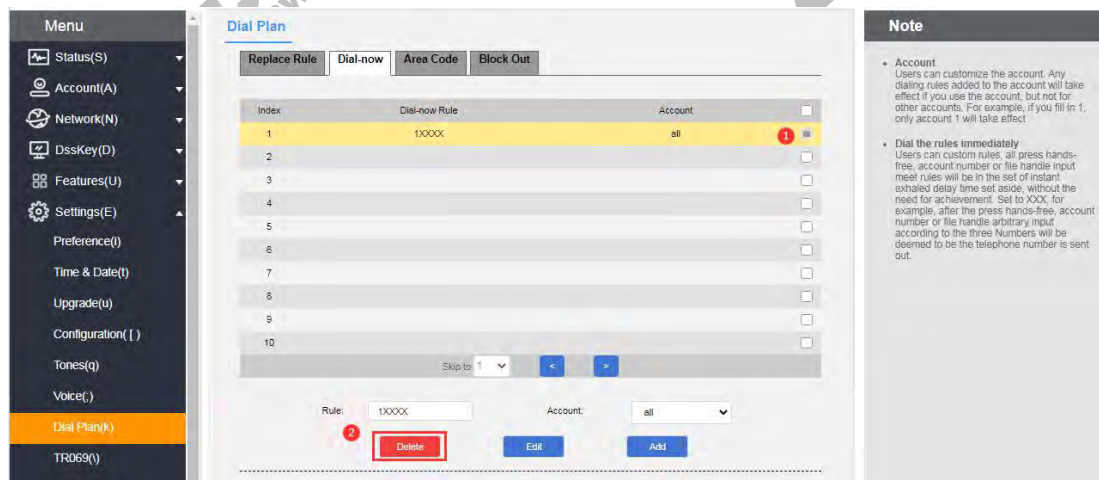
- Modify the outgoing call rule through the web interface

1. Log in to the phone page through the IP address.
2. Click Settings (E) ->Dial plan (k) ->Dial now.
3. Click the rule to be modified in the rule list.
4. Modify the rule in the rule input area, such as: (original: xxxxx --> change: 1xxxx).
5. In the account area, select the account that applies the matching rules (for example, account 1/2/all), and the default value is all (means all accounts).
6. Click the Edit button to save the modified rule.



- Delete the outgoing call rule through the web interface

1. Log in to the phone page through the IP address.
2. Click Settings (E) -> Dial plan (k) -> Dial now.
3. In the rule list, click the rule to be deleted.
4. Click the delete button to delete the rule.



Immediate call delay time

You need to set a delay time for immediate outgoing calls. The default time is 1 seconds, and the setting range is 0~14 (unit: second). When the number entered during dialing meets an immediate outgoing call rule, the phone will automatically after the delay time to call out this number and you don't need to press the send button of the phone.

- Set the delay time for immediate outgoing call through the web interface

1. Log in to the phone interface by IP address.

2. Click Settings (E) ->Dial plan (k) ->Dial now.
3. Fill in the time in the input area for Immediate outgoing delay.
4. Click confirm button to save .

4.7.2.3 Area code

Calls between different regions need to add the area code, and the area code is different in different areas. If you need to dial the phone number of a certain area frequently, you need to manually add the area code prefix of that area. Use this function to automatically add an area code/prefix to your outgoing number.

Note Only one area code can be set for H680.

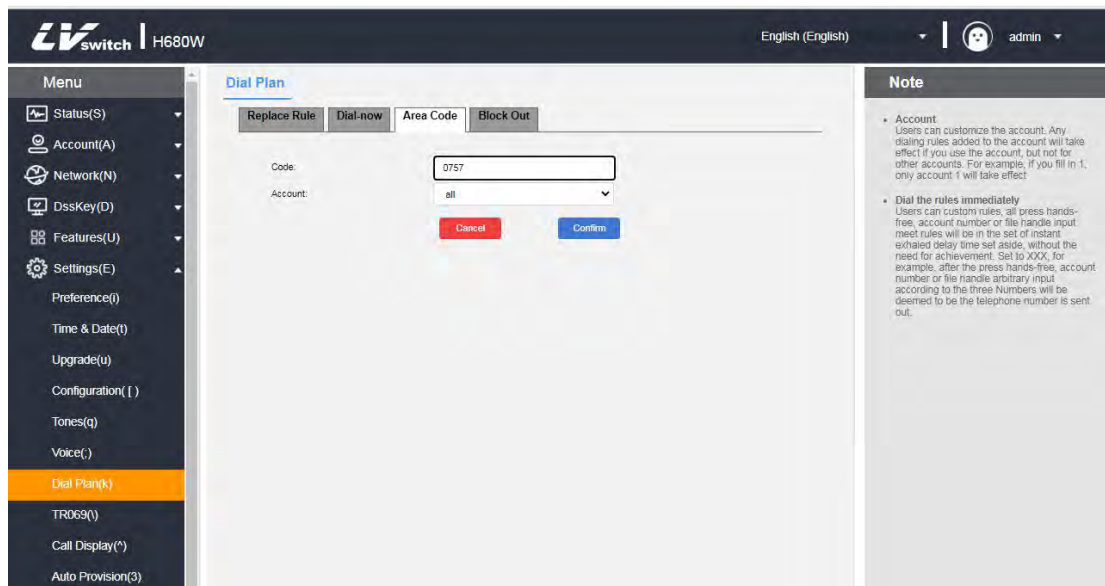
Example:

Set the area code (Length: 1~15 bits)	0757
When you make call (Length: 1~15bits)	12345
The number actually called is changed to	075712345

- Set the area code through the web interface

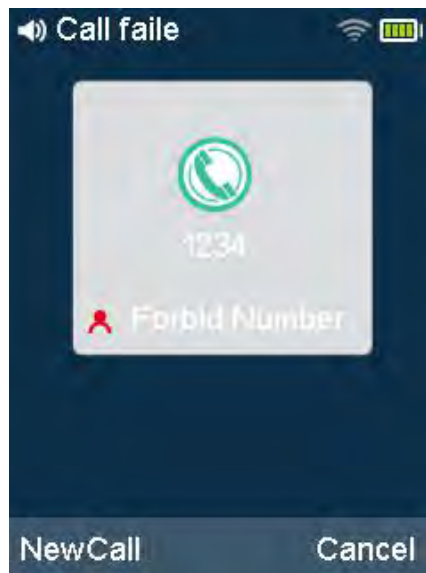
1. Log in to the phone interface through the IP address.
2. Click settings (E) ->Dial plan (k) ->Area code.
3. Fill in the area code in the area code (length range: 1-15 digits).
4. The account can fill in the registered account that matches the area code or

the default value is all (all accounts).



4.7.2.4 Block out

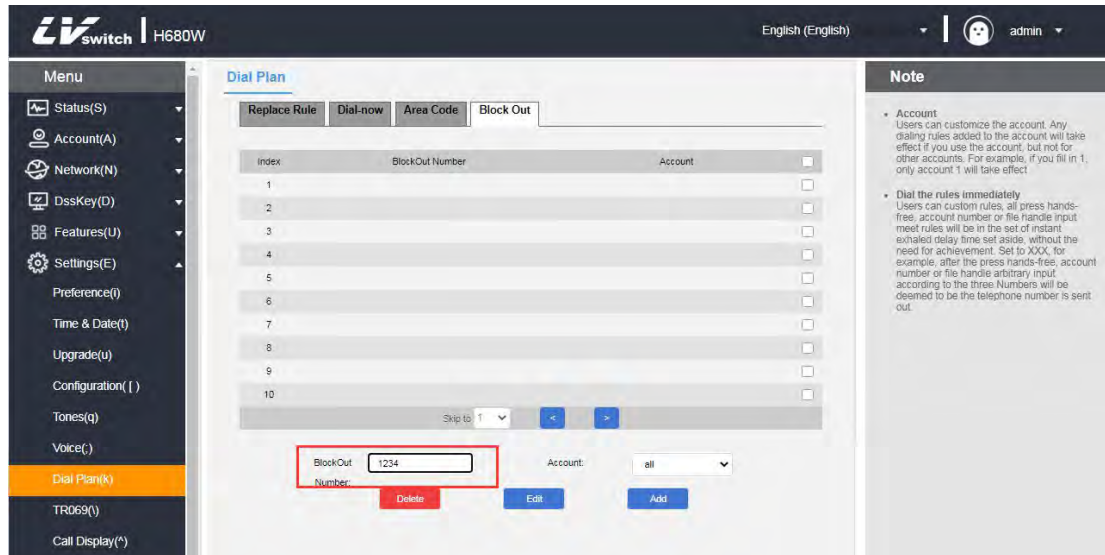
You can set restrictions on outgoing numbers and restrict the phone from dialing certain numbers. H680W supports up to 10 restricted outgoing numbers. When the number you call matches the rule, the phone LCD will display the words "Forbidden Number".



- Add call restrict number through web interface

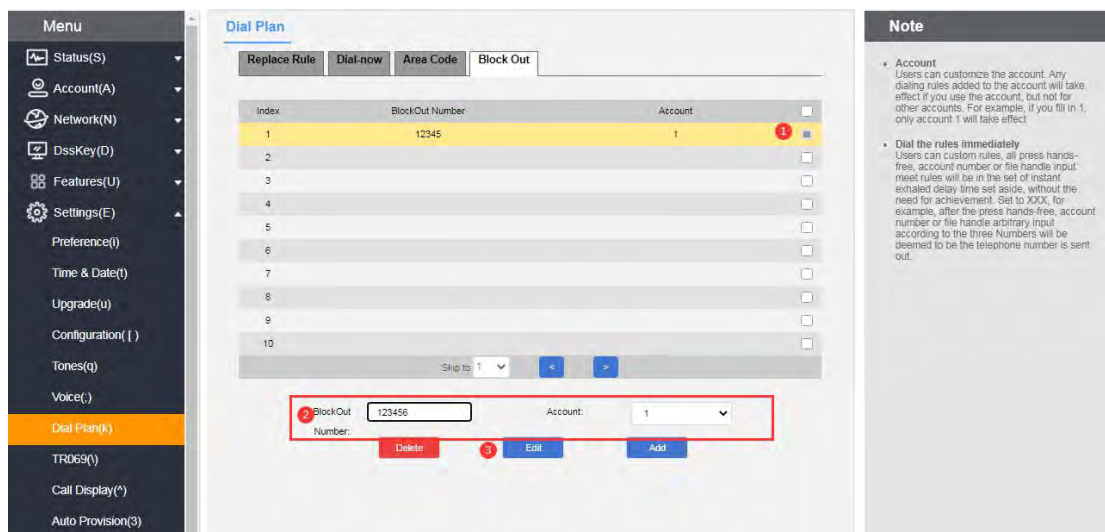
1. Log in to the phone interface through the IP address.

2. Click settings (E) ->Dial rule (k) ->block out.
3. The blocked number field fills in the number to be restricted from calling.
4. Enter the registered account that restricts calls.(Account 1/2/all)
5. Click the Add button to save the rule.



- Modify the rules for restricting outgoing calls through the web interface

1. Log in to the phone page through the IP address.
2. Click settings (E) ->Dial plan (k) ->Block out.
3. In the list of restricted outgoing call rules, click on the rule to be modified.
4. Modify the rule in the rule input area, such as: (original: 1234 --> changed: 123456).
5. Fill in the account number matching the rules in the account area (for example: account 1/2/all), the default value is all (representing all accounts).
6. Click the edit button to save the modified rule.



- Delete the restricted outgoing call rule through the web interface

1. Log in to the phone page through the IP address.
2. Click Settings (E) ->Dial plan (k) ->Block out.
3. In the list of restricted outgoing rules, click the rule to be deleted.
4. Click the delete button to delete the rule.

The screenshot shows the 'Dial Plan' configuration page with the following elements:

- Menu:** A sidebar on the left with options: Status(S), Account(A), Network(N), DssKey(D), Features(U), Settings(E), Preference(I), Time & Date(I), Upgrade(u), Configuration(I), Tones(q), Voice(e), Dial Plan(k) (highlighted), TR069(I), Call Display(*), and Auto Provision(3).
- Dial Plan:** The main content area with tabs: Replace Rule, Dial now, Area Code, and Block Out (selected). Below the tabs is a table of rules:

Index	Block-Out Number	Account	
1	123456	1	<input checked="" type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>
10			<input type="checkbox"/>

Below the table are navigation buttons: Skip to 1, <, and >. At the bottom, there are input fields for BlockOut Number (123456) and Account (1), and buttons for Delete, Edit, and Add. The Delete button is highlighted in red.
- Note:** A sidebar on the right with two notes:
 - Account:** Users can customize the account. Any dialing rules added to the account will take effect if you use the account, but not for other accounts. For example, if you fill in 1, only account 1 will take effect.
 - Dial the rules immediately:** Users can custom rules; all press hands-free, account number or file handle input meet rules will be in the set of instant extended delay time set aside, without the need for achievement. Set to XXX, for example, after the press hands-free, account number or file handle arbitrary input according to the three Numbers will be deemed to be the telephone number is sent out.

5. Basic functions

This chapter mainly introduces the basic functions of the H680 phone. The contents are as follows:

- [5.1 Make a call](#)
- [5.2 Answer a call](#)
- [5.3 End a call](#)
- [5.4 Redial](#)
- [5.5 DND](#)
- [5.6 Call forward](#)
- [5.7 Call transfer](#)

- [5.8 Call waiting](#)

- [5.9 Auto Redial](#)

- [5.10 Auto Answer](#)

- [5.11 Anonymous Call](#)
- [5.12 Hotline](#)
- [5.13 QR code](#)

- [5.14 Conference](#)

- [5.15 Upgrade](#)

5.1 Make a call

The way to make a call can be ①Manual dialing, ②Call bills, local contact selection number dialing.

For the dialing method of CDRs and local contacts, please refer to [Contact Management and CDR Management](#).

H680 can use three tools to talk:

- Handset
- Headset

- Hands-free

- Use the handle to make a call

You can use any of the following methods:

Way 1	Way 2
1. When the phone is in standby state,press the off-hook button 	1.Enter the number when the phone is in standby mode.
2.Press the Line soft key to select the account.	2.Press the Line soft key to select the account.
3. Enter the number.	2.Press , or off-hook key to dial out the number.
4.Press , or off-hook key to dial out the number.	

Note The phone's default call-out key is #, you can also set it to * or not set this key as the call-out key. For the detailed setting method, please refer to the section of the call-out key.








- Use the headset to make a call

You can use any of the following methods:

Way 1
1.Connect the headset to enter headset mode
2. Enter the number
3.Press , or off-hook key to dial out the number.

- Use the speaker to make a call

You can use any of the following methods:

Way 1	Way 2
1. Press the speaker key  to enter into dial interface	1. Enter the number when the phone is in standby mode.
2. Press the Line soft key to shift the account.	2. Press the Line soft key to shift the account.
3. Input the number	3. Press  ,  or speaker  to call out the number.
3. Press  ,  or speaker  to call out the number.	

5.2 Answer a call


H680 can use three tools to answer calls:

- Handset
- Headset
- Hands-free

- Use the handset to answer the call

Press the off-hook key when the phone is ringing.

- Use hands-free to answer calls

When the phone calls, press the answer soft key or the hands-free  key.

- Use a headset to answer calls

When the phone calls
After inserting the headset to activate the headset mode, press the off-hook key

to answer.

- Reject call


Press the **Reject** soft key to reject the incoming call.

If DND is set, you can automatically reject incoming calls. For details, please see the DND section.

5.3 End a call

If you want to hang up during a call, you can use the following methods:

Use the handset or headset to make a call: press the Hang Up soft key.

Use hands-free call: press the hang up soft key or hands-free key .



5.4 Redial

The phone can quickly redial the last call or any call, the specific operations are as follows:

- Redial using the handset

1. Press the off-hook key .
2. Press the off-hook key  again to dial the last call.

- Redial using the hands-free

1. Press the hands-free  key.
2. Press the off-hook  key to dial the last call.


- Redial using the headset

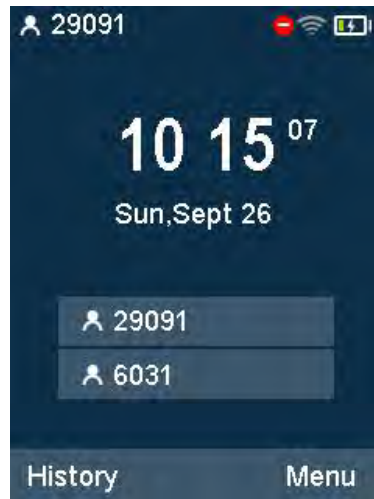
1. Insert the headset to activate the headset mode and press the off-hook button.

2. Press the off-hook key again to make the last call in headset mode.

5.5 DND

You can set the phone to the DND mode. After setting the DND mode, the phone

will display an icon  in the upper right corner. When the phone receives an incoming call, it will not ring and inform the other party of the busy tone and display the message of missed calls on the phone. As shown below:

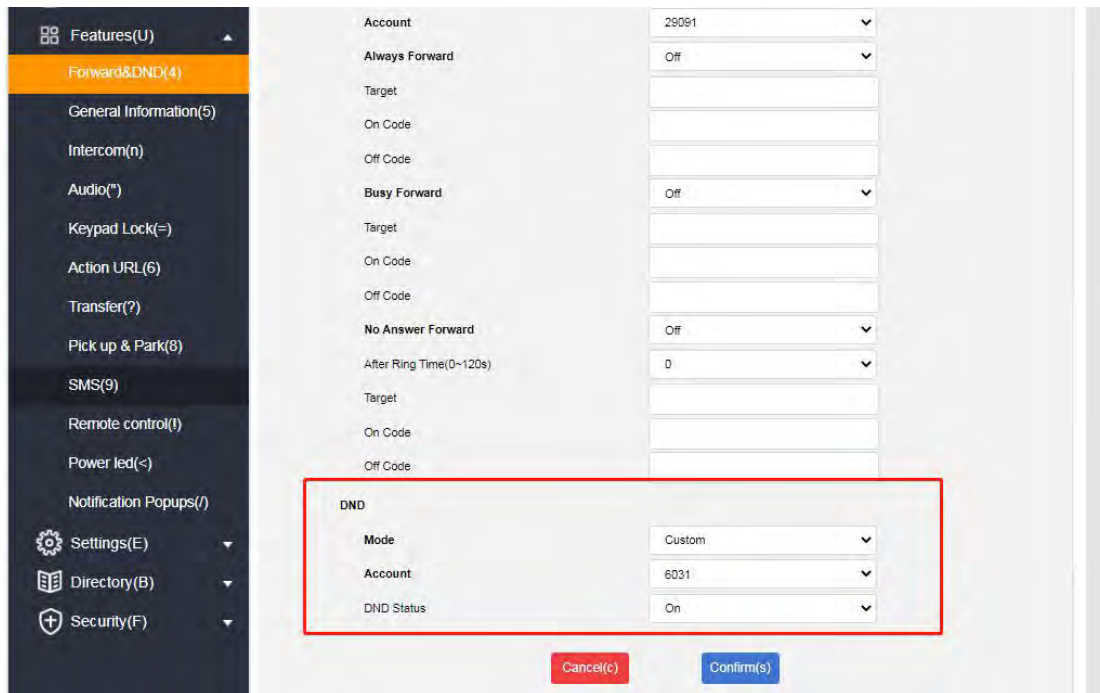


There are two modes of Do Not Disturb to choose from:

- Phone DND (factory default mode): Enabling this mode will enable DND for all accounts.
- Custom Do Not Disturb: You can choose a designated account to set up Do Not Disturb.

- Set DND mode via web interface

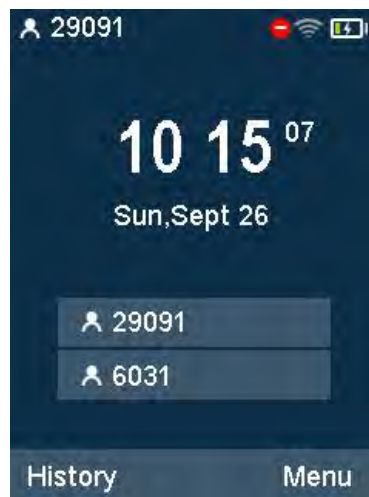
1. Login web interface.
2. Click Features(U)->Forward&DND(4).
3. Select the dnd mode in the DND setting area.Phone or custom.
- 4.If you choose the custom mode, select the extension number that you want to enable Do Not Disturb.
5. DND status is set to on.
6. Click confirm to save the opeartion.




Note Do not disturb mode switching can only be set on the web interface.

- In phone mode, enable DND on the phone interface

1. Press Menu->Features->Do Not Disturb when the phone is in standby.
2. Press the switch soft key to switch.
3. Finally, press the Save soft key to save the operation.



After enabling the DND mode, there will be a  label on the right corner of the ip phone.

- In custom mode, enable DND on the phone interface

1. When the phone is in standby, press Menu -> Features -> DND to enter the custom DND setting interface.

2. Press  or  to select the account.

3. Press  or  key to select enable.

4. Press save soft key or  key to save the operation.



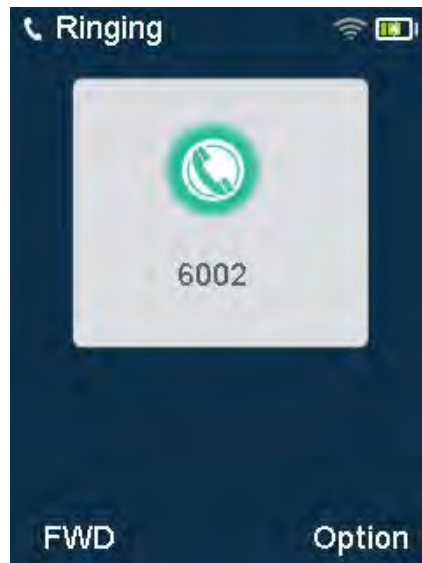
5.6 Call Forward

After the call forwarding is set to be enabled, the IP phone will automatically transfer to the other landline or mobile phone that is set for external calls. There are two types of call transfer. When the phone rings an incoming call, press the **FWD** soft key to dial the number transfer (active transfer), when the phone has an incoming call, it will automatically transfer to the preset number (auto transfer).

5.6.1 Active transfer

- Transfer operation process

1. When there is an external call, the phone is ringing.
2. Press the **FWD** soft key.



3. Enter the number to be transferred.

4. Press **OK** button/send button (* #) /or send softkey to transfer the incoming call.

5.6.2 Auto transfer

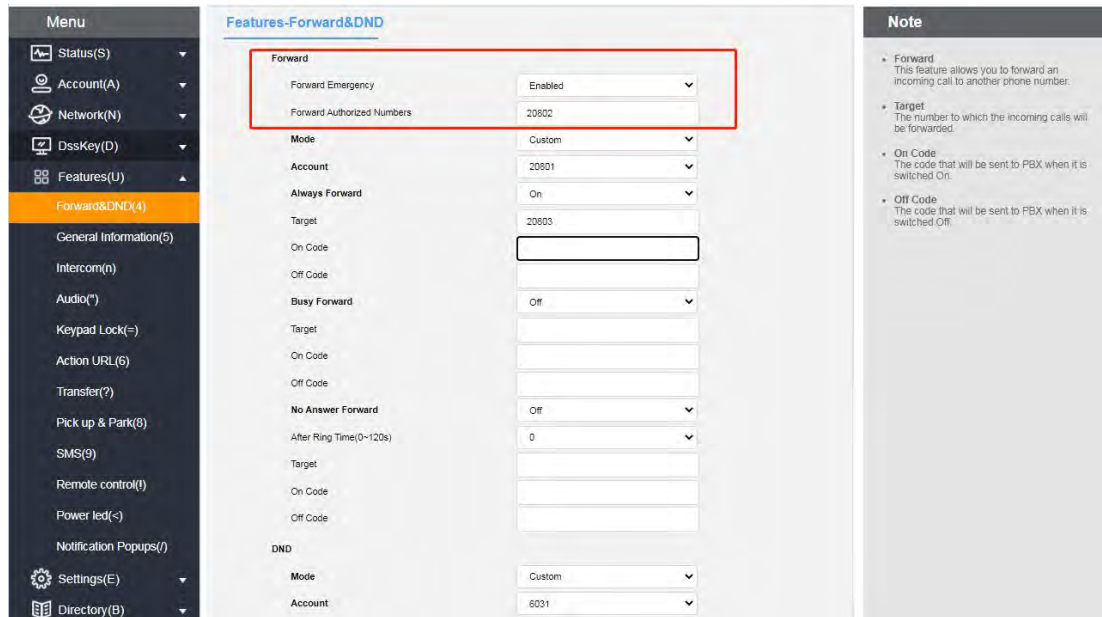
Automatic transfer is mainly divided into the following types:

- Unconditional transfer: all incoming calls on the phone will be transferred to the preset number.
- Busy transfer: When the phone is busy, the incoming call will be transferred to the preset number.
- No answer transfer: when no one answers the call during the ringing, it will transfer to the preset number after timeout.

-Set the call forwarding authentication number through the web page interface:

1. Click Features (U) -> Forward&DND (4);
2. Enable call forwarding emergency numbers in the call forwarding area;
3. Enter the corresponding number in the call forwarding authentication number area, and separate multiple numbers with ",";
4. Click confirm button to save the operation.

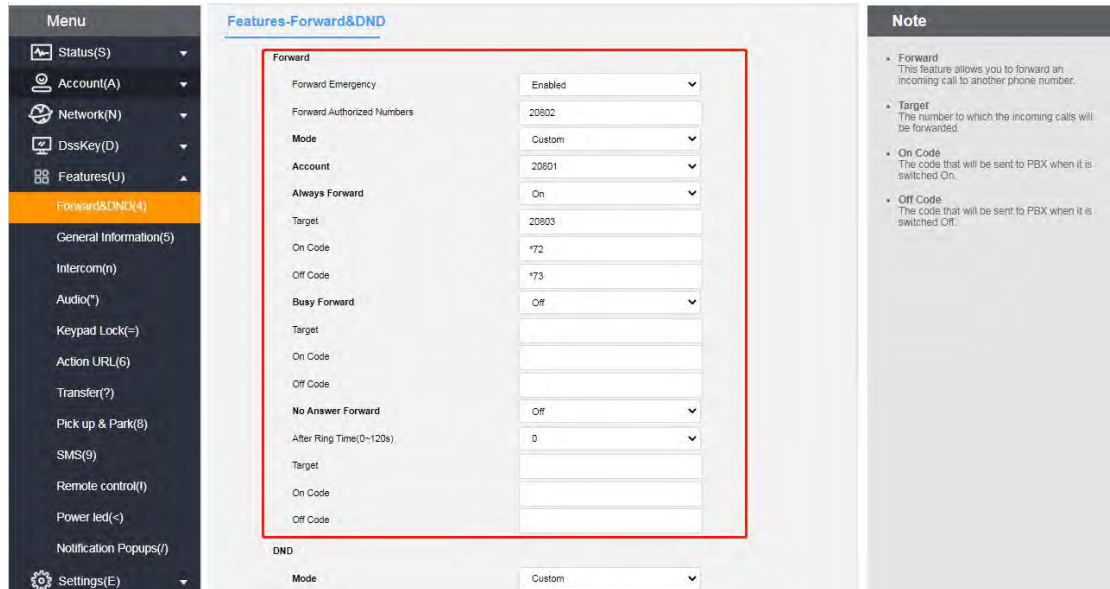
After the authentication number is turned on, the number will not be transferred to the phone, and the authentication number is common to the account;







- Set up call forwarding via web interface

1. Press Features (U) -> **Forward&DND (4)** .
2. Select the mode in the call forwarding mode area: Custom: Custom mode can enable the call forwarding function for the specified account or all accounts; Phone mode: The call forwarding function will be applied to all accounts on the phone.
3. Select the transfer method to be set as required, and select Enable.
4. Fill in the destination number to be transferred.
5. Set the feature on and off code.(Optional)
6. Click the confirm button to save.

Note: If the call forwarding feature code is configured, the phone will send the corresponding feature code to the server. For example: set the feature code for unconditional transfer on to *72, the feature code for off unconditional transfer to be *73, and the transfer number to 1000. When you turn on unconditional transfer, the phone sends *721000 to the server, and when it is off, it sends *731000 to the server. Synchronously turn on/off the unconditional transfer function.





- Set up call forwarding through the phone interface

1. Press Menu->**Features**->**Call forward**.
2. Select the transfer method to be set according to your needs:
 - ✧ Always forward
 - 1) Press  or  to select enter into Always forward.
 - 2) Press  or  to select enable.
 - 3) Fill in the number for unconditional transfer.
 - 4) Enter the on Feature code and off Feature code in the feature code area(Optional).
 - 5) Press save softkey to save the operation.



✧ Busy Forward

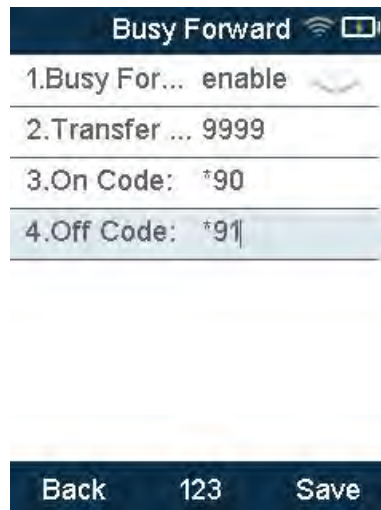
1) Press  or  to select enter into Busy forward.

2) Press  or  to select enable/disable.



3) Fill in the number for call transfer on busy.

4) Enter the on Feature code and off Feature code in the feature code area(Optional).



5) Press save softkey to save the operation.

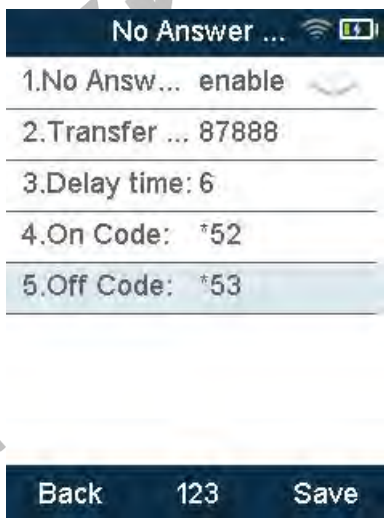


✧ No answer forward

1) Press  or  to enter No answer forward.

2) Press  or  to select enable/disable.

- 3) Fill in the number for call transfer on no answer.
- 4) Press  or  to select no answer time before transfer, fill in the waiting time before transfer, the default value is 6s.
- 5) Enter the on Feature code and off Feature code in the feature code area (Optional).
- 6) Press save soft key to save the operation.



After the call forwarding function is enabled, the LCD screen of the phone will display an icon for enabling call forwarding when the phone is in standby.



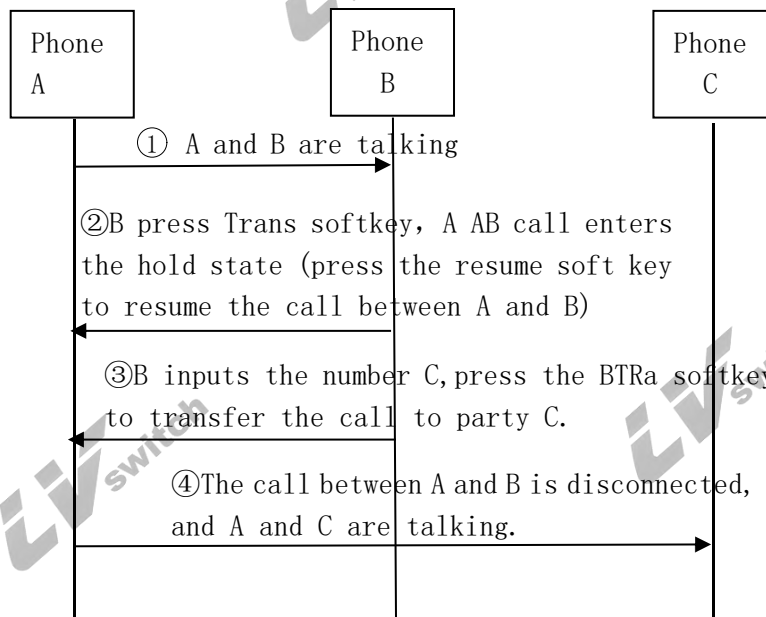
Note If you have set the call forwarding function in advance, you can quickly turn on/off call forwarding by pressing the Trans button on the phone panel.

5.7 Call transfer

The call transfer can be divided into the following types:

- Blind transfer: There is no need to negotiate with the transferee, and directly transfer to the other party.
- Inquiry transfer: After negotiating with the transferee and agreeing to transfer, the call will be transferred to the other party.

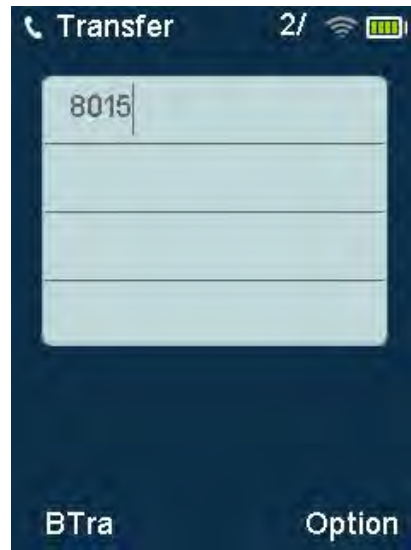
5.7.1 Blind transfer







Blind transfer call flow chart

- Blind transfer operation process:

1. Phone A and Phone B are talking.
2. Phone B press Trans softkey or Trans button.
3. The called number for blind transfer can be entered in the following two ways:
 - a) Enter the number directly
 - 1) B enters the number of phone C to be transferred. After entering the number, the **BTRa** soft key appears on the LCD screen of phone B.
 - 2) Press the **BTRa** soft key on phone B.
 - 3) The call between phone B and phone A will be interrupted, and the call will be transferred to phone C.



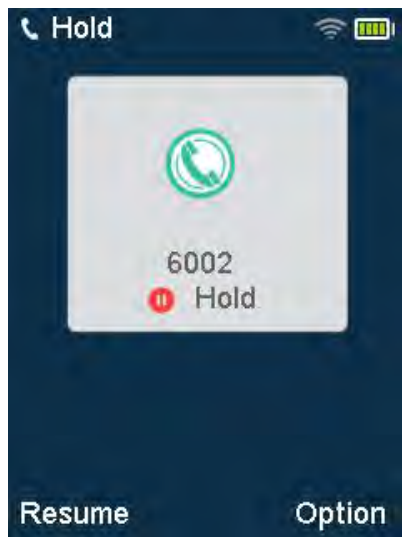
- b) Select number by contact
- 1) B press the Dir soft key.
 - 2) Press  or  to select the group, press **Enter** soft key into the group.
 - 3) Press  or  to select the contact you want to transfer, and press the **Send** soft key.
 - 4) Press Trans soft key to blind transfer.
 - 5) The call between phone B and phone A will be interrupted, and the call will be transferred to phone C.



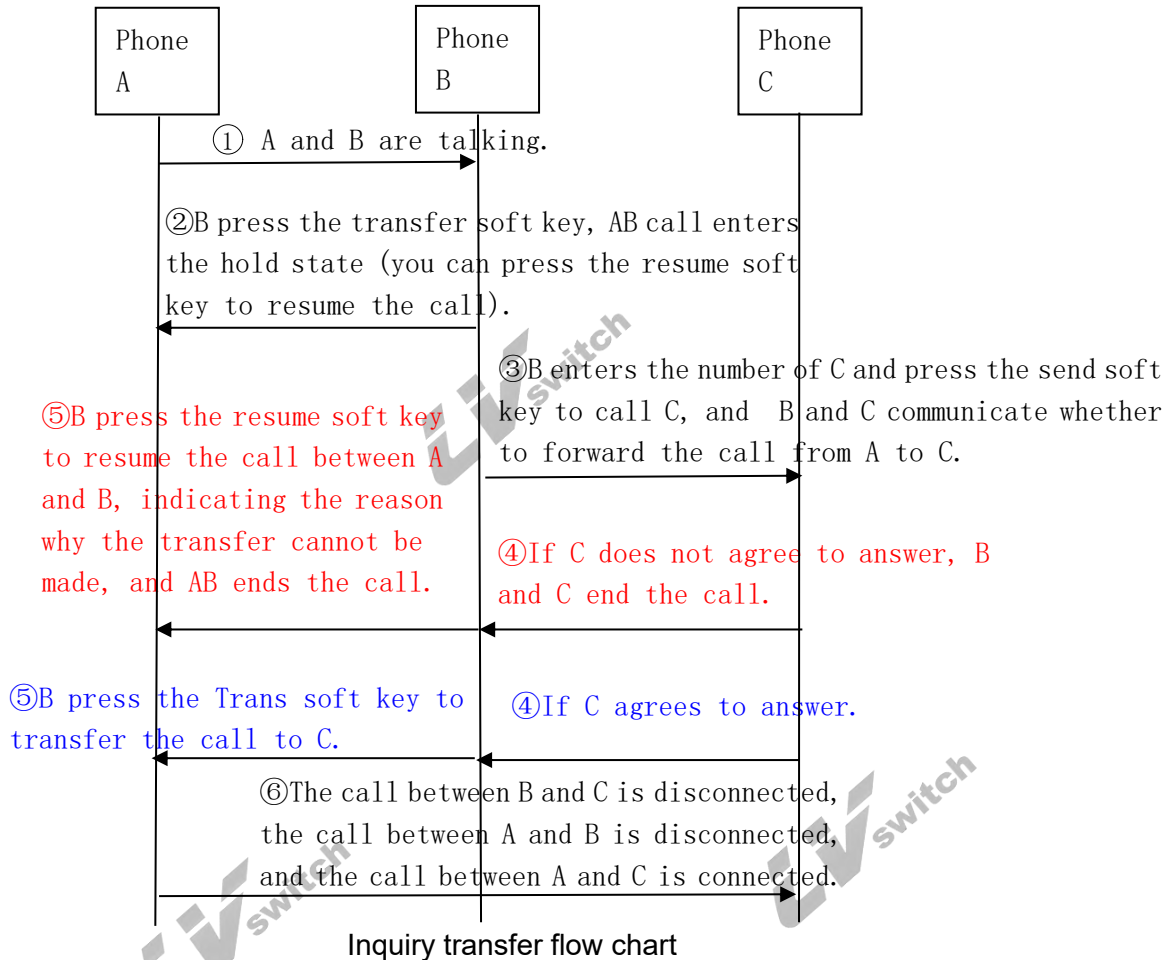
- Cancel the blind transfer operation process:

When phone A and phone B are in a conversation, after phone B presses the Trans

soft key, phone B and phone A enter the call hold state, and the caller will hear the call hold ringtone. If you want to exit the transfer operation, press the resume soft key to resume the call between phone B and phone A.



5.7.2 Inquiry transfer



- Inquiry transfer operation process:

1. Phone A is talking to phone B.
2. Press the Trans soft key or Transfer button on phone B.
3. Enter the number C of the transferred phone, and the LCD screen displays the Send soft key.
4. Press the Send soft key. Phone B talks with phone C and asks if phone C wants to accept the call from phone A.
5. Divided into the following two situations:
 - a) Phone C cannot answer the call
 - 1) Phone C refuses to answer A's call or phone C is unanswered.
 - 2) Phone B and phone C end the call.
 - 3) Phone B presses the Resume soft key to resume the conversation with phone A and informs that phone A cannot answer.
 - 4) The transfer is ended.

- c) Phone C can answer the call
 - 1) After the negotiation between phone B and phone C is completed, phone C can answer the incoming call of phone A.
 - 2) Phone B presses the Trans soft key.
 - 3) The call between phone B and phone A will be interrupted, the call will be transferred to phone C, and phone A and C will talk.

5.8 Call waiting

If you enable the call waiting function, you can receive new calls during the call, otherwise the new calls will be automatically rejected during the call. If you turn on the function of playing the alert tone, the phone will receive a new call during the call. The "beep" tone will sound, and there will be no such reminder for new incoming calls.

-Set up the call waiting via web interface

1. Click Meun→Features(U)→General Information(5)
2. Enable call waiting, set the feature code on/off (different PBX feature codes are different);
3. Press confirm button to save the operation or cancel button to cancel.;

If the call waiting on /off feature code has been set, when enable/disable call waiting the phone will send the feature code to the server with the default account (only the default account but not all accounts), and the call waiting will be turned on and off simultaneously;

If the phone has not set the feature code:

When the server enable call waiting, the phone enables and disables call waiting normally.

When the server disable call waiting, the phone enable the call waiting invalid.

Menu	Features-General Information	Note																																						
<ul style="list-style-type: none"> Status(S) Account(A) Network(N) DssKey(D) Features(U) Forward&DND(4) General Information(5) Intercom(n) Audio(*) Keypad Lock(=) Action URL(6) Transfer(?) Pick up & Park(8) SMS(9) Remote control(!) Power led(<) Notification Popups(/) 	<table border="1"> <tr> <td>Call Waiting</td> <td>Enabled</td> </tr> <tr> <td>Call Waiting On Code</td> <td>*70</td> </tr> <tr> <td>Call Waiting Off Code</td> <td>*71</td> </tr> <tr> <td>Auto Redial</td> <td>Enabled</td> </tr> <tr> <td>Auto Redial Interval (1~300s)</td> <td>10</td> </tr> <tr> <td>Auto Redial Times (1~300)</td> <td>10</td> </tr> <tr> <td>Accept SIP Trust Server Only</td> <td>Disabled</td> </tr> <tr> <td>Key As Send</td> <td>#</td> </tr> <tr> <td>Reserve # in User Name</td> <td>Disabled</td> </tr> <tr> <td>Hotline Number</td> <td></td> </tr> <tr> <td>Hotline Delay(0 ~ 10s)</td> <td>0</td> </tr> <tr> <td>Busy tone duration (seconds)</td> <td>5</td> </tr> <tr> <td>Return Code When Refuse</td> <td>486 (Busy Here)</td> </tr> <tr> <td>Return Code When No Answer</td> <td>486 (Busy Here)</td> </tr> <tr> <td>Return Code When DND</td> <td>480 (Temporarily Unavailable)</td> </tr> <tr> <td>Call Completion</td> <td>Disabled</td> </tr> <tr> <td>100 Ring Workaround</td> <td>Disabled</td> </tr> <tr> <td>Logon Wizard</td> <td>Disabled</td> </tr> <tr> <td>PswPrefix</td> <td></td> </tr> </table>	Call Waiting	Enabled	Call Waiting On Code	*70	Call Waiting Off Code	*71	Auto Redial	Enabled	Auto Redial Interval (1~300s)	10	Auto Redial Times (1~300)	10	Accept SIP Trust Server Only	Disabled	Key As Send	#	Reserve # in User Name	Disabled	Hotline Number		Hotline Delay(0 ~ 10s)	0	Busy tone duration (seconds)	5	Return Code When Refuse	486 (Busy Here)	Return Code When No Answer	486 (Busy Here)	Return Code When DND	480 (Temporarily Unavailable)	Call Completion	Disabled	100 Ring Workaround	Disabled	Logon Wizard	Disabled	PswPrefix		<p>Note</p> <ul style="list-style-type: none"> Call Waiting This call feature allows your phone to accept other incoming calls during the conversation. Key As Send Select * or # as the send key. Hotline Number When you pick up the phone, it will dial out the hotline number automatically.
Call Waiting	Enabled																																							
Call Waiting On Code	*70																																							
Call Waiting Off Code	*71																																							
Auto Redial	Enabled																																							
Auto Redial Interval (1~300s)	10																																							
Auto Redial Times (1~300)	10																																							
Accept SIP Trust Server Only	Disabled																																							
Key As Send	#																																							
Reserve # in User Name	Disabled																																							
Hotline Number																																								
Hotline Delay(0 ~ 10s)	0																																							
Busy tone duration (seconds)	5																																							
Return Code When Refuse	486 (Busy Here)																																							
Return Code When No Answer	486 (Busy Here)																																							
Return Code When DND	480 (Temporarily Unavailable)																																							
Call Completion	Disabled																																							
100 Ring Workaround	Disabled																																							
Logon Wizard	Disabled																																							
PswPrefix																																								

5.9 Auto redial

If you enable automatic redial, the phone will display an automatic redial prompt on the LCD interface after the call fails. You can also set the automatic redial time interval and the number of automatic redials.

-To set automatic redial via the phone interface:

1. Press Menu → Features → Auto redial;
2. Select to enable automatic redial, set the automatic redial interval (unit second, default 10, range 1-300), set the numbers of redials (default 10 range 1-300);
3. Press save key to save the operation or back key to cancel the operation.



-Set the auto redial via the web interface:

1. Press Features (U) → General information(5);
2. Select to enable auto redial, set the autore dial interval (unit second, default 10, range 1-300), set the numbers of redials (default 10 range 1-300);

3. Click the confirm button to save.

The screenshot shows the web interface for the LV switch H680W. The 'Features-General Information' section is active. The 'Auto Redial' settings are highlighted with a red box:

Setting	Value
Auto Redial	Enabled
Auto Redial Interval (1~300s)	10
Auto Redial Times (1~300)	10

Other visible settings include:

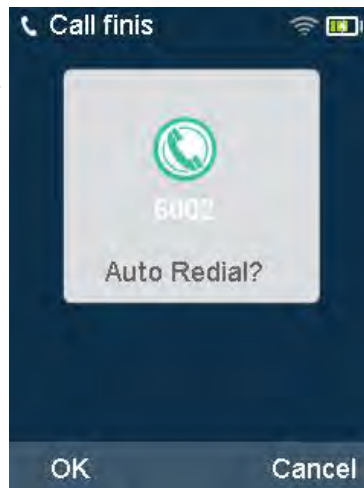
- Call Waiting: Enabled
- Call Waiting On Code: [Empty]
- Call Waiting Off Code: [Empty]
- Accept SIP Trust Server Only: Disabled
- Key As Send: #
- Reserve # in User Name: Disabled
- Hotline Number: [Empty]
- Hotline Delay(0 ~ 10s): 0
- Busy tone duration (seconds): 5
- Return Code When Refuse: 486 (Busy Here)
- Return Code When No Answer: 486 (Busy Here)
- Return Code When DND: 480 (Temporarily Unavailable)
- Call Completion: Disabled
- 180 Ring Workaround: Disabled
- Logon Wizard: Disabled
- PeerPrefix: [Empty]

A 'Note' section on the right provides additional information:

- Call Waiting**: This call feature allows your phone to accept other incoming calls during the conversation.
- Key As Send**: Select * or # as the send key.
- Hotline Number**: When you pick up the phone, it will dial out the hotline number automatically.

Use auto redial function:

When the phone call fails, the phone LCD interface prompts as follows:





5.10 Auto Answer

You can set up the auto answer function for the registered account of the phone. When the account with auto answer turned on receives an incoming call, the phone will automatically answer the call after the set auto answer waiting time.

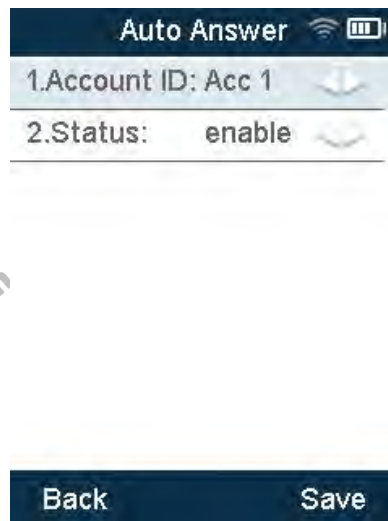
- Set auto answer via phone interface


1. Press **Menu->Features->Auto Answer**.

2. Press  or  key to select the auto answer account.

3. Press  or  key to switch the enabled or disabled state.

4. Press the **Save** soft key to save the operation.



After the phone is enabled for automatic answering, an automatic answering icon  appears on the standby display interface of the phone, indicating that the phone is in automatic answering state. When the phone is in a call, it will no longer answer automatically.



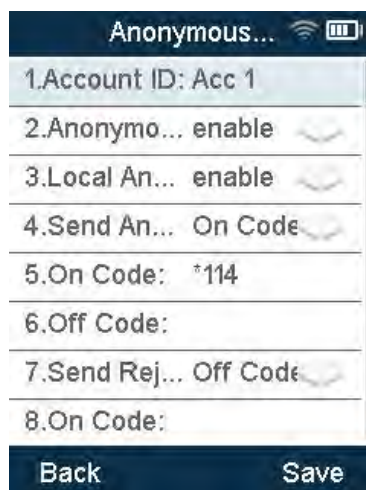
5.11 Anonymous Call

The phone can enable the anonymous rejection function. When there is an anonymous call, it will automatically reject the call. If the server supports the anonymous rejection function, you can also turn on/off the anonymous rejection function of the account by dialing the service code of the server.

- Set the anonymous call and anonymous rejection function through the phone interface

- Set the anonymous rejection function through the phone interface

1. Press **Menu** ->**Features**->**Anonymous Call**.
2. Select the corresponding account, press **Enter**.
3. Press the left or right navigation key to switch the enabled or disabled state.
4. Press the **Save** soft key to save the operation.



5.12 Hotline

You can set frequently dialed numbers as hotlines. When using the hotline, when you press the off-hook key or press the handsfree key for dialing operations, after waiting for the hotline delay time, the phone will automatically dial the set hotline number. If the delay time is set to 0, the hotline number will be automatically dialed out immediately when dialing.

- Set the hotline function through the phone interface

1. Press **Menu**->**Features**->**Hotline**.

2. Fill in the hotline number.
3. Fill in the hotline delay time,fill in the number of seconds after picking up the phone to automatically call the hotline.(Default is 0)
4. Press the **Save** soft key to save the operation.

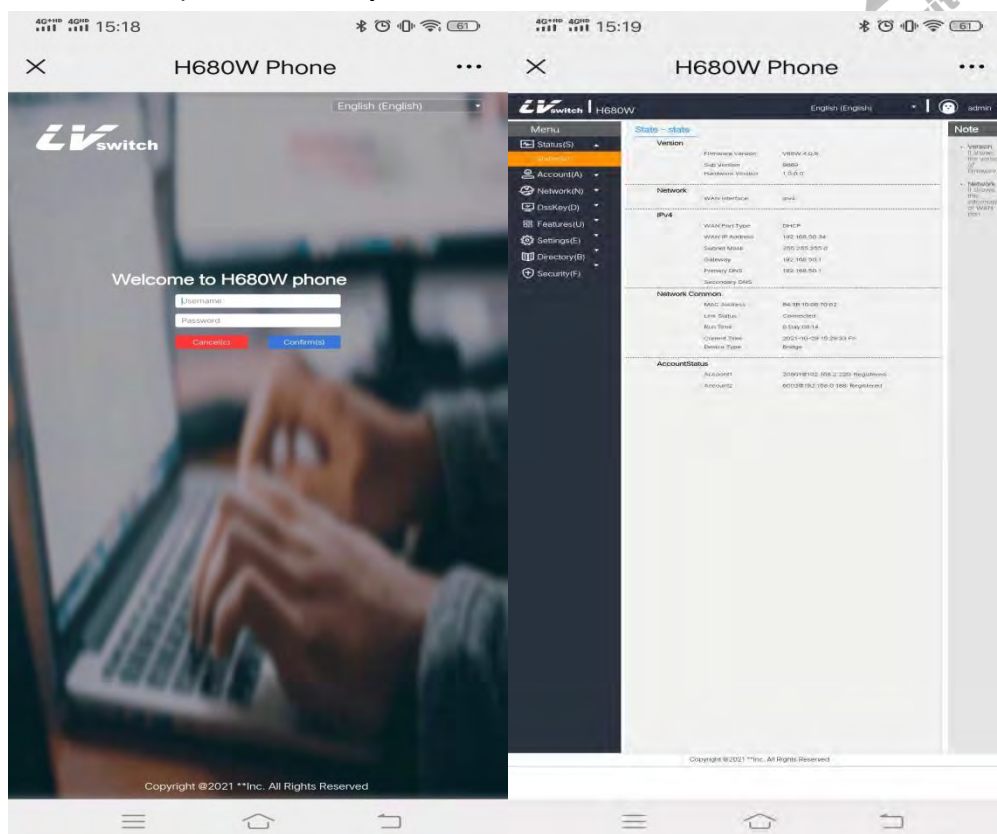


5.13 QR Code

H680 supports scanning the QR code provided by the phone through a smart phone to enter the web interface, so as to configure the phone information on the phone. Before scanning the QR code, the phone must be connected to the local area network to which the phone belongs, and in the same network segment as the phone, such as connected to the WIFI of the router



The interface of the mobile phone login phone belongs to the following figure. The specific usage method is the same as that of the computer web page. If you want to know the configuration method of each function, please check the function introduction of each chapter. If you have any questions about the use of the QR code, please contact your network administrator.



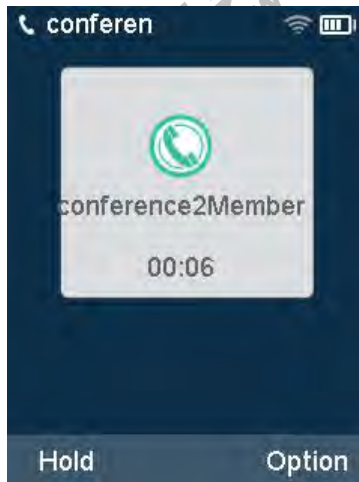
5.14 Conference

H680 can initiate a three-party call locally, and use the conference softkey during a

two-party call to invite a third-party call to the current call.




- Create a local three-way call on the phone

1. A and B are talking.
2. A presses the conference soft key to initiate a three-party call, the call between A and B enters the hold state, and A enters the dialing interface.
3. A press C number, and press **Send** soft key.
4. When C answers the call, A presses the **Conf** soft key, and ABC will start a





three-way call.

- Add calls from two accounts to a three-way call

1. Phone A's **account 1** is talking with phone B, and phone A's **account 1** is talking with phone C (but it is on hold).
2. If account 1 is calling and account 2 is on hold, press  or  to switch the call, Using account 1 that is currently in a call, press the **Conf** soft key to enter the dialing page, press  to select the held call, and press the **Send** soft key to start a three-way call.

- Operations that can be performed during a three-way call

1. **Split** soft key: Split three-way calls into multiple independent calls, press  or  or **swap** soft key to shift the call.
2. **Hold** soft key: You can put the other two parties on hold and press the Resume soft key to resume the three-way conversation.
3. **Manage** soft key: Enter the manage page, you can perform the following operations for the other two parties:

- 1) **Delete** soft key: Delete selected conference members
- 2) **Hold** soft key: Hold selected conference member
- 3) **Back** soft key: Return to the previous screen
- 4) **Mute** soft key: So that the other two parties cannot hear your voice, and the other two parties can still talk .
- 5) **Hang up soft key**: End the meeting.



5.15 Upgrade

The H680 phone can be upgraded to the latest version via the Web, the latest version can be downloaded from the official website or contact your seller to obtain.

- Upgrade firmware version via web

1. Through the web interface, click **Settings** -> **Upgrade** -> **Upgrade Firmware**, select the version that needs to be upgraded, and click Upgrade.
2. It is forbidden to disconnect the power supply and network during the upgrade process, otherwise irreversible problems may occur, and the system cannot be turned on.

The screenshot shows the web interface for an LV switch H680W. The top navigation bar includes the LV switch logo, the model name 'H680W', the language 'English (English)', and the user 'admin'. A left-hand menu lists various settings categories, with 'Upgrades(u)' highlighted in orange. The main content area is titled 'Settings - Upgrade' and displays the following information:

- Version: V68W 4.0.6
- Firmware Version: V68W 4.0.6
- Hardware Version: 1.0.0.0
- Reset to Factory Setting: Restore factory settings(?)
- Reboot: Restart(?)
- Select and Upgrade Firmware: Select the file, with 'Browser' and 'Upgrade(g)' buttons highlighted in red boxes and numbered 1 and 2 respectively.

On the right side, a 'Note' section contains the following instructions:

- Reset to Factory Setting: Reset all the settings of the phone to default configurations.
- Select and Upgrade Firmware: Select and upgrade the file from the hard disk or network.



6. Advanced function

This chapter mainly introduces the advanced functions of the H680 phone. The contents are as follows:

[6.1 Multicast](#)

[6.2 Message](#)

[6.3 Configuration management](#)

[6.4 Auto Provision](#)

[6.5 SIP configuration](#)

[6.6 Action URL](#)

[6.7 Trusted Certificates](#)

6.1 Multicast

Multicast allows you to send time-sensitive announcements to each member of the multicast group simply and quickly. Send the RTP stream to the pre-configured multicast address through the multicast key or multicast list set on the phone. By setting the monitoring multicast address on other phones, the phone can monitor and play the RTP stream sent by the multicast address. The multicast process does not involve SIP signaling. The phone can be set to monitor up to 31 multicast addresses.

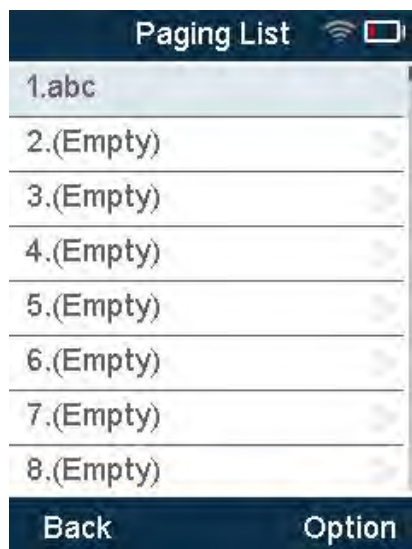
6.1.1 Multicast list configuration

- Configure the multicast list through the phone

1. Press Menu->Features->Paging list.

2. Press  or  to select the corresponding group.

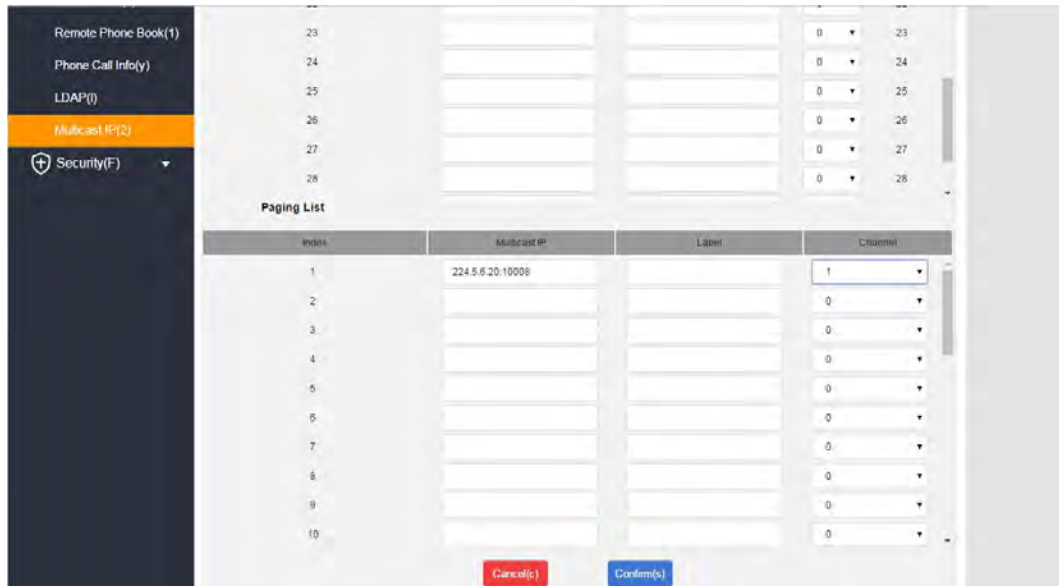
Before configuration, the label is empty.



3. Press Options softkey, and then press Edit softkey.
4. Enter the multicast IP address and port number in the address field (for example: 224.5.6.20:10008).
5. Enter the group name in the **label** field.
6. Enter the corresponding channel number in the **Channel** area.
The valid channel numbers is from 0 to 30.
7. Press save soft key to save the operation.
8. Repeat steps 2-7 to add more groups.

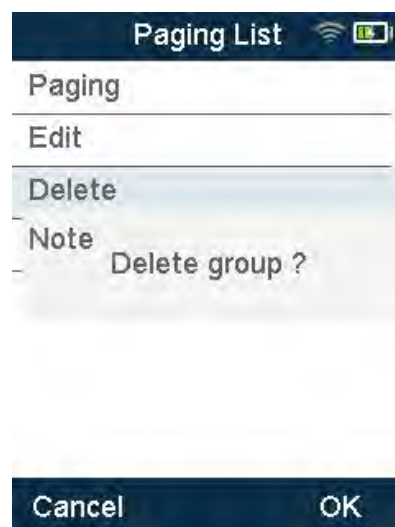
- Configure paging list via web interface

1. Click **Directory- Multicast IP-Paging list**.
2. Fill in the multicast address IP address + port number in the multicast address input box (for example: 224.5.6.20:10008).
3. Enter the group name in the **Label** area.
4. Select the corresponding channel number in the channel drop-down box.
5. Click **Confirm** to save the operation when finished.



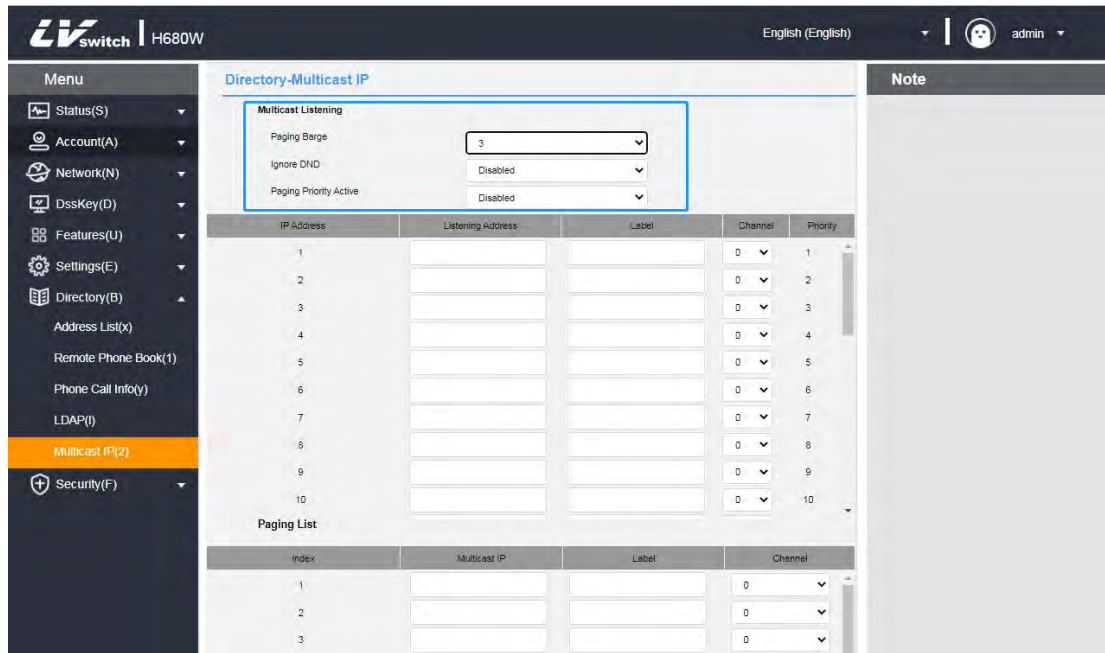
- Delete multicast group via phone interface

1. Press menu-Features -Paging list.
2. Press or to select the corresponding group.
3. Press option soft key then press Delete key.
The phone LCD screen prompts "Delete group?".
4. Press OK soft key to delete the group.
To delete all multicast groups, press the Delete All key.



You can also set the way the phone receives RTP streams through the Web,

which can be divided into paging intervention, DND penetration, and paging priority. Configure the path: Directory → Multicast address(2).



- 1. Paging intervention:** If there is multicast during the call, if the current multicast priority is lower than the call priority, the phone will automatically ignore the multicast; disable it to ignore all multicasts, the range is 1-31. For example, if the priority is set to 1, the multicast with priority 2-31 is ignored.
- 2. Penetrate DND:** If the phone is enabled to penetrate DND, priority is 3; when the phone is enabled in the DND mode, multicasts with a priority greater than or equal to three can be answered normally;
- 3. Paging priority:** If you enable paging priority, when the phone is listening to the multicast RTP stream with priority 5, at this time the multicast RTP stream with priority 3 is sent, and the phone will automatically receive priority 3 Multicast RTP stream.

6.1.2 Accept multicast RTP stream

You can set the phone to receive the multicast RTP stream sent from the pre-configured multicast address. The multicast process does not involve SIP signaling. Up to 31 different multicast addresses can be configured to monitor on the phone.

- 1. Paging intervention:** If there is multicast during the call, if the current multicast priority is lower than the call priority, the phone will automatically ignore the multicast; disable it to ignore all multicasts, the range is 1-31. For example, if the priority is

set to 1, the multicast with priority 2-31 is ignored.

2. **Penetrate DND:** If the phone is enabled to penetrate DND, priority is 3; when the phone is enabled in the DND mode, multicasts with a priority greater than or equal to three can be answered normally;
3. **Paging priority:** If you enable paging priority, when the phone is listening to the multicast RTP stream with priority 5, at this time the multicast RTP stream with priority 3 is sent, and the phone will automatically receive priority 3 Multicast RTP stream.

- Set the monitored multicast address through the web page:

1. Click Directory -> Multicast IP.
2. Select the appropriate value from the pull-down list of Paging Intervention.
3. Select Enabled from the pull-down list of Paging Priority.
4. Enter the monitored multicast address in the listening address field: IP address and port number (for example: 224.5.6.20:10008).
5. (Optional) Enter a label in the label area. When receiving a multicast RTP stream, the LCD interface will display the multicast label.
6. Select the corresponding channel in the channel drop-down box, the default is 0.

Directory-Multicast IP

Multicast Listening

Paging Barge: 7

Ignore DND: Disabled

Paging Priority Active: Enabled

Index	IP Address	Listening Address	Label	Channel	Priority
1		224.5.6.20:10008	A	0	1
2		224.5.7.80:10008	B	0	2
3				0	3
4				0	4
5				0	5
6				0	6
7				0	7
8				0	8
9				0	9
10				0	10

Paging List

Index	Multicast IP	Label	Channel
1	224.5.6.20:10008	cab	0
2			0
3			0

7. Click confirm button to save the operation.

Note The priority of the listening address is defined in advance: 1 is the highest priority, and 31 is the lowest priority. You can only set the monitored multicast address through the web interface.

6.1.3 Multicast use

Phone A has set up account 1 as multicast, account 2 as the multicast list, phone B, C, D, etc., set the listening address;

- 1. Multicast key sending:** When phone A is in standby mode, press the account 1 multicast key, and the pre-configured monitor phone will receive the multicast RTP stream; if phone A presses the hold key, the receiver will automatically hang up the multicast RTP session. Press the restore button to restore the held multicast. Press Hang up to end the multicast RTP session.
- 2. Multicast list sending:** Press Multicast List in the standby state, select the option that needs multicast and press Multicast, or press Menu->Function->Multicast List in the standby state.


Precautions:

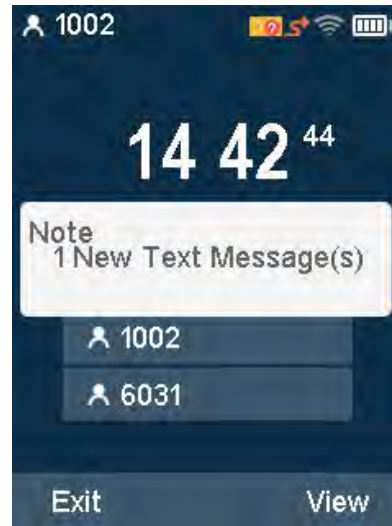
- The multicast RTP stream is one-way, only from the sender to the receiver. When the phone is in a call, initiate a multicast RTP session and the current call is on hold;
- Multicast will not generate call records.

6.2 Message

6.2.1 SMS

The SIP-H680 IP phone can send and receive text messages. When a new text message is received, the phone will emit a “di beep” prompt, the power indicator

will flash red slowly, and the LCD interface will prompt “n new text messages” (n represents the number of unread text messages, for example: 1 New text messages), and display the icon of unread text messages .



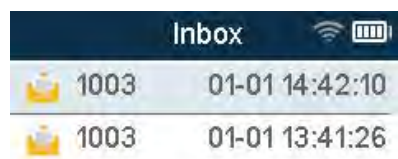
Text messages can be stored in Inbox, Sentbox, outbox and draft box, each of which can store 100 text messages. If the number of SMS exceeds 100, the phone will directly delete the oldest SMS.

- To read text messages

1. Press **Menu->Messages->Text message->Inbox**.

Note If the phone prompts you to receive a new text message, you can directly press the View soft key to read it.

2. Select the information you want to read and press the **Option- View** soft key.



Back

Option

- Send text messages

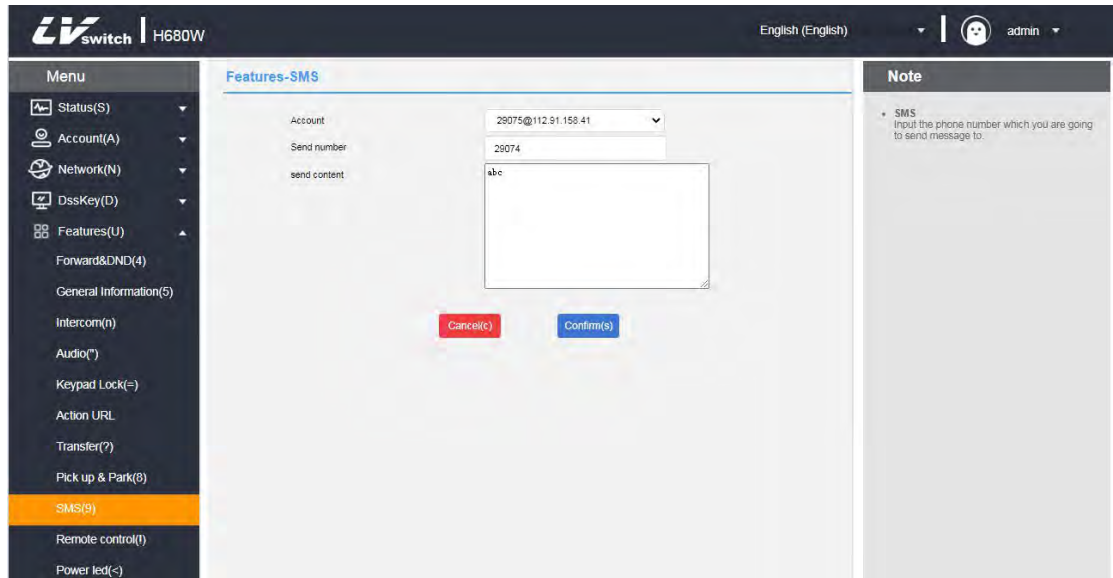
1. Press **Menu ->Messages -> Text messages ->New Message**
2. Write new message, press the # key to switch the input method.



3. (Optional) Press the **Switch** soft key and select the sender account in the sender area.
4. Enter the recipient number in the send to field.
5. Press the **Send** soft key to send the message or the **Back** soft key to cancel.

- Send text messages through the web interface

1. Log in to the phone page by IP address
2. Click **Features(U) -> SMS(9)**.
3. Input **Send number**.
4. Type the **Send Content**.
5. Press **Confirm** button to send the message.



- To reply text messages

1. Press **Menu** ->**Messages** -> **Text messages** ->**Inbox**
2. Select the message you want to reply, and press the **Reply** soft key.
3. Write message, press **abc** to switch input methods.
4. After editing, press **Send** softkey.
5. Check the **Sender** and **Send to** area.
6. Press the **Send** soft key.



- Delete text messages:

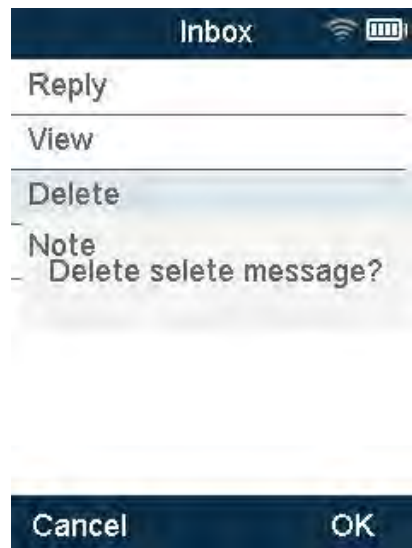
1. Press **Menu** ->**Messages** -> **Text messages** ->**Inbox(Sentbox, Outbox, Draftbox)**.
2. Select the information to be deleted, press the **Option** soft key.
3. Select Delete, and then press the **OK** soft key. The LCD interface displays

"Delete the selected message?".

4. Press the **OK** soft key to delete and press the Cancel soft key to cancel.

To delete all short messages, press the Option soft key and select Delete all.

For more information, please refer to the steps above.



6.3 Configuration management

The H680W phone has a configuration management function. You can export the phone configuration through the configuration management, or you can modify the exported configuration and re-import the phone.

- BIN configuration

1. Log in the web interface via Ip address.
2. Click **settings(E)-Configuration(I)-BIN configuration** .
3. Import and export configuration, browse to select import configuration (you can also export configuration directly).
4. Click the import button.

- CFG configuration

1. Log in the web interface via Ip address.
2. Click settings(E)-Configuration(I)-CFG configuration .

3. Export CFG configuration files: network configuration, SIP configuration.
4. After selecting ,press **Export** button.
5. Import CFG configuration file: Import the modified configuration file
6. Press **Import** key.

Note The exported BIN CFG file can not be modified.
The exported CFG file can be modified.

6.4 Auto Provision

Automatic provision can deploy the same configuration to multiple phones on a large scale.

6.4.1 Preparing steps

- Prepare the necessary document:

Before performing automatic configuration, you need to perform the following steps:

- Get Boot boot file
- Obtain CFG configuration file
- Get phone related information
- Layout update environment

For **boot files** and **configuration files**, you can contact your dealer to obtain template files;

- The checking way of the related information of phones:

MAC: Press the **OK** button to view the phone in standby mode

Phone model: In standby mode, press **Ok ->More -> Device**, product name is the product model.

- Boot file description:

When the phone is automatically configured, it will first try to download the common.boot boot file, and guide the phone based on the boot file to reference

```

1  #!version:1.0.0.1
2  ## The header above must appear as-is in the first line
3
4
5  ##[$MODEL]include:config <xxx.cfg>
6  ##[$MODEL,$MODEL]include:config "xxx.cfg"
7
8  [SIP-T780]include:config<common_T780.cfg>
9  include:config <common.cfg>
10 ##include:config "common.cfg"
11
12 overwrite_mode = 1
13 specific_model.excluded_mode=0
14
    
```

Phone model: SIP-T780. Corresponding configuration file is common_T780.cfg.
If not define the model. You can use common.cfg as the configuration file.

the specified CFG configuration file. The specific sequence is as follows:

- Configuration file description:

Before configuring the phone, you need to obtain the CFG configuration file, common.cfg is the common configuration file, and mac.cfg is the mac-based configuration file; you can also create your own configuration files according to your needs, such as account.cfg for configuration of phone account number, etc. The configuration supports list as below:

	Content
Phone configuration	Account, heartbeat service, DTMF, User Agent, time, STUN, network, Vlan, LLDP, CDP, language, signal tone, QoS, sound
Features configuration	Call forwarding, anonymous call, intercom, TR069, Programmable keys, DND, Hotline, voicemail, keypad lock, Action URL, Auto update
Other configuration	Upgrade phone and pager configuration

Example: If the phone needs to be upgraded to a specified version, and the language is set to Chinese, create a LanguageAndUp.cfg file, add the configuration and place it in the server root directory.

```
### language ###
```

```
language_setting.languages = 0
```

```
### upgrade ###
```

```
static.firmware.url = ftp://192.168.17.xx/V2.0.0.3_T790_rootfs.sqhfs
```

Note If you set up an upgrade, the upgrade file must be in this directory, otherwise the upgrade will fail.

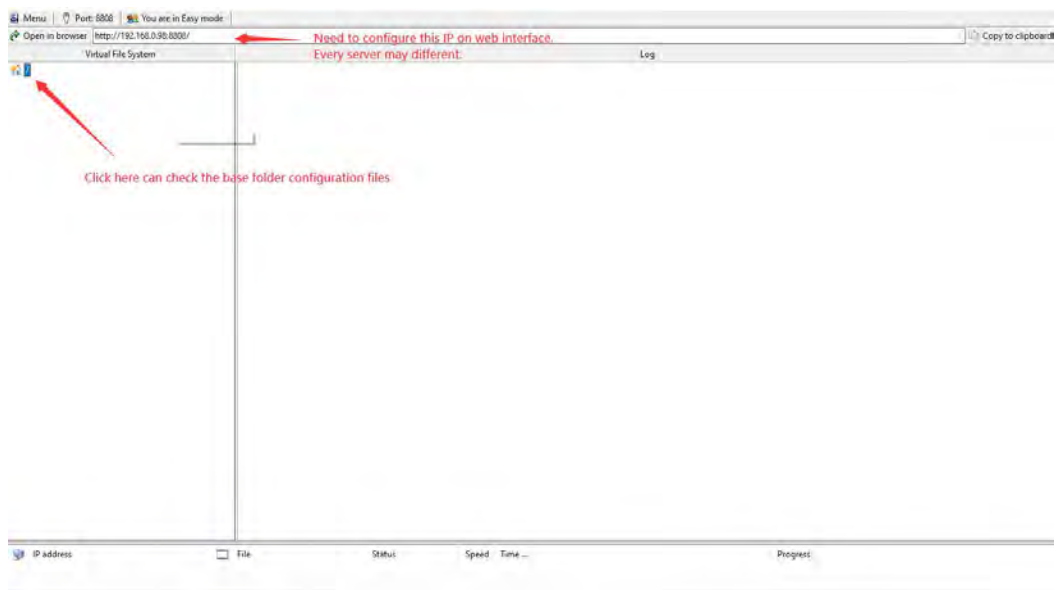
6.4.2 Automatic update operation steps:

There are two methods of server.

- HTTPS
- FTP/TFTP

6.4.2.1 HTTP(S) method update

To configure the server, just run HFS.exe directly; after running, put the configuration file directly under the environment root directory; the configuration file includes files such as xx.boot and xx.cfg.



Root directory file map:

名称	修改日期	类型	大小
IME	2019/8/29 13:48	文件夹	
XML	2019/8/29 13:48	文件夹	
805ec059571d.cfg	2020/7/17 17:39	CFG 文件	1 KB
common.boot	2020/11/26 13:07	BOOT 文件	1 KB
common.cfg	2020/11/26 14:20	CFG 文件	20 KB
mac.cfg	2019/6/13 13:49	CFG 文件	21 KB
V2.0.0.3_T780_rootfs.sqhfs	2020/11/27 11:08	SQHFS 文件	10,418 KB

Setting steps:

1. Login Web interface.
2. Click **Settings(E)** ->**Auto provision(3)**
3. server URL Fill in the https address

such as http(s)://192.168.17.xx, enable power on and start. Automatic configuration information update after restart.

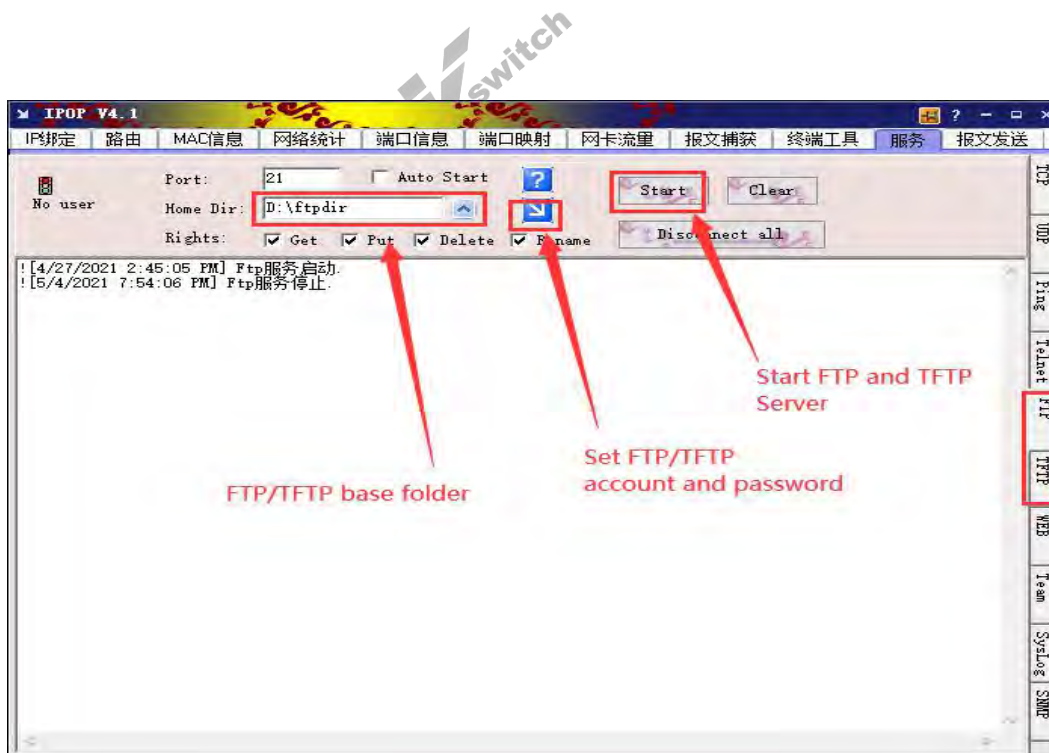
The screenshot shows the web interface for the LV switch H680W. The 'Settings - Auto Update' page is displayed, with the 'Auto Provision' section selected in the left-hand menu. The configuration for 'Auto Provision' is as follows:

Parameter	Value
Auto Provision	Enabled
PNP activation	Enabled
DHCP activation	Disabled
DHCP option value	
Server URL	http://cs.lvswitches.cn
User Name	
Password	
Get profile timeout (seconds)	
Power on and start	Enabled
Repetition period	Disabled
Interval (minutes)	1440
Week by week	Disabled
Update interval (0-12 weeks)	0
Inactive time period (0 ~ 120min)	0
Time	00:00 - 00:00
Weekly	<input type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat

At the bottom of the page, there is an 'Update now' button with 'Cancel(c)' and 'Confirm(s)' options.

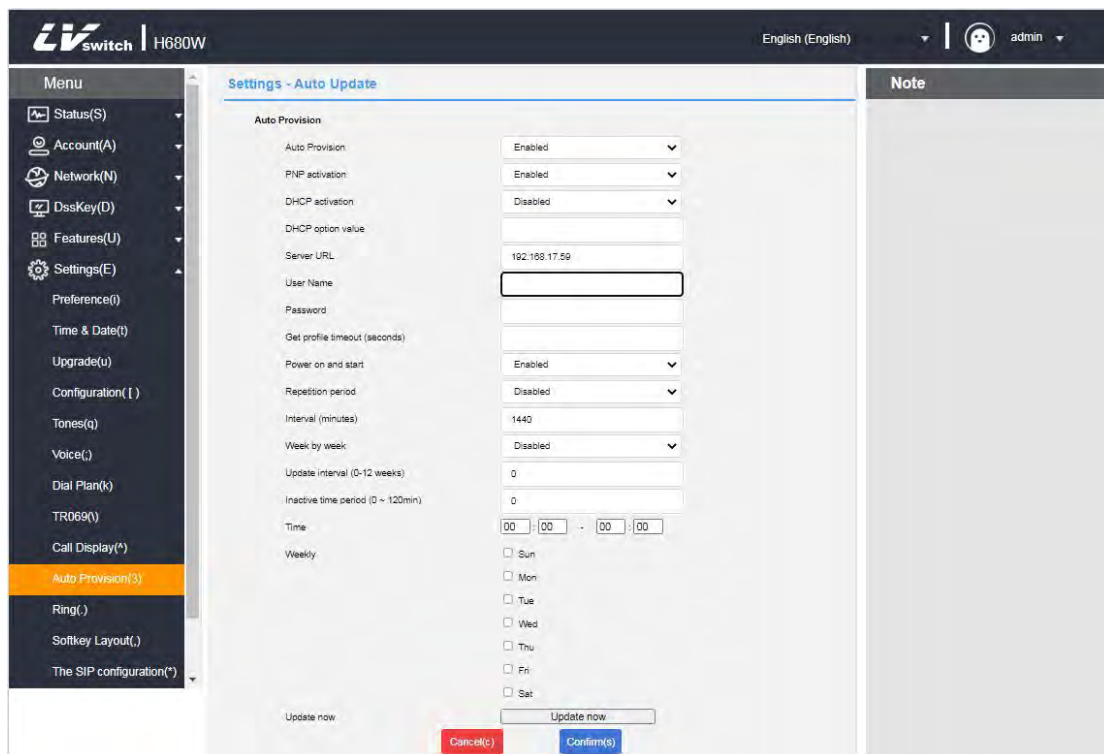
6.4.2.2 FTP/TFTP method update:

To configure the server, run IPOP.exe directly to enable FTP/TFTP in the service, or you can use 3CDaemon, TFTPD32, etc. as the server; after running, put the configuration file directly in the environment root directory; the configuration file includes xx.boot and xx.cfg, etc. File.The configuration steps as following :



Setup steps:

1. Login Web interface.
2. Click **Settings(E)** ->**Auto provision(3)**
3. server URL fill in the ftp/tftp address,
for example: <ftp://192.168.17.xx/> Enable power-on startup; automatic configuration information update after restart.



6.5 SIP configuration

6.5.1 SIP Session Timer

SIP session timers T1, T2, and T4 are SIP transaction layer timers defined in RFC 3261.

- Configure SIP session timer through web page

(Only through web page configuration)

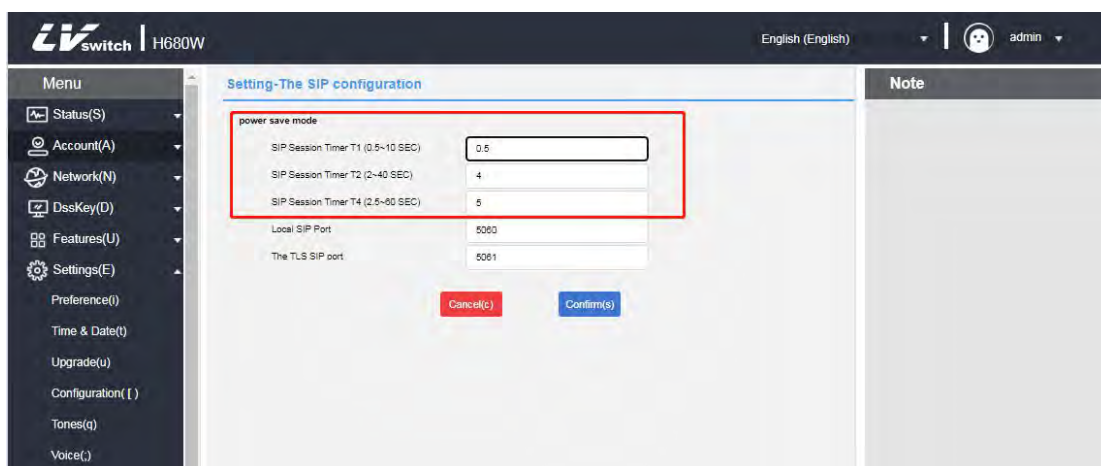
1. Login Web interface.
2. Click **Settings(E)**-> **The SIP configuration (*)**.
3. Check SIP Session Timer T1/T2/T4.
4. Press **Confirm** button to save.

SIP session timer T1: Timer T1 is an estimate of the round trip time (RTT) of the transaction between the SIP client and the SIP server.

SIP session timer T2: Indicates the maximum retransmission time of any SIP request message. The retransmission multiplication of T1 will continue until the retransmission time reaches the value of T2.

For example: the user registers a SIP account and sets the values of timer T1 and timer T2 respectively (timer T1:0.5, timer T2:4). The SIP registration request message will be retransmitted between the phone and the SIP server. The retransmission multiplication of timer T1(0.5) will continue until the retransmission time reaches timer T2(4). The total registration request retry time will be less than 64 times of T1 ($64 * 0.5 = 32$). The retransmission interval is: 0.5s, 1s, 2s, 4s, 4s, 4s, 4s, 4s, 4s, 4s, 4s, 4s, 4s, 4s, 4s, 4s, 4s, 4s.

SIP session timer T4: Indicates the time for the network to clear messages between the SIP client and server.

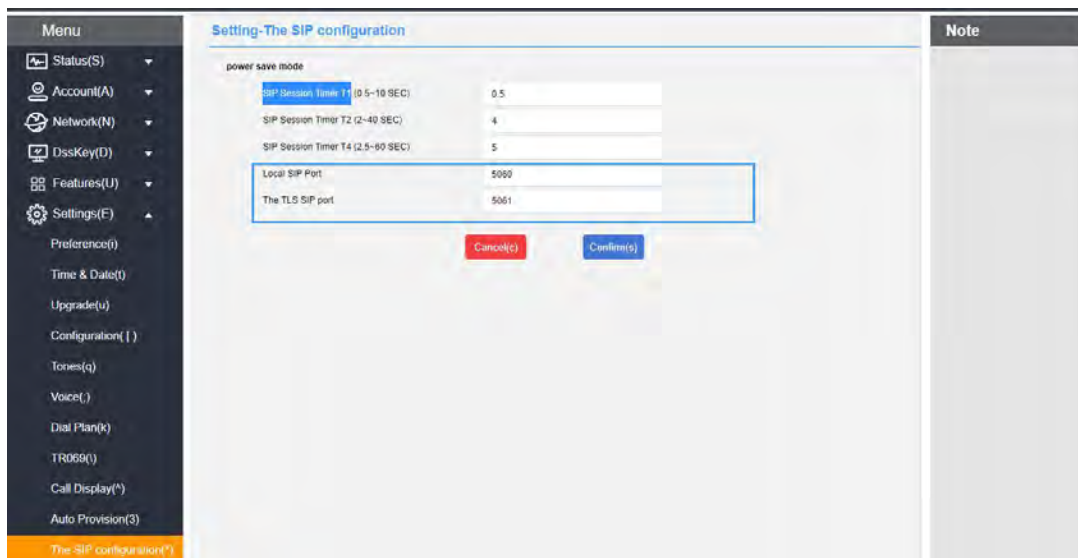


6.5.2 Local SIP port and TLS SIP port

If NAT is not enabled, the port number is displayed in the header of Via and Contact in the SIP message. If NAT is enabled, the phone will use the NAT port and address in the header fields of via and contact, but will still use the configured source port.

- Configure local SIP port and TLS SIP port via web page

1. Login Web interface.
2. Click Settings(E)-> The SIP configuration (*).
3. Check Local SIP port and TLS SIP port.
4. Press **Confirm** button to save.



6.6 Action URL

The Action URL function is mainly used for the phone to report its own behavior to the computer. An action on the phone generates a URL. The actions on the phone include incoming calls, outgoing calls, and call forwarding. The web management interface lists all supported actions, and each action corresponds to a URL that can be customized by the user. When a certain action occurs, such as an incoming call, the phone and the corresponding URL HTTP/HTTPS GET is sent to the computer, so as to achieve the purpose of reporting its own action.

URL format: `http(s)://server address/help.xml?mac=$mac`

6.6.1 The action that can realize reporting to the server

The action that can realize reporting to the server and the list of variables supported by each action.

The actions that can be reported	Description	Supported variables
Startup complete	When IP phone startup completely.	\$mac \$ip \$model

		\$firmware(Base)
Registered	When SIP account registered.	\$mac \$ip \$model \$firmware \$local
unregister	When SIP account unregister.	Same as above
Register failure	When SIP account register failure.	Same as above
Put down the handle	When the handset hangs up.	\$mac \$ip \$model \$firmware(Basic)
Pickup the handle	When the handle is off-hook	Same as above
Incoming call	When ip phone has incoming call	\$mac \$ip \$model \$firmware \$active_url \$active_user \$active_host \$local \$remote \$display_local \$display_remote \$call_id \$callerID \$calledNumber(Call related)
Dial a call	When ip phone dial a call	Same as above
Establish a session	When the session is establishing	Same as above
End a session	When the session is finish.	\$mac \$ip \$model

		\$firmware
Enable DND	Enable 'do not disturb'.	Same as above
Disable DND	Disable 'do not disturb'.	Same as above
Enable call forwarding unconditionally	Enable call forwarding unconditionally.	Same as above
Disable call forwarding unconditionally	Disable call forwarding unconditionally.	Same as above
Enable call forwarding on busy	Enable call forwarding on busy.	Same as above
Disable call forwarding on busy	Disable call forwarding on busy.	Same as above
Enable call forwarding on no answers	Enable call forwarding on no answers.	Same as above
Disable call forwarding on no answers	Disable call forwarding on no answers.	Same as above
Call forward	When a call transfer occurs.	\$mac \$ip \$model \$firmware \$active_url \$active_user \$active_host \$local \$remote \$display_local \$display_remote \$call_id \$callerID

		\$calledNumber
Blind transfer	When the blind transfer occurs.	Same as above
Inquiry transfer	When the inquiry transfer occurs.	Same as above
Call hold	Hold the call.	Same as above
Cancel call hold	Un-hold the call.	Same as above
Enable mute	Enable mute.	Same as above
Disable mute	Disable mute.	Same as above
Unanswered calls	When you get unanswered calls.	Same as above
IP change	When the ip phone IP address changes.	Same as above
Idle into a call	When the phone enters the call state from the idle state.	\$mac \$ip \$model \$firmware \$active_url \$active_user \$active_host \$local \$remote \$display_local \$display_remote \$call_id \$callerID \$calledNumber
The call enters into idle	When the phone enters the idle state from the call state.	Same as above
Reject incoming calls	When you reject the incoming calls.	Same as above
Answer new incoming calls	When you answer a new incoming call.	Same as above
Forward failure	When the call forward failure.	Same as above
Forward complete	When the call forward is complete.	Same as above
Forward call	When forwarding a incoming call.	Same as above

Update automatically	When the automatic update is complete.	Same as above
Enable call waiting	Enable call waiting.	\$mac \$ip \$model \$firmware
Disable call waiting	Disable call waiting.	Same as above
Use headset	When using the headset.	Same as above
Use hands-free	When using speaker.	Same as above
Cancel callout	When you cancel dial out call.	Same as above
Remote busy	The remote call is busy.	Same as above
Cancel remote call	When the remote call cancel.	Same as above
Peripheral information	When peripheral information is update.	Same as above
VPN IP	When the VPN IP address was changed	Same as above

6.6.2 Variable description

Variables supported in Action URL.

The actions that can be reported	Description
\$mac	Phone MAC address
\$ip	Phone IP address
\$model	Phone type
\$firmware	The phone's firmware version number
\$active_url	The sip_uri of the current active account (only valid for incoming, outgoing, and calling)
\$active_user	Reissue the user account of the sip_uri of the current active account (only valid for incoming, outgoing, and calling)
\$active_host	The server part of the sip_uri of the current active account

	(only valid for incoming, outgoing, and calling)
\$local	Native sip_uri
\$remote	The peer sip_uri
\$display_local	Native display name
\$display_remote	The peer display name
\$call_id	Caller ID
\$callerID	The display name of the caller when making an outgoing call
\$calledNumber	The number called when calling out

6.6.3 Web page configuration description

- Configuration Action URL via web interface:

1. Login Web interface.
2. Click **Features(U)**->**ActionURL(6)**.
3. Enter the information to be reported to the server in the corresponding area.

For example:

http(s)://server address/help.xml?mac=\$mac

4. Click **Confirm** button to save.

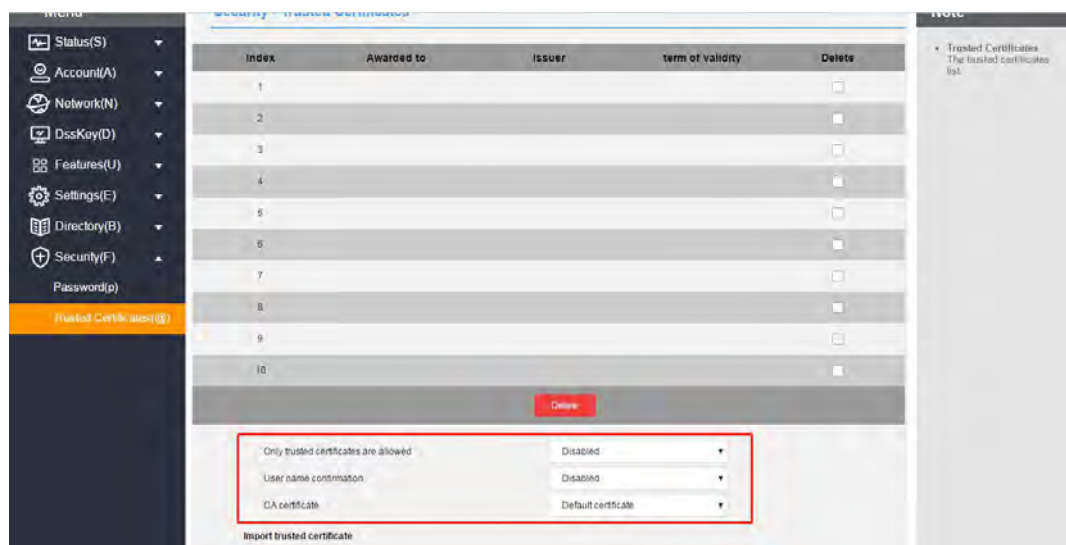
6.7 Trusted Certificates

You can upload a specific CA certificate to your phone.

- Configure trusted certificates via web interface

1. Login Web interface.
2. Click **security(F)-> Trusted Certificates(@)**.
3. Select the appropriate value from Only trusted certificates are allowed/User name confirmation/CA certificate.
4. Click **Confirm** to confirm the operation.

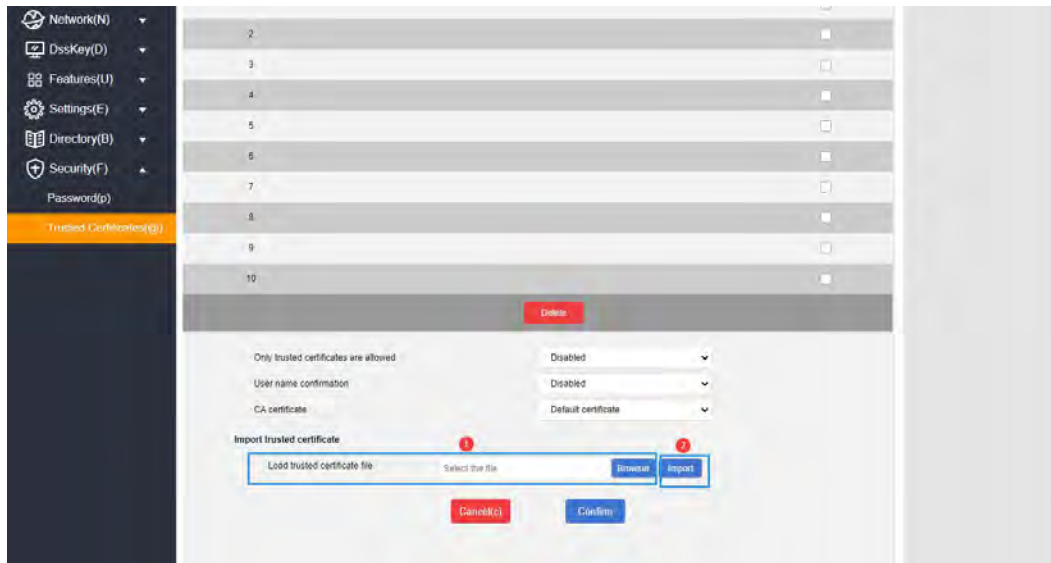
A dialog box pops up, prompting to take effect after restart.



5. Click **OK** to restart the phone.

- Upload trusted certificate via web page

1. Login Web interface.
2. Click **security(F)-> Trusted Certificates(@)**.
3. In the Load Trusted Certificate File area, click Browse to select the local certificate file (*.pem, *.crt, *.cer or *.der).



4. Click import to import the certificate.

