



# DT-200 User Manual

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### Document Revision History

Version	Release Date	Description of Changes
V1.3	2025-10	Initial release.
V1.4	2025-11	Added functional descriptions for: Multi-Line, Auto Redial, Call Completion, Third-party Application Settings, Add Suffix, Delete Prefix, Screen Lock, and Keypad Lock.

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# Safety and Compliance Information

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## Important Safety Instructions

Please read and follow these safety instructions carefully before installing and using your telephone to ensure safe and reliable operation.

### Power Source

Use only the power adapter supplied with this product or designated by the manufacturer. Using an unapproved power adapter may cause fire, electric shock, or equipment damage.

Do not damage the power cord. Avoid twisting, sharply bending, pulling, or placing heavy objects on the power cord. A damaged power cord increases the risk of fire and electric shock.

### Operating Environment

Place the device on a stable, well-ventilated surface away from direct sunlight. Do not place the device in damp, dusty, excessively hot, or cold environments.

If the device is moved from a cold to a warm environment, condensation may form on or inside it. Allow the device to dry completely before connecting it to the power source.

### Cleaning and Maintenance

Unplug the device before cleaning. Wipe only with a dry, soft cloth. Do not use any liquid, aerosol cleaners, or chemical solvents.

Ensure the ventilation openings are not blocked. Do not insert any foreign objects, such as pins or paper clips, into any openings of the device.

### Servicing

This device contains no user-serviceable parts. Do not disassemble or attempt to repair the device yourself. All servicing must be performed by qualified service personnel authorized by the manufacturer. Improper repair may result in electric shock, fire, and will void the product warranty.

### Child Safety

Keep the device and plastic packaging bags away from children to prevent the risk of suffocation.

## Conformity Declaration

### EU Conformity Declaration

This product complies with the relevant EU Directive(s) and Regulations. The CE marking indicates that this product can be freely circulated and put into service throughout the European

Union and European Economic Area.

## FCC Compliance Statement (USA)

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning:

Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US: XXXXXXXXXX. If requested, this number must be provided to the telephone company.

## Disclaimer and Limitation of Liability

The product specifications and information in this guide are subject to change without notice. Frontier IoT shall not be liable for any damages or losses, whether direct, indirect, incidental, special, consequential, or punitive, resulting from the use or inability to use this product. In no event shall the total liability of Frontier IoT exceed the purchase price of the product.

## Before You Begin

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- This guide helps you quickly get started with your DT-200 IP phone.
- Before installation, please make sure your phone is properly connected to the network. For DT-200D, a stable internet connection via Ethernet, Wi-Fi, or 4G is required. For DT-200A, you also need to insert a valid SIM card to use VoLTE calling features.
- We recommend reading the included Quick Installation Guide to familiarize yourself with hardware setup and basic functions.
- Note that some features may depend on your service provider or enterprise configuration and might not appear on all devices.
- the document might not be up to date with the newly release software, so please kindly download updated user manual from website, or contact with support if you have any question using DT-200.

This user guide contains information for the following Frontier IOT products:

- DT-200D
- DT-200A

## Product Introduction and Key Features

The DT-200 series includes two models: DT-200A and DT-200D, both designed for professional office use with a smart color touchscreen and rich telephony features.

### DT-200A – VoLTE + VoIP Dual-Mode Phone

**Ideal for users who need both SIM-based mobile calling and internet-based VoIP.**

---

#### **Key Features:**

- Supports **VoLTE** calling via **SIM card** (no landline or cable required)
  - Also supports **SIP VoIP** service via Ethernet or Wi-Fi
  - **7" color touchscreen** with up to **116 programmable DSS keys**
  - **HD audio, headset support, and echo cancellation**
  - Powered via adapter or optional battery for short-time backup
  - **Location-based E911** address prompt for safety compliance
-

## DT-200D – VoIP-Only with Flexible Connectivity

Perfect for offices using only VoIP services.

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### Key Features:

- Supports **SIP** calling over Ethernet, **Wi-Fi**, or **4G LTE**
  - **7" color touchscreen** with up to **116 DSS keys**
  - **Built-in speakerphone** and **headphone jack** for hands-free use
  - **HD voice, QoS, encryption, and remote provisioning**
  - Powered via adapter or optional battery for short-time backup
-

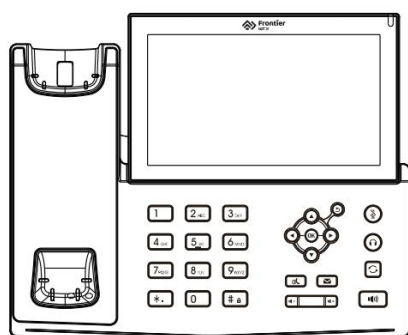
# You Phone

This section introduces the physical layout, button functions, screen icons, and audio options of your DT-200 phone.

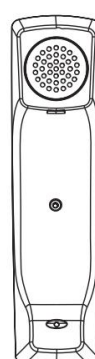
You'll learn how to identify key components, understand LED indicators, navigate the touch interface, and use the handset, speakerphone, or headset—whether wired or Bluetooth-enabled.

Whether you're setting up for the first time or getting familiar with advanced features, this chapter helps you operate the phone with confidence.

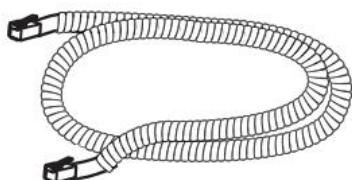
## Packing list



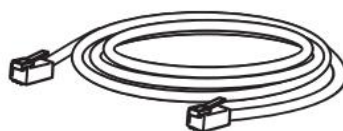
IP Phone



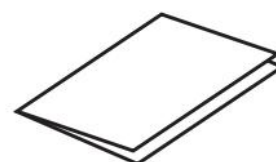
Handset



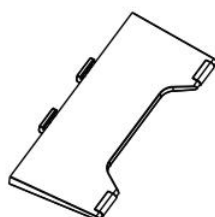
Handset Cord



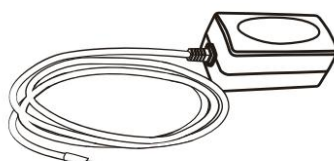
Ethernet Cord



Quick Installation Guide



Stand

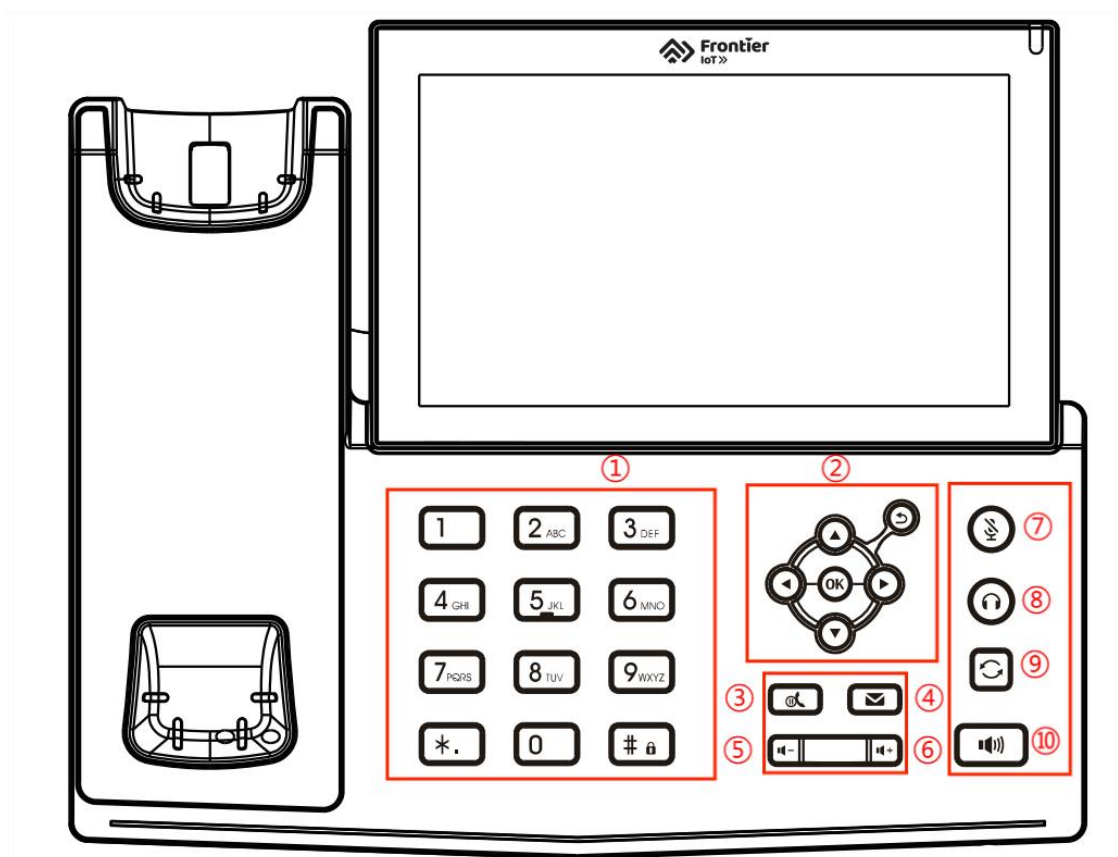


Power Adapter (Optional)



Screwdriver

## Instruction of Keypad



Number	The keypad names	Instruction
①	DTMF Key	These 12 standard phone keys provide standard phone button functionality. At the same time, certain long key presses can be triggered to provide special functions.
②	Navigate/OK key /Return Keys	<p>The user can press the up/down navigation key to change the line or move the cursor in the screen list. On some Settings and text editing pages, the user can press the left/right navigation key to change options or move the cursor in the screen list to the left/right.</p> <p>OK key: Default is equivalent to soft button confirmation, user can customize the function.</p> <p>Return key: It will return to the upper menu under any interface and can be used to return to the standby desktop when making a call or when making a call. ( In addition to the "Emergency address" pop-up interface )</p>
③	Hold Key	Press the "Hold" key during the call, the user can hold the call, and press it again to cancel the holding and restore the normal call state.
④	Voice Mail Key	Press the "voice mail" button, and the user enters the interface of voice mail list.













⑤	Volume Down Key	In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; Press this button to lower the volume on the call or volume adjustment screen.
⑥	Volume Up Key	In the standby state, ring and ring configuration interface, press this button to increase the ring volume; Press this button to increase the volume on the call or volume adjustment screen.
⑦	Mute Key	During a call, the user can press this key to mute the microphone. In standby mode, the user can press this key to mute incoming calls and the soft keyboard.
⑧	Headset Key	Users can press this key to open the headset channel
⑨	Redial Key	Press the Redial key to redial the last number dialed
⑩	Hands-free Key	The user can press this key to open the audio channel of the speakerphone.

## Icons in the telephone display

























This section provides an overview of the icons and LED indicators displayed on the DT-200's screen, helping users quickly understand call status, network connection, and other phone functions.









### Keypad Icons

Icons	Description
	Message indicator
	Up/down/left/right navigation keys, Return key OK key, Shortcut to Menu Return key, Go back to the previous directory
	Hold key, Hold/Resume the call
	In idle mode: ringer off In communication mode: mute/un-mute a call
	In idle mode or during ringing: increase or decrease ringer volume In communication: increase or decrease handset, headset or hands-free volume
























	Voice message key
	Headset key, Activate/deactivate Headset
	Redial key, Access to redial the last record
	After enabling function in [Phone Settings] → [Security] → [Keypad Lock], press and hold # key to lock keypad, you can unlock keypad by entering the password(default password is admin)
	Hands-free key, Activate/deactivate hands free When enabled, the key indicator illuminates with a steady green light










### Status Prompt and Notification Icons

Icons	Description	Icons	Description
	Call Hold		Wi-Fi enabled unconnected
	Ethernet Connection		Wi-Fi enabled connected
	Ethernet Disconnected		No Wi-Fi signal
	Ethernet Unable To Access		Flight mode
	DND		Signal strength (Mobile data disabled)
	SMS		Signal strength (Mobile data enabled)
	Call forward activated		Power supply
	Auto-answering activated		Battery supply
	Hands-free (HF) Mode		USB insert tips
	Headphone (HP) Mode		Unread voice message
	Handset (HS) Mode		Recording
	Missed Call		Recording complete

	Mute Microphone		Export log
	Mute Incoming Call Ringtone		Open Bluetooth
	HD Audio		Bluetooth paired
	SIP Hotspot		Hotspot

### DSSkey Icons

Icons	Description	Icons	Description
	Line		Key Event/Redial
	BLF		Key Event/Pickup
	Call Park		Key Event/Join
	Key Event/DND		Key Event/Auto Redial On
	Speed Dial		Key Event/Auto Redial Off
	Collapse		Key Event/Call Forward
	Voice Message		Key Event/Call Logs
	Call forward		Key Event/Headset
	Key Event/Call Hold		Key Event/SMS
	Key Event/Call Transfer		Key Event/Call Back
	Key Event/phonebook		Key Event/Hide DTMF
	Key Event/Flash		Key Event/Power Light
	Key Event/Memo		Key Event/Prefix
	Key Event/Handfree		Key Event/Release All
	Key Event/Answer Key		Key Event/Lock Phone

	Key Event/Private Hold		Key Event/Hot Desking
	Local Contact & LDAP Contact & XML Contact		Key Event/Agent
	Record		Key Event/End Current Call
	Auto Headset		Key Event/Disposition
	URL & XML Browser		Key Event/Escalate
	Action URL		Key Event/Trace
	BLF List		Multicast

#### DSS KEY LED State

Type	LED Light	LED State
Line Key	Off	Line inactive
	Green On	Line ready (Registered)
	Green Blinking	Ringing
	Red Blinking	Line is trying to register
	Red Blinking	Line error (Registration failure)
	Red On	Dialing/Line in use (Talking)
	Yellow Blinking	Call holding
BLF	Green On	Subscription number is idle.
	Red On	Subscription number is busy.
	Red On	Subscription number is dialing.
	Red Blinking	The subscription number is ringing.
	Off	The subscription number is holding.
	Off	Subscription number is unavailable.
Presence	Green On	Subscription number is idle.
	Red On	Subscription number is busy.
	Red On	Subscription number is dialing.
	Off	Subscription number is unavailable.
DND	Red On	Enable DND

Type	LED Light	LED State
	Off	Disable DND

## Audio Modes and Switching

This section explains how to place and receive calls using the handset, speakerphone, or headset, and how to switch between these audio modes during a call.

### Using Handset

To make a call using the handset:

#### Procedure

- 
1. Lift the **handset**.
  2. Dial the number.  
Alternatively, dial the number first and then lift the handset to initiate the call.
  3. To switch audio back to the handset while using speakerphone/headset:  
Simply lift the handset (audio will automatically switch).
- 

### Using Hands-free Speaker

To make a call using the hands-free speaker:

#### Procedure

- 
1. Press the **hands-free speaker** key.
  2. Dial the number.  
Alternatively, dial the number first and then press the hands-free speaker key.
  3. To switch audio back to the speakerphone while using handset/headset:  
Press the hands-free speaker key (audio will automatically switch).
-

## Wired Headset

The device supports wired headphones that supports the RJ9/TYPER-A/TYPER-C interface, and realizes the calling prompts and headset calls of the headset playback.

### Procedure

#### On the Phone (Device Display)

After connecting the headset:

1. A headset icon appears in the top-right status bar of the screen.
2. Press the Headset key, then dial the number and press the Call button to initiate the call.  
Alternatively, dial the number first, then press the Headset key and press the Call button.
3. To switch audio to headset during an active call using speakerphone or handset:  
Press the Headset key (audio will automatically switch).

#### On the Phone Interface

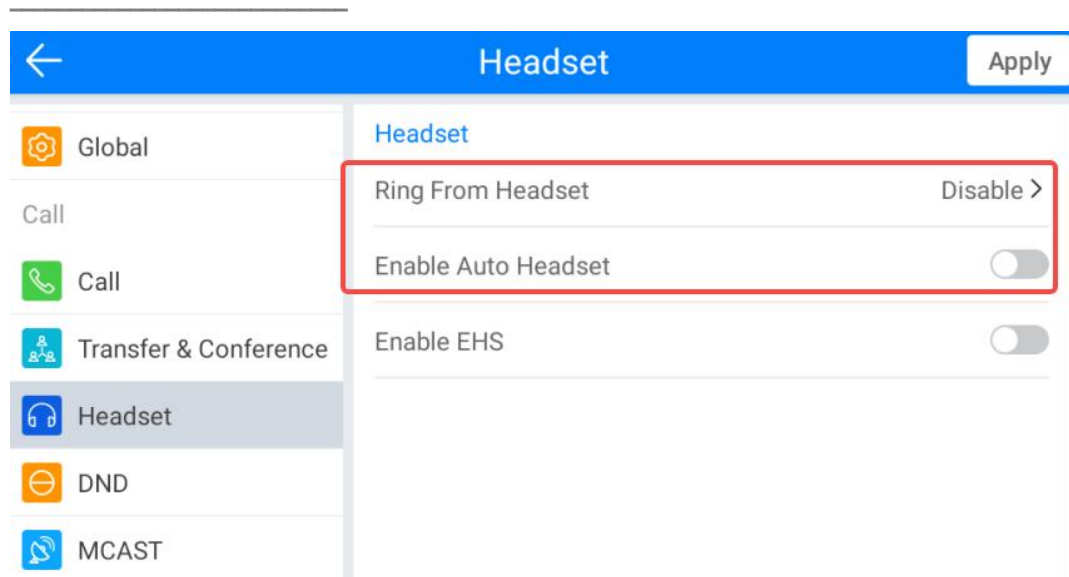
1. Navigate to: **[Phone Settings] → [Headset] → [Basic Settings]**

The web version can also be configured. log into the phone's web interface, navigate to: [Phone Settings] → [Features] → [Basic Settings]

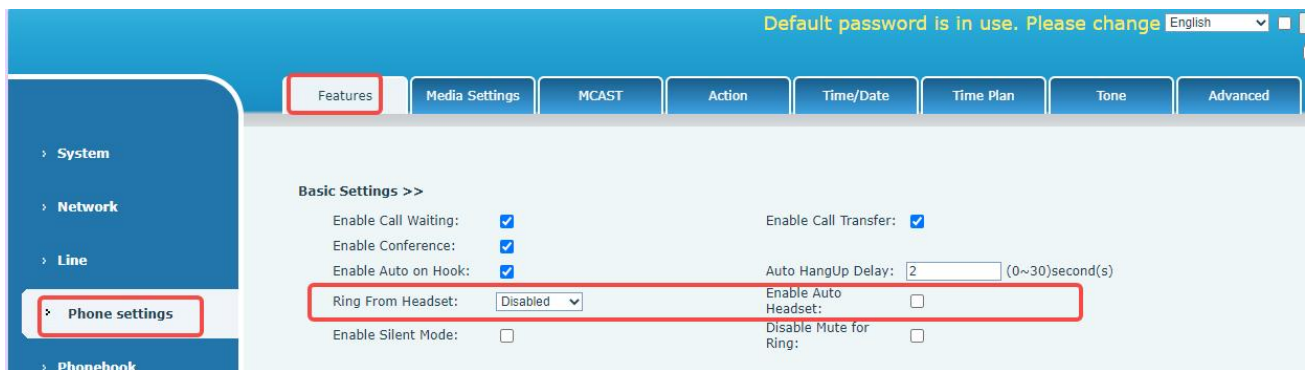
2. Configure the following options:

**Headset Answering:** Enable or disable the headset answering mode. When enabled, incoming calls will default to the headset. When disabled, the phone will use its standard answering mode.

**Headset Ring Type:** Set the ringtone to play through the headset.



Headset Settings Screen



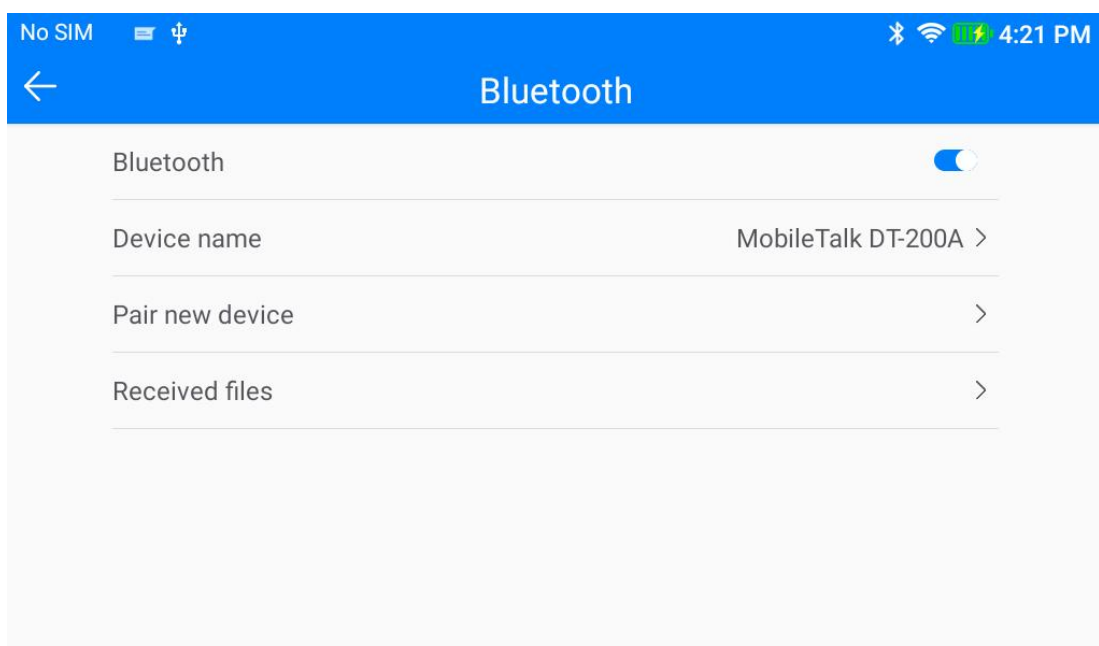
Headset function settings (Web)

## Bluetooth Headset

The device supports Bluetooth applications and can be compatible with CSR 4.0 Bluetooth headsets without the need for USB Bluetooth adapters. The phone has built-in Bluetooth and Bluetooth antennas.

### Procedure

1. While the phone is in standby mode, press the Menu key to access settings.
2. Go to **[Phone Settings]** → **[Network]** → **[Bluetooth]**.
3. Select **[Pair New Device]** to start scanning for available Bluetooth devices.
4. From the list of scanned devices, select the target device to initiate pairing.
5. Follow on-screen prompts to complete the pairing connection.



Bluetooth Settings Screen

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

- **call answering**

When the Bluetooth headset is connected to the phone and an incoming call is received:

Press the answer button on the Bluetooth headset once to answer the call.

Alternatively, press the physical headset button on the device itself.

- **Hang up**

(1) During an active call via Bluetooth headset:

Press the answer/end button on the Bluetooth headset once to end the call.

Alternatively, press the physical headset button on the device.

(2) When an incoming call is received:

Double-press the answer button on the Bluetooth headset to reject the call.

Alternatively, press the physical headset button on the device.

(3) During outgoing call ringing (before the call is connected):

Press the answer/end button on the Bluetooth headset once to cancel the call.

- **Bluetooth redial**

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

**NOTICE!** some models do not support double - click reject the call or redial function. Whether this function is supported or not, you can check the instruction of the headset, or connect the Bluetooth headset to the phone, and double-click the answer button to see whether it will redial or Hang up.

## Bluetooth external line

The Bluetooth external line can be connected to the mobile phone (supported by Android system and IOS system), make and receive calls, hold, resume, mute, increase and decrease volume, input DTMF and end the call. You can sync your phone's contact list when you connect.

### Procedure

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#### Connecting the Mobile Phone via Bluetooth

1. While in standby mode, go to: **[Phone Settings] → [Network] → [Bluetooth]**.
2. Tap **[Pair New Device]** to scan for available mobile phones.
3. Select your mobile phone from the list to start pairing.
4. Follow the on-screen instructions to complete the Bluetooth pairing.

#### After Connection: Mobile Phone Features



### (Synchronize Phonebook)

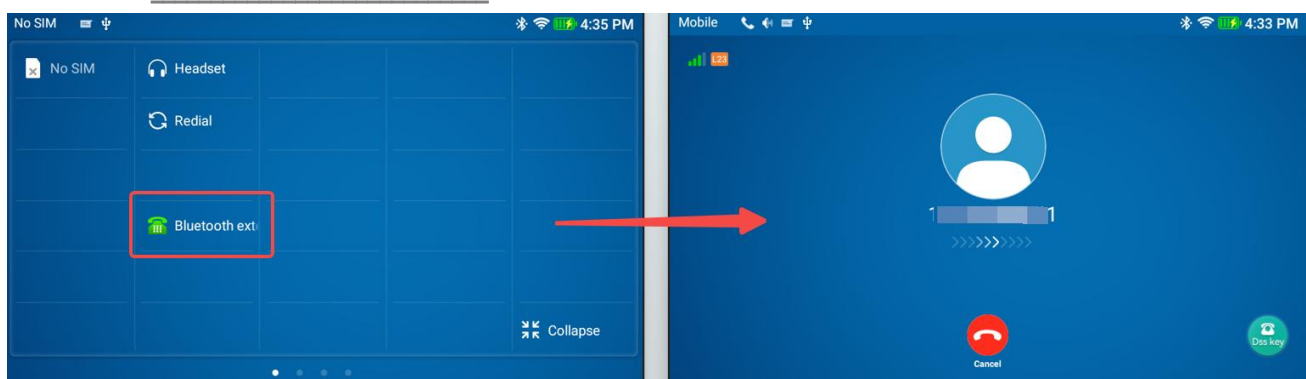
1. Upon first-time connection, a **PIN** code prompt appears on both devices.
2. For Android devices, a pop-up asks whether to **sync contacts** — **select OK**.
3. The mobile contacts will be updated into the phone's contact list.
4. For iPhones, ensure the "**Sync Contacts**" option is enabled in Bluetooth settings.

### Make a Call Using Mobile Line

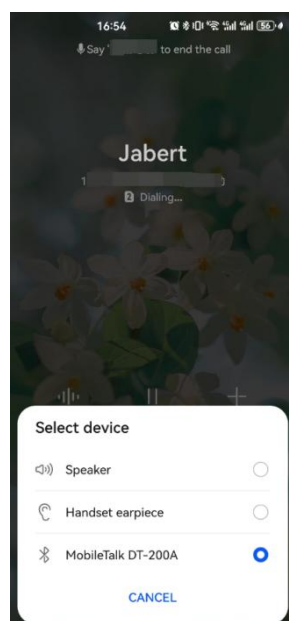
1. On the web interface or LCD, configure a DSS key: Set Line Type to **Bluetooth (Mobile)** and save.
2. Press the **configured mobile line key** and enter the number to dial.
3. Call records made via mobile connection will be saved in the phone's **call log**.

### Answer a Call from Mobile Line

1. When there is an incoming call from the mobile line, press the **Answer button** and lift the handset.
2. After answering, you can transfer the call back to your mobile phone to continue the conversation there. Simply select Handset or Speakerphone as the audio channel on your phone's interface.

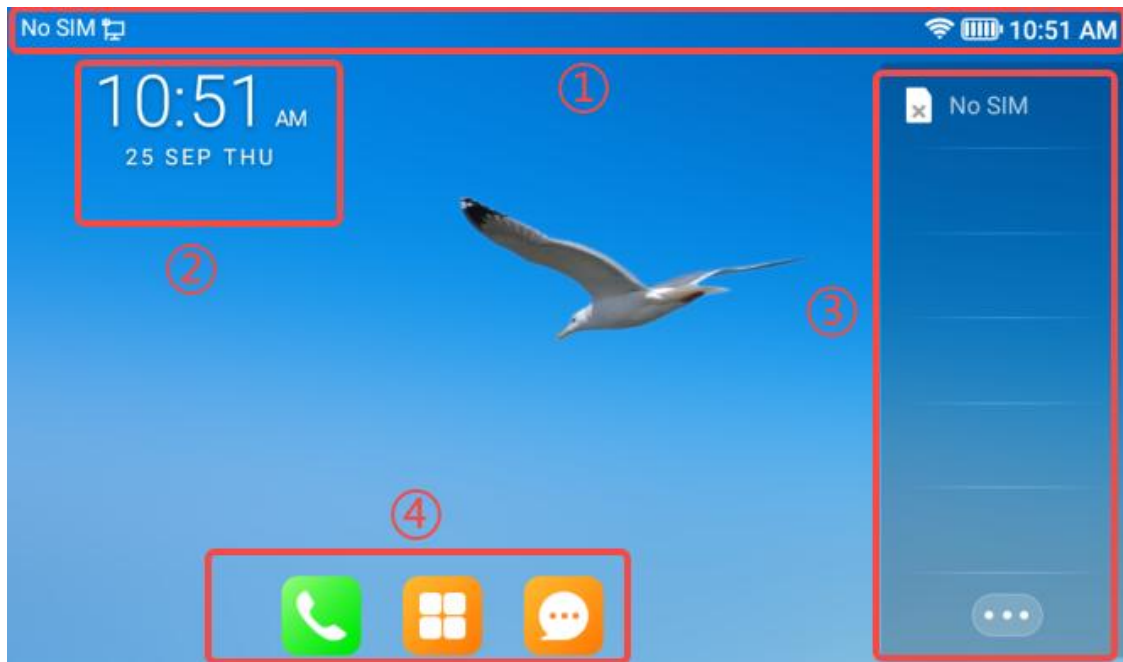


Bluetooth outbound call over external line

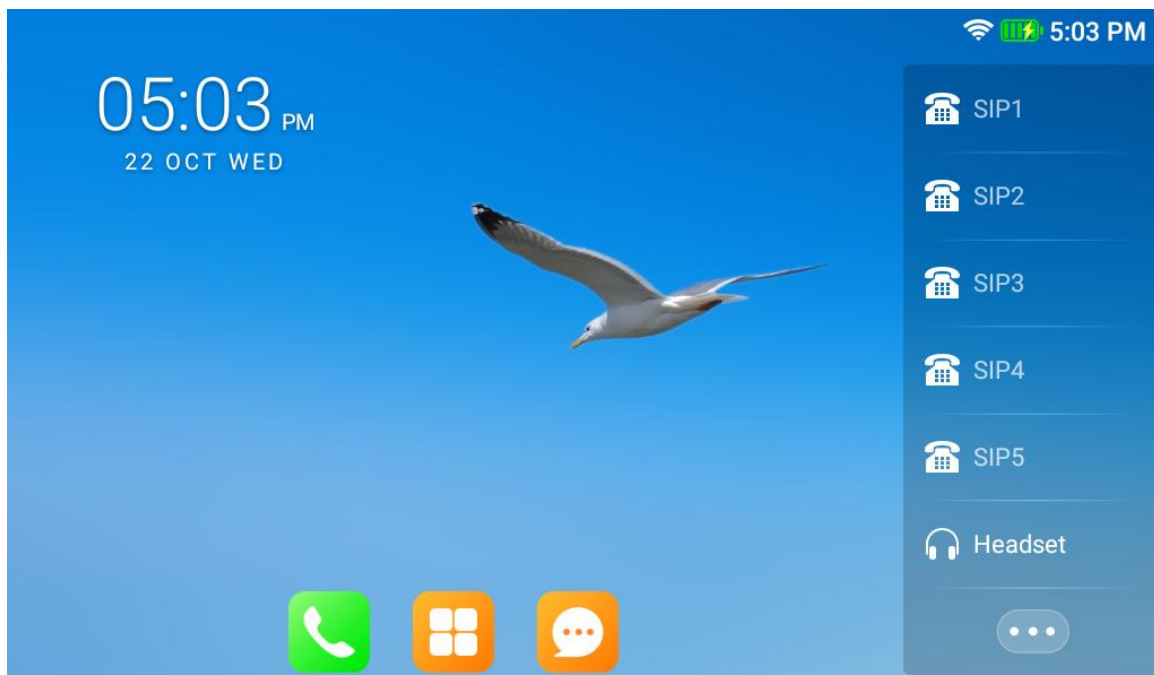


mobile phone interface

## Default Home Screen Overview



default home screen (DT200A)



default home screen (DT200D)

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

①. the status bar shows the status of the device, information and dynamic message notifications (such as voice messages, missed calls, automatic response, do not disturb, locked status, network connection status, etc.).

- ②. display time and date, can be changed by setting time zone, etc. .
- ③. Programmable Function Key, click expand, users can use the custom DSS keys (BLF/headphone/line key, etc.) .
- ④. Application Button, the user can operate the phone through the application.

**Note:** The maximum number displayed on the missed call/SMS icon is 99, which means that when the number of missed calls/SMS/MWI is greater than or equal to 99, the icon will show 99. The user can return the phone to the default standby screen interface by picking up and dropping the handle.

## Screen Touch Instructions

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

### **Click:**

The device can enter the setting and operation interface by clicking on any interface.  
The device supports multi-touch.

### **Long Press:**

Long press the app icon on the standby home page, you can adjust the app location or choose to delete.  
Long press the application icon in the menu interface to drag it to the main page.

### **Slide:**

The device supports sliding up, down, left, right.  
Slide down the standby home page to view the network connection information, date time and other information of the device; Slide up to exit the above information interface.  
Left slide can expand DSSkey, full screen display custom shortcut key information; Slide right to exit the above interface.

### **Drag:**

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

## Phone Status

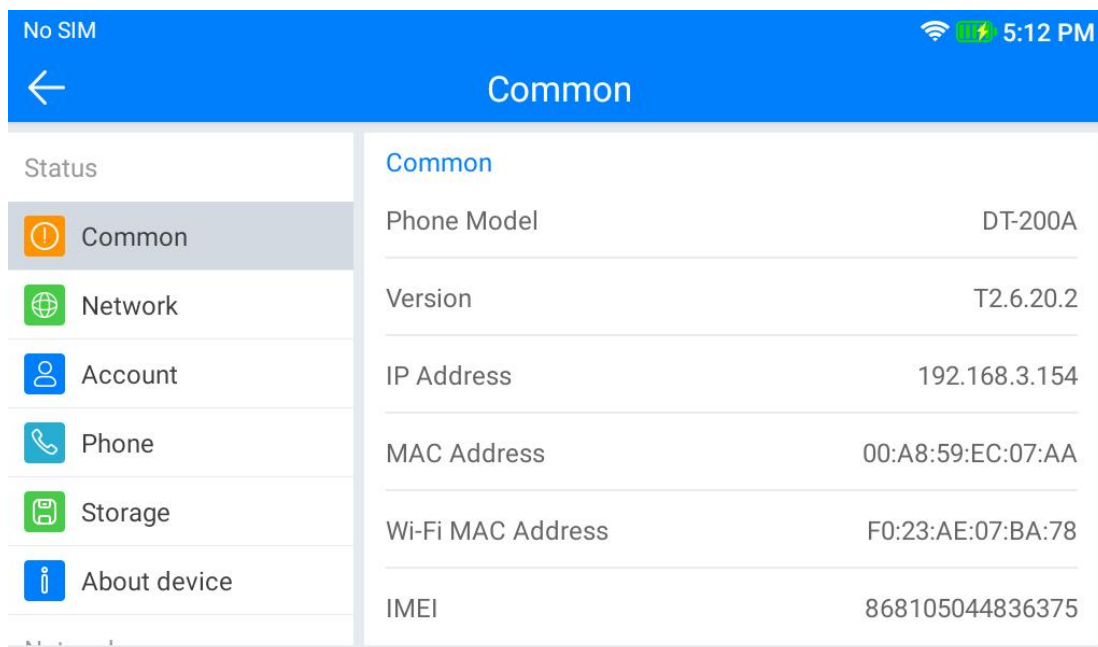
This section provides an overview of key system information available on the device, including hardware, network, and account status. Users can access this data either via the phone interface or the web management portal.

### **Phone Interface:**

## Procedure

To check phone status from the device:

1. On the home screen, go to **[Phone Settings] → [Status]**.
2. Select the desired item to view detailed information.



The Phone status

## Web Interface:

## Procedure

You can also access detailed status information from the web portal:

1. Obtain the IP Address:  
On the phone, press **[Menu] → [Status]** to view its current **IP address**.
2. Access the Login Page:  
Open a web browser on a computer connected to the same network, enter the phone's IP address into the address bar, and press Enter. The web interface login page will be displayed.
3. Log In:  
Enter the username and password to authenticate. The default credentials for both fields are **admin**.
4. To change the default password, please refer to the [Web Account](#) settings section in the manual.














WEB phone status

## Built-in Applications Overview

### Note:

The available built-in applications may vary depending on the phone model, software version, or custom configurations. Some enterprise or carrier-specific versions may include different or limited app sets.

 <p>Dialer</p>	<p>Click this icon to enter the pre-dial number interface, and then dial the corresponding operation through the screen or keyboard.</p>
 <p>SMS</p>	<p>Have SMS writing, reading and sending functions</p>
 <p>Phone Settings</p>	<p>It contains system information, network Settings, account Settings, call Settings, etc. You can make corresponding Settings under the corresponding menu.</p>
 <p>Calendar</p>	<p>Display and view dates, create activity reminders, etc.</p>
 <p>Clock</p>	<p>Can configure alarm clock, time, stopwatch, countdown Time - supports global time zone selection.</p>
 <p>Call Log</p>	<p>Access to call records to view all call records. You can also view all incoming calls, outgoing calls and missed calls by using the options key.</p>

 Explorer	View usb flash drive and system related files.
 DND	Turn on and off the disturb free configuration.
 Application	Click this icon to enter the application list screen
 Files	Manage local resource files such as images, videos, audios, as well as resource files on external USB drives.
 Contacts	Support search, add, delete, edit contacts and other functions.

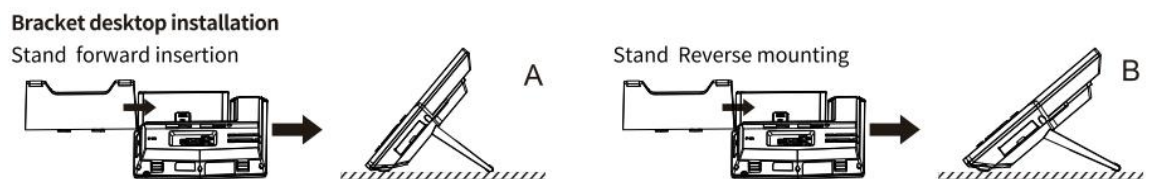
# Phone setup

This section guides you through the initial configuration steps necessary to start using your DT-200 phone. It covers essential setup tasks including power connection, SIM card installation, network configuration, and SIP account setup, ensuring your device is ready for calling and data services.

## Installation the device

### Desktop phone installation

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

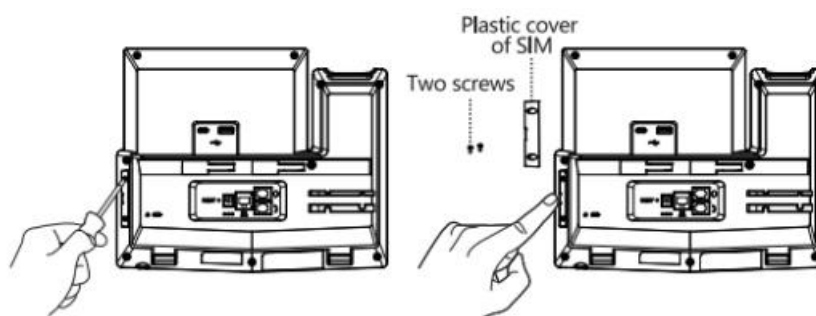


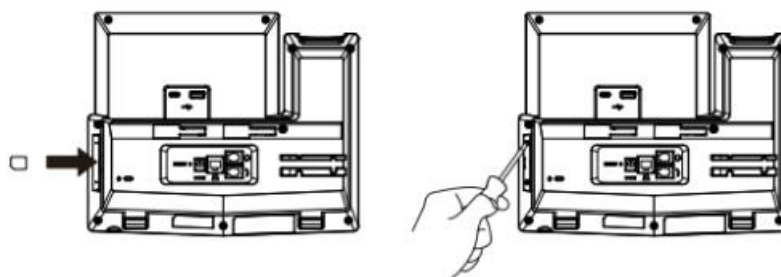
Desktop phone installation

### SIM card installation

#### Procedure

1. Use a screwdriver to remove the two screws securing the SIM card cover.
2. Lift the plastic SIM card cover to access the SIM slot.
3. Insert the Nano SIM card in the correct direction into the slot.
4. Reattach the plastic cover and secure it with the screws.

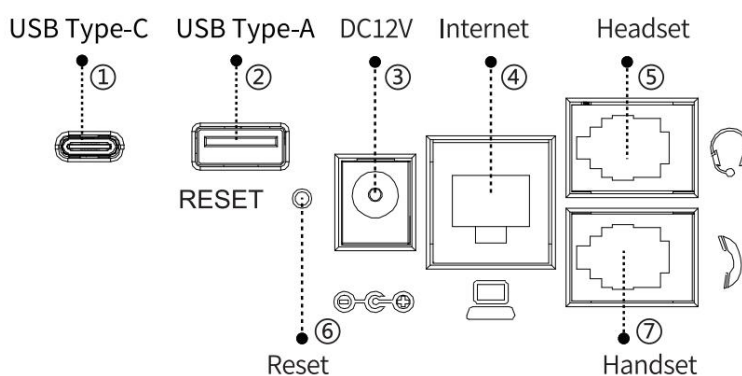




SIM card installation

## Connect Cables to the Proper Ports

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



Index	Description
① Type-C interface	USB extended use
② USB interface	Connect USB device (U disk)
③ Power port	Connect the power adapter
④ Network interface	connects to the LAN and the Internet



⑤ Headphone jack	Connects headphones
⑥ Reset hole	used for hardware reset(Mandatory)
⑦ Handset port	Connects to the phone handset

#### Hardware Interface Description

## Powering the Device

You can power the device using either the power adapter or the built-in battery.

- IP Phone supports power supply from external power adapter.
- For users, the dedicated power adaptor should be used. Please use the power adapter provided by the manufacturer to ensure that the equipment is working properly.
- The Phone supports a 1900mAh battery, which can support emergency use after abnormal power failure.
- The length of the battery is standby for 30 minutes or call for 10 minutes.

## Connect to the Network

This device supports three network connection modes: wired network connection, wireless network connection, and mobile data network connection.

### wired network

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

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

There are two common IP configuration modes about IPv4&IPv6:

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

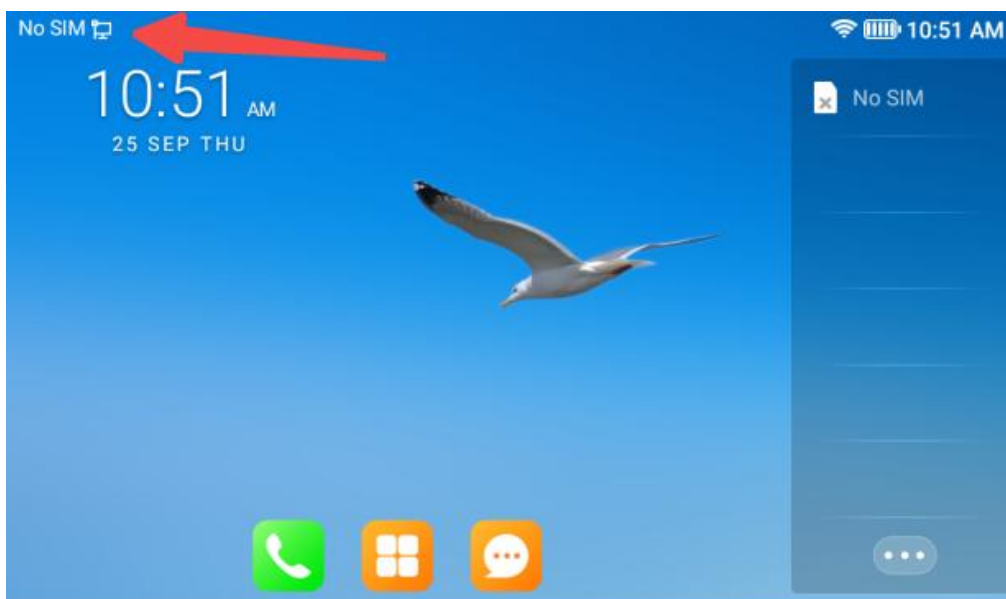
office environment or by power users.

The device is default configured in DHCP mode.

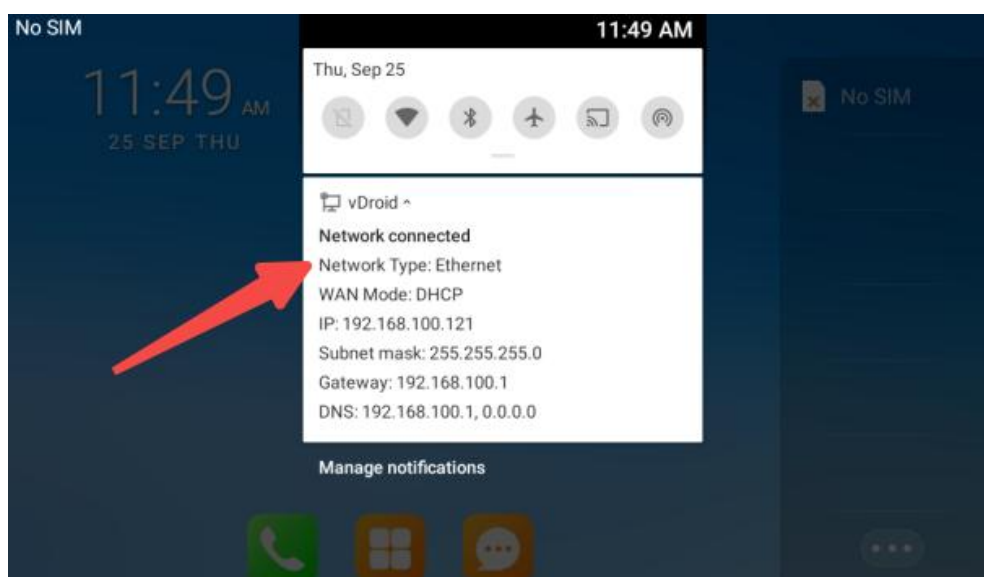
## Procedure

Connecting the SIP Phone to the Network:

1. Take the Ethernet cable included in the phone's packaging.
2. Connect one end of the cable to the network port on the SIP phone.
3. Connect the other end to a port on your network switch or router.
4. After successful connection, an **Ethernet icon** appears in the top left corner of the phone.



Status bar (1)



Status bar (2)

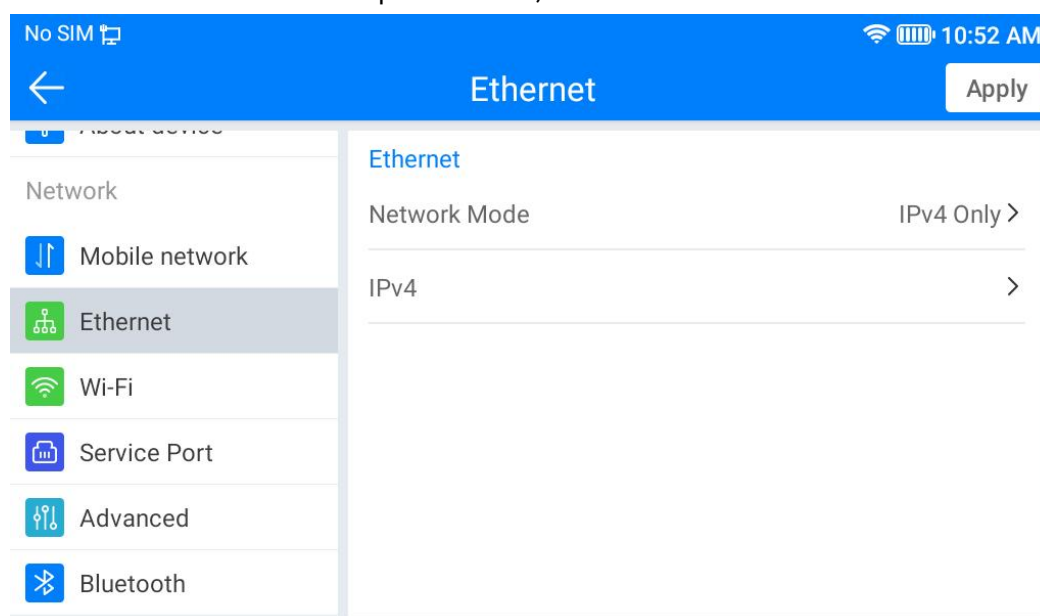


Note: If the "Network Disconnected" icon appears at the top of the screen, it indicates that the Ethernet cable is not properly connected to the phone's network port. Please check whether the cable is securely connected between the phone and the network switch, router, or modem.

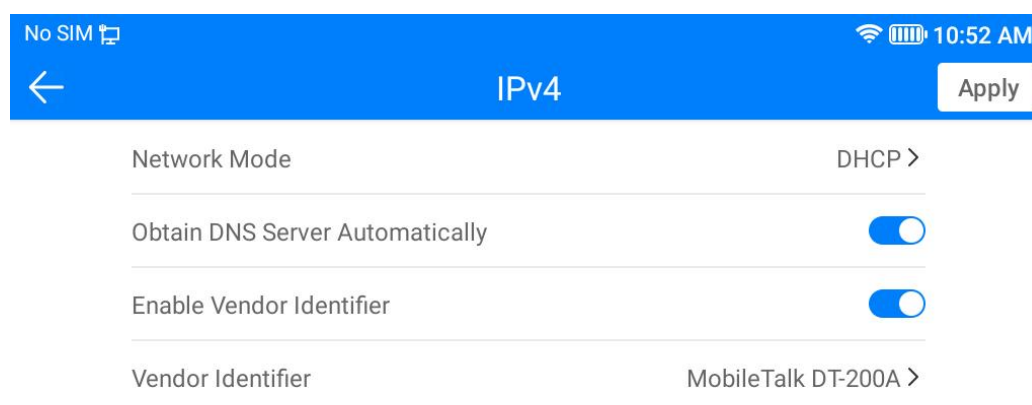
## Ethernet settings

Go to **[Phone Settings] → [Ethernet]**.

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



Ethernet settings



DHCP network mode

- When using DHCP mode, phone will get the IP address from DHCP server (router).
- Obtain DNS Server automatically: It is enabled as default. "Enable" means phone will get DNS address from DHCP server and "disable" means not.

No SIM
10:52 AM

←
IPv4
Apply

Network Mode	Static IP >
IP Address	192.168.1.179 >
Subnet Mask	255.255.255.0 >
IP Gateway	192.168.1.1 >
Primary DNS	8.8.8.8 >
Secondary DNS	202.96.134.133 >

Static IP network mode

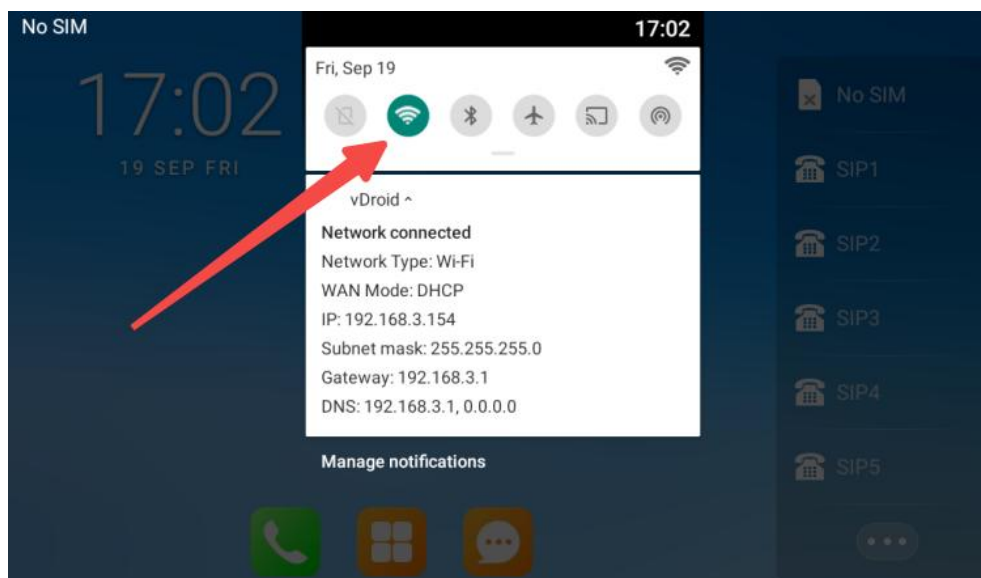
- When using Static IP mode, user must configure the IP address manually.  
 IP Address: Phone IP address.  
 Subnet Mask: sub mask of your LAN.  
 IP Gateway: The gateway IP address. Phone could access the other network via it.  
 Primary DNS: Primary DNS address. The default is 8.8.8.8, Google DNS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

## Wi-Fi

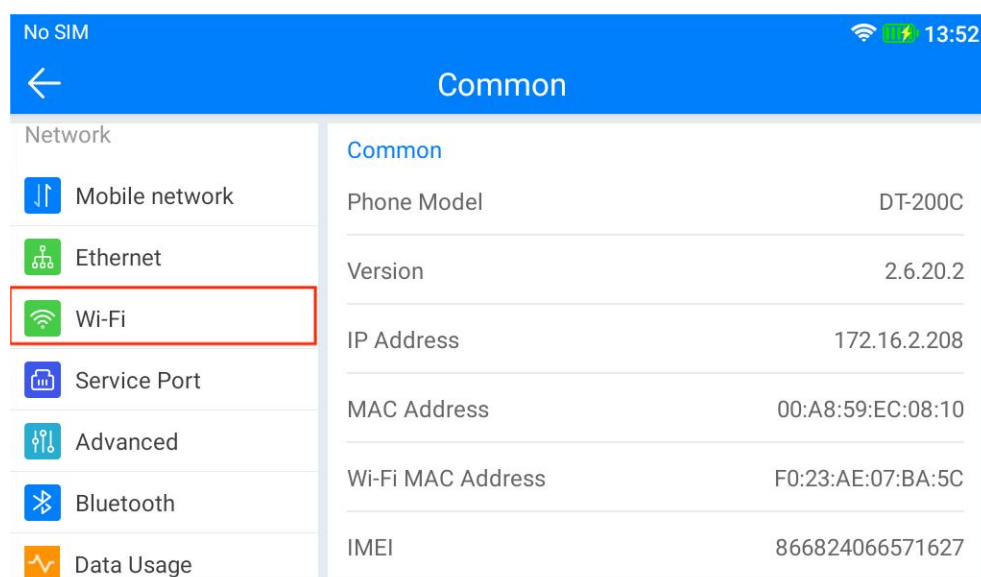
The device supports wireless Internet access and has built-in Wi-Fi without external devices.

### Procedure

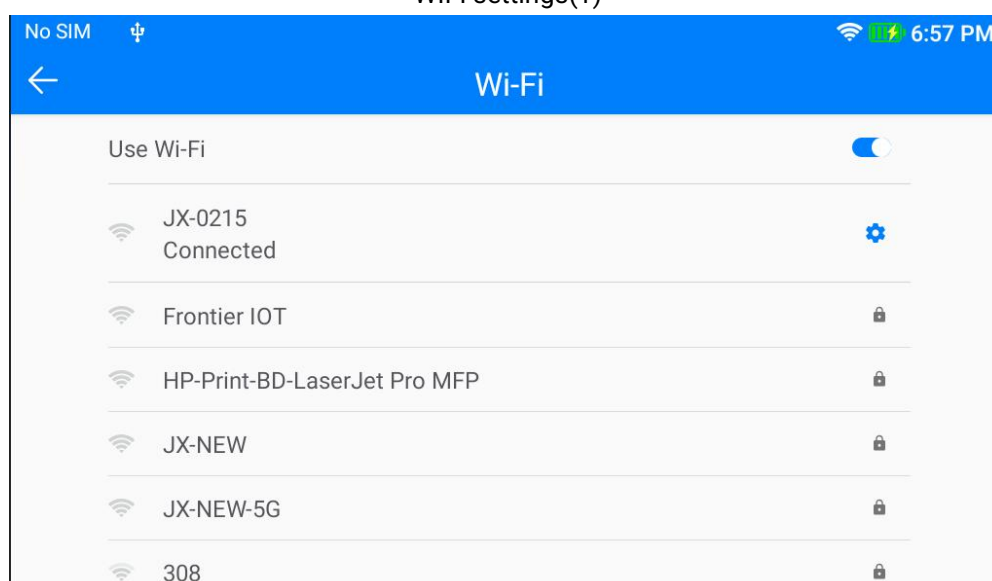
- 
1. Go to **[Phone Settings]** → **[WiFi]** or click on the WiFi icon in the standby drop down status bar.
  2. Enter **[Wi-Fi]** item.
  3. Enable the Wi-Fi to search the current wireless network automatically.
  4. Select to the available network, enter the user name and password to connect successfully.
-



Status bar



WIFI settings(1)



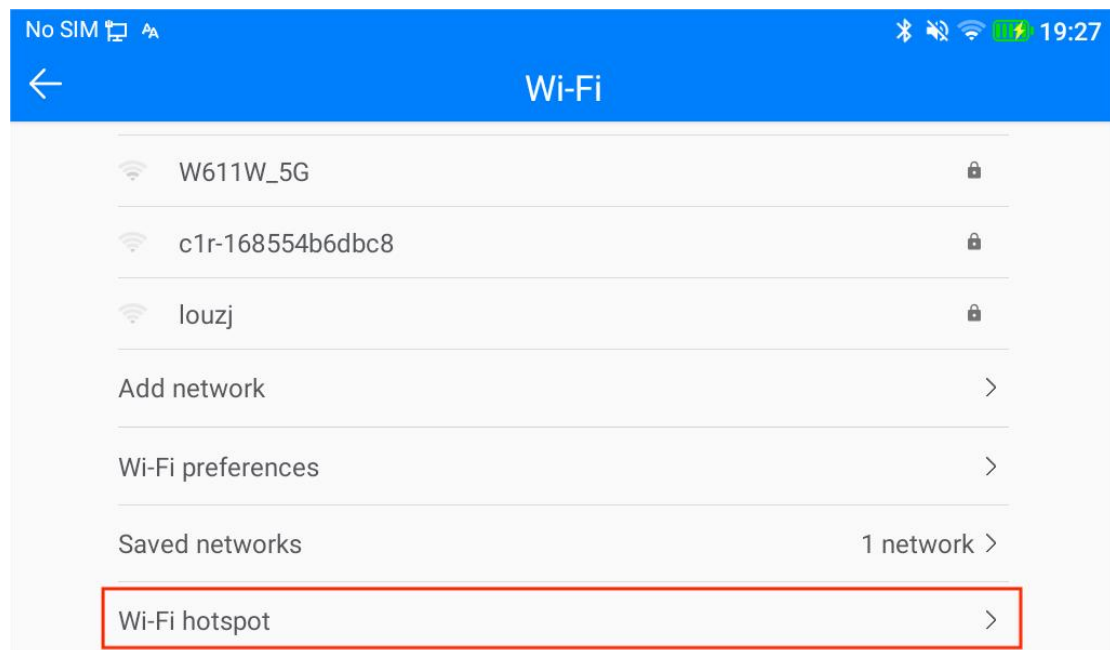
WIFI settings(2)

## Wi-Fi Hotspot

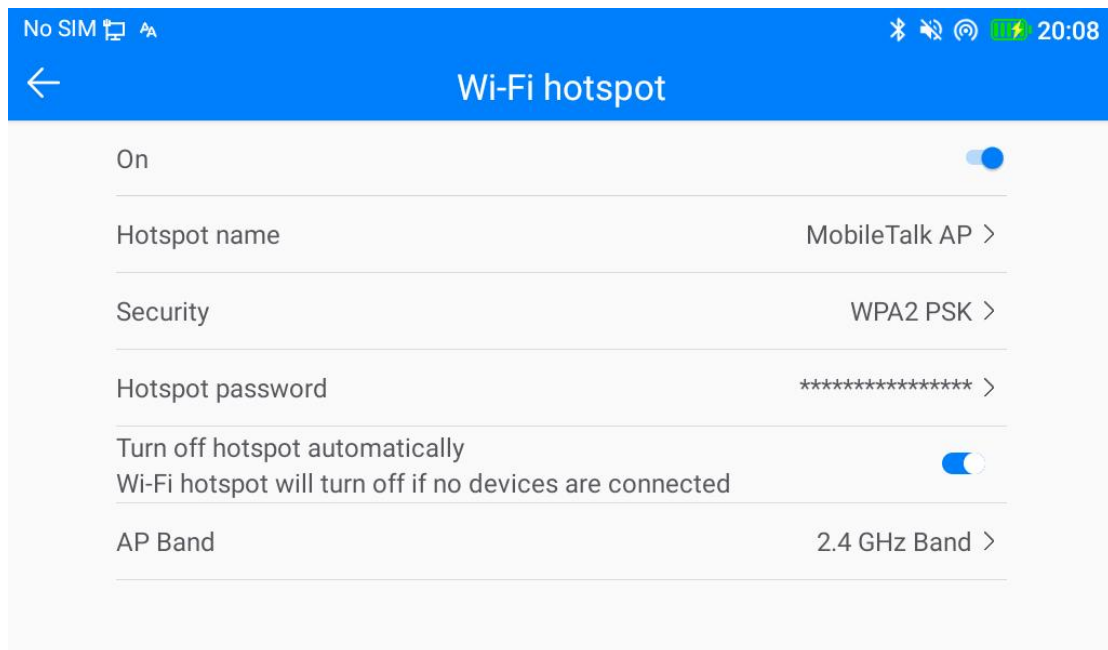
The phone supports the activation of a WiFi hotspot function, enabling other wireless devices to access the internet through the established network connection, thereby realizing network resource sharing among multiple devices and meeting the diverse connectivity needs of professional and daily office work.

### Procedure

1. Press **[Phone Settings]** → **[Wi-Fi]** or click on the WiFi icon in the standby dropdown status bar.
2. Enter **Wi-Fi hotspot** item.
3. The phone can set the WI-FI name and password and enable the Wi-Fi hotspot.
4. When enabled, other nearby devices can connect to the device via Wi-Fi search.



Wi-Fi hotspot settings(1)



Wi-Fi hotspot settings(2)

**Note:** If the "Turn Off Hotspot automatically" feature is enabled, the WiFi hotspot will automatically deactivate when no devices are connected for **6 minutes**.

## Mobile Network

### Procedure

#### Using Mobile Network :

1. Insert a valid SIM card into the powered-on phone.
2. Click Restart and wait for the phone to reboot. The mobile network will be ready for use after restart.

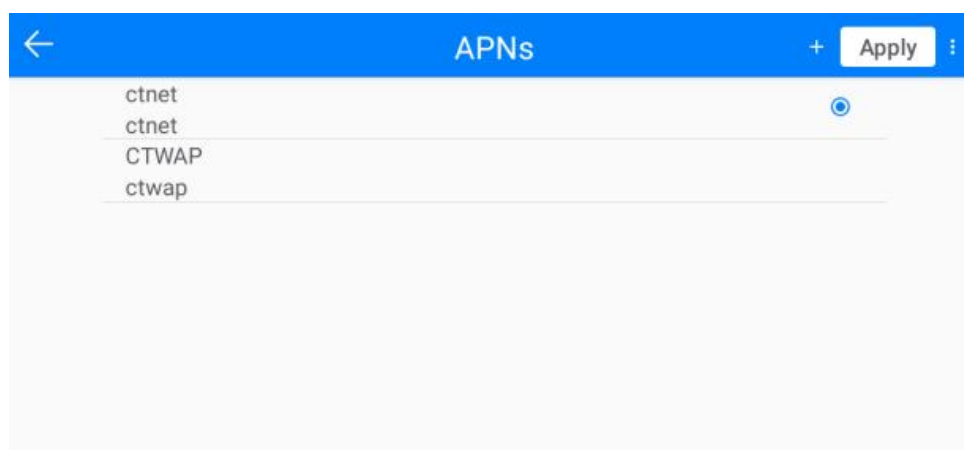
**Note:** SIM cards from most major carriers are supported for plug-and-play use.

#### Configure customized APN Settings:

1. After inserting the SIM card, navigate to:  
**[Menu] → [Phone Settings] → [Mobile Network] → [Access Point Names]**
2. Click on the '+' to add a new APN or click on an existing APN to edit  
 (Default APN can't be edited)
15. According to the information provided by the mobile operator, you can fill in the APN name and other fields, click on the Apply button to complete.

**Note:** If the mobile network fails to connect automatically, contact your carrier to confirm the

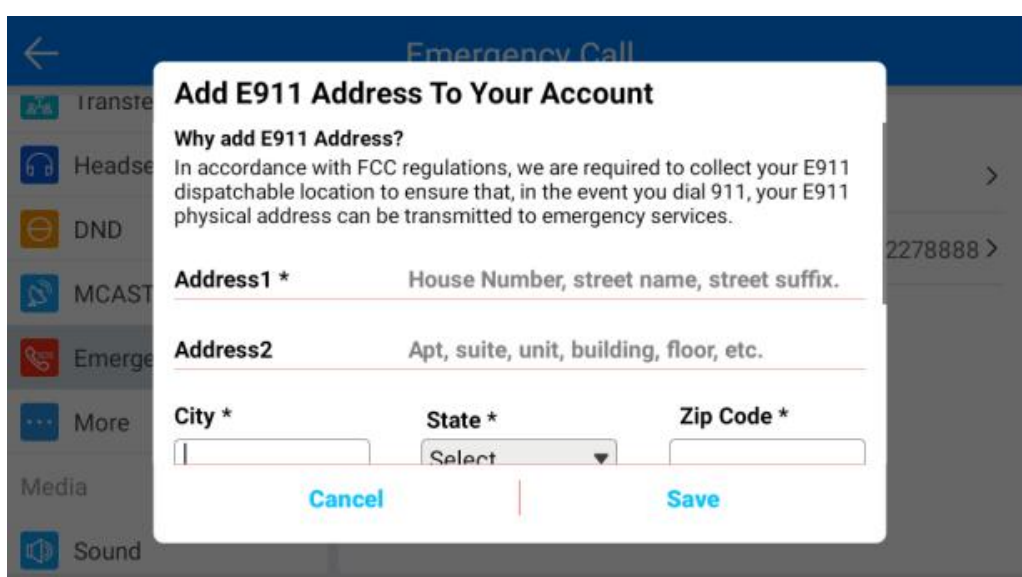
correct APN parameters.



APN List

## E911 Settings (Only DT-200A)

1. Insert a validated SIM card and confirm network connectivity.
2. Upon initialization, a pop-up prompts for **address, city, state, code zip, business name, and callback number** for precise location registration.
3. After successful verification, proceed to the main interface.
4. For emergencies, dial 911 to activate emergency services; device automatically transmits location to rescue center.
5. You can also manually modify the address. Path: **[Menu] → [Phone Settings] → [Emergency Call]**

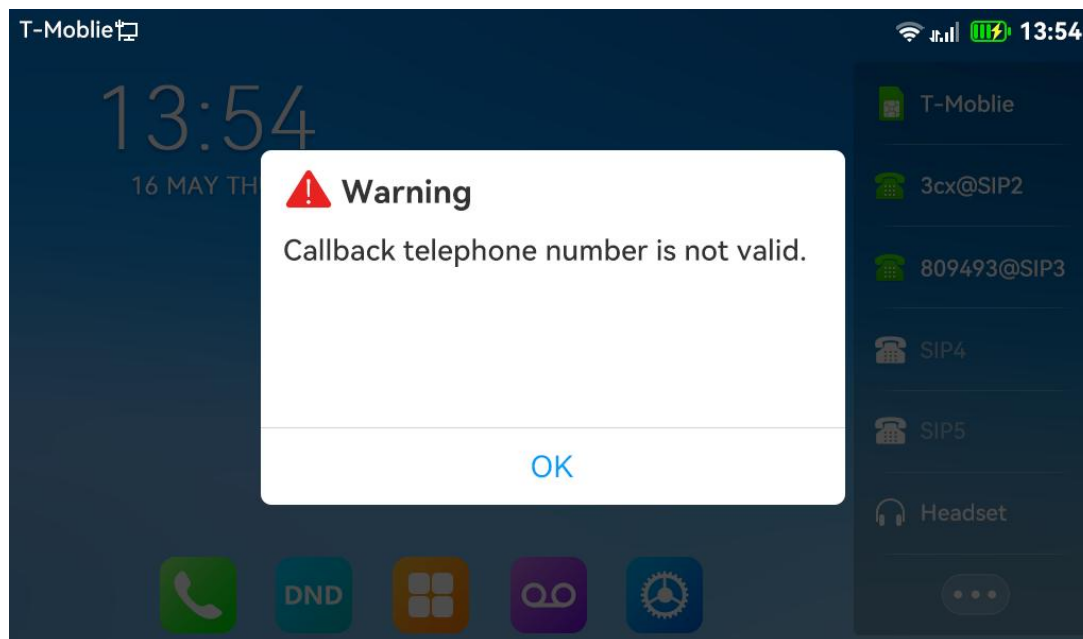


E911 Address

To ensure that the address input is complete and correct, the phone has a network error



correction mechanism. When there is an incorrect input, the phone will pop up a prompt. If there is an error in the input address, please update the emergency address according to the content of the error prompt.



Error message

## SIP Configuration

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

When the SIM card is inserted on the DT-200A, the LTE line is successfully configured by default. You can use the SIM card number provided by the carrier for communication services.

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

### Procedure

#### Phone Interface:

1. Manual configuration path: **[Menu] → [Phone Settings] → [Lines]**

2. Select any line → **[Account Registration]**:

Enter the corresponding information such as username, server address, server port, password, etc., and submit.

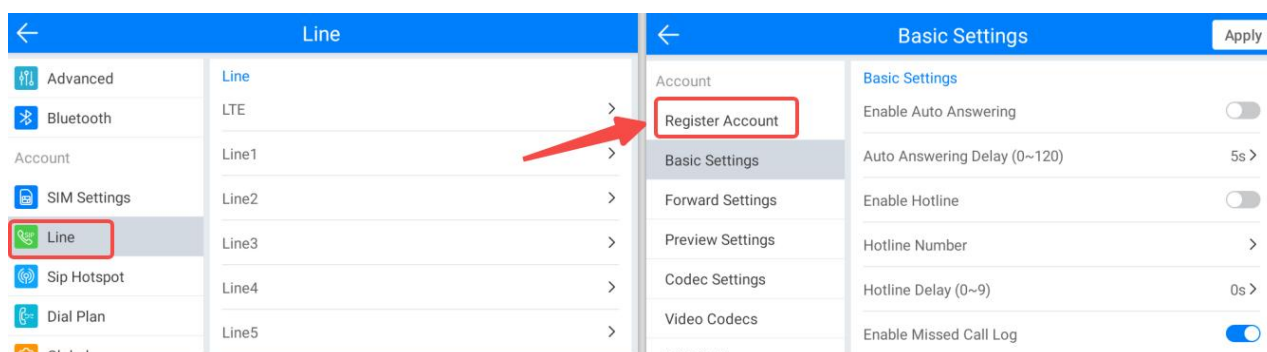
3. Display the line on the main interface:

On the main interface, navigate to the expanded DSSKey page. Long-press any DSSKey, set its Type to "Line", and select the target line account.

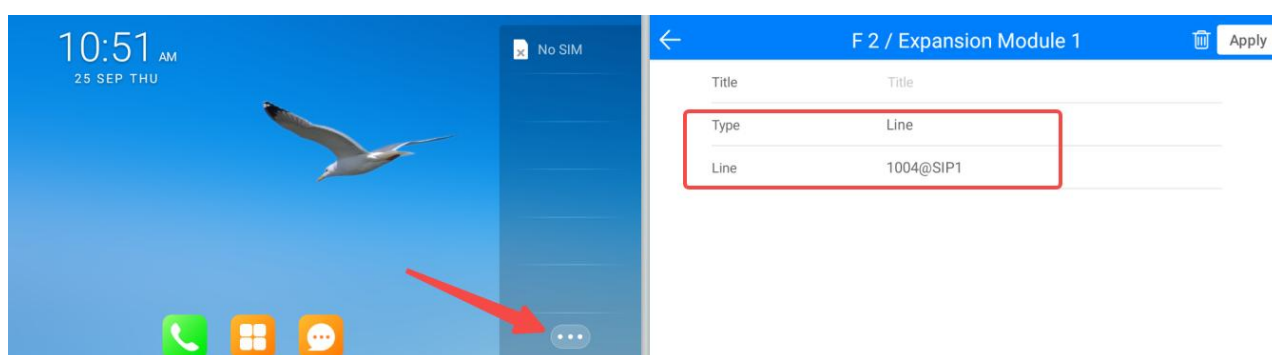
4. After successful registration, the line icon will turn green.

Note: When accessing the account settings or advanced settings interface, password authentication is required. The default PIN is "admin".

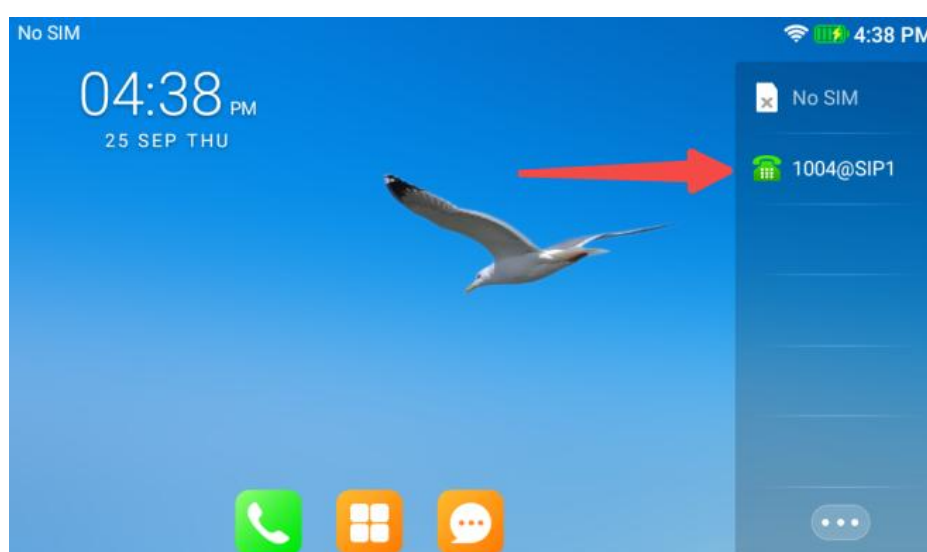
After successful registration, the line icon will turn green.



Phone line SIP Path



Configure Dsskey

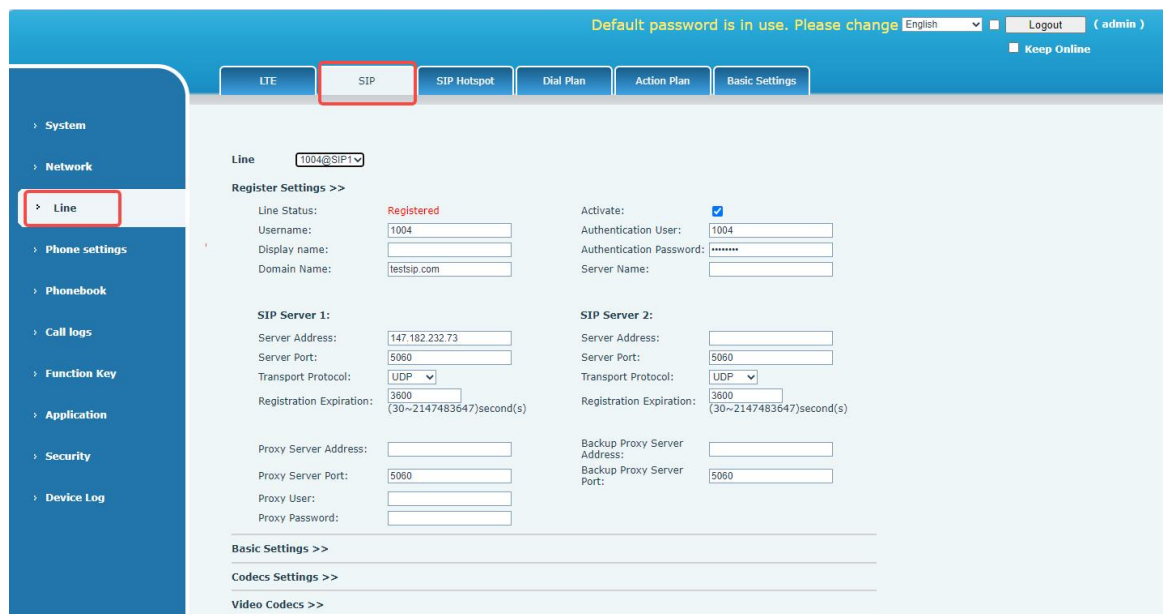


Successful Registration

## Procedure

### WEB interface:

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



The screenshot shows the Web SIP registration interface. At the top, there is a blue header bar with the text "Default password is in use. Please change" and a language dropdown set to "English". On the right of the header, there are "Logout" and "( admin )" links, and a "Keep Online" checkbox. Below the header, there is a navigation bar with tabs: "LTE", "SIP" (highlighted with a red box), "SIP Hotspot", "Dial Plan", "Action Plan", and "Basic Settings". On the left side, there is a sidebar menu with the following items: "System", "Network", "Line" (highlighted with a red box), "Phone settings", "Phonebook", "Call logs", "Function Key", "Application", "Security", and "Device Log". The main content area is titled "Line" and shows a dropdown menu with "1004@SIP1" selected. Below this, there are sections for "Register Settings >>", "SIP Server 1:", "SIP Server 2:", "Basic Settings >>", "Codecs Settings >>", and "Video Codecs >>". The "Register Settings >>" section includes fields for "Line Status" (Registered), "Username" (1004), "Display name", "Domain Name" (testsip.com), "Activate" (checked), "Authentication User" (1004), "Authentication Password" (masked), and "Server Name". The "SIP Server 1:" section includes fields for "Server Address" (147.182.232.73), "Server Port" (5060), "Transport Protocol" (UDP), and "Registration Expiration" (3600 seconds). The "SIP Server 2:" section includes fields for "Server Address", "Server Port" (5060), "Transport Protocol" (UDP), and "Registration Expiration" (3600 seconds). The "Basic Settings >>" section includes fields for "Proxy Server Address", "Proxy Server Port" (5060), "Proxy User", "Proxy Password", "Backup Proxy Server Address", and "Backup Proxy Server Port" (5060).

Web SIP registration

# Calls

You can use the phone to place and answer calls, ignore incoming calls, transfer a call to someone else, conduct a conference call and perform other basic call features.

## Making Phone Calls

The DT-200 series supports both SIP and LTE (on DT-200A) lines. Users can choose the default line and use a variety of methods to place phone calls.

## Default Line Selection

- The phone supports up to 20 SIP lines. If all 20 lines are configured successfully, users can make or receive calls using any of them. When a default line is set, the currently active default number or name is displayed in the top-left corner of the screen.
- For DT-200A, in addition to the SIP line service, the phone also provides a LTE line service. If the SIM card function is normal, users can use this line to dial or answer calls.

**To change the default line:**

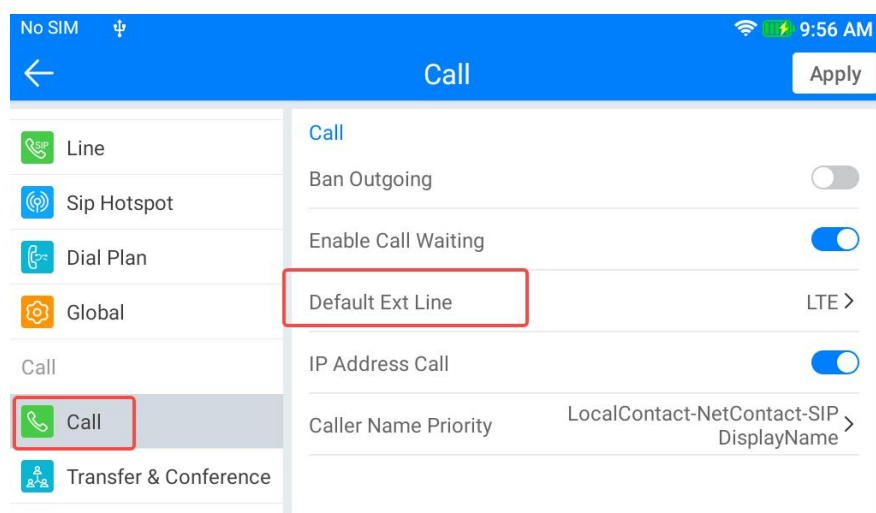
### Procedure

1. Navigate to **[Phone Settings] → [Call]**.
2. Select the **[Default Ext Line]** option.
3. Choose the desired line from the list.

**Note for DT200A models:**

If a valid SIM card is inserted, the default line is set to the LTE line.

If no SIM card is detected, the default line reverts to a SIP line.



## Dialing Methods

You can initiate a call using any of the following methods:

- Enter the number directly using the **keypad**.
- Select a number from the [Local Contacts](#).
- Select a number from the [Network Phonebook](#).
- Select a number from the **Call Log**.
- [Redial](#) the last called number.

## Dial First, Then Open Audio

After entering the number or selecting from any of the above sources, you can initiate the call by:

- Pressing the **[Dial]** softkey.
- Press the **Handsfree key** to use the speakerphone or connected headset.
- Lifting the **handset**.
- Pressing the **DSS-configured Line Key** to call via a specific line.

## Open Audio First, Then Dial

Alternatively, you can open the audio channel first and then enter the number.

### Procedure

- 
- Lift the handset, or
  - Press the **hands-free** or **headset button**, or
  - Press the **line key**, then enter the number.

To place the call:

- Press **[Dial]** or **[OK]**, or
  - Wait for the auto-dial timeout
-



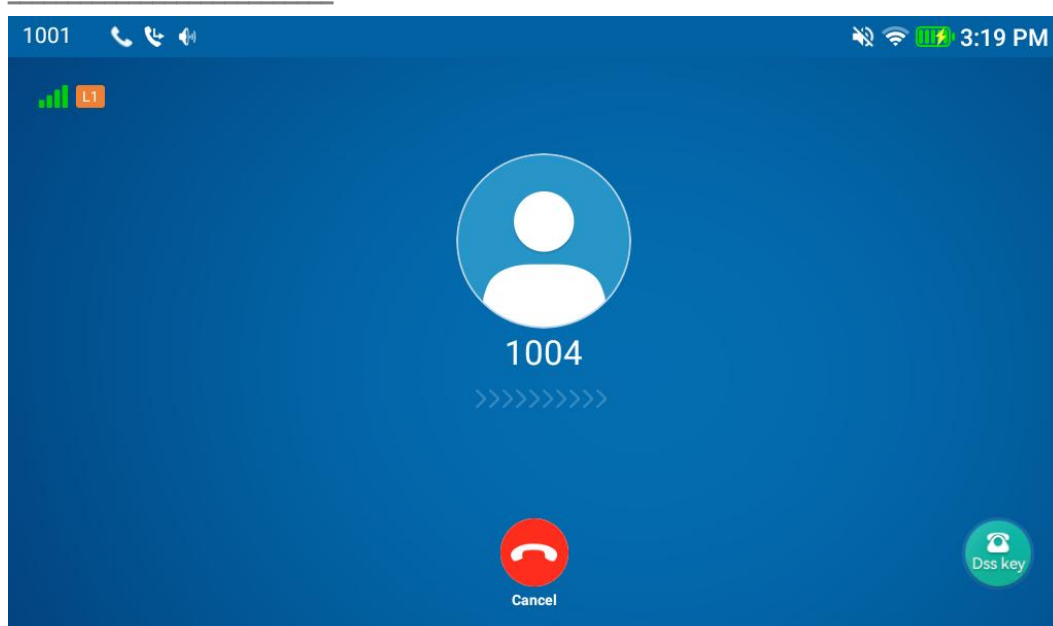
Open the voice channel and dial the number

## Canceling a Call

To cancel a call before it connects:

### Procedure

1. Put the handset back, or
2. Press the hands-free button, or
3. Tap the Cancel button on the screen



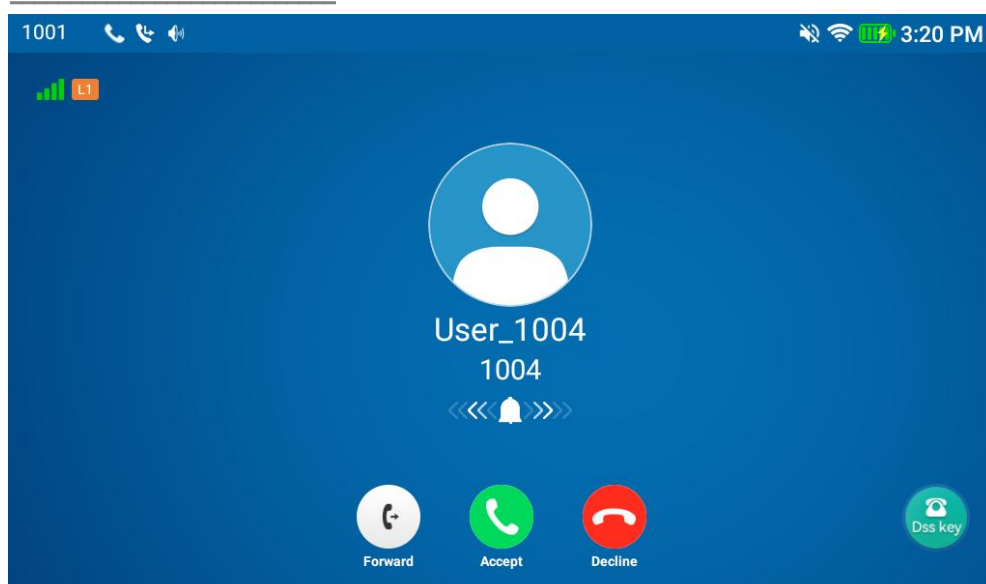
Call number

## Answering Calls

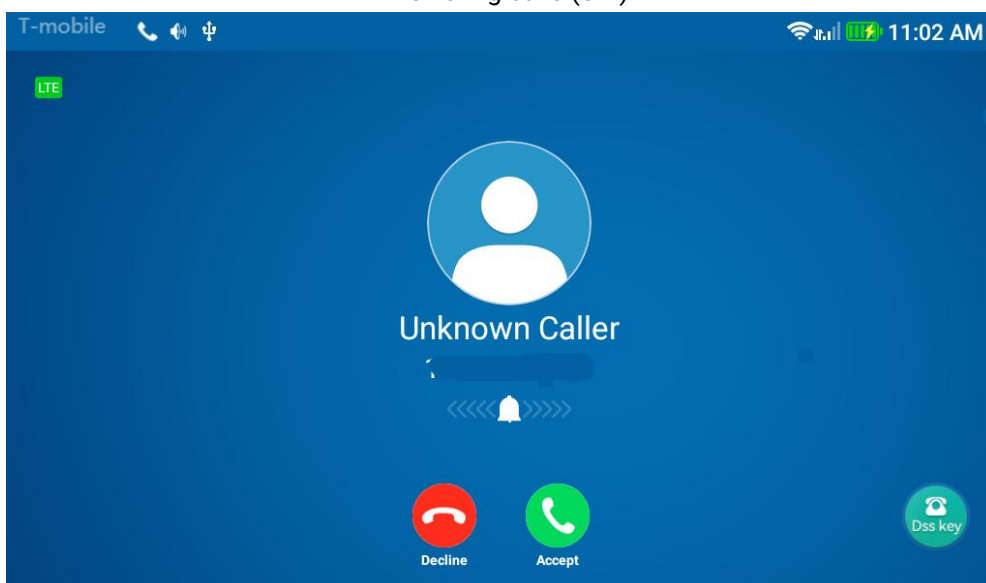
When the phone is idle and a call comes in, the user will see the call reminder screen as shown below. When using the **LTE line**, the **[Forward]** button is not available on the call interface.

### Procedure

- Lift the handset, or
- Press the hands-free button to use the speaker or headset, or
- Tap the **[Answer]** button (for LTE line, audio only).
- To forward the call, press the **[Forward]** button.
- To reject the call, press the **[Reject]** button.



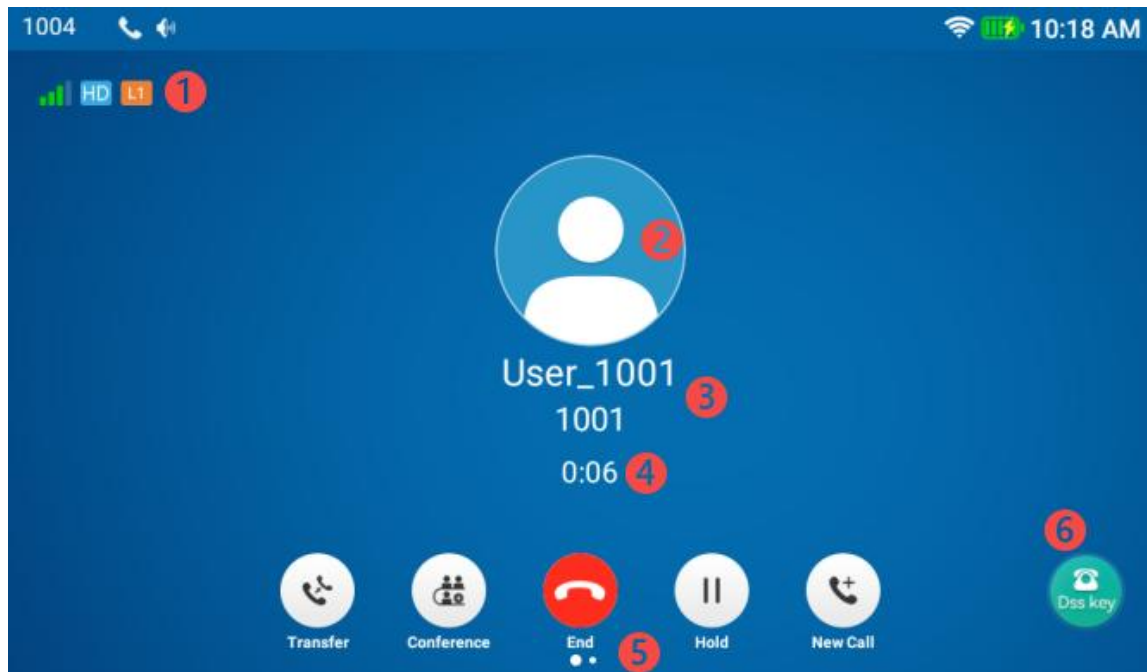
Answering calls (SIP)



Answering calls (LTE)

## On-Call Display

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



On-Call Display

Number	Name	Description
①	The current line	The line currently used by the phone.
②	User avatar	Default display, user can customize the selection of avatar pictures.
③	Calls name	The name or number of the person on the other end of the call.
④	Call duration	The duration of a call after it has been established.
⑤	Softkey Paging	Swipe right on the softkey bar to view the second page of softkeys.
⑥	DSSKey List	Tap the DSSKey area to expand the DSSKey list.

On-Call Mode

## Make / Receive the Second Call

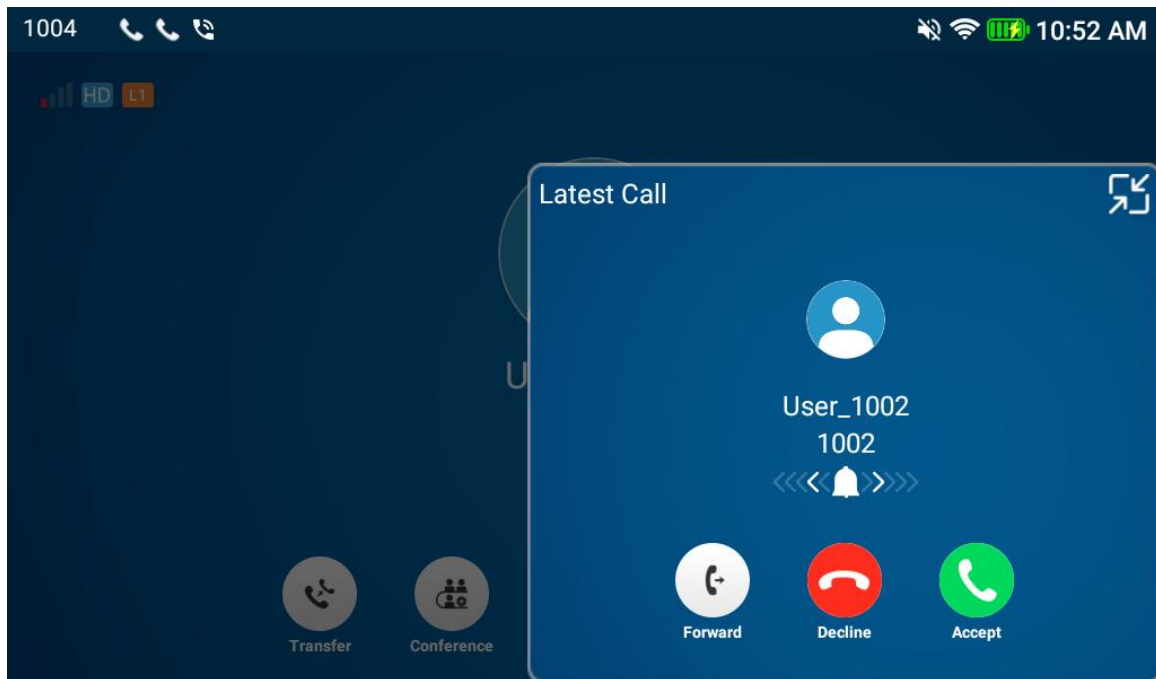
The device can support up to two concurrent calls. When there is already a call established, user can still answer another incoming call on either lines or make a second call on either lines.

### Receiving a Second Incoming Call



When a second call arrives during an active call:

- A notification will appear in the center of the screen.
- The device does not ring again but plays a call waiting tone through the current audio channel.
- The line LED will flash red.
- The user can choose to **[Answer]** or **[Reject]** the incoming call.
- If answered, the first call will be automatically placed on hold.



The second call interface

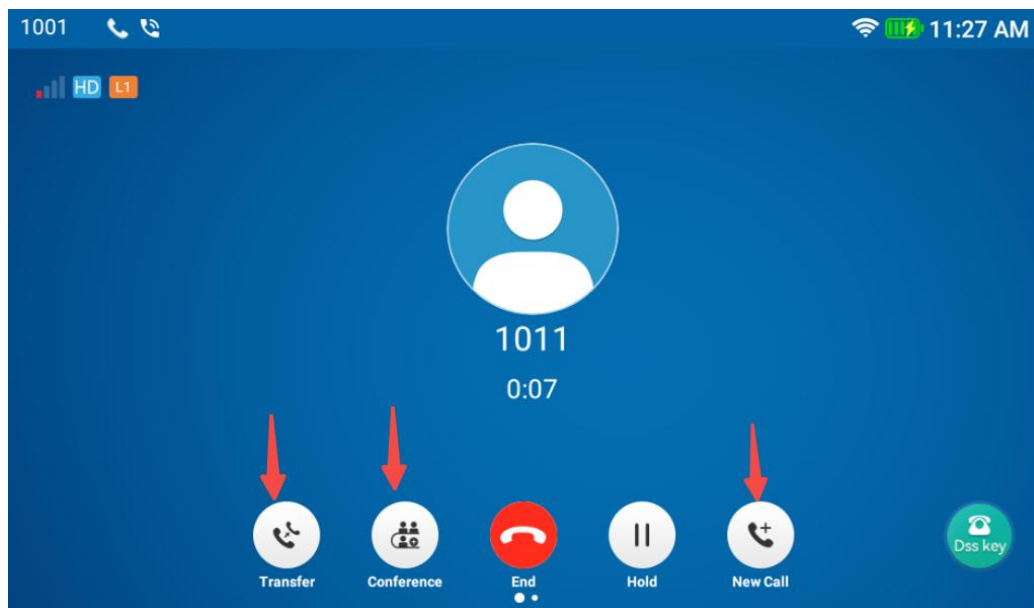
## Making a Second Outgoing Call

During an active call, the user can initiate a second call in the following ways:

- Tap **[New Call]**, **[Transfer]** (SIP lines only), or **[Conference]** (SIP lines only) to dial out using the default line.
- Press a **Line Key** to use a specific line.
- Use a **DSS key** (e.g., BLF, Speed Dial) to quickly dial a number.

When dialing out for the second call, the first call can either be held manually or is automatically placed on hold.

On DT-200A, if using the LTE line, the user can select **[New Call]** or use the speed dial function to initiate the second call.

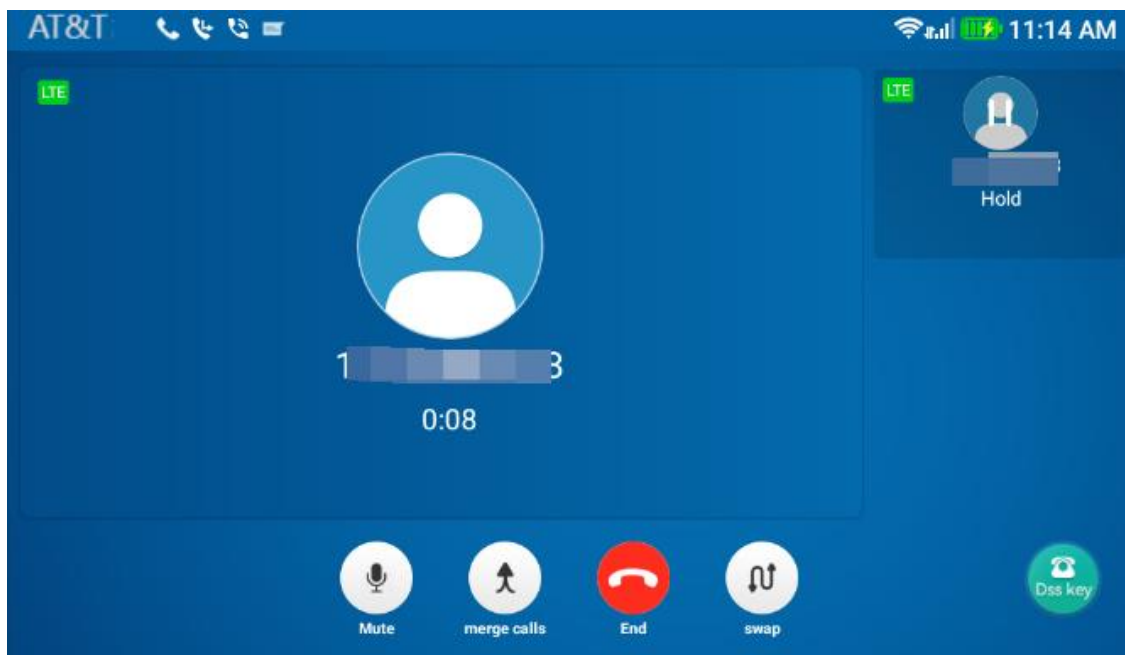


Talking interface

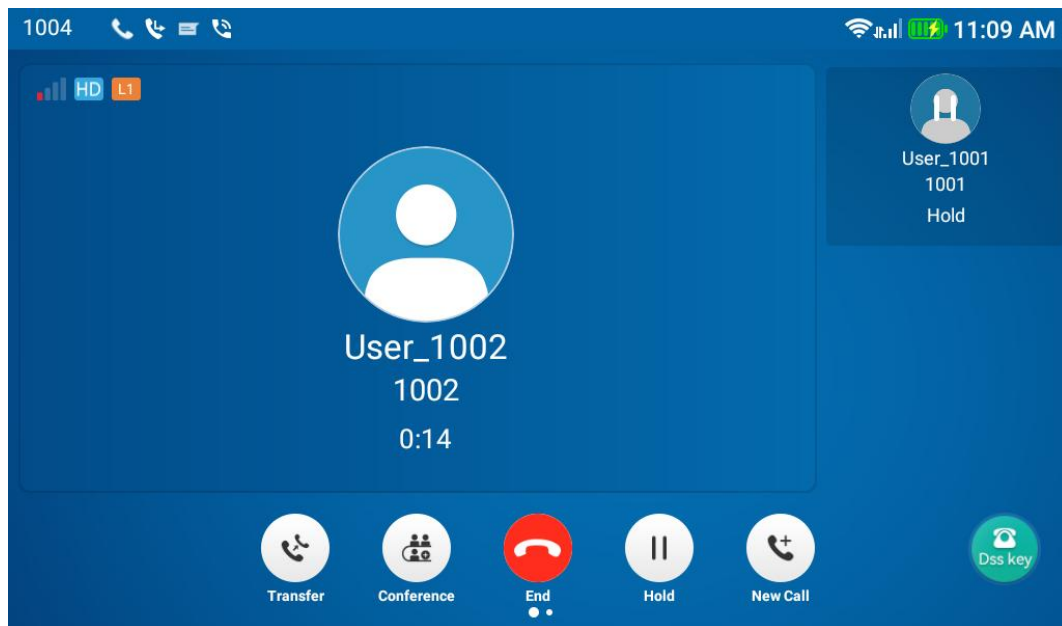
## Switching Between Two Calls

For **LTE**: tap **[Swap]** to switch between two calls.

For **SIP**: click on the other call, then press the **[Hold]** to retrieve the first call and switch between them.



Swap call on LTE

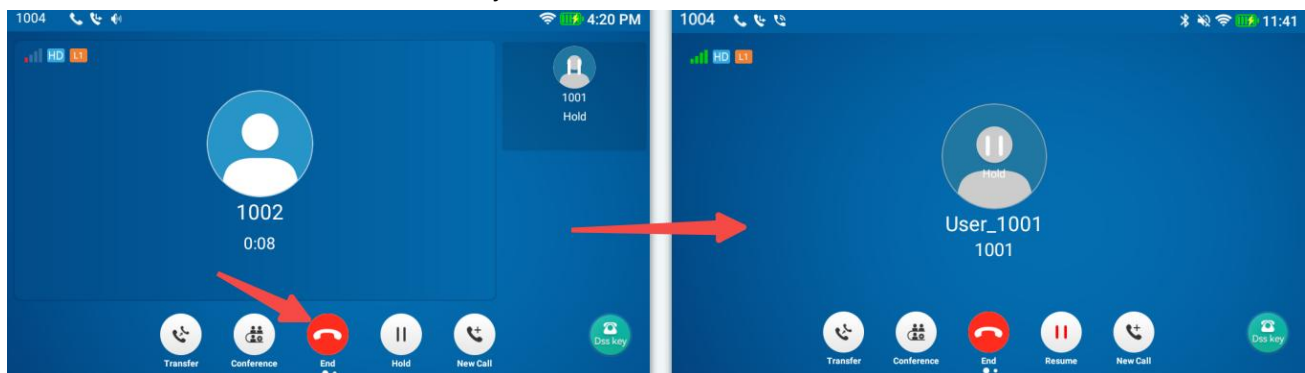


Hold call on SIP

## Ending One of the Calls

To hang up the current active call:

- End the call normally by closing the audio channel or tapping **[End]**.
- The device will automatically return to the held call interface.



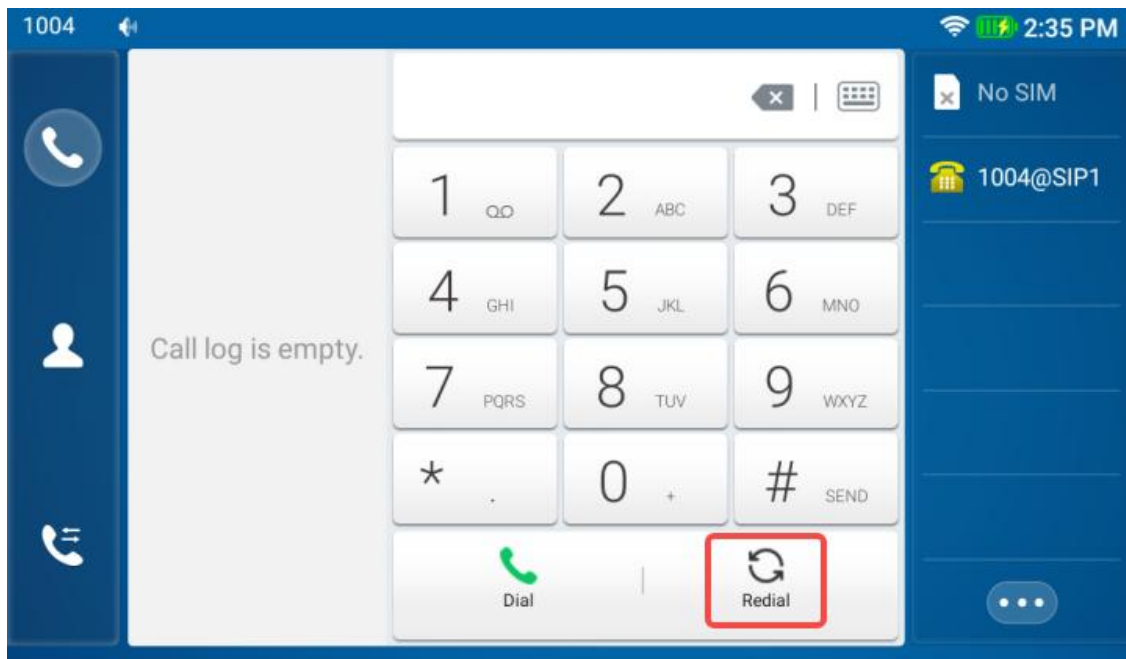
Convert to a single call

## Redial

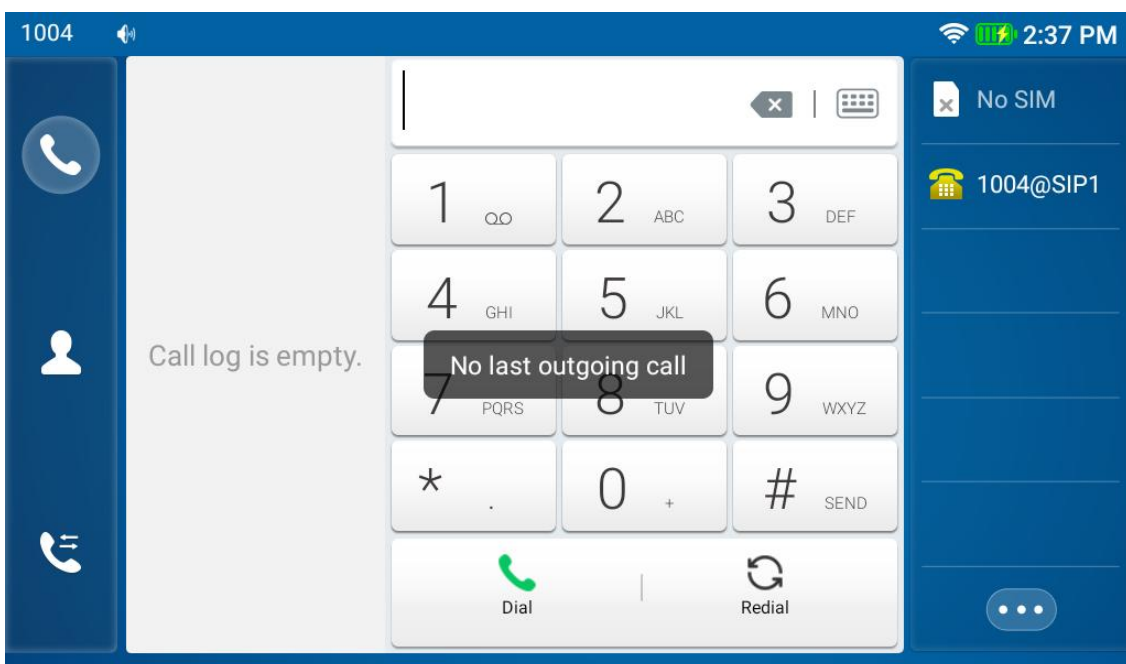
Redial the last outgoing number:

When the phone is in standby mode, press the redial button and the phone will call out the last number dialed.

**Note:** If the call record is cleared, it cannot be called out. The message "No last outgoing call" will be displayed.



Redial



No Call Records

## Auto Redial

This feature allows the phone to automatically redial a busy number at set intervals until the call is connected or the maximum number of attempts is reached.

### Procedure

1. Navigate to: **[Phone Settings] → [More] → [Redial & Call Completion]**.
2. Enable the Auto Redial feature.
3. Set the Redial Interval (1–180 seconds). The default is 30 seconds.
4. Set the Max Redial Attempts (1–100). The default is 5 times.

#### Additional Setting:

**Redial Opens Call Log:** When this option is enabled, pressing the **redial key** will automatically open the **call log** interface.

#### How It Works: Example Scenario

Let's examine how this feature interacts with the callee's settings in a scenario where Phone A is on a call with Phone B, and Phone C has Auto Redial configured.

##### • If Phone B has "Call Waiting" disabled:

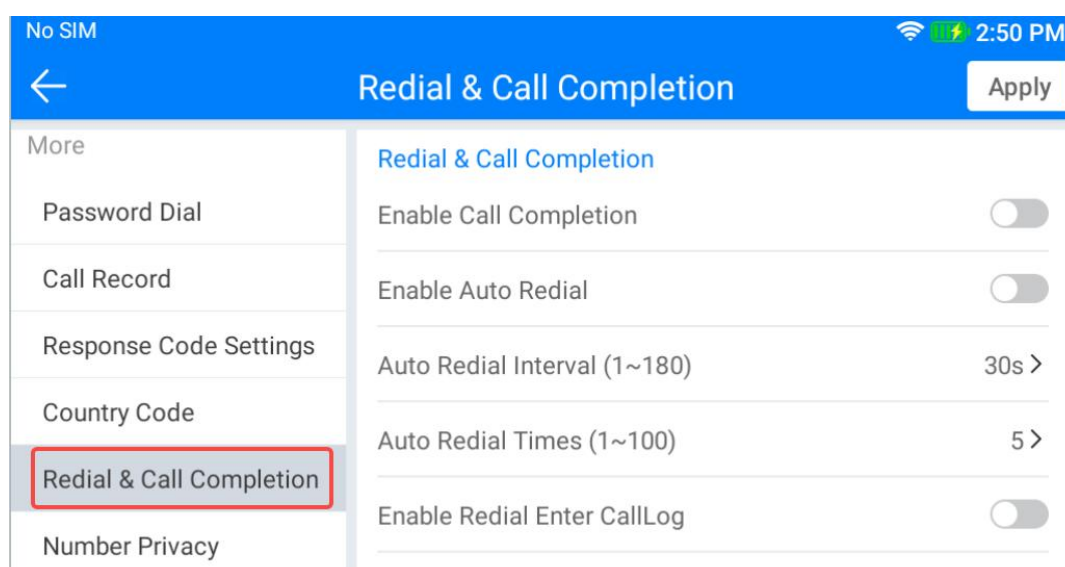
When Phone C calls Phone B, it will receive a "Busy" signal. An Auto Redial button will appear on Phone C's screen. If tapped, Phone C will automatically redial Phone B after the configured interval and continue to do so until the maximum number of attempts is reached.

##### • If Phone B has "Call Waiting" enabled:

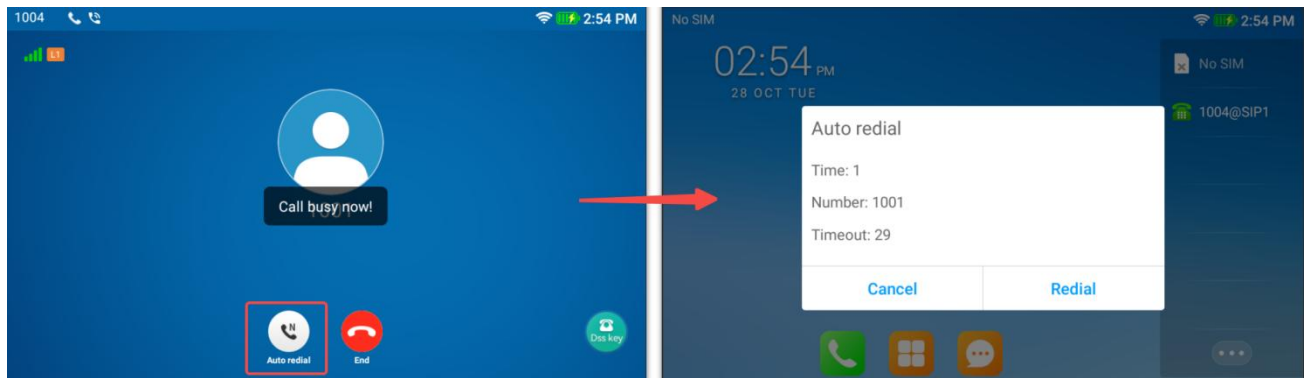
When Phone C calls, Phone B will be notified of the new incoming call with a call waiting alert. Whether Phone B rejects or answers this call, Phone C's Auto Redial function will not be triggered, as the call was technically presented to the recipient.

##### • If Phone B has "Do Not Disturb (DND)" enabled:

Phone C will not initiate the auto redial process, as it will receive a signal indicating the recipient is unavailable.



Redial & Call Completion interface



Auto redial interface

## Call Completion

This feature monitors a busy number and notifies you when the line becomes free, allowing you to easily redial.

### Procedure

1. Navigate to: **[Phone Settings] → [More] → [Redial & Call Completion]**.
2. Enable the Auto Call Completion feature.

### How It Works: Example Scenario

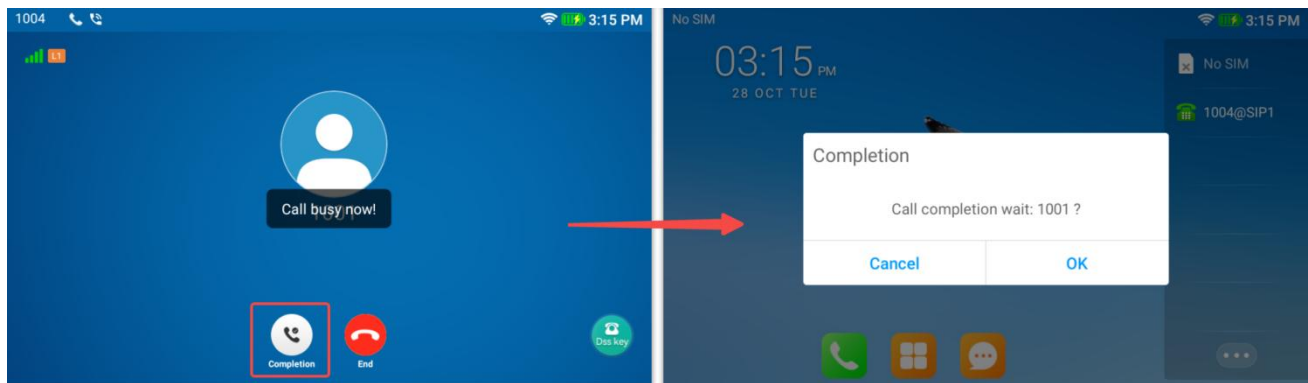
Let's examine how this feature interacts with the callee's settings in a scenario where Phone A is on a call with Phone B, and Phone C has the Call Completion feature configured.

#### • If Phone B has "Call Waiting" disabled:

1. Phone C calls Phone B and receives a "Busy" signal.
2. A "Call Completion" button appears on Phone C's screen.
3. Upon tapping it, a prompt saying "Waiting for B's call to end" appears. Click OK to confirm.
4. Once Phone B ends the call with Phone A, Phone C receives a pop-up notification: "Call completed for: B".
5. The user can then choose to:
  - Redial: To automatically call Phone B.
  - Cancel: To dismiss the notification without calling.

#### • If Phone B has "Call Waiting" enabled:

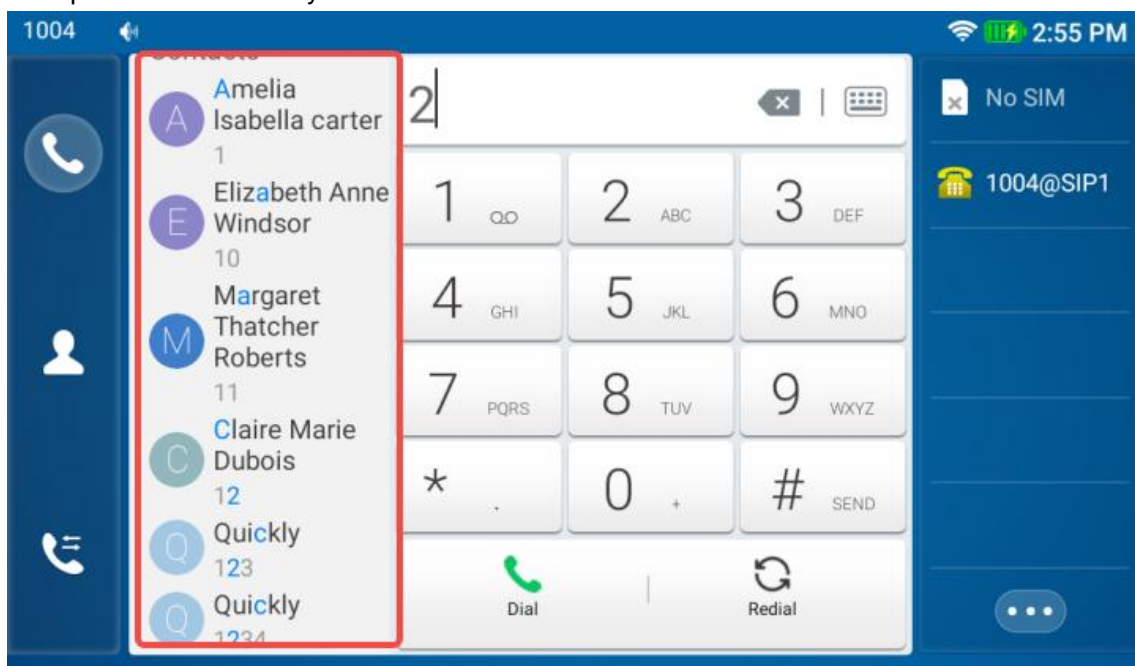
This feature will not be triggered. When Phone C calls, Phone B will receive a call waiting alert. The Call Completion function is designed for use when a line is initially busy, not when a call is presented and then missed, rejected, or ended.



Call Completion

## Smart Dial Suggestions

Phone is defaulted to open the dial-up inquiry function, dial-out, enter one or more Numbers, dial the interface will automatically match call records, contacts in the number list, select the number, press the call out key.



Dial-up Query

## Auto-Answering

User may enable auto-answering feature on the device and incoming call will be automatically answered.

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

interface.

Note:


**Multiple Incoming Calls:** Only the first incoming call is automatically answered. Subsequent calls will be displayed as a new incoming call pop-up on the screen.

**Interaction with Call Forwarding:** If any form of call forwarding is active, the auto-answer feature is overridden. New incoming calls will be forwarded according to the forwarding rules and will not be auto-answered.

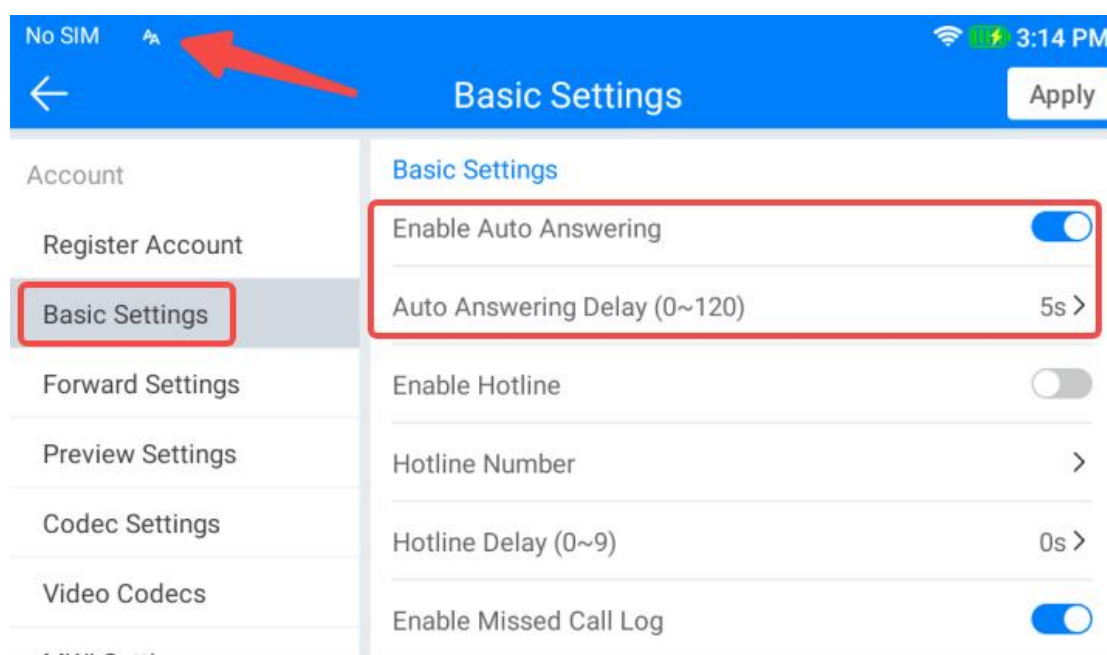
**During an Active Call:** The auto-answer function is disabled when the line is busy with an existing call. Any new incoming call will ring normally or follow the busy call handling rules without being automatically answered.

### Phone Interface:

#### Procedure

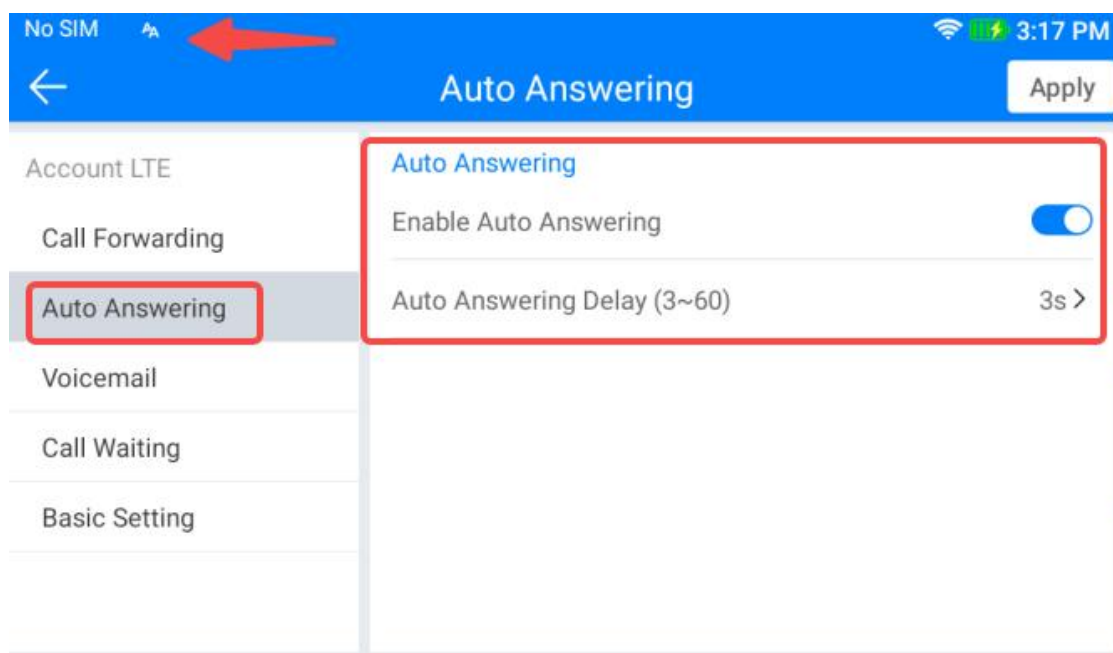
1. Go to **[Phone Settings]** → **[Line]**.
2. Press the button to select the desired line.
3. Enter **[Basic Settings]**.
4. Toggle the **Auto-Answering** option to **ON**.
5. Set the **Auto-Answer Delay Time** (default is 5 seconds).
6. Click **Apply** to save the settings.
7. An auto-answer icon will appear in the upper left corner of the screen  to indicate that auto-answering is enabled.

Note: For LTE lines, navigate to **[Phone Settings]** → **[Line]** → **[LTE]** and select the desired LTE account first.





Line 1 enables auto-answering

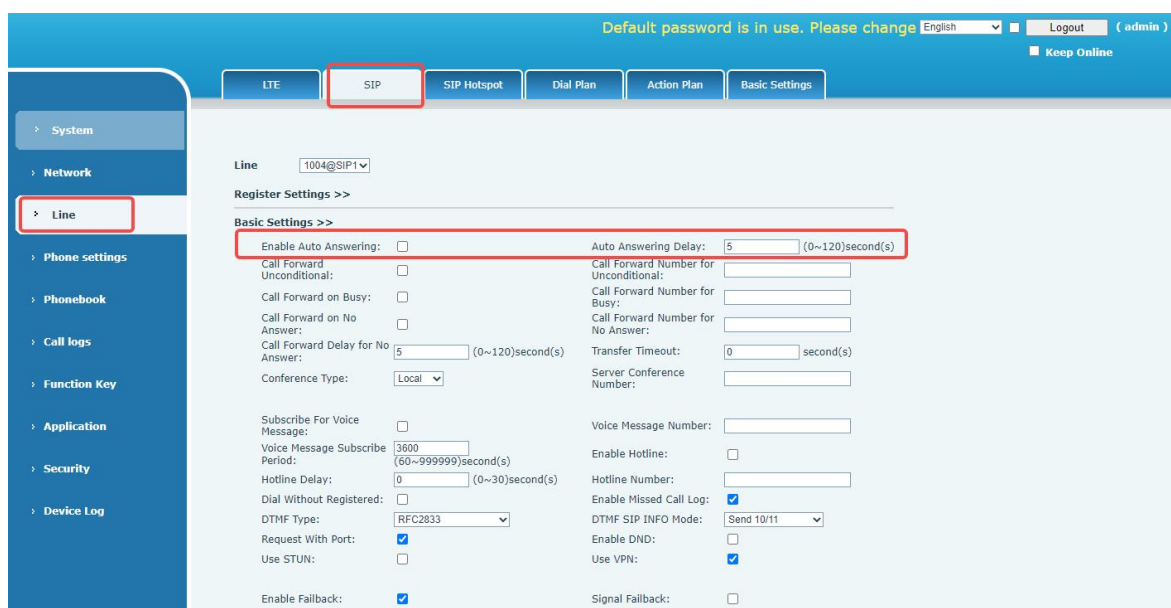


LTE enables auto-answering

### Web Interface:

#### Procedure

1. Log in to the phone's web portal.
2. Navigate to **[Line]** → **[SIP]**.
3. Select the target **[SIP N]**, then go to **[Basic Settings]**.
4. Enable **Auto-Answering** and set the **delay time**.
5. Click **Apply** to save the settings.



Web page to start auto-answering

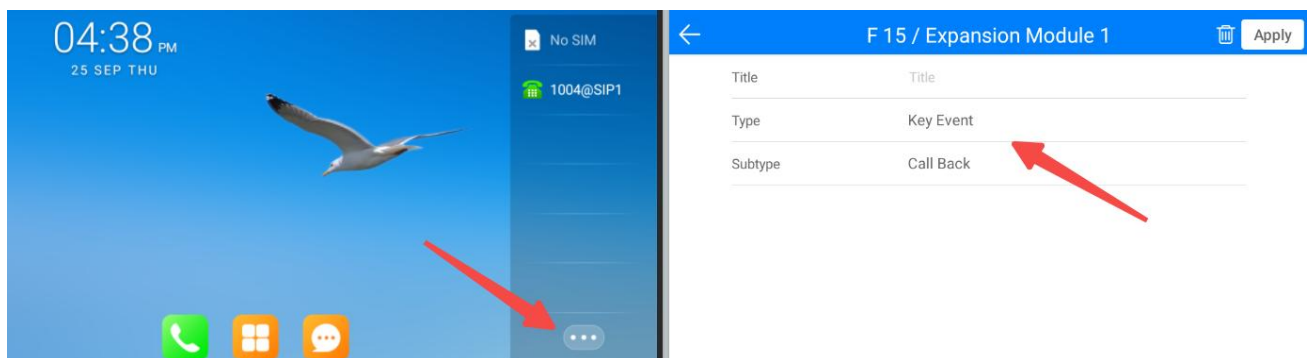
## Call Back

The user can press the Callback key to dial the number of the last incoming call. If there is no call history, press the **[Call back]** key and the phone will say "No missed call".

### Phone Interface:

#### Procedure

1. In standby mode, tap the "..." icon to enter the DSSKey configuration interface.
2. **Long-press** the desired programmable key to enter its settings menu.
3. Set the key type to **Callback**.
4. Press the **Apply** button to save.



Set the callback key on the phone

### Web Interface:

#### Procedure

1. Log in to the web interface.
2. Go to **[Function Key] → [DSS Key]**.
3. Select the DSS key position to be configured.
4. Set the key type to **Callback**.
5. Press the **[Apply]** button to save.

**Note:** The callback function is primarily designed to handle unanswered calls (such as when the line is busy, there is no answer, or the call is rejected). Calls that were successfully answered are considered completed communications and are typically not the primary target of this feature.

Default password is in use. Please change English Logout ( admin )  
☐ Keep Online

**Function Key** **Softkey** **Advanced**

**Function Key Settings**

Dsskey Transfer Mode: Make a New C Dsskey Home Page: None  
Dsskey Long Press: Long Press Ed Apply

Page1 Page2 Page3 Page4 Delete Add New Page

Key	Type	Name	Value	Subtype	Line	Media	PickUp Number
DSS Key 1	Line			None	LTE	DEFAULT	
DSS Key 2	Line			None	1004@SIP1	DEFAULT	
DSS Key 3	None			None	AUTO	DEFAULT	
DSS Key 4	Key Event			Call Back	AUTO	DEFAULT	
DSS Key 5	None			None	AUTO	DEFAULT	
DSS Key 6	None			None	AUTO	DEFAULT	
DSS Key 7	Key Event			Headset	AUTO	DEFAULT	
DSS Key 8	Key Event			Redial	AUTO	DEFAULT	

Set the callback key on the web page

## Mute

You can turn on mute mode during a call and turn off the microphone so that the local voice is not heard. Normally, mute mode will be automatically turned off at the end of a call. You can also turn on mute when the phone is in standby mode and automatically mute the ringtone when there is an incoming call.

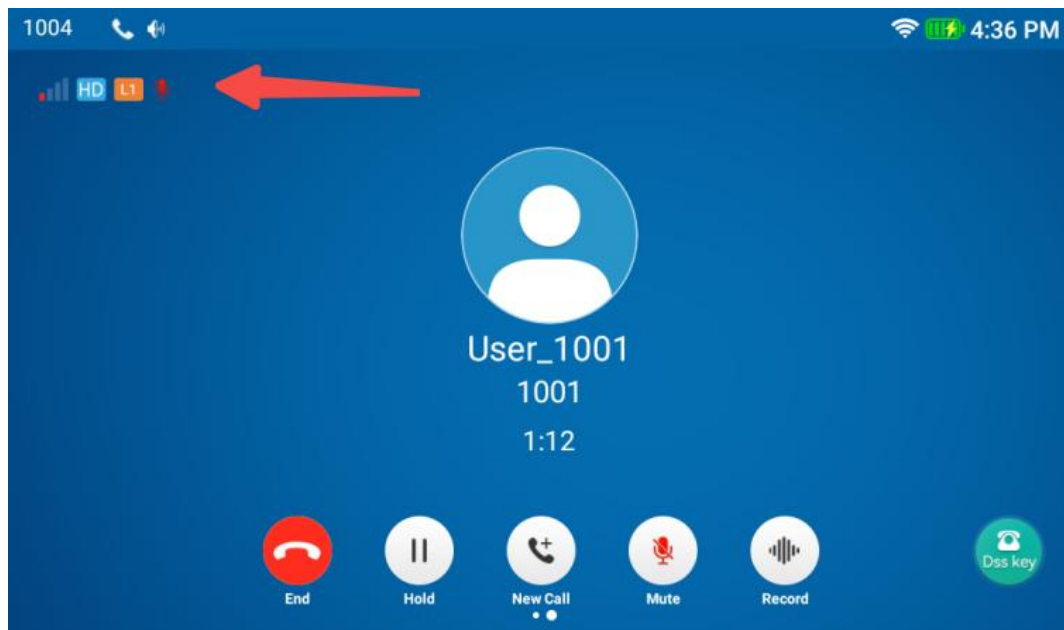
Mute mode can be turned on in all call modes (handles, headphones or hands-free).

## Mute the Call

**To mute a call:**

**Procedure**

1. During the conversation, press the **mute button** on the phone.
2. The red light of the mute button will turn on.
3. A red mute icon will appear on the call interface.

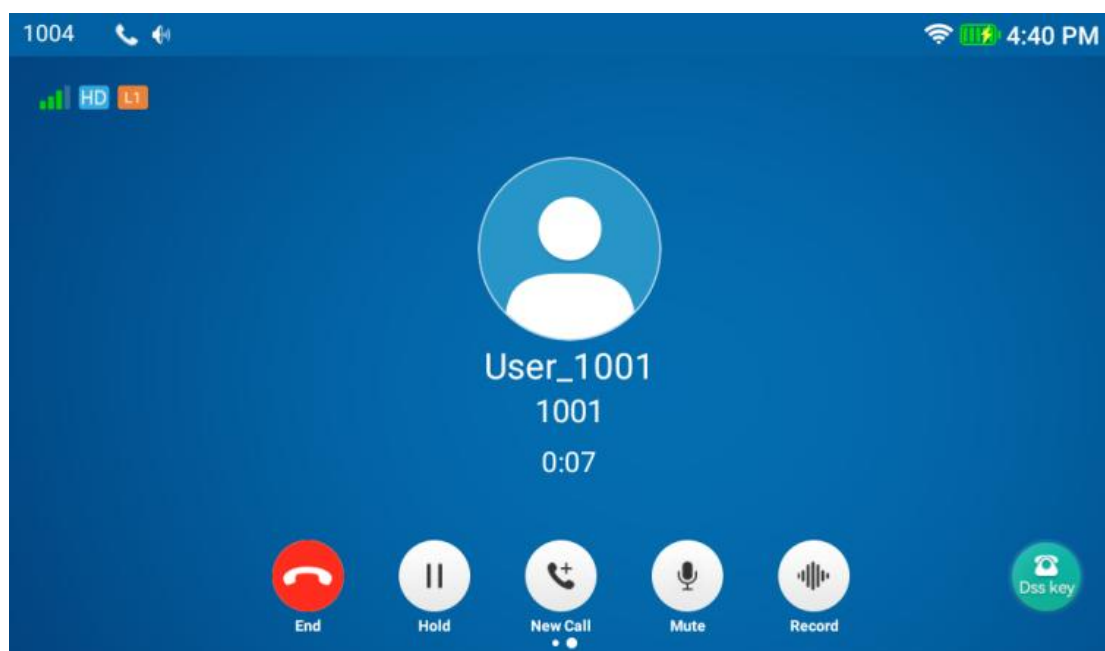


Mute the call

To cancel mute:

Procedure

1. Press the mute button **again**.
2. The mute icon will disappear from the call screen.
3. The red light on the mute button will turn off.



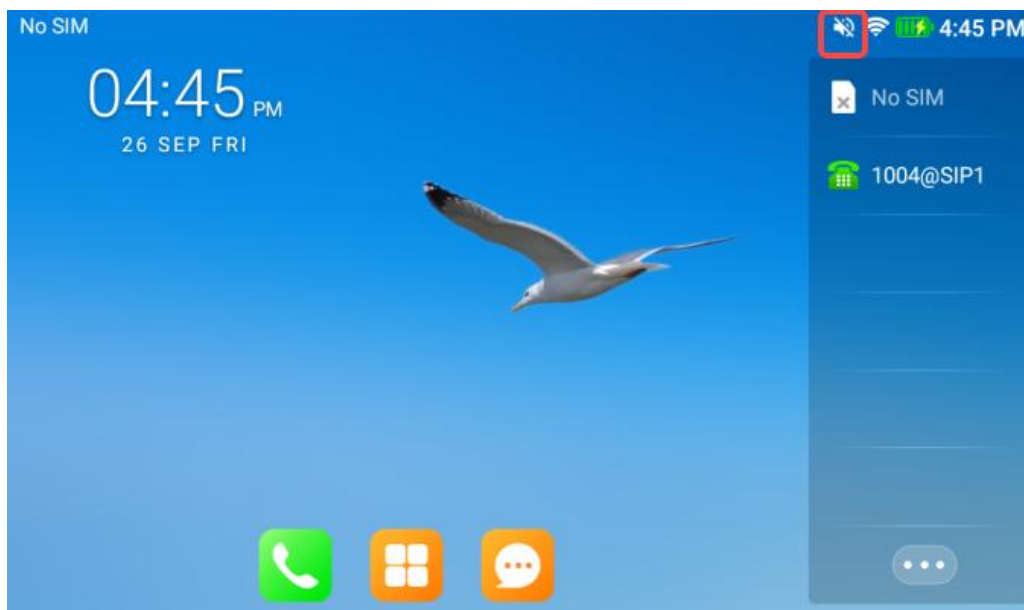
Unmute

## Ringing Mute

### To mute the ringtone:

#### Procedure

1. When the phone is in standby mode, press the **mute** button.
2. The bell mute icon will appear in the upper-right corner of the screen.
3. The **red** light on the mute button will turn on.
4. When there is an incoming call, the screen will display the call interface, but the phone will not ring.

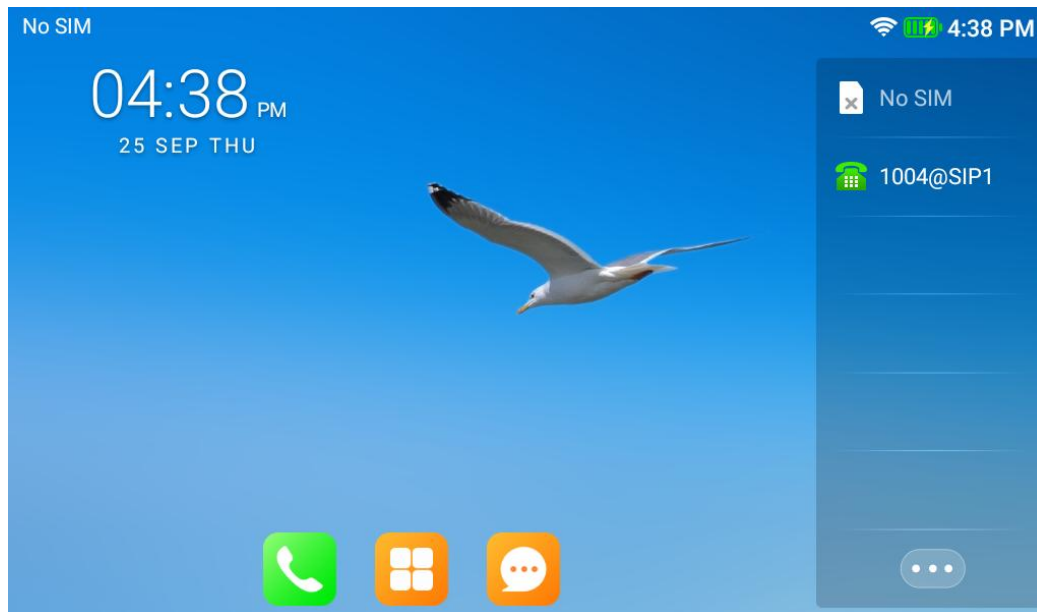


Ringing mute

### To cancel ringtone mute:

#### Procedure

1. On the standby or incoming call screen, press the mute button **again**, or press the volume up button.
2. The mute icon in the upper-right corner will disappear.
3. The red light on the mute button will turn off.



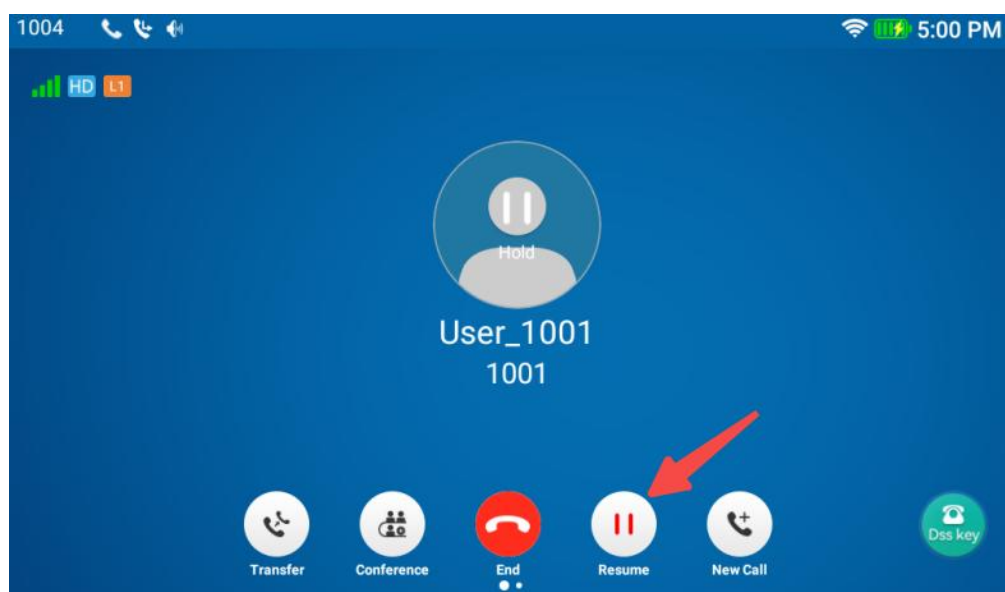
Unmute

## Call Hold/Resume

To hold a call:

Procedure

1. Press the **Hold** button during a call.
2. The current call will be placed on hold.
3. The **Hold** button will change to **Resume**.
4. The call status on screen will update to show it is on hold.

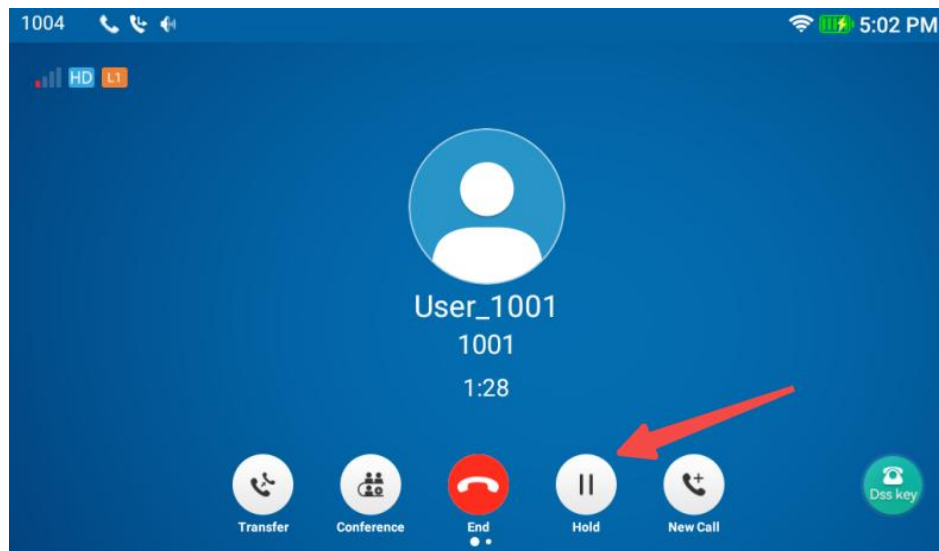


Resume

To resume a held call:

#### Procedure

1. Press the **Resume** button.
2. The held call will return to active.



Hold

## DND(Do Not Disturb)

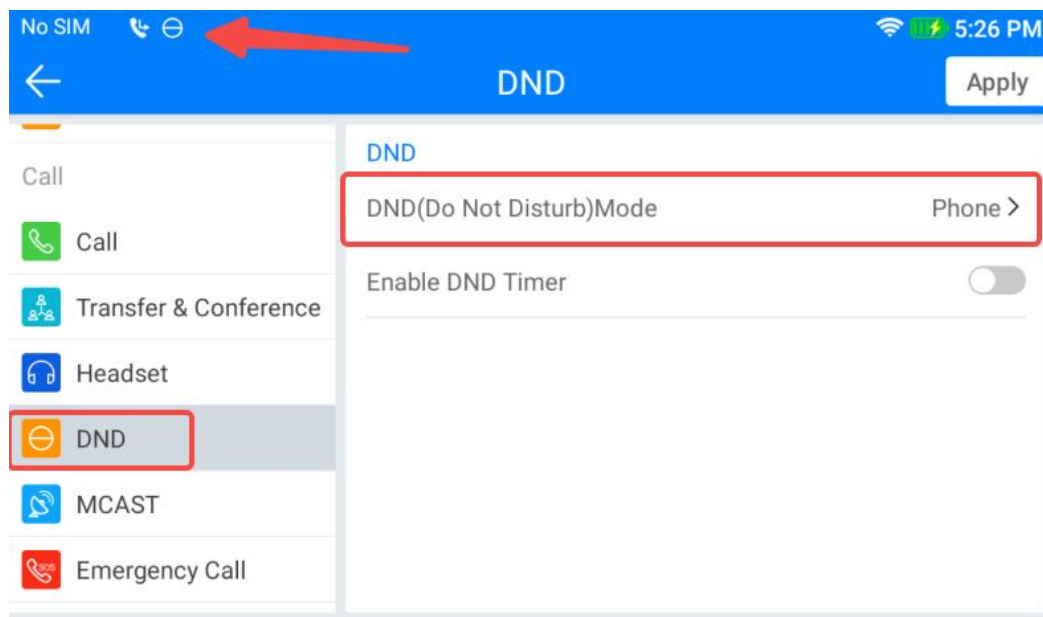
Enabling DND will reject all incoming calls (including call waiting). It can be enabled for all lines or specific lines.

**Enable/Disable DND for All Lines (via phone interface):**

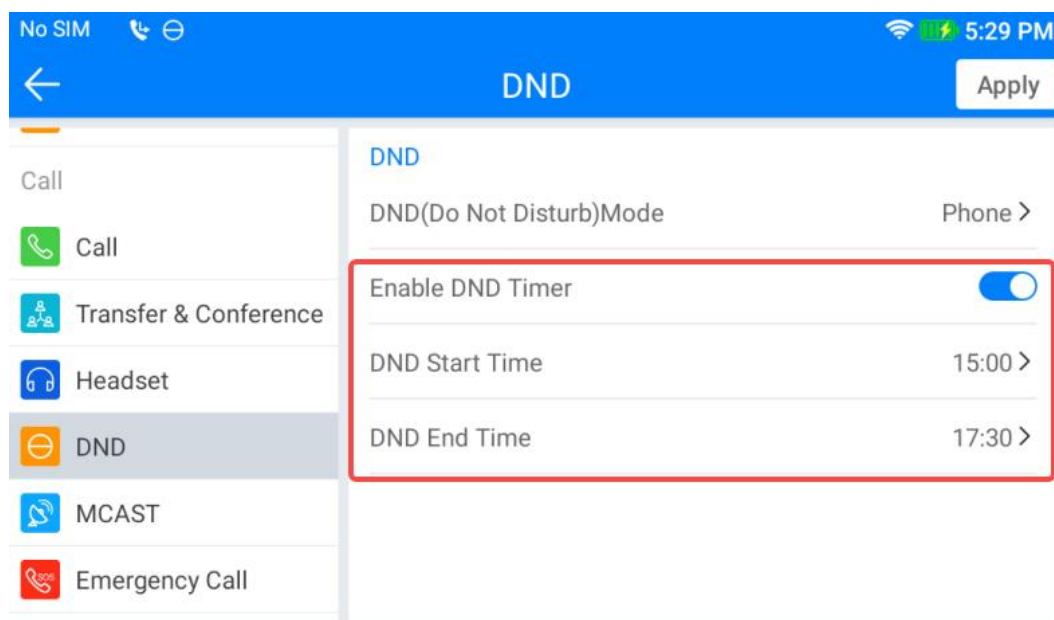
**To enable DND:**

#### Procedure

1. Press **[Phone Settings]** → **[DND]** button, Enter the [DND] editing interface.
2. Select the line to adjust the mode and state of "do not disturb", and then press the Apply button to save.
3. The phone status prompt bar will have a DND icon.
4. Users can also utilize the **DND Timer**. Once configured, the DND function will be automatically activated during the scheduled period.



All line DND



Enable DND Timer

### Configuring DND via a DSSKey:

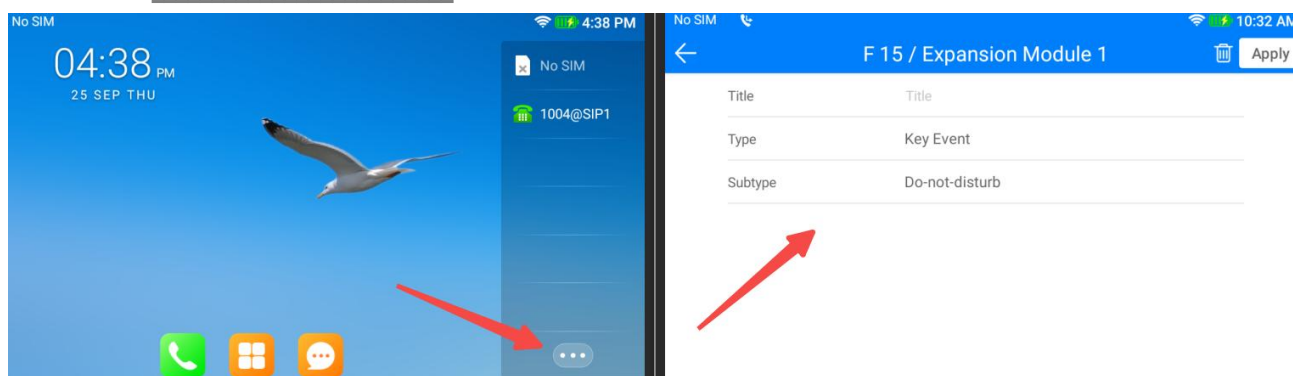
#### Procedure

1. Tap the "..." icon to enter the DSSKey interface. Long-press an unused programmable key to access its configuration menu.
2. Set the Type to **"Key Event"**. Then, select **"Do-not-disturb"** as the Subtype and press the Apply button to save.
3. **To Enable:** Tap this configured DSSKey once. The key's icon will turn red, and the DND icon will appear in the status bar, indicating the feature is active.
4. **To Disable:** Tap the same DSSKey **again**. The key's icon will revert to white, and the DND icon



will disappear from the status bar.

**Note:** This DND setting, when activated, applies to all lines by default.



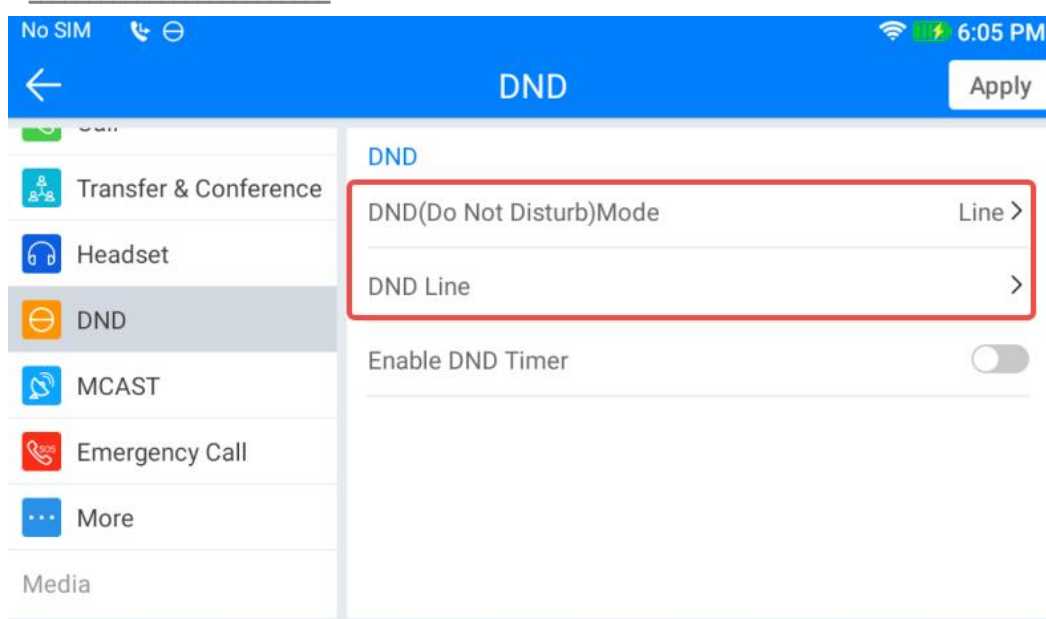
DND settings

### Enable/Disable DND for a Specific Line (via phone interface):

To enable DND for a line:

#### Procedure

1. Press **[Phone Settings]** → **[DND]** button, Enter the [DND] editing interface.
2. For the DND Mode, select **"Line"**. Then, choose the specific line you wish to configure and press the Apply button to save the settings.
3. The phone status prompt bar will have a DND icon.
4. All incoming calls to the configured line will be rejected, while calls to other lines will ring normally.
5. Users can also utilize the **DND Timer**. Once configured, the DND function will be automatically activated during the scheduled period.

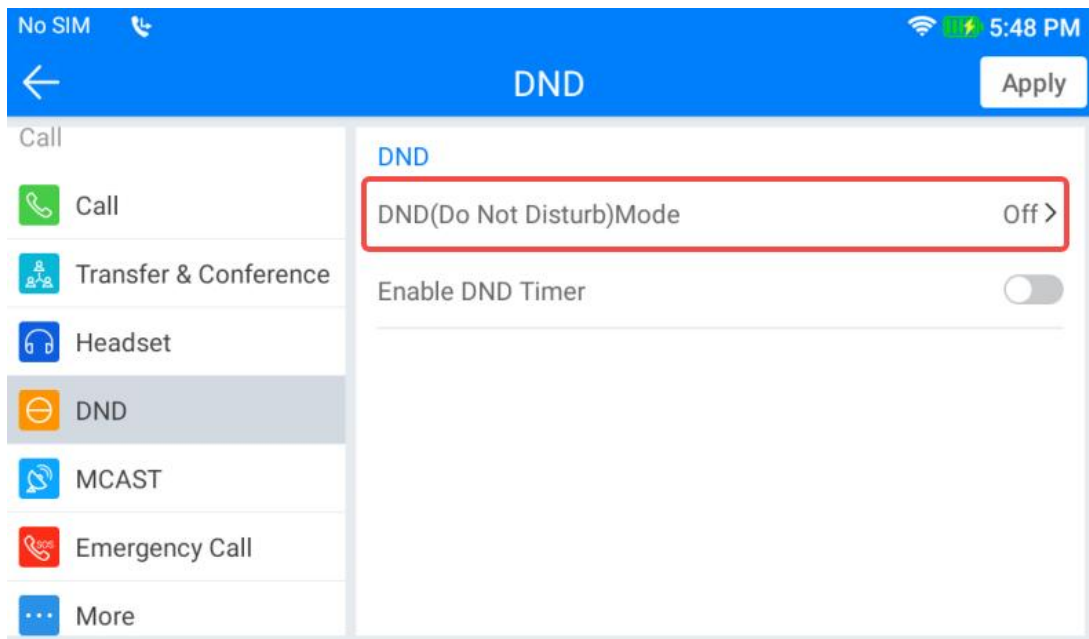


Line DND

## To disable DND:

### Procedure

1. Press **[Phone Settings]** → **[DND]** button, Enter the [DND] editing interface.
2. Select "Off" for the DND Mode and press the [Apply] button to save the setting.
3. The Do Not Disturb icon in the phone's status bar will disappear.



Disable DND

## Enable/Disable DND (via Web interface):

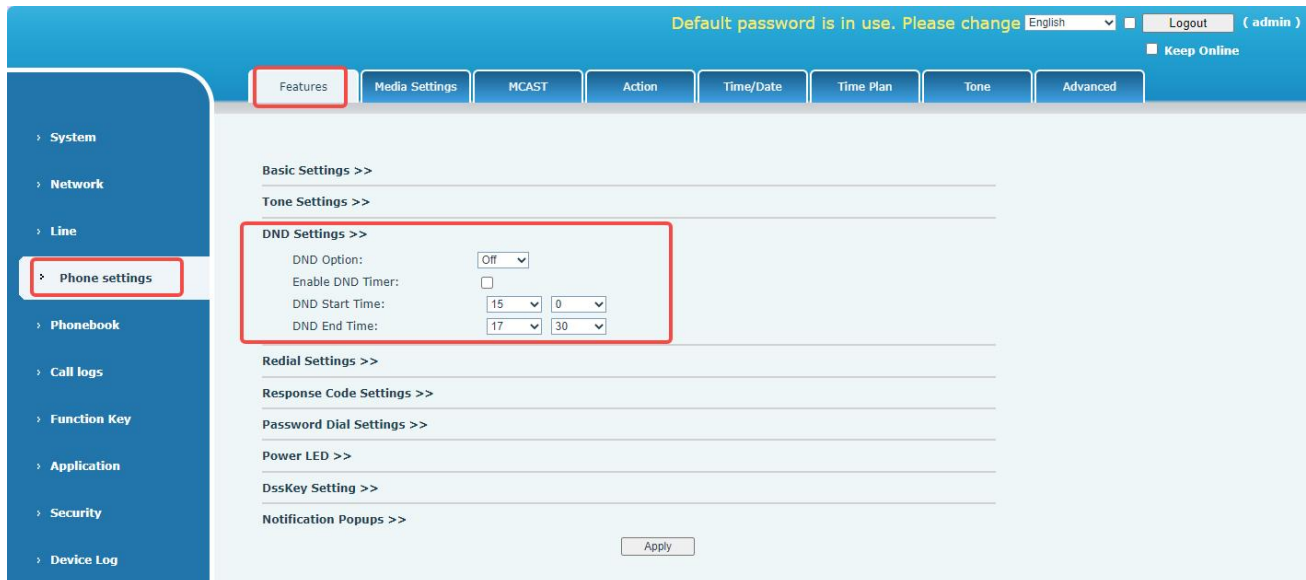
### Procedure

1. Navigate to: **[Phone setting]** → **[Features]** → **[DND settings]**

Set:

DND type: (Off / Phone / Line)

DND timer



Web interface

## Call Forward

Call Forward (also known as Call Divert) lets you forward incoming calls to a specific number.

For SIP lines, **there are 3 forwarding types:**

- **Unconditional Call Forward** – forward all calls immediately.
- **Call Forward on Busy** – forward calls when user is busy.
- **Call Forward on No Answer** – forward calls after no answer within delay time.

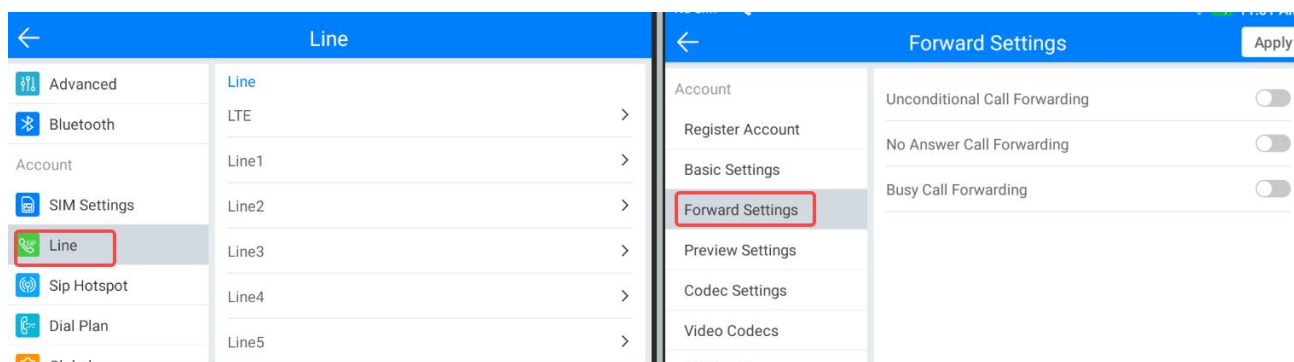
**Note:** LTE line forwarding depends on the carrier's service.

**Phone Interface Operation:**

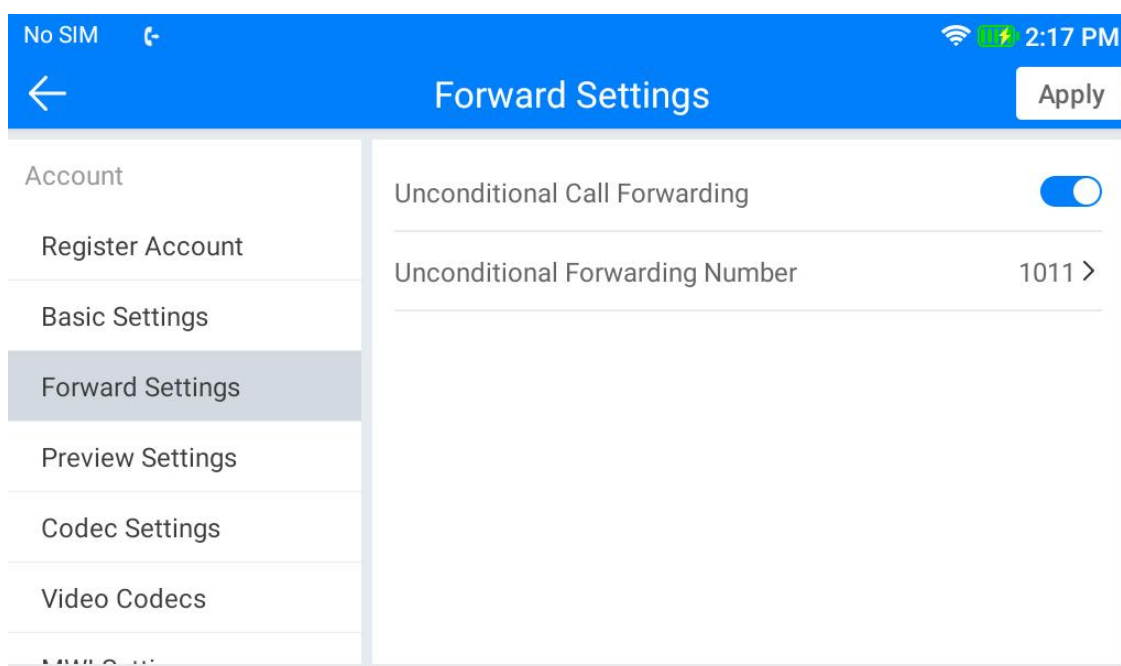
**To set up Call Forward:**

### Procedure

1. Press **[Phone Settings]** → **[Line]** → **[Line1]** → **[Forward Settings]**.
2. Select a line to configure.
3. Enter the Call Forward settings interface.
4. Choose the forward type:
  - Unconditional
  - Busy
  - No Answer
5. Toggle the switch to **On**.
6. Enter the forwarding number.
7. If setting "No Answer" forward, configure the ring delay time.
8. Press **[Apply]** to save.



Select call forward type



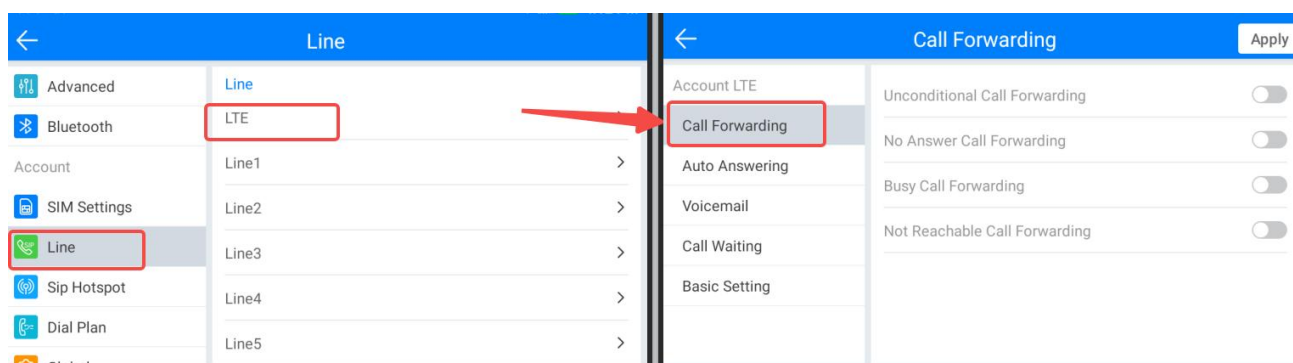
Enable call forward type

**For LTE line:**

**Procedure**

1. Go to **[Line] → [LTE] → [Call Forward]**.
2. Choose forward type.
3. Enter forwarding number.
4. Click **[Apply]**.

**Note:** LTE forwarding rules and services may vary by carrier. Please consult your network operator for details.



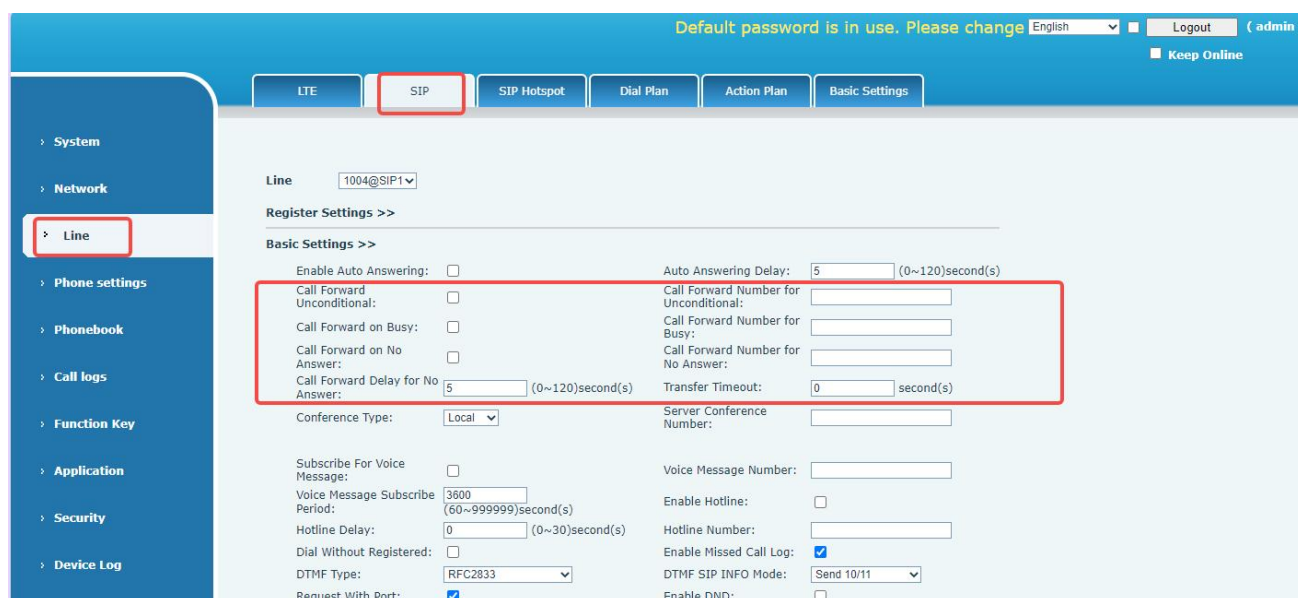
LTE Forward Function

## Web Interface Operation:

For SIP line:

### Procedure

1. Go to [Line] → [SIP].
2. Select the desired Line → **Basic settings**.
3. Choose forward type (Unconditional / Busy / No Answer).
4. Enter:
  - Forwarding number
  - Delay time (for No Answer)
5. Click **Apply** to save.



SIP Forward Function

## Call Transfer

During a call, you can transfer the call to another party using one of two methods:

- **Blind Transfer**: Direct transfer without consultation.

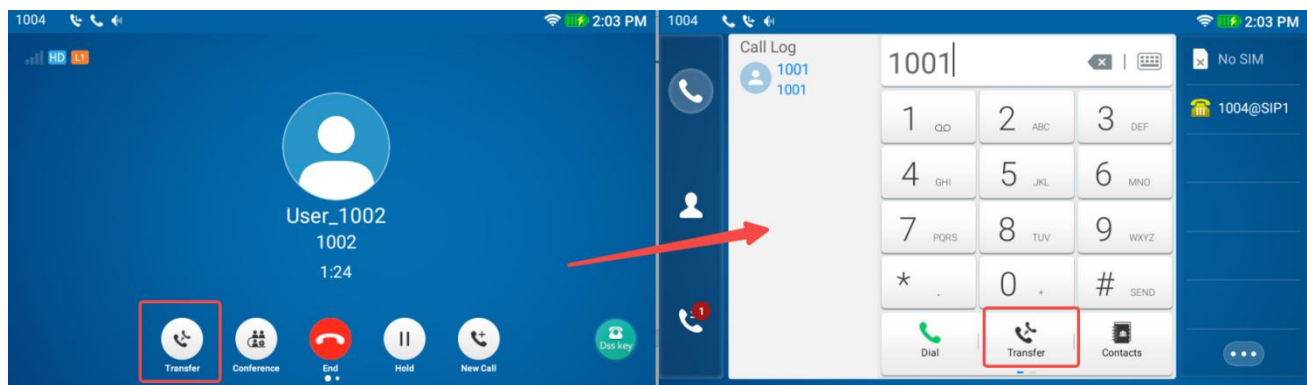
- **Attended Transfer:** Transfer after consultation with the third party.

## Blind Transfer

To perform a blind transfer:

### Procedure

1. During the call, press the DSS key button **[Transfer]** or the transfer button on the phone.
2. Enter the number to transfer, or press the contact button or the history button to select the number.
3. Press the transfer key again or use blind transfer to a third party.
4. After the third party rings, the phone will show that the transfer is successful and hang up.



Blind Transfer

**Blind Transfer by hanging up the handset or pressing the Hands-free button:**

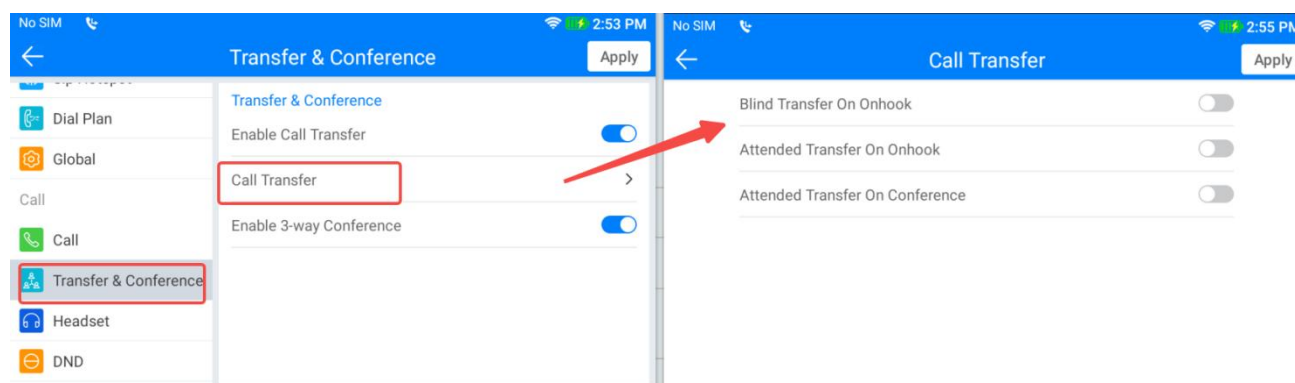
### Procedure

1. Path: **[Phone Settings] → [Transfer & Conference] → [Call Transfer]**
2. During the call, press the DSS key button **[Transfer]** or the transfer button on the phone.
3. Enter the number to transfer, or press the contact button or the history button to select the number.
4. Depending on the current call mode:
  - If using the **handset**, return it to the cradle.
  - If in hands-free mode, press the **hands-free** button.

The call will be transferred to the third party.

5. After the third party rings, the phone will show that the transfer is successful and hang up.

**Note:** This method also applies to Attended Transfer.



Transfer settings

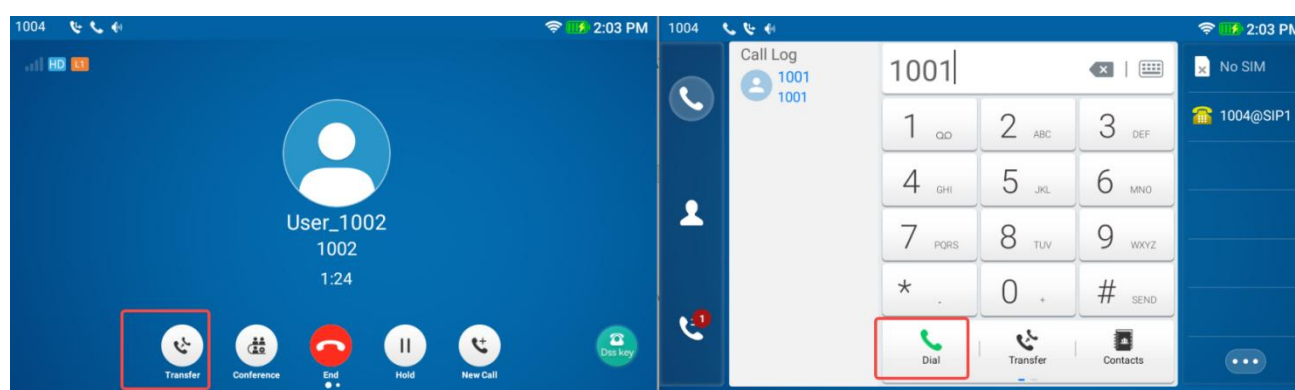
## Attended Transfer

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

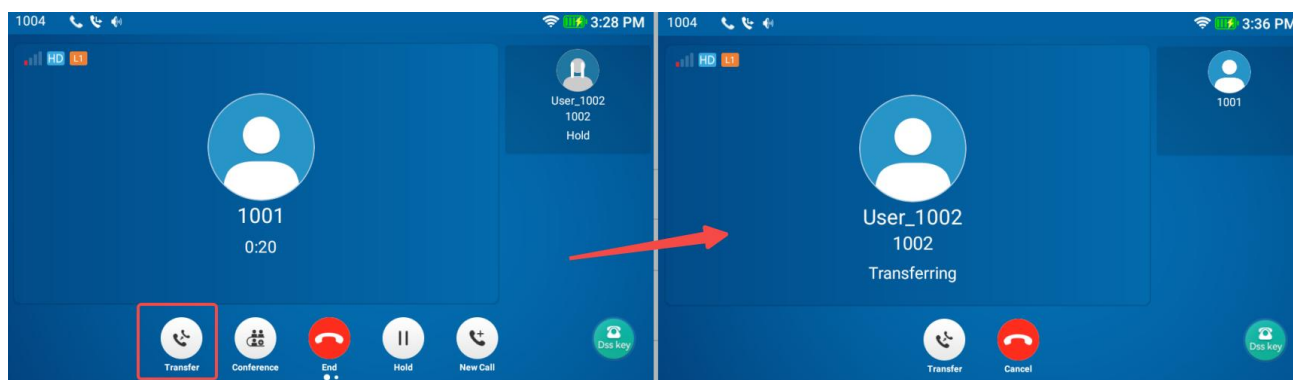
**To perform an attended transfer:**

### Procedure

1. During the call, press the **[Transfer]**.
2. Enter the number to be transferred.
3. Press **[Dial]**.
4. After the third party answers and is ready to receive the call, press the **[Transfer]** button again to complete the transfer.



New Call



Attended Transfer

## Call Waiting

### Function Description:

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

**Note:** Call Waiting is enabled by default.

Users can enable or disable the call waiting function through both the phone interface and the web interface.

### Procedure

#### Phone Interface:

- Go to **[Phone Settings] → [Call]**, enable or disable call waiting.

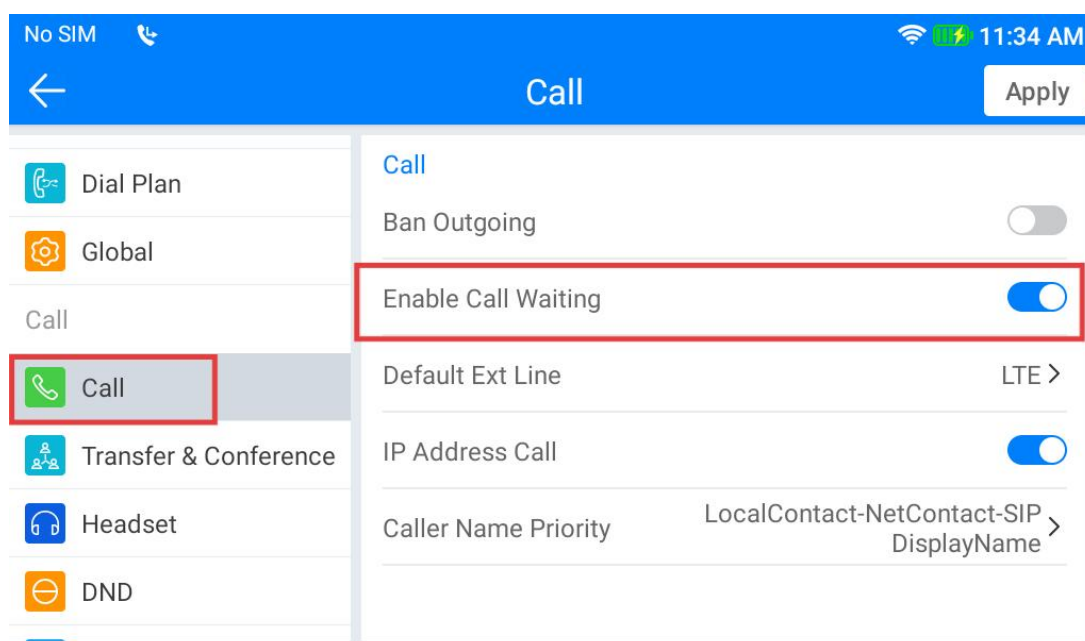
#### Web Interface:

- Go to **[Phone Settings] → [Features] → [Basic Settings]**, enable or disable call waiting.

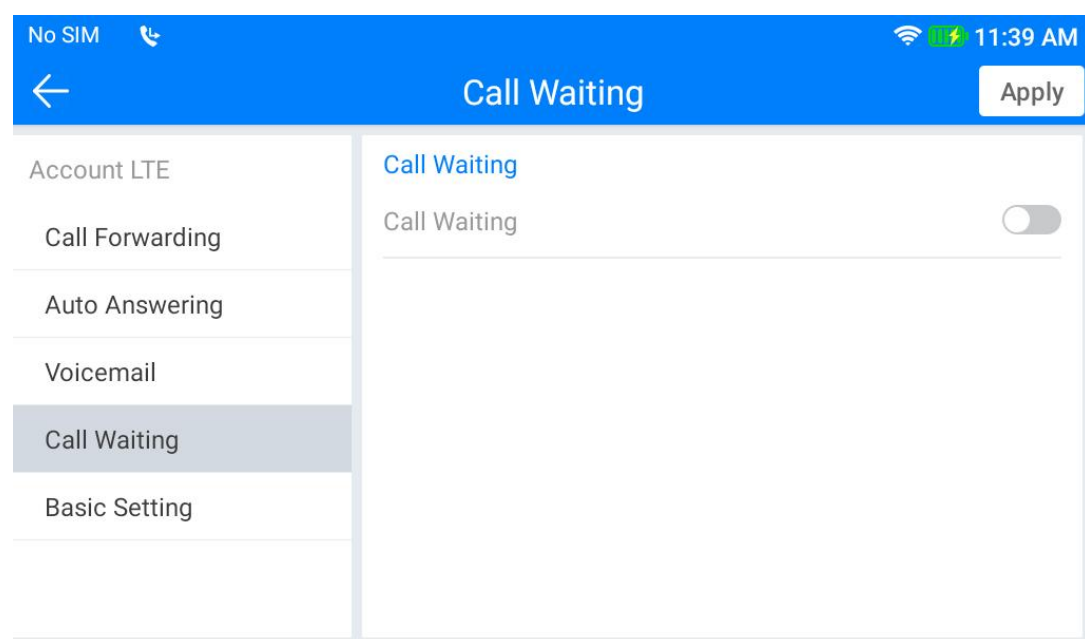
#### For DT-200A, after telephone calls are enabled:

- Go to **[Line] >> [LTE] >> [Call Waiting]**, and you can choose to turn on or off call waiting for the LTE line.





Call waiting setting (SIP)



Call waiting setting (LTE)

## Conference Call

The DT-200 provides multiple conference call modes including **Local Conference**, **Network Conference**, and **LTE Conference**. Depending on the communication line type and system settings, users can initiate and manage multi-party calls either locally through SIP, over the network, or via LTE. This chapter introduces step-by-step instructions for setting up and expanding conference calls in each of the supported modes.

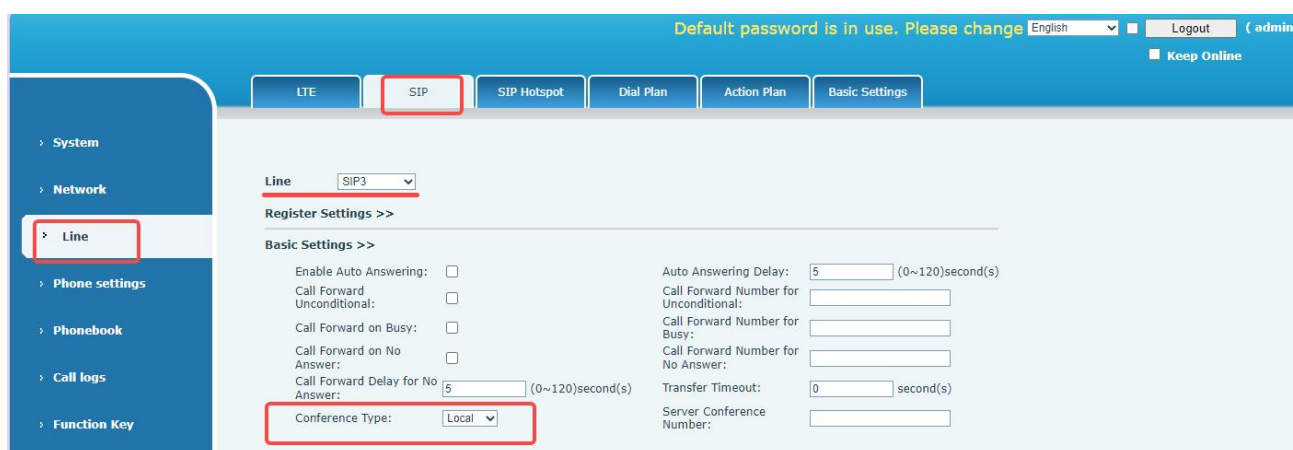
# Local Conference

To conduct a local conference, please follow the steps below in sequence:

## 1. Configure Meeting Mode

### Procedure

1. First, log in to the web interface.
2. Navigate to [Line] → [SIP] → [Basic settings].
3. Ensure **Meeting Mode** is set to **Local** (this is the default setting).



Web interface

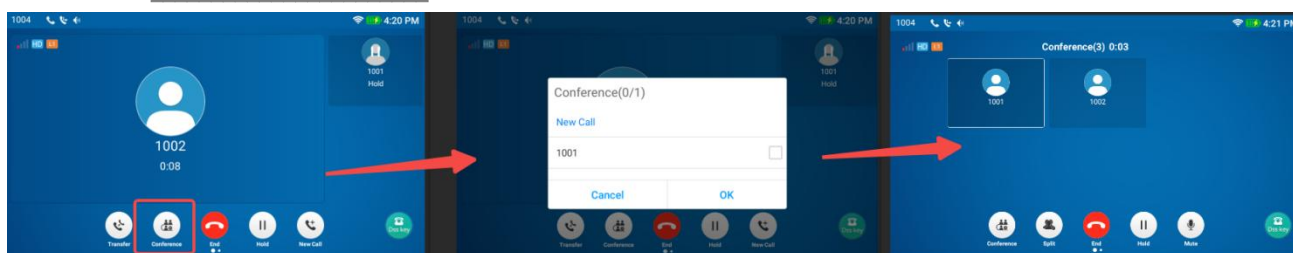
## 2. Create a Local Conference

After confirming the meeting mode, you can initiate a local conference in one of the following two ways:

### Method 1: Merge Two Existing Calls

### Procedure

1. Ensure the device has **two active communication channels**.
2. On the call interface, press the **Conference** button.
3. When selecting the conference number, choose the other number that already exists.

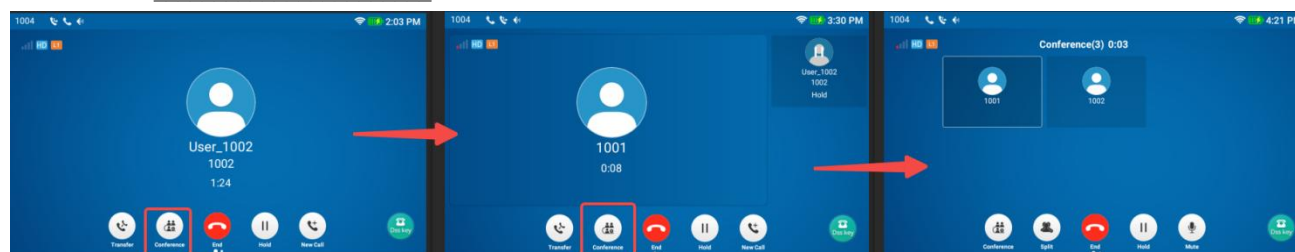


Local conference (1)

### Method 2: Add a New Call to Conference

### Procedure

1. While on a single active call, press the **Conference** button.
2. Enter the number you want to add to the conference and press **Call**.
3. After the other party answers, press the **Conference** button again to form a **tripartite local conference**.



Local conference (2)

### 3. Expand the Conference

Once a 3-way conference is established, you can continue adding participants:

When the device is in a 3-way conference, make another call, answer the call, and press the **Conference** button to join the 4-way conference. Similarly, one can join a five party meeting and a maximum of **10-way conference**.

### 4. Manage the Conference

During the conference, you can manage the participants as needed:

During the conference, press the **Split** button to split the conference and press the **End** button to end the call. (The split button only appears in three-party conferences)

There is another option that needs attention: **Multi Line**

This option is enabled by default. When enabled, the phone supports a maximum of 10 simultaneous calls. If disabled, the phone supports a maximum of 2 simultaneous calls.

Path: [Phone Settings] → [More] → [Other Settings]

## Network Conference

To use the Network Conference feature, **server support is required**.

### Configuration Steps:

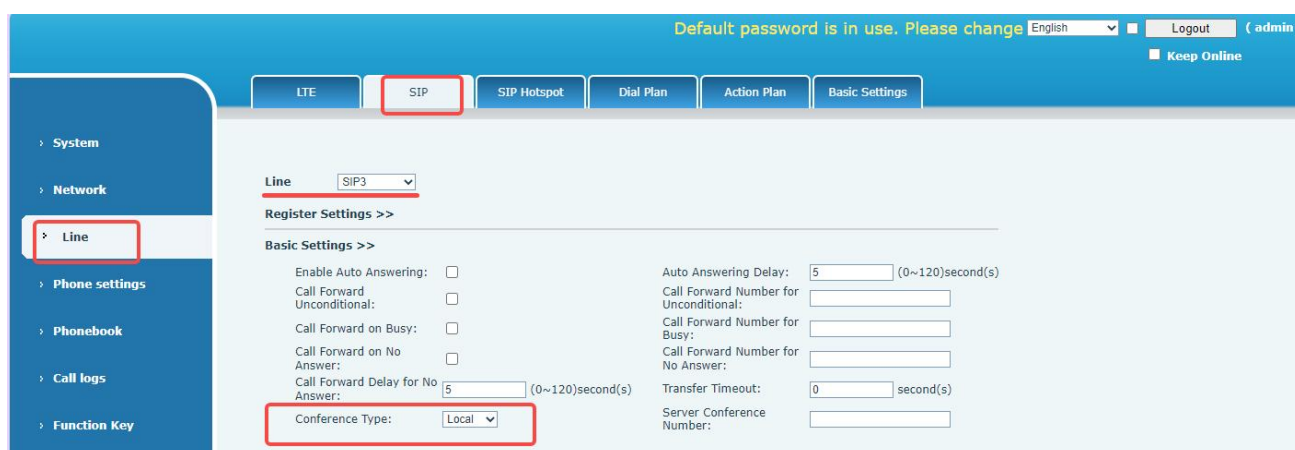
#### Procedure

1. Log in to the web interface.
2. Navigate to **[Line] → [SIP] → [Basic settings]**.
3. Set the **conference mode** to **server mode** (default is local mode).
4. Set the **server conference room number** (consult your system administrator).

## Two Methods to Join a Network Conference:

- **Method 1:** Call the network conference number. After entering the password, you will enter the conference room.
- **Method 2:** If two phones have already established a regular call, press the **conference button** to invite new members. Follow the **voice prompt** to complete the operation.

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



Meeting configuration

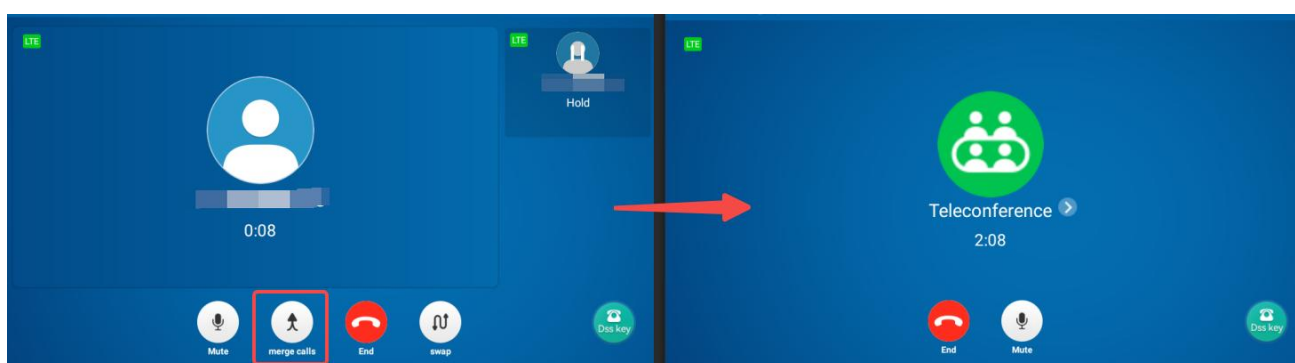
## LTE Conference

This function is available for **DT-200A** models **if the carrier supports conferencing**.

### Operation:

1. When there are **two active VoLTE calls**,
2. you can click the **[Merge calls]** key on the screen to **create a conference**.

For information on how many parties LTE supports in a conference, please consult your SIM card's service provider.



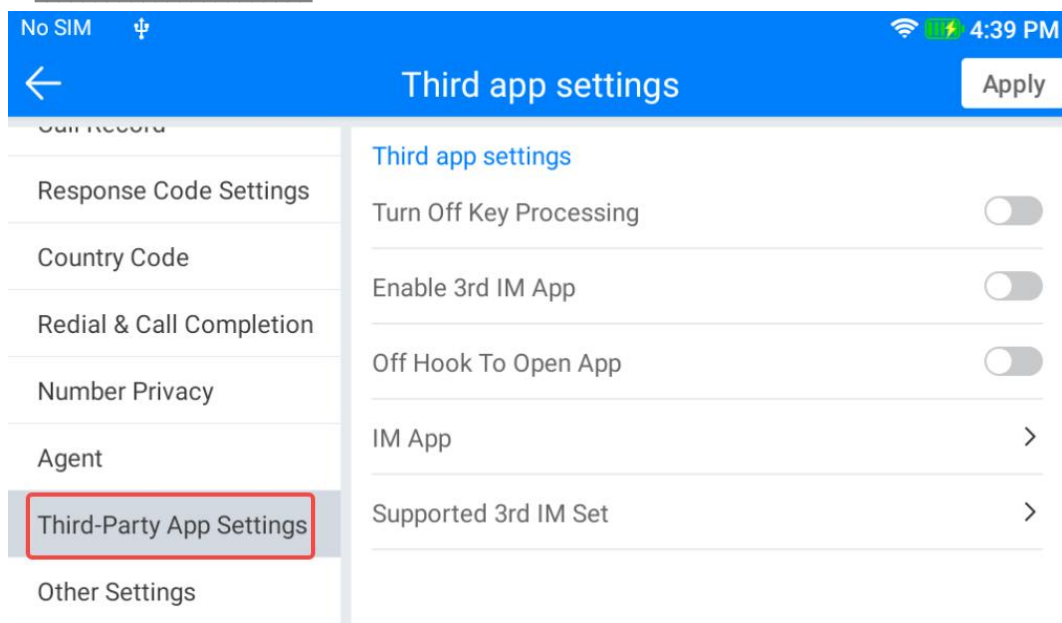
LTE Conference

## Third-Party Application Settings

Enabling this feature allows the phone to automatically launch a selected application when you go off-hook (by lifting the handset or pressing the speakerphone key).

### Procedure

1. Navigate to **[Phone Settings] → [More] → [Third-Party APP Settings]**
2. Enable "Enable 3rd IM App".
3. Enable "Off Hook To Open APP" to activate the automatic launch feature.
4. Under "Supported 3rd IM Set", select one or more applications from the available options.
5. Use the "IM APP" single-select menu to choose your preferred default application.



Third-Party APP Settings interface

# Contacts

## Local contace

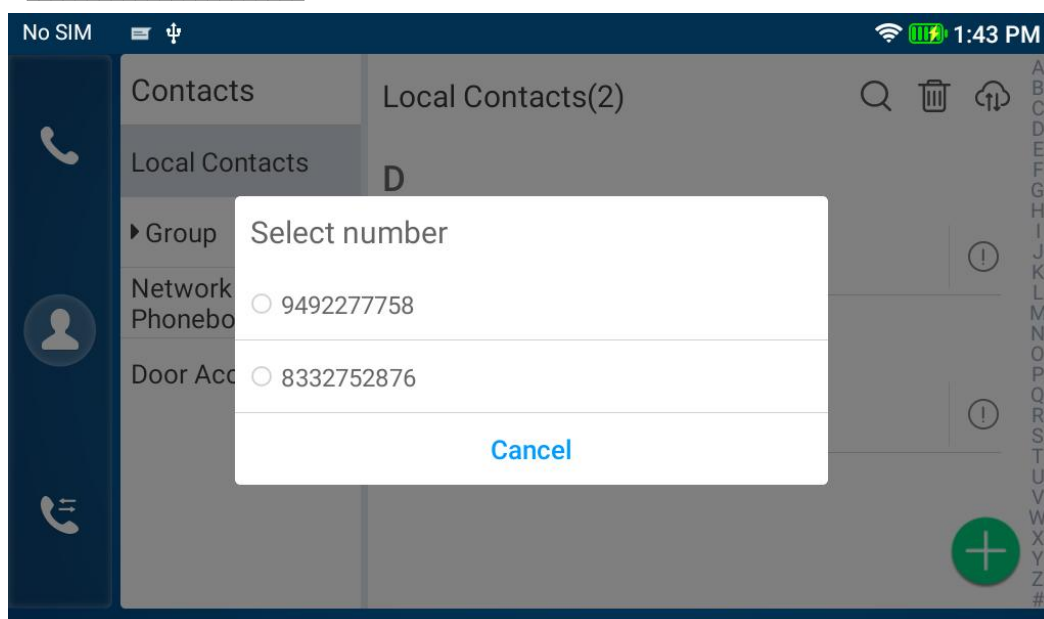
- The handset can store up to 2,000 contacts. You can directly dial, search, add, edit, and delete local contacts.
- By default, the address book is empty. Users can manually add contacts or import entries from the call log or a cloud address book.
- Saved contacts are sorted alphabetically. To view a contact's details, click the information icon next to the corresponding entry.

## Placing a Call from Local Contacts

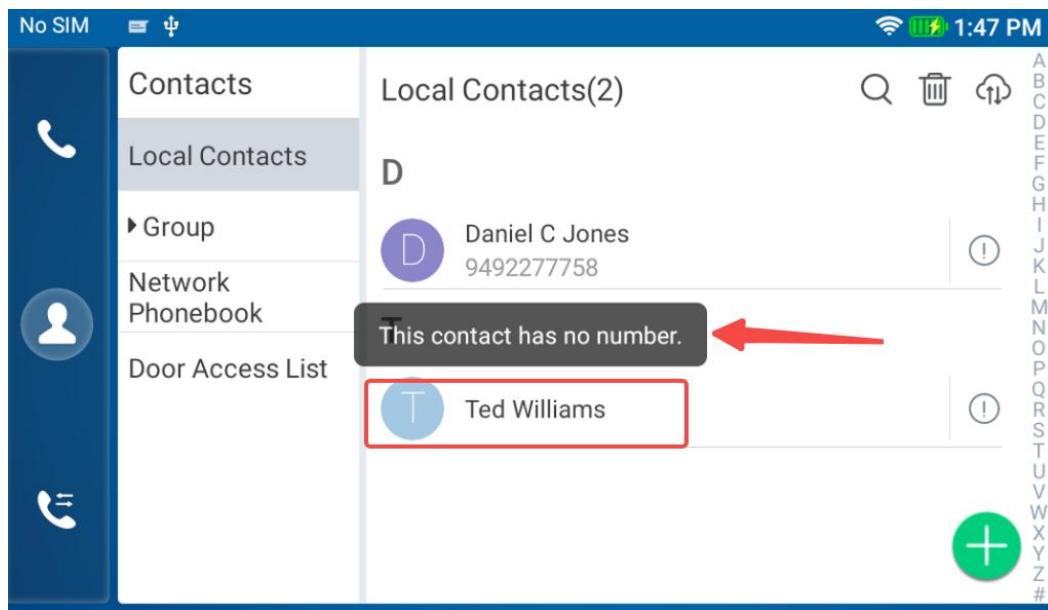
### Procedure

1. Navigate to **[Menu] → [Contacts] → [Local Contacts]**.
2. Click the desired contact to initiate a call.
3. If a contact has multiple numbers, a list will pop up. Select the number you wish to call.

**Note:** When clicking on a contact that has not been assigned a number, a prompt will display: "This contact has no number."



Multiple numbers

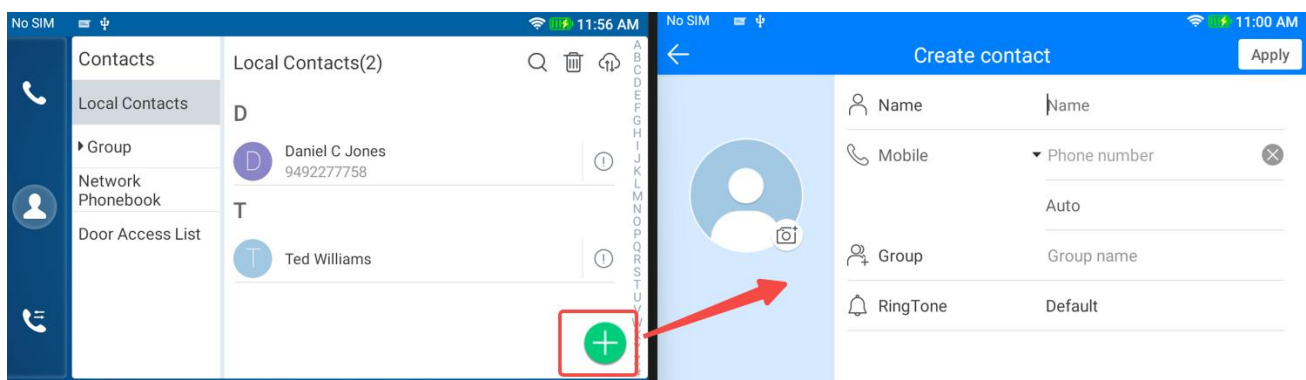


No number

## Adding a Contact

### Procedure

1. From the **Local Contacts** screen, click the Add icon (+).
2. Enter the following information:
  - Name:** Enter a custom name.
  - Number:** The number type defaults to **Mobile**. Use the dropdown menu to select a different type (e.g., Work, Home).
  - Group:** Assign the contact to the default group or click **Create New Group**.
  - Ringtone:** The default ringtone is pre-selected. Click the dropdown to choose a custom ringtone.
3. Click Save or Apply to confirm.

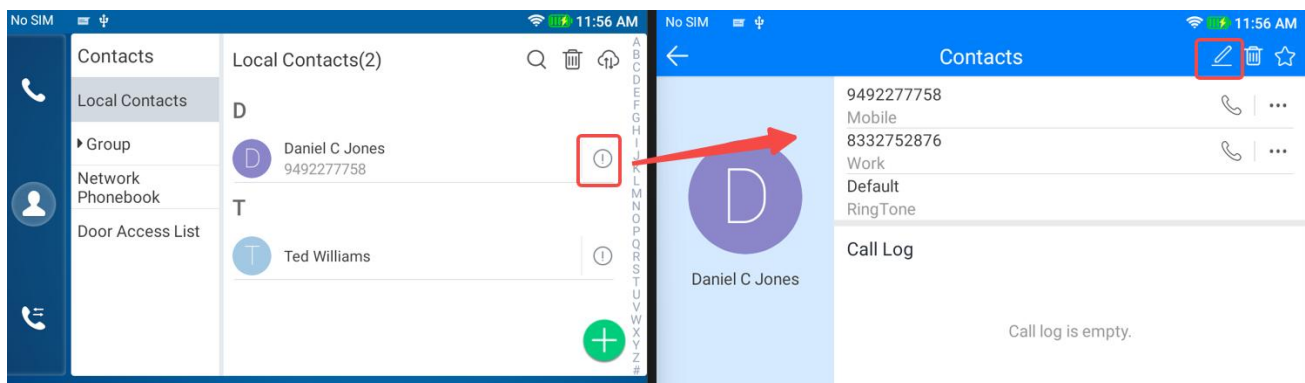


Add Contact

## Editing a Contact

### Procedure

1. From the **Local Contacts** screen.
2. Click the **information** icon next to the contact you wish to edit.
3. Click the **Edit** icon (e.g., a pencil).
4. Modify the contact information as needed.
5. Click **Apply** to confirm your changes.

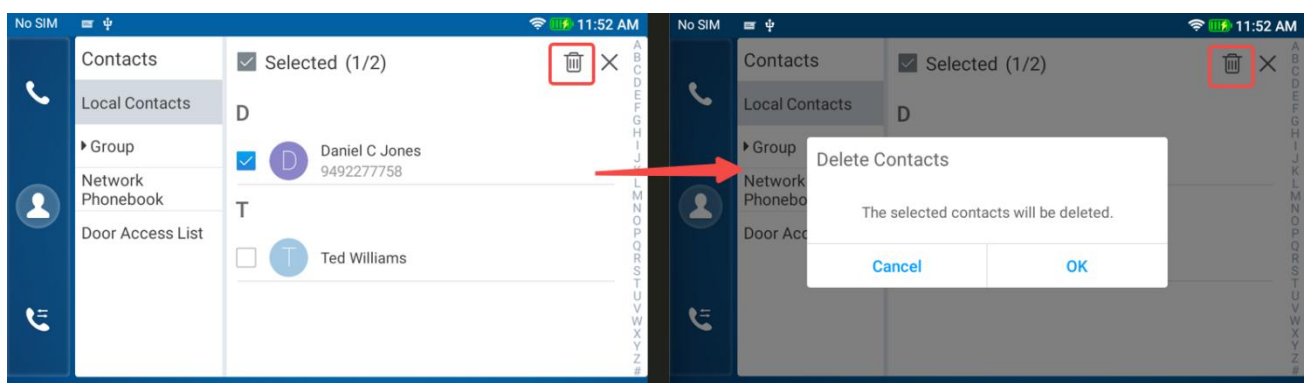


Edit Contact

## Deleting a Contact

### Procedure

1. From the **Local Contacts** screen.
2. Click the **Delete** icon. The interface will enter deletion mode.
3. Select one or more contacts you wish to delete.
4. Click the **Delete** icon again or confirm the action in the deletion area.
5. A confirmation dialog will pop up. Click **OK** to permanently delete the selected contact(s).



Delete contacts

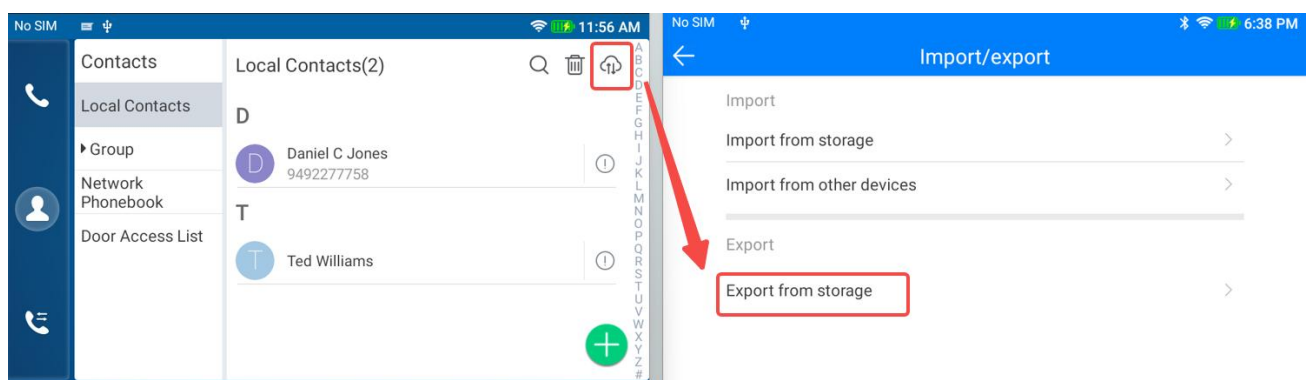


## Export Contacts

Users can export the local address book in XML, CSV, or VCF format and save the file to their local computer.

### Procedure

1. Navigate to **[Menu] → [Contacts] → [Local Contacts]**.
2. Click the **Download** icon.
3. Select **Export from Storage**.
4. Configure the export settings (e.g., select formats, content fields).
5. Click **Export** to generate and save the file.



Export Contacts

## Import Contacts

Users can import contacts from XML, CSV, or VCF files into the phone's local address book.

**Note:** If the user imports the same phone Book repeatedly, the same contact will be ignored. If the name is the same but the number is different, the contact is created again.

### Procedure

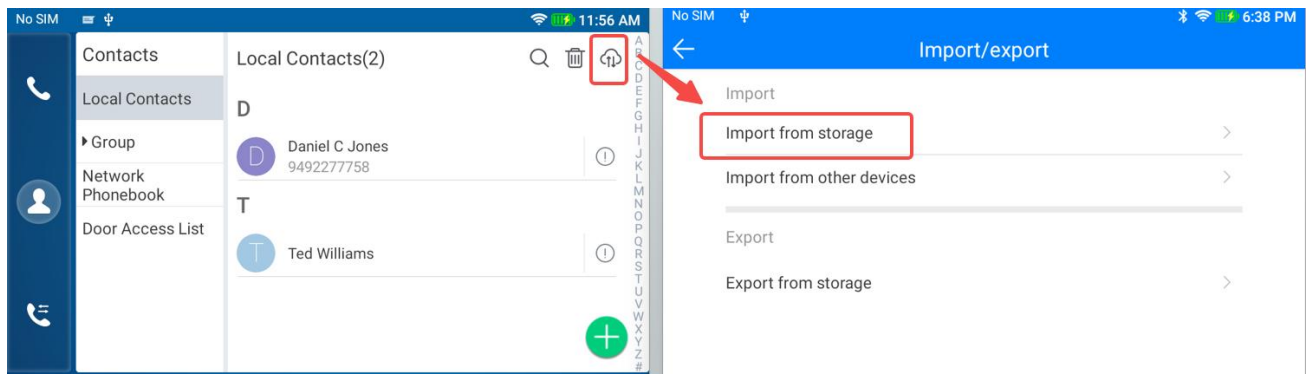
#### Method 1: Import from Storage

1. Navigate to **[Menu] → [Contacts] → [Local Contacts]**.
2. Click the Download icon.
3. Select **Import from Storage**.
4. Configure the import settings (e.g., file source, content fields).
5. Click Import to complete the process.

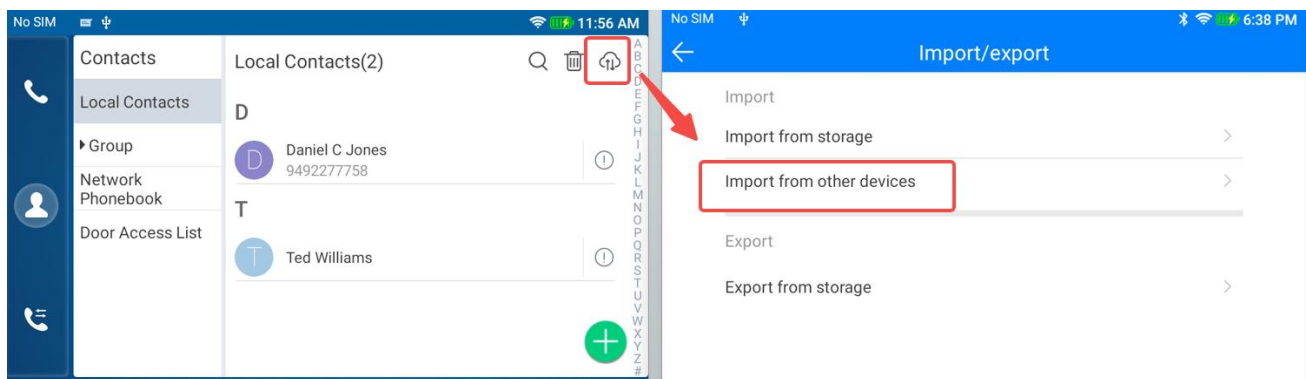
#### Method 2: Import via Bluetooth

1. Navigate to **[Menu] → [Contacts] → [Local Contacts]**.

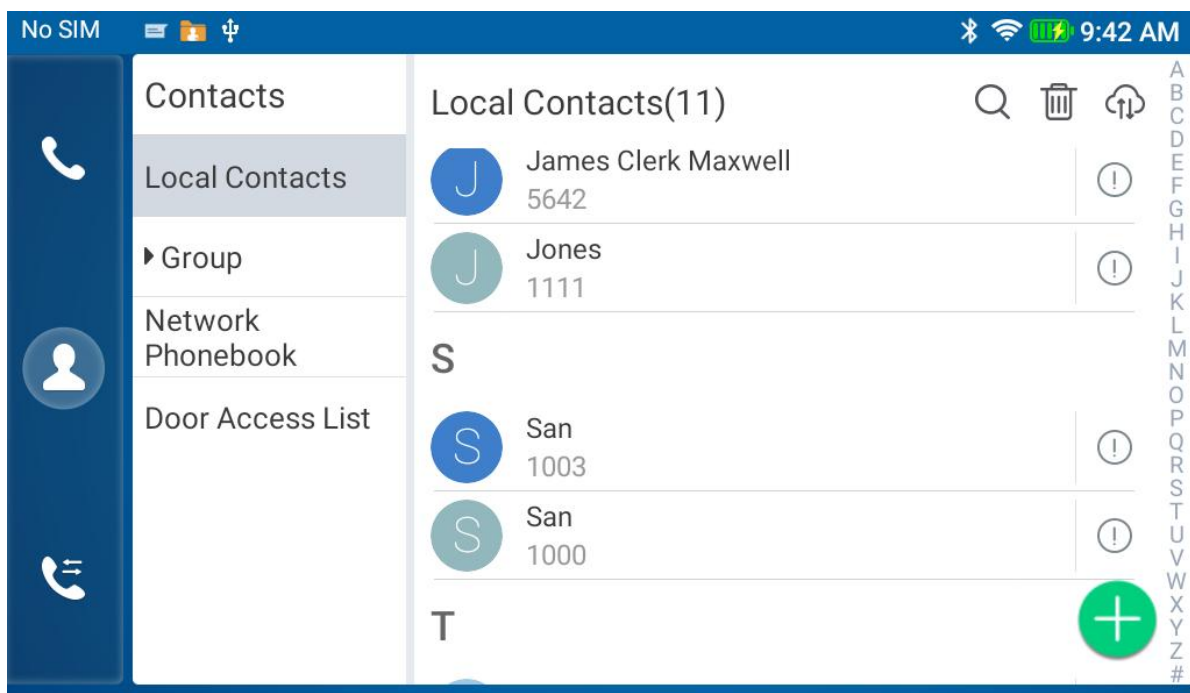
2. Click the Download icon.
3. Select **Import from Other Devices**.
4. Enable Bluetooth on both devices and complete pairing.
5. Click **Import** to transfer the contacts.



Import from storage



Import from other devices



Contacts with different number

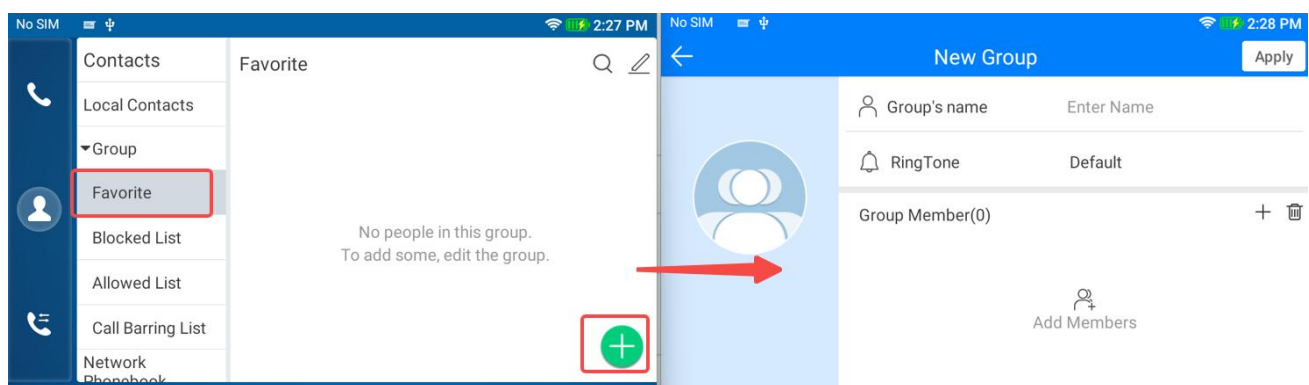
## Group

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

## Adding a Group

### Procedure

1. Navigate to **[Menu] → [Contacts] → [Group] → [Favorite]**.
2. Click the Add icon (+).
3. Configure the following settings:
  - Group Name:** Enter a custom name.
  - Ringtone:** The default ringtone is pre-selected. Click the dropdown to choose a custom one.
  - Group Member:** Click the Add icon (+) to select contacts for this group.
4. Click Apply to create the group.

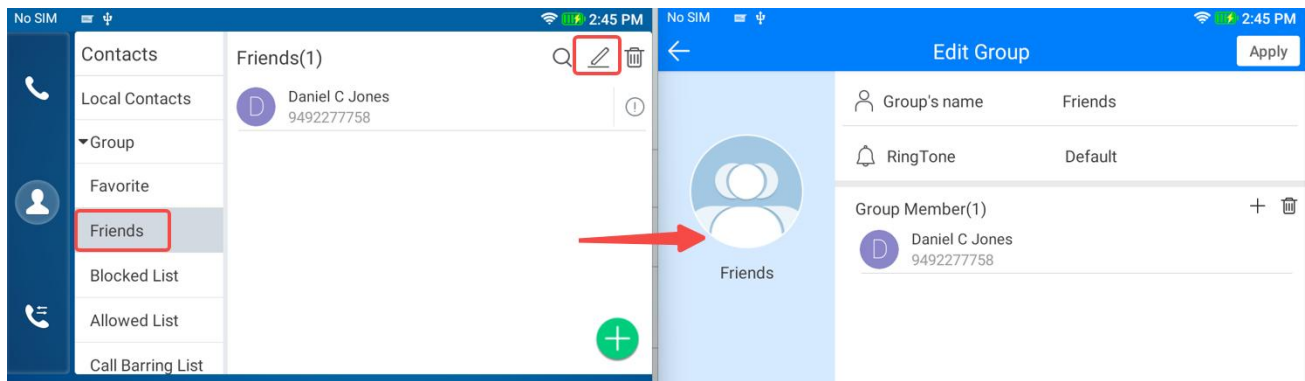


Add Group

## Editing a Group

### Procedure

1. Navigate to **[Menu] → [Contacts] → [Group]**.
2. Select the group you wish to edit.
3. Click the **Edit** icon.
4. Modify the group's information (e.g., name, ringtone, members).
5. Click Apply to confirm the changes.

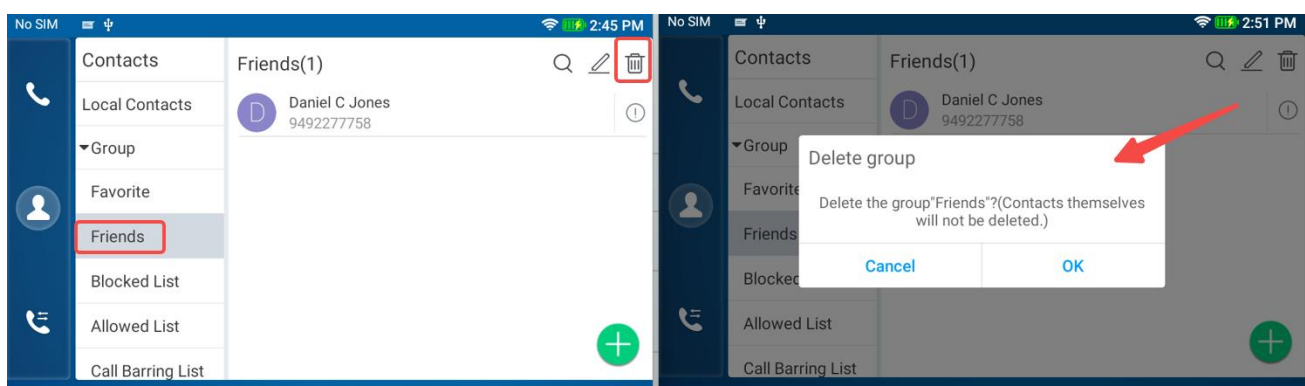


Edit Group

## Deleting a Group

### Procedure

1. Navigate to **[Menu] → [Contacts] → [Group]**.
2. Select the group you wish to delete.
3. Click the **Delete** icon.
4. A confirmation dialog will pop up. Click OK to confirm permanent deletion.



Delete Group

## Blackled List

The device supports a blacklist feature. When a number is added to the blacklist, incoming calls from that number will be automatically rejected, and the local phone will display a missed call notification.

Note: Calls can still be normally initiated to numbers in the blacklist.

The phone provides multiple ways to add numbers to the blacklist:

## Procedure

### Method 1: Add via the Blacked List Group

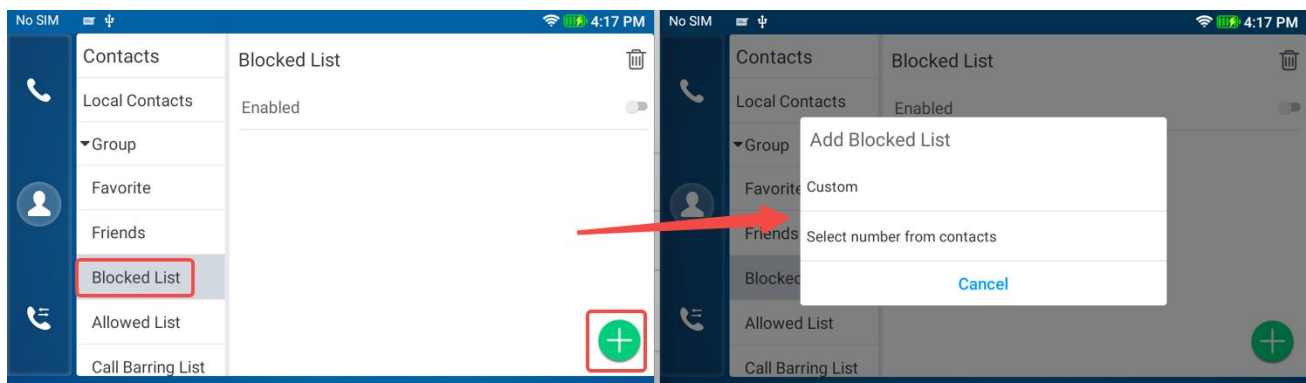
1. Navigate to **[Menu]** → **[Contacts]** → **[Group]** → **[Blocked List]**.
2. Click the **+** icon.
3. You can manually enter a number or select contacts from the contact list to add.  
(Or you can also add a specific prefix to the blacklist to block all calls from numbers with that prefix. When customizing, select **"Prefix"** as the type.)

### Method 2: Add from the Contacts

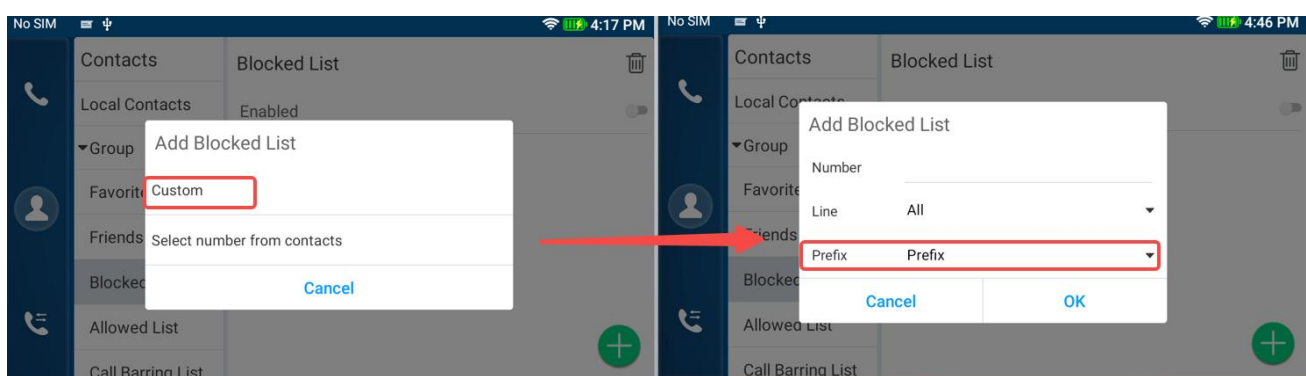
1. In the **Contacts** (local or network), select the desired number.
2. Click the **information** icon next to the number.
3. Click the **"..."** icon and select Add to Blacked list.

### Method 3: Add from Call Log

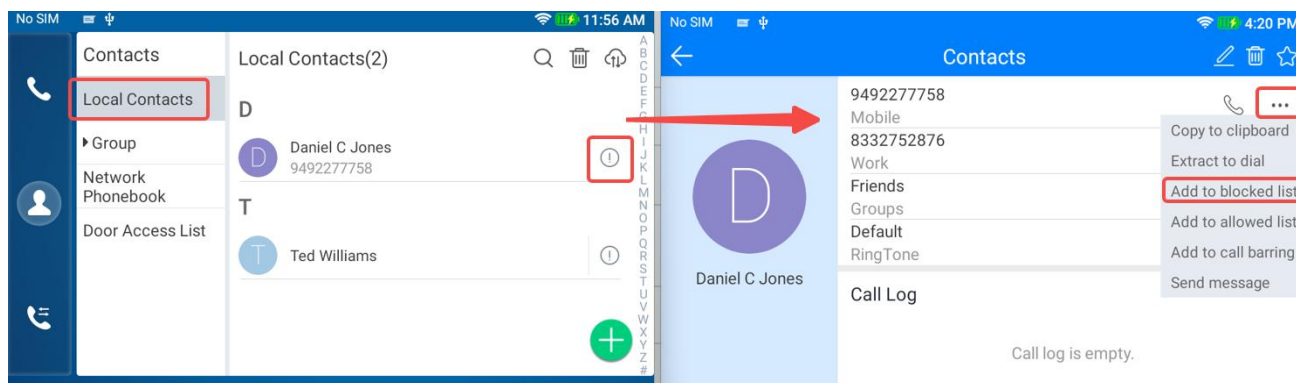
1. Go to **Call Log** and select the desired number.
2. Click the **information** icon next to the number.
3. Click the **"..."** icon and select Add to Blacked list.



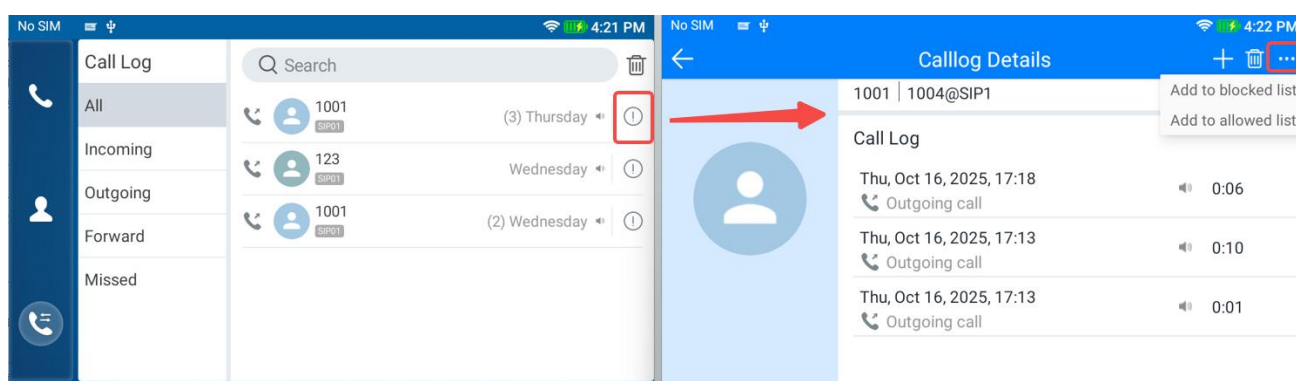
Method 1



Method 1(Prefix)



Method 2



Method 3

## Allowed List

When the "Do Not Disturb" (DND) or "Call Forwarding" (FWD) feature is active on the phone, calls from numbers in the Allowed List will still ring through.

The phone provides multiple ways to add numbers to the Allowed List:

### Procedure

#### Method 1: Add via the Allowed List Group

1. Navigate to **[Menu] → [Contacts] → [Group] → [Allowed List]**.
2. Click the **+** icon.
3. You can manually enter a number or select contacts from the contact list to add.  
(Or you can also add a specific prefix to the allowed list to permit incoming calls from all numbers with that prefix. When customizing, select **"prefix"** as the type.)

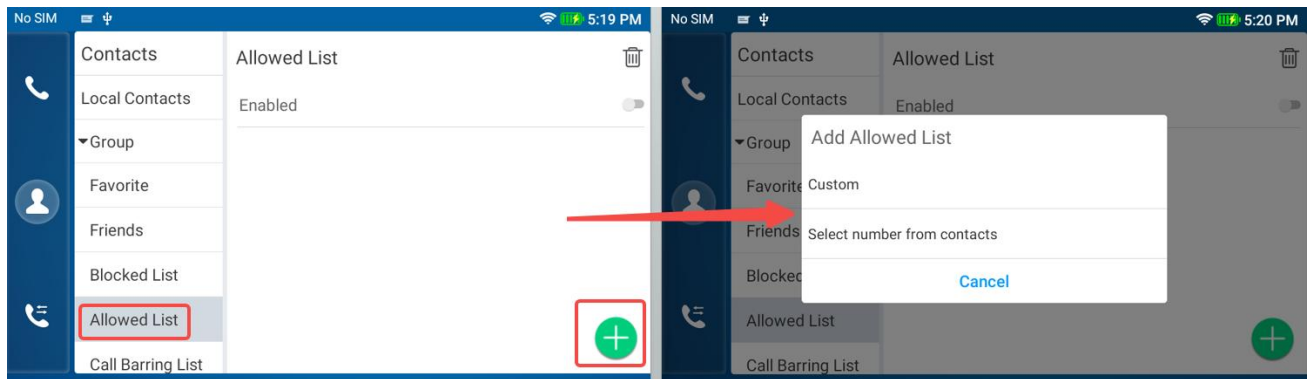
#### Method 2: Add from the Contacts

1. In the **Contcats** (local or network), select the desired number.
2. Click the **information** icon next to the number.

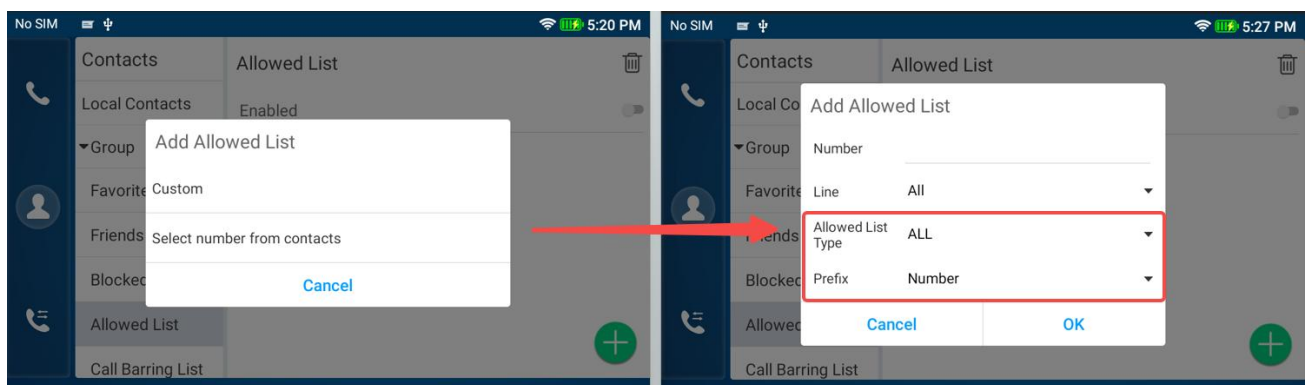
3. Click the "... " icon and select **Add to Allowed List**.

### Method 3: Add from Call Log

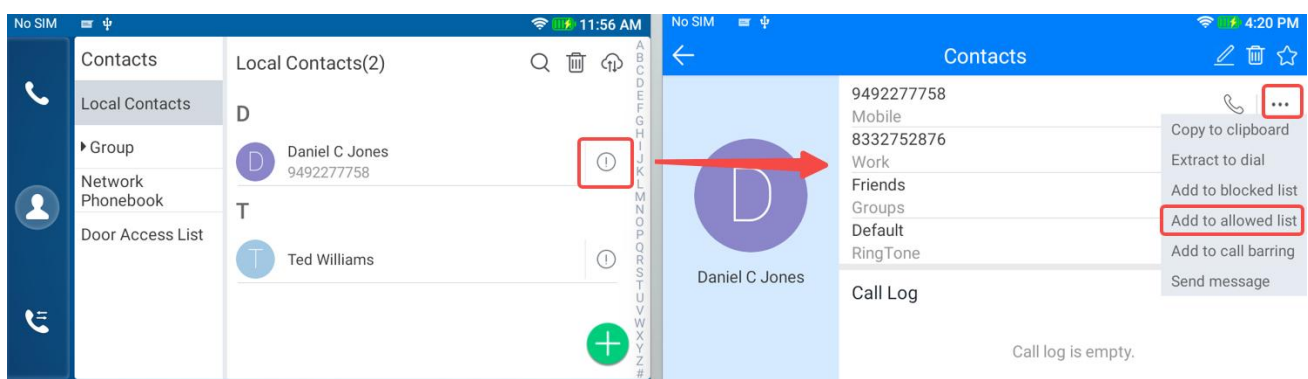
1. Go to **Call Log** and select the desired number.
2. Click the **information** icon next to the number.
3. Click the "... " icon and select **Add to Allowed List**.



Method 1

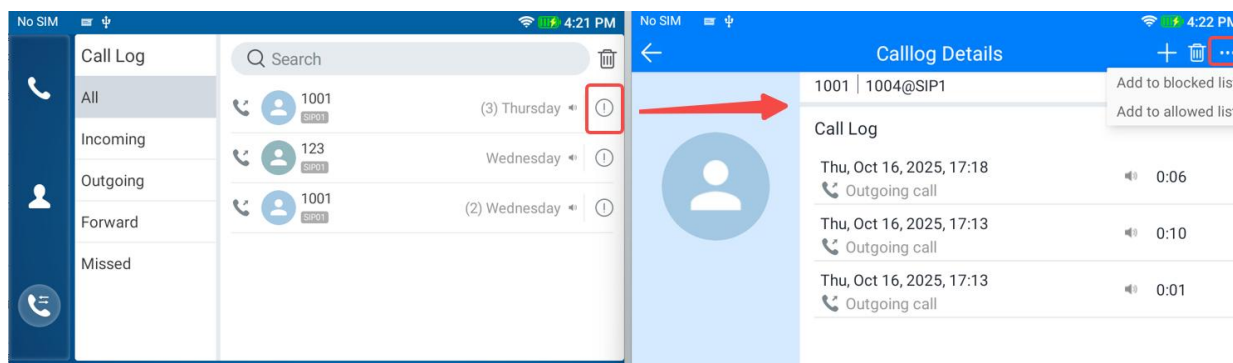


Method 1(Prefix)



Method 2





Method 3

## Call Barring List

Numbers added to the Call Barring List will be blocked from being dialed. These numbers cannot be called until they are removed from the list.

The phone provides multiple ways to add numbers to the Call Barring List:

### Procedure

#### Method 1: Add via the Call Barring List Group

1. Navigate to **[Menu] → [Contacts] → [Group] → [Call Barring List]**.

2. Click the **+** icon.

3. You can manually enter a number or select contacts from the contact list to add.

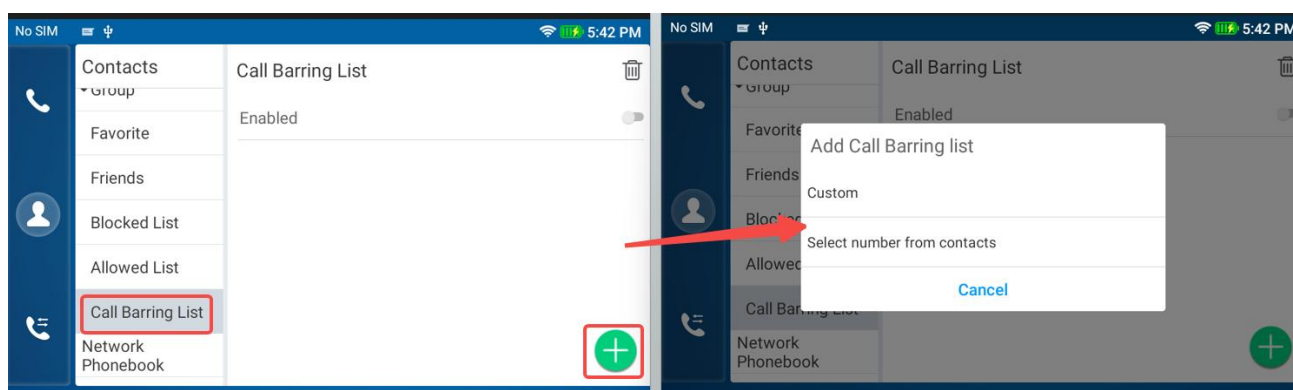
(Or you can also add a specific prefix to the allowed list to permit incoming calls from all numbers with that prefix. When customizing, select **"prefix"** as the type.)

#### Method 2: Add from the Contacts

1. In the **Contacts** (local or network), select the desired number.

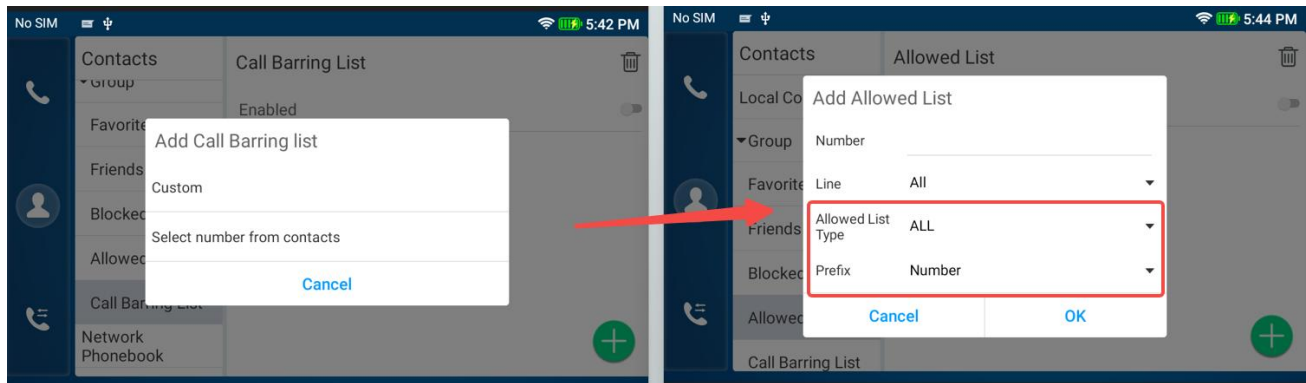
2. Click the **information** icon next to the number.

3. Click the **"..."** icon and select **Add to Call Barring List**.

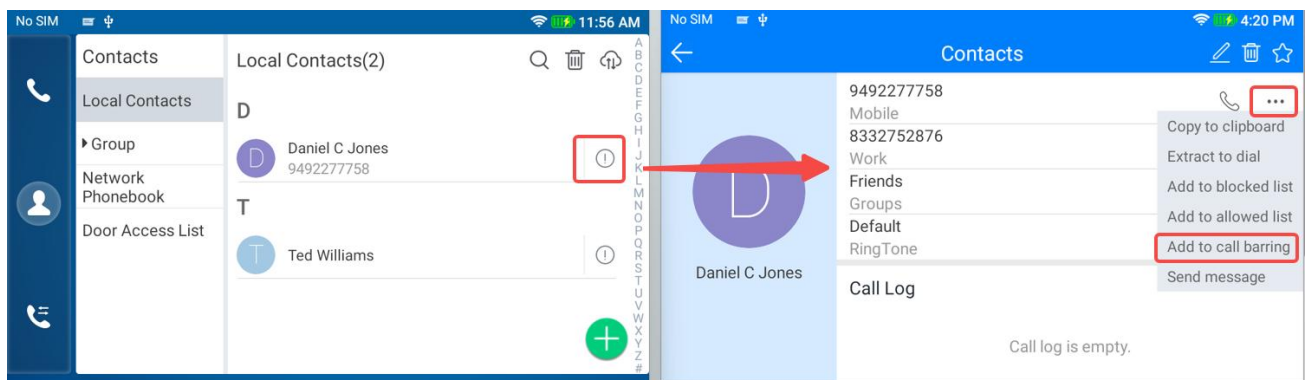


Method 1





Method 1(Prefix)



Method 2

## Network Phonebook

Cloud phonebook allows user to configure the device by downloading a phonebook from a cloud server. This is convenient for office users to use the phonebook from a single source and save the effort to create and maintain the contact list individually.

## XML Phonebook

Users can configure up to 4 cloud phonebooks. Each cloud phonebook requires a URL pointing to an XML-based directory, accessible via HTTP, HTTPS, or FTP. If the server requires authentication, users must provide a username and password.

### Via Phone Interface:

#### Procedure

1. Navigate to [Menu] → [Contacts] → [Network Phonebook].
2. Click the Add icon (+).
3. Configure the following settings:

**Phonebook Name** (Required)

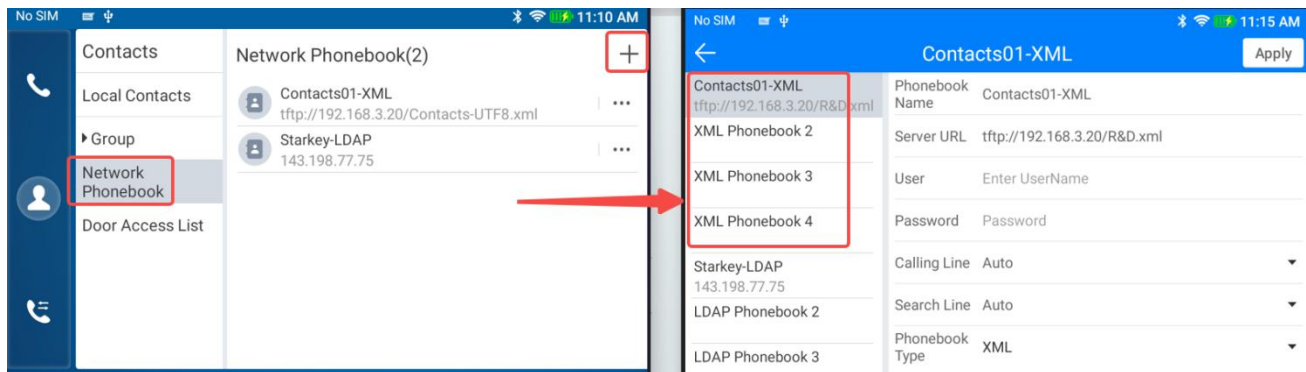
**Phonebook URL** (Required)

**Username** (Optional)

**Password** (Optional)

Note: The format can refer to the XML type selected when exporting contacts.

4. click **Apply** to save.



XML Phonebook Settings

## LDAP Phonebook

The cloud phonebook feature enables users to retrieve contact lists from an LDAP server via the LDAP protocol. To use this function, users must configure the LDAP server information and a Search Base. If the LDAP server requires authentication, a username and password must also be provided.

**Via Web Interface:**

### Procedure

1. Log in to the **web interface**.  
Navigate to **[Phonebook] → [Cloud phonebook] → [LDAP Settings]**.
2. Configure the following settings:
  - Display Title (custom)
  - LDAP Server Address (required)
  - LDAP Server Port (required)
  - Search Base (required)
  - Username (optional)
  - Password (optional)
  - Max Hits (required)
  - Display name (required)
  - Name Attr (required)
3. click **Apply** to save

Default password is in use. Please change English

Contacts
Cloud phonebook
Call List
Web Dial
Advanced

10 ▼ Entries per page

### Manage Cloud Phonebooks

Index	Cloud phonebook name	Cloud phonebook URL	Calling Line	Search Line	Phonebook Type	Authentication Name	Authentication Password
1	Contacts01-XML	http://192.168.3.20/R&D.xml	AUTO ▼	AUTO ▼	XML ▼		
2			AUTO ▼	AUTO ▼	XML ▼		
3			AUTO ▼	AUTO ▼	XML ▼		
4			AUTO ▼	AUTO ▼	XML ▼		

Apply

---

### Business Card Settings

Display Business Card Popup: Disabled ▼

display attribute:

Apply

---

### LDAP Settings

#### LDAP

LDAP 1 ▼

Display Title:

Server Address:

LDAP TLS Mode: LDAP ▼

Authentication: Simple ▼

Username:

Search Base:

Telephone:

Other:

Sort Attr:

Name Filter:

Enable In Call Search: ☐

Display Type: Search ▼

Version: Version 3 ▼

Server Port:

Calling Line: AUTO ▼

Search Line: AUTO ▼

Password:

Max Hits:

Mobile:

Name Attr:

Display name:

Number Filter:

Enable Out Call Search: ☐

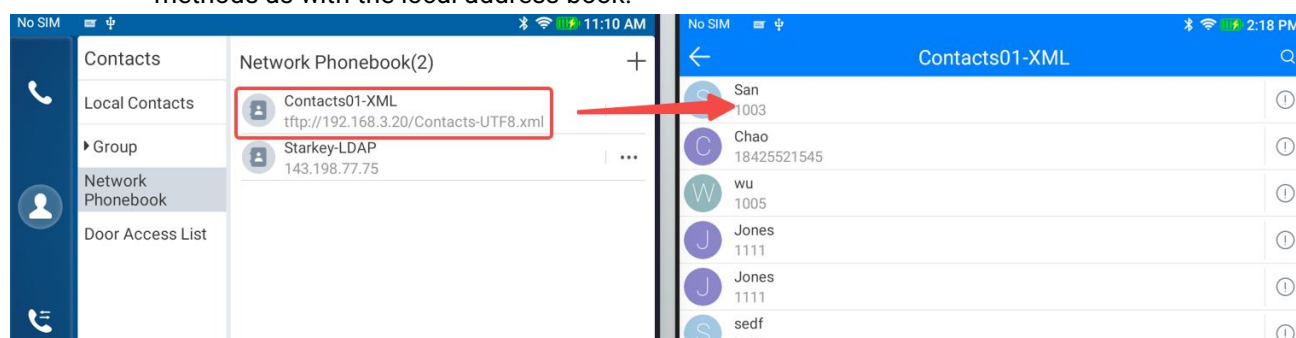
LDAP Search Type: Global Search ▼

Apply

LDAP Settings (Web)

## Accessing the Cloud Phonebook

- Click the cloud phonebook entry to open it. The device will automatically begin downloading the phonebook. If the download fails, a warning message will appear: "Network Phone Book is empty."
- Once successfully downloaded, you can browse the contact list and place **calls** using the same methods as with the local address book.



Browsing Contacts in Cloud Phone Book

# Advanced Call Features

---

## Call Park

Call Park requires **server support**. Please consult your system administrator before use.

### Feature Description:

When you are on an active call and need to temporarily suspend the conversation, you can press a pre-configured **Call Park** key to park the call. After the call is successfully parked, you can resume the conversation from any other device by pressing the corresponding **Call Retrieve** key.

### Configuration Methods:

#### Via Phone Interface:

#### Procedure

---

#### Parking a Call to Another Account:

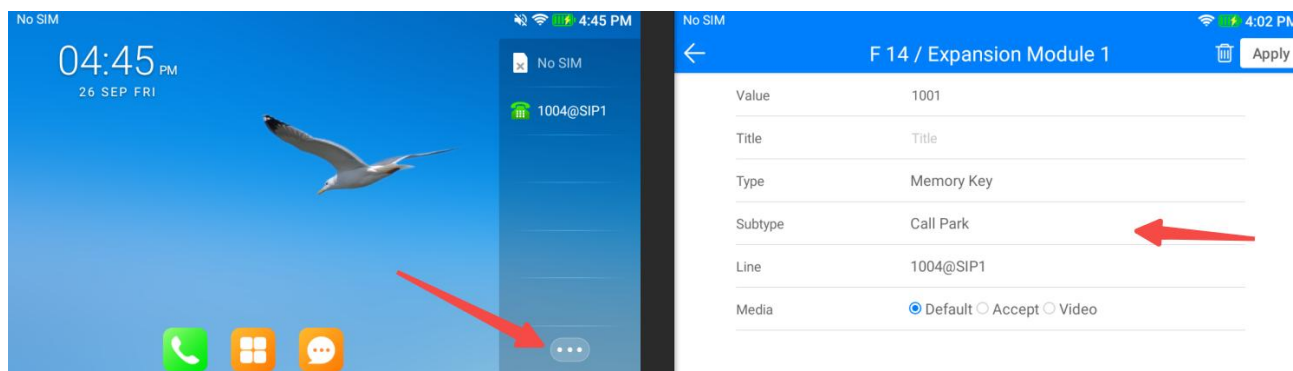
1. On Phone A, enter the DSSKey configuration interface by tapping the "... " icon.  
Long-press an available DSSKey;  
set the Type to "**Memory Key**", select "Call Park" as the Subtype, and enter the target extension number (e.g., 1001) in the Value field.
2. Phone B calls Phone A, and a conversation is established between A and B.
3. Phone A presses the configured **Call Park** key. Phone B is placed on hold with music, while the phone with account 1001 begins to ring.
4. Once the call is answered by the device with account 1001, Phone A's interface displays "**Park Successful**" and automatically disconnects from the call.
5. Phone B and the device with account 1001 are now connected and can communicate.

#### Parking a Call Locally and Call Retrieval:

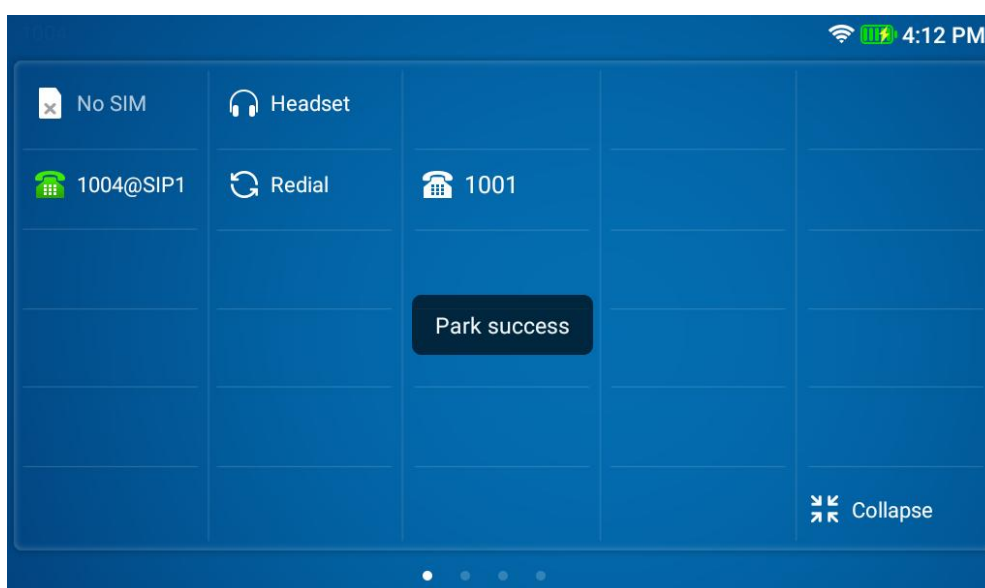
1. On Phone A, enter the DSSKey configuration interface by tapping the "... " icon.  
Long-press an available DSSKey;  
set the Type to "**Memory Key**", select "**Call Park**" as the Subtype, and enter the target extension number (e.g., **\*68**) in the Value field.
2. Phone B calls Phone A, and a conversation is established between A and B.
3. Phone A presses the configured Call Park key. Phone B is placed on hold.
4. To retrieve the call, enter the **retrieval code** (e.g., **\*88**) on any other phone. The call with Phone B will then be resumed.

**Note:** Please consult your server provider for the specific park and retrieval codes.

---



Call park settings



Park success

### Via Web Interface:

#### Procedure

1. Log in to the phone's web portal.
2. Navigate to **[Function Key] → [Function Key]**.
3. Choose a DSS key and set it as a **Memory Key**.
4. Set subtype as **Call Park**, input the Call Park number of the server, and configure the appropriate SIP line

Default password is in use. Please change English Logout ( admin ) Keep Online

**Function Key** **Softkey** **Advanced**

**Function Key Settings**

Dsskey Transfer Mode: Make a New C Long Press Ed Dsskey Home Page: None Apply

Page1 Page2 Page3 Page4 Delete Add New Page

Key	Type	Name	Value	Subtype	Line	Media	PickUp Number
DSS Key 1	Line			None	LTE	DEFAULT	
DSS Key 2	Line			None	1004@SIP1	DEFAULT	
DSS Key 3	None			None	AUTO	DEFAULT	
DSS Key 4	None			None	AUTO	DEFAULT	
DSS Key 5	None			None	AUTO	DEFAULT	
DSS Key 6	None			None	AUTO	DEFAULT	
DSS Key 7	Key Event			Headset	AUTO	DEFAULT	
DSS Key 8	Key Event			Redial	AUTO	DEFAULT	
DSS Key 9	Memory Key		1001	Call Park	AUTO	DEFAULT	
DSS Key 10	None			None	AUTO	DEFAULT	

Web set call park

## Pick Up

The **Pick Up** feature requires **server support**. Please consult your system administrator before use.

### Feature Description:

Users can configure a DSS key as **BLF** and set a **Pick Up code** to answer incoming calls to another extension.

### Configuration Methods:

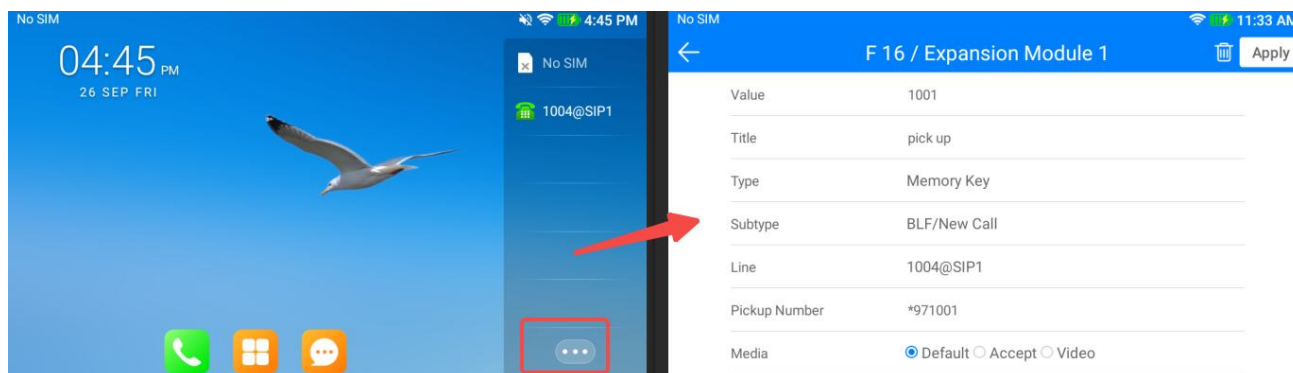
- Via Phone Interface:

### Procedure

1. In standby mode, press the **unfold** button.
2. Long-press an editable key to enter the function key settings.
3. Set the key type to **Memory Key**, and subtype to **BLF/NEW CALL**.
4. Assign the corresponding **SIP line**.
5. Input the **subscription number** and **Pick Up code**.

### Usage:

When the monitored number is ringing, press the configured DSS key to pick up the call.

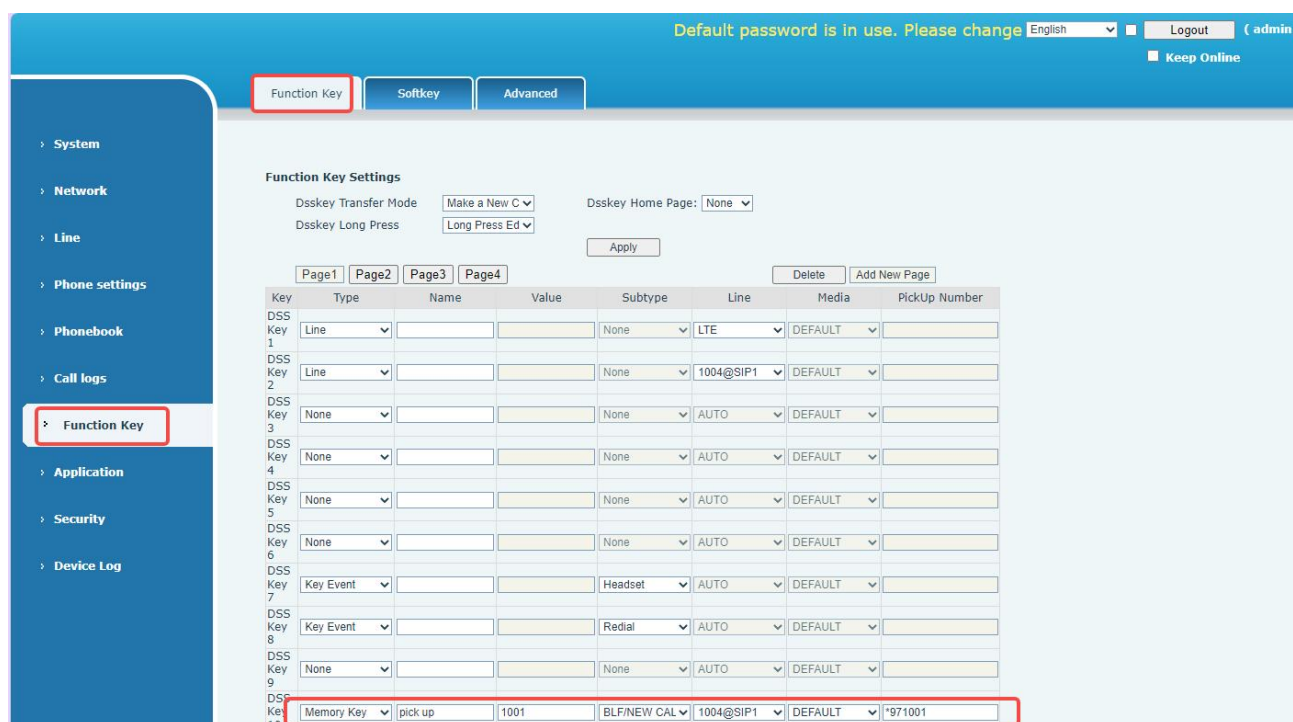


Phone Pick up setting

### Via Web Interface:

#### Procedure

1. Log in to the phone's web interface.
2. Go to **[Function Key] → [Function Key]**.
3. Select a DSS key and set it as **Memory Key**.
4. Set the subtype to **BLF/NEW CALL**.
5. Configure the appropriate **SIP line**, **subscription number**, and **Pick Up code**.



Web pick up setting

## Anonymous Call

The DT-200 phone supports anonymous call features to **hide the caller number and name**.



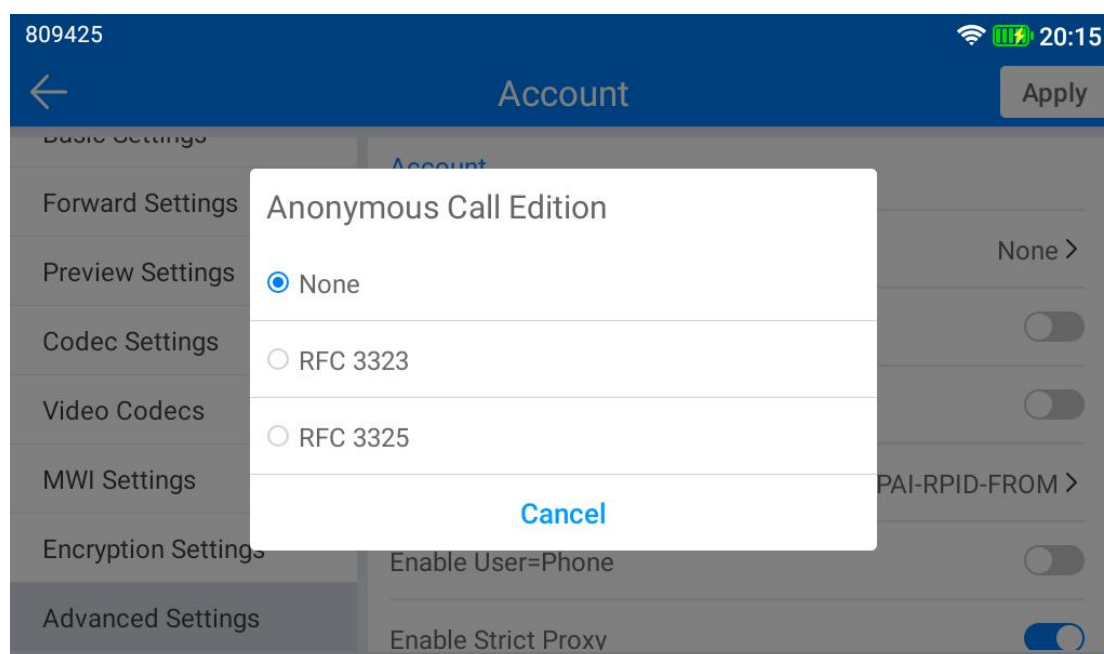
**Note:** This feature requires **server support**.

## Enable Anonymous Call

### Configuration on the Phone:

#### Procedure

1. Go to **[Phone Settings] → [Account] → [Line] → [Advanced Settings] → [Anonymous call edition]**.
2. Default is **None** (disabled).
3. Available options: **RFC3323** and **RFC3325**.
4. Select either to enable anonymous calls.

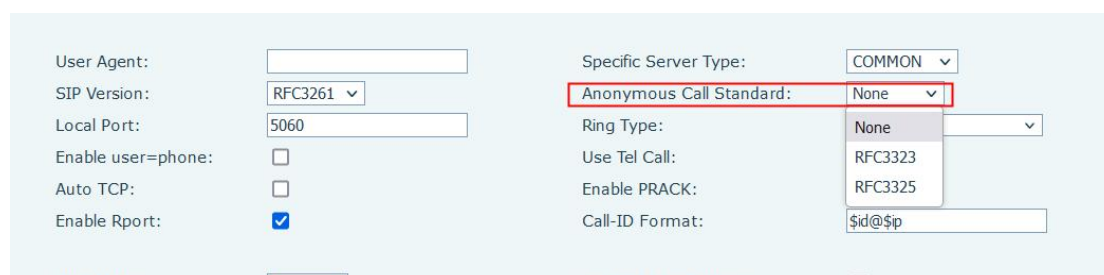


Enable anonymous call

### Configuration via Web Interface:

#### Procedure

1. Go to **[Line] → [SIP] → [Advanced Settings]**.
2. Enable anonymous call per **SIP line**. (Settings for SIP1 apply only to SIP1).



Enable Anonymous web page call



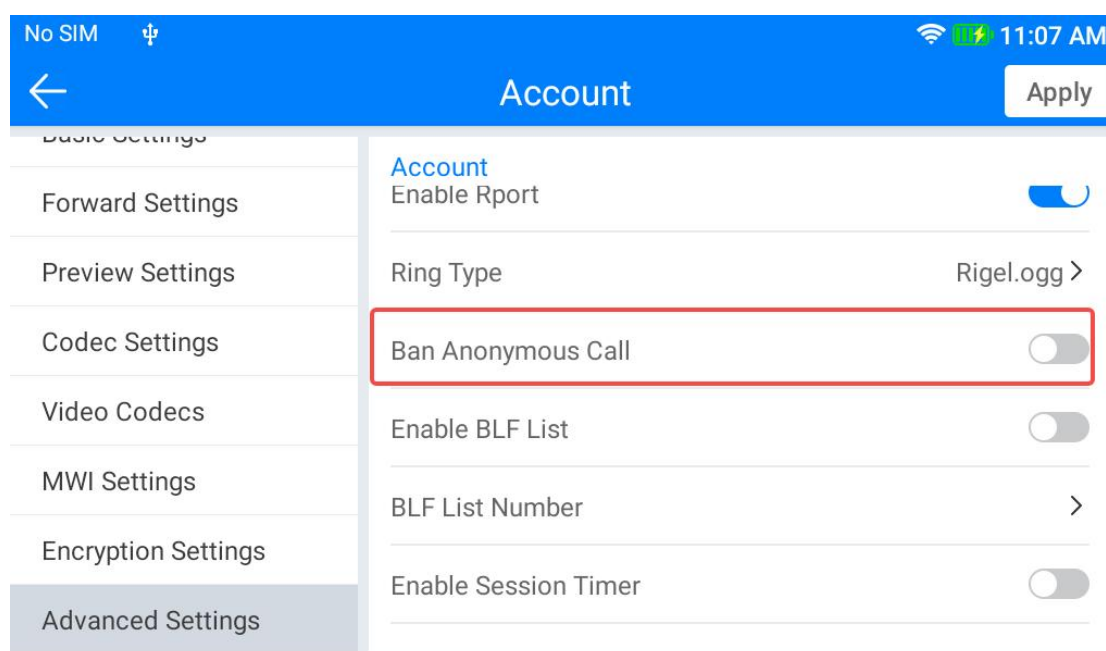
## Reject Anonymous Call

The phone can also be set to **reject anonymous calls**, meaning such calls will be automatically blocked.

### Configuration on the Phone:

#### Procedure

1. Go to **[Phone Settings] → [Account] → [Line] → [Advanced Settings] → [Ban anonymous call]**.
2. You can enable or disable the rejection.
3. Ban settings apply to each SIP line individually (e.g., SIP1 setting only affects SIP1)



Ban anonymous call setting

## Make a Call With A Hotline Phone

The device supports **hotline dialing**, which allows the phone to automatically call a preset number after picking up the handset, activating hands-free, or plugging in a headset—based on a configured delay.

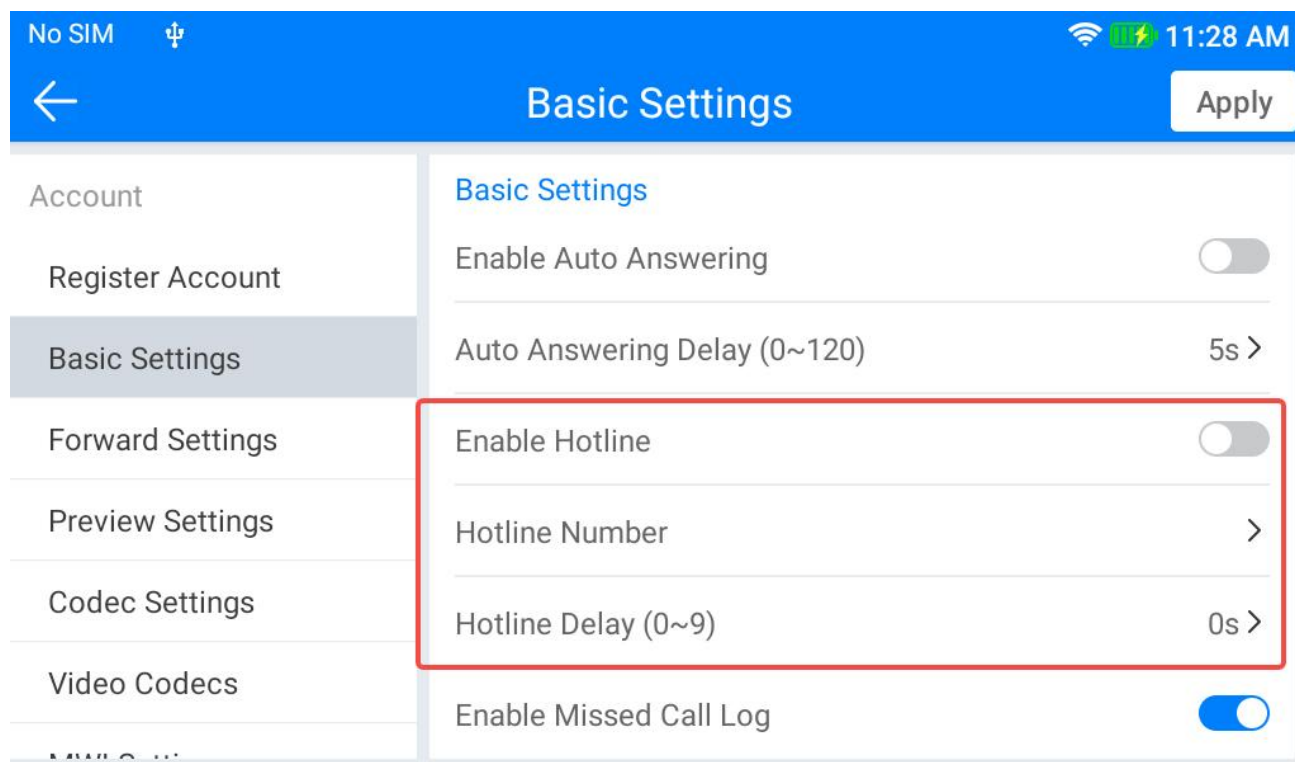
### Feature Description:

After configuring hotline dialing, once the audio channel is opened (by handset, speakerphone, or headset), the phone will automatically enter the dialer screen and place a call to the preset number after the defined delay period.

### Configuration via Phone Interface:

## Procedure

1. Go to [Phone Settings] → [Account] → [Line] → [Basic Settings].
2. Enable the **Hotline** feature (default is off).
3. Set the **Hotline Number**.
4. Set the **Hotline Delay Time**.



Phone hotline setting interface

**Note:** Hotline settings are bound to the specific SIP line. For example, a hotline set under SIP1 only applies when SIP1 is active.

## BLF (Busy Lamp Field)

The BLF (Busy Lamp Field) feature allows users to monitor the status of other subscribed extensions, perform various call operations, and pick up calls directly. It requires server support and is configured via function keys.

## Configure the BLF Functionality

### Via Phone Interface:

## Procedure

1. Press the **Unfold button** in standby mode.
2. Long-press a key to enter the function key setting.

Set:

**Type:** Memory Key.

**Subtype:** BLF/NEW CALL, Blind Transfer, Attended Transfer, Conference, DTMF.

**Value:** Subscription number.

**SIP line:** Corresponding SIP account.

3. The **pickup number** must be provided by the server.

No SIM ψ 9:42 AM

← F 15 / Expansion Module 1 🗑️ Apply

Value	value
Title	Title
Type	Memory Key
Subtype	BLF/New Call
Line	1004@SIP1
Pickup Number	Pickup Number
Media	<input checked="" type="radio"/> Default <input type="radio"/> Accept <input type="radio"/> Video

Phone configuration BLF function key

## BLF Function key subtype parameter list

Subtype	Standby is described	Calling is described
BLF/NEW CALL	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you create a new call along with the subscribed number.
BLF/Blind Transfer	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you blind transfer the call to the subscribed number.
BLF/Attended Transfer	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you attendance transfer the call to the subscribed number.
BLF/Conference	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you invite the subscriber number to join the meeting.

BLF/DTMF	Pressing the BLF key while standby to dial the subscriber number.	When the BLF key is pressed while talking to another user, the phone automatically sends the DTMF corresponding to the BLF key number.
----------	---	--

## Use the BLF Function

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

The BLF key supports the following operations:

### 1. Monitors the status of subscribed phones.

LED indicators show subscription number status (idle, ringing, talking).  
Refer to **DSS KEY LED State** for details.

### 2. Call the Subscribed Number

Press the BLF key in standby to dial the associated number.

### 3. Transfer calls to the subscribed number

BLF keys support blind transfer, attended transfer, and invite to conference.  
Refer to [BLF subtype list](#) for detailed behavior.

### 4. Pickup incoming calls from subscribed phones

When the subscribed number rings, the BLF LED flashes red.  
Press the BLF key to pick up the incoming call.

## BLF List

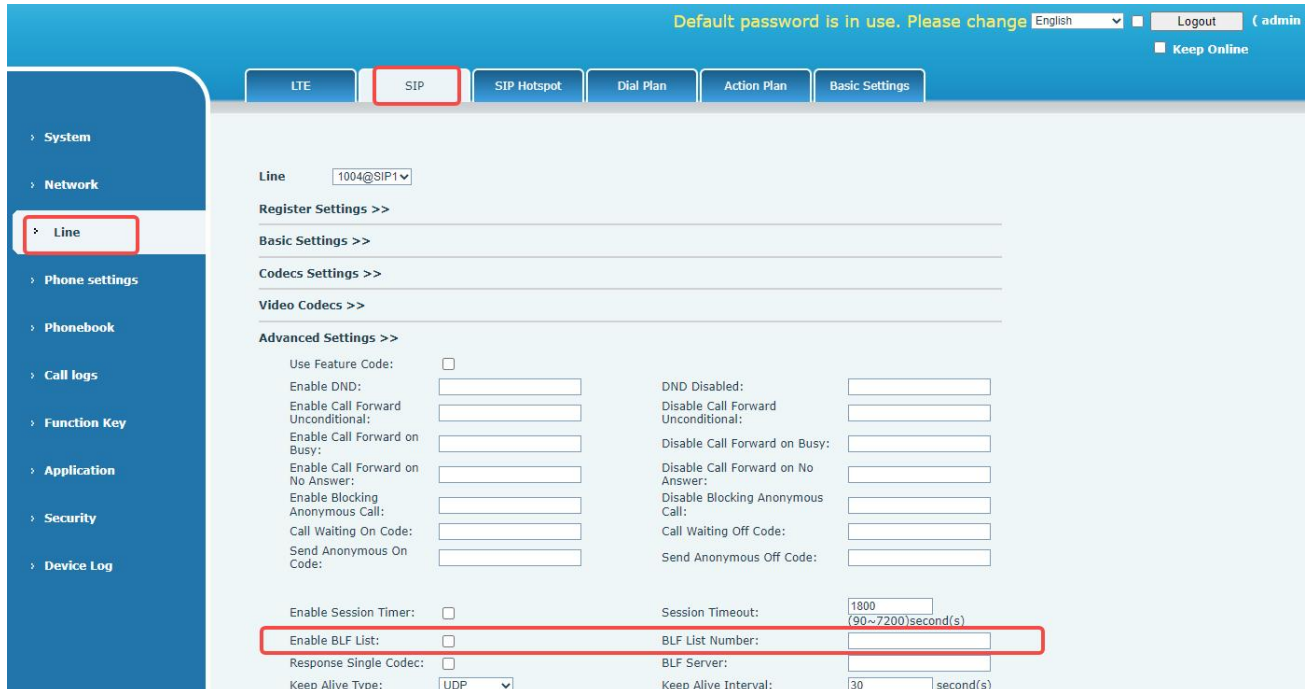
This feature involves grouping the numbers to be subscribed to on the server side. The phone uses the group's URL to subscribe uniformly. Based on the NOTIFY messages sent from the server, the phone parses specific information for each number, including the number, name, and status. Unassigned function keys are then configured as **BLF List Key**. If the status of any subscribed number changes, the corresponding LED indicator will be updated accordingly.

### Configuring the BLF List Function:

#### Configuration:

## Procedure

1. Log in to the **web interface**.
2. Go to **[Line] → [SIP] → [Advanced settings]**.
3. Enable **BLF List** and set the **BLF List number (URL)**.



Configure the BLF List functionality

### Use the BLF List function:

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

DSS Key 4	Line		None	SIP4	DEFAULT		Default Green
DSS Key 5	Line		None	SIP5	DEFAULT		Default Green
DSS Key 6	Line		None	SIP6	DEFAULT		Default Green
DSS Key 7	BLF List Key		Redial	AUTO	DEFAULT		Default Green
DSS Key 8	None		None	AUTO	DEFAULT		Default Green

BLF List number display

## SIM Management

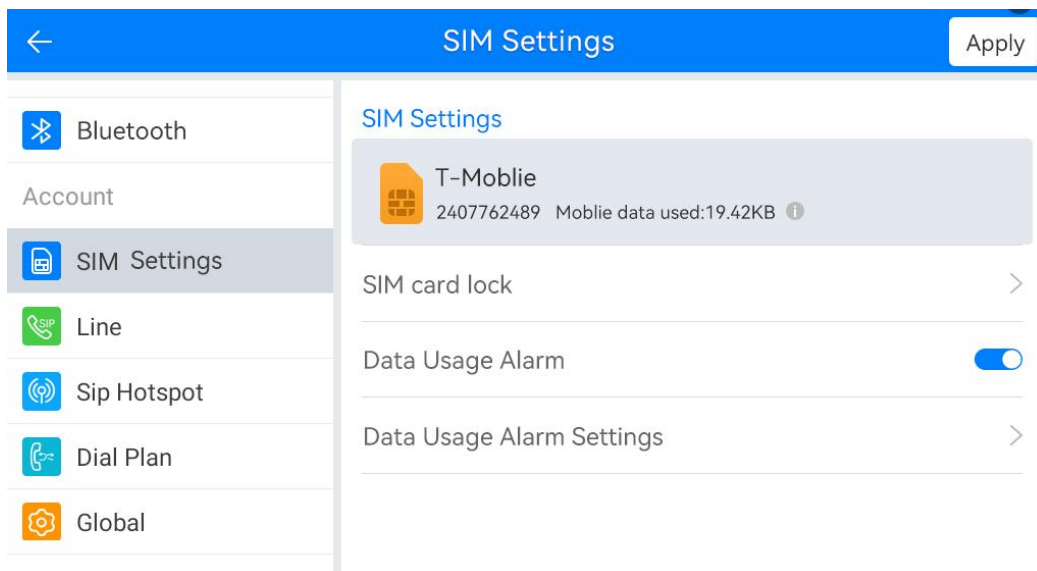
This section allows users to view SIM card information and manage its security and data usage.

## SIM Card Information

### Procedure

On the **[Phone Settings] → [SIM Settings]** interface, users can:

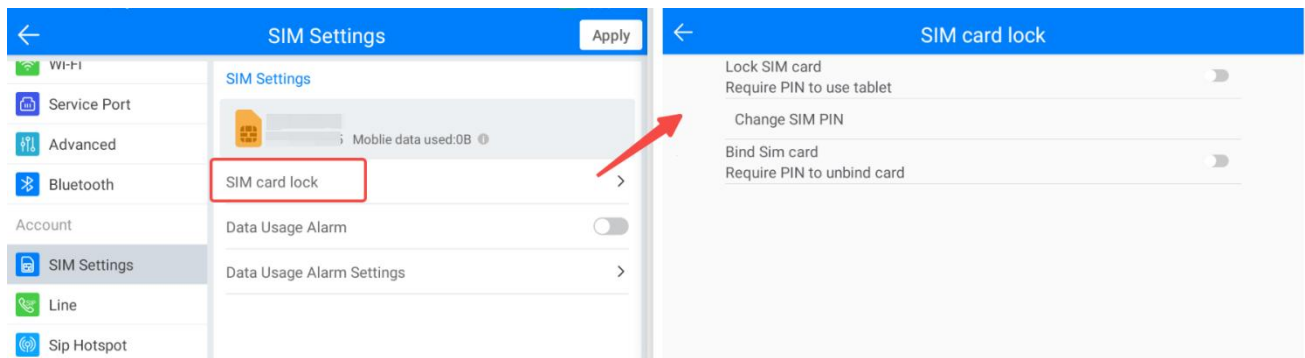
- View and edit the SIM card number.
- Check current SIM card status and traffic usage.



SIM card status

## SIM Card Lock

- The device supports **SIM PIN lock**.
- Once enabled, the SIM card will require a PIN after reboot or reinsertion.
- If you have never used a SIM card PIN code, please enter the default PIN code provided by the carrier.
- If the PIN is entered incorrectly three times, the device will prompt for a **PUK code**.
- Please contact the operator who provides you with the SIM card to obtain the PIN and PUK codes for your SIM card. If the SIM card cannot be unlocked using the SIM PIN or PUK code, and the PUK code is entered incorrectly 10 times, the SIM card will be completely locked and a new SIM card needs to be obtained. Please input it carefully.



SIM card lock setting

## SIM Card Bind

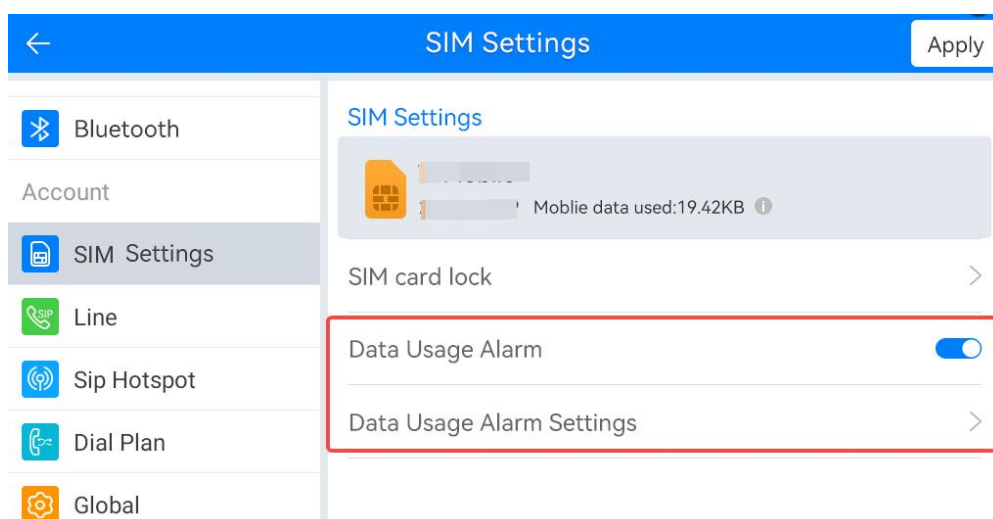
- If SIM card lock is enabled, users can choose to **bind the SIM card to the current device**.
- After binding, the SIM card **does not require PIN input** when used on this phone.
- However, it **still requires PIN input** if inserted into another device.

## Data Usage Alarm

The device supports a traffic alert function:

### Procedure

- Users can configure:
  - **Monthly Data Plan**: total monthly data limit.
  - **Billing Start At**: the date when billing resets (per carrier).
  - **Alarm Threshold**: data usage level at which an alert is triggered.
  - When the threshold is reached, a **pop-up** and **status bar notification** will appear.



## Data Usage Alarm

←
Data Usage Alarm Settings
Apply

Billing Start At	1 >
Month Data Plan	10.00GB >
Alarm Threshold	9.00GB >

## Data Usage Alarm Settings

## Call Recording

The device supports recording during a call.(Currently, device recording only supports PCMU and PCMA encoding)

## Local Recording to Device Storage

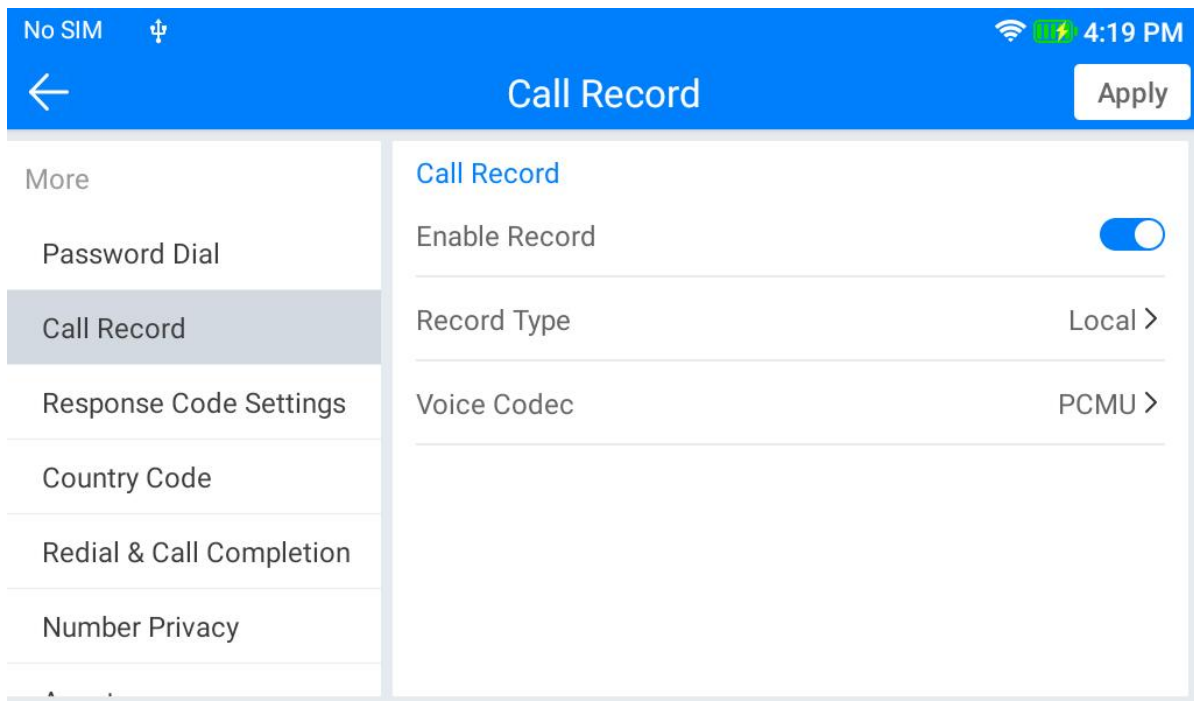
To record and play back calls locally:

### Procedure

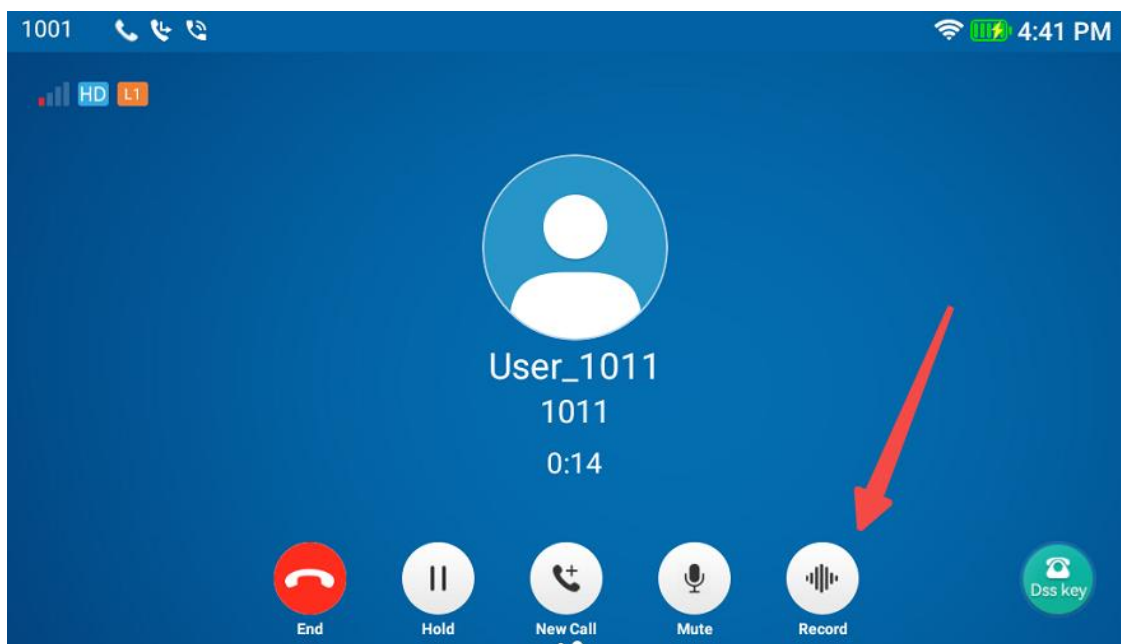
- **Enable Local Recording via Phone:**
  - Go to **[Phone Settings] → [More] → [Call Record]**, set recording type to **Local**, and choose a voice codec.
- **Set Recording Key:**
  - In phone or web interface, configure a **DSS key** as a **Key Event** with type **Record**.
- **Start Recording:**
  - Make a one-line call and press the DSS recording key.
  - Alternatively, tap the **Record button** on the call screen.
- **Stop Recording:**
  - End the call or tap the **Record button** again on the call screen.
- **Playback:**



- Phone: Access the drop-down status bar to view new recordings. Select the desired recording file and tap to play it.



Call Record settings



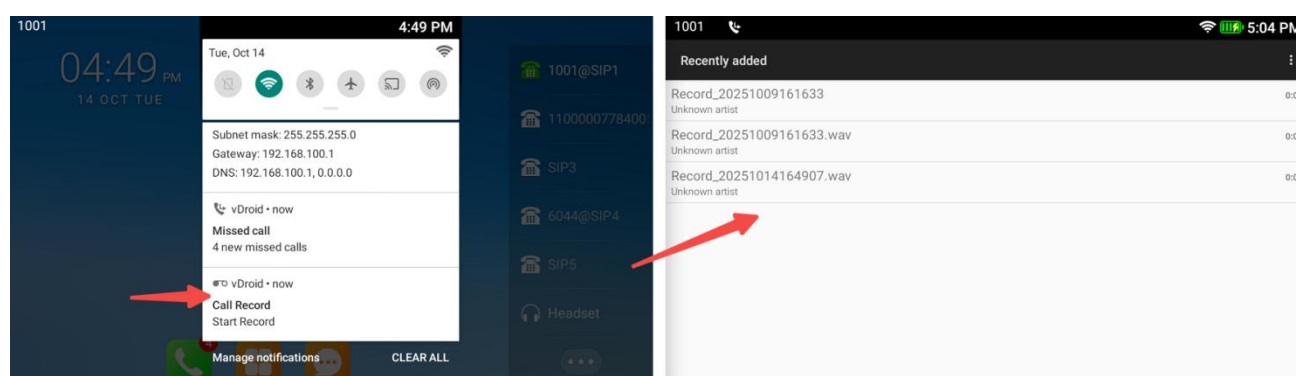
Record Function

1001 📞 📶 🔋 4:43 PM

← F 23 / Expansion Module 1 🗑️ Apply

Title	Title
Type	Key Event
Subtype	Record

### Dsskey settings



### Playing Recordings

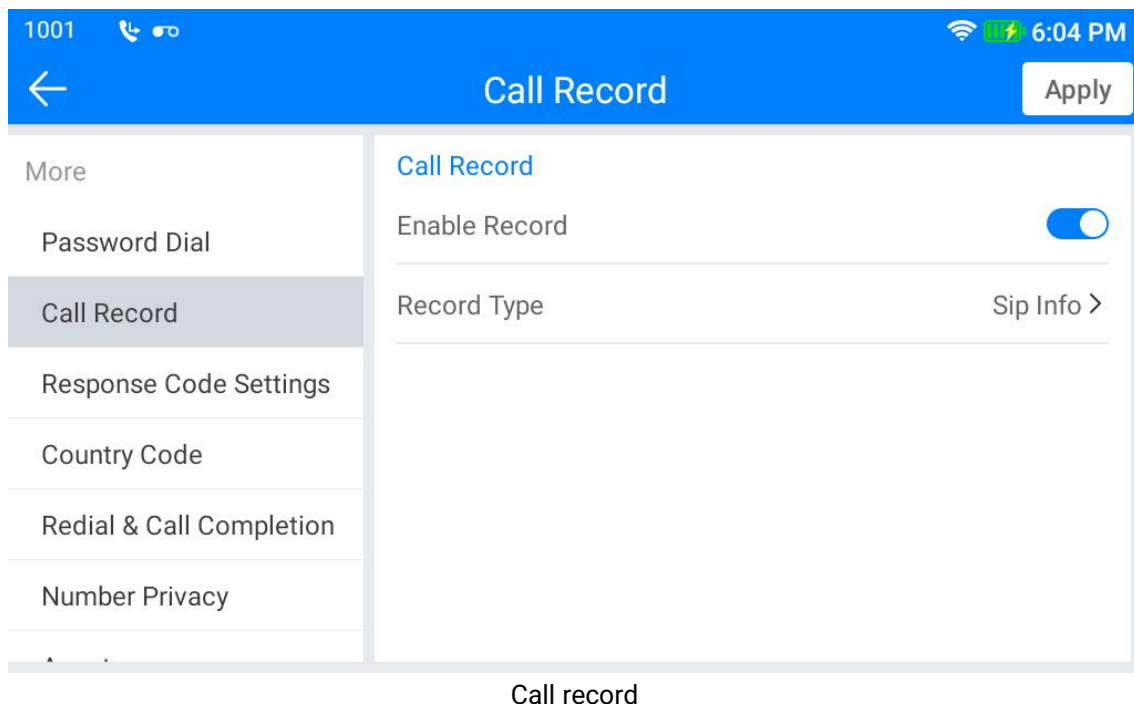
Note: Before recording a call, you must understand the rules and restrictions governing call recording in your country. You must inform all parties on the call that you are recording and obtain their consent prior to recording.

## SIP INFO Triggered Recording

If your SIP server supports **SIP INFO** recording:

### Procedure

1. Register the phone to that server.
2. In **[Phone Settings]** → **[More]** → **[Call Record]**, set the recording type to **SIP INFO**.
3. The server will control when recording starts/stops via SIP INFO signaling.



Call record

## Agent Account Login

The phone supports an Agent function that allows multiple users to register their individual SIP accounts on the same device at different times. This enables quick account switching for shared use. The Agent feature includes two modes: **Normal Mode** and **Hotel Guest Mode** (the latter requires server support).

### Normal Mode

To enable and use Agent in Normal mode:

#### Procedure

- 
- Set a **DSS key** as type **Agent**, or
  - Go to: **[Phone Settings] → [Call] → [More] → [Agent]**
- 

**Note:** Access requires the advanced password: **admin**.

#### Configuration Fields:

- **Number** – Agent account number
- **User** – Username for authentication
- **Password** – Password for authentication
- **Line** – SIP line to register with

←
Agent Apply

<div style="background-color: #f2f2f2; padding: 5px;">microcom</div> <div style="background-color: #f2f2f2; padding: 5px;">Response Code Settings</div> <div style="background-color: #f2f2f2; padding: 5px;">Country Code</div> <div style="background-color: #f2f2f2; padding: 5px;">Redial &amp; Call Completion</div> <div style="background-color: #f2f2f2; padding: 5px;">Number Privacy</div> <div style="background-color: #d9d9d9; padding: 5px;">Agent</div> <div style="background-color: #f2f2f2; padding: 5px;">Third-Party App Settings</div> <div style="background-color: #f2f2f2; padding: 5px;">Other Settings</div>	<div style="background-color: #d9d9d9; padding: 5px; margin-bottom: 5px;">Agent</div> <div style="padding: 5px;"> <div>Enable <span style="float: right;"><input checked="" type="checkbox"/></span></div> <hr/> <div>Type <span style="float: right;">Hotel Guest &gt;</span></div> <hr/> <div>Number <span style="float: right;">&gt;</span></div> <hr/> <div>User <span style="float: right;">&gt;</span></div> <hr/> <div>Password <span style="float: right;">&gt;</span></div> <hr/> <div>Line <span style="float: right;">&gt;</span></div> </div>
--	---

Configure the agent account in normal mode

## Hotel Guest Mode

Requires server support. In addition to fields above, Hotel Guest mode also includes:

- **Status** – Can be set to:
  - login
  - logout
  - invalid
  - valid
  - SMS

←
Agent Apply

<div style="background-color: #f2f2f2; padding: 5px;">microcom</div> <div style="background-color: #f2f2f2; padding: 5px;">Response Code Settings</div> <div style="background-color: #f2f2f2; padding: 5px;">Country Code</div> <div style="background-color: #f2f2f2; padding: 5px;">Redial &amp; Call Completion</div> <div style="background-color: #f2f2f2; padding: 5px;">Number Privacy</div> <div style="background-color: #d9d9d9; padding: 5px;">Agent</div> <div style="background-color: #f2f2f2; padding: 5px;">Third-Party App Settings</div> <div style="background-color: #f2f2f2; padding: 5px;">Other Settings</div>	<div style="background-color: #d9d9d9; padding: 5px; margin-bottom: 5px;">Agent</div> <div style="padding: 5px;"> <div>Enable <span style="float: right;"><input checked="" type="checkbox"/></span></div> <hr/> <div>Type <span style="float: right;">Hotel Guest &gt;</span></div> <hr/> <div>Number <span style="float: right;">&gt;</span></div> <hr/> <div>User <span style="float: right;">&gt;</span></div> <hr/> <div>Password <span style="float: right;">&gt;</span></div> <hr/> <div>Line <span style="float: right;">&gt;</span></div> </div>
--	---

Configure the proxy account-hotel Guest mode

## How to Use Agent Login

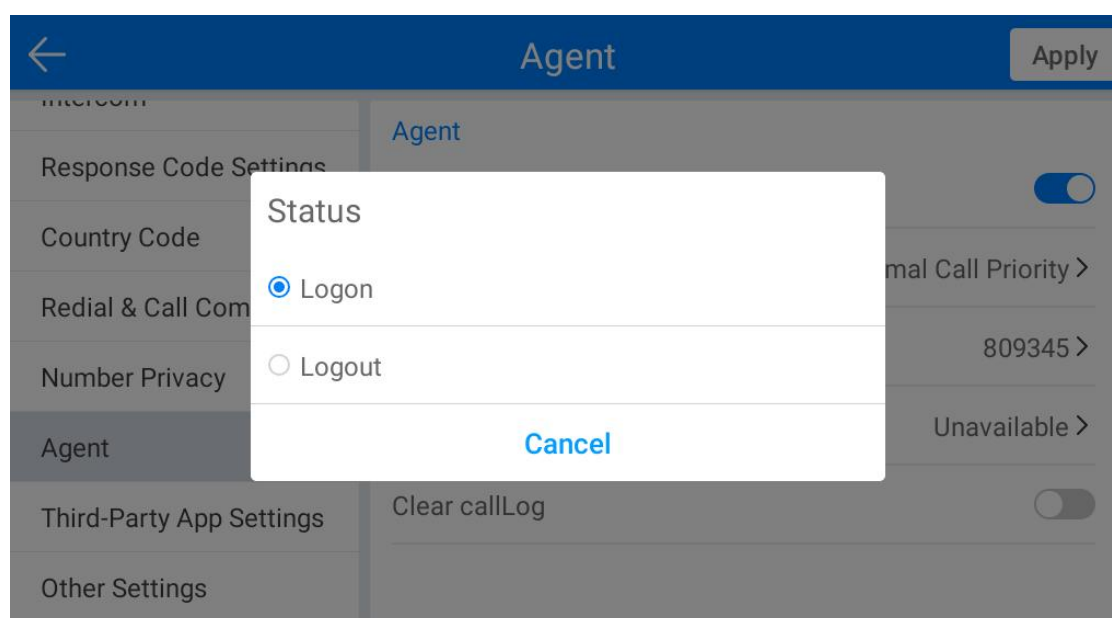
1. After SIP server is set, fill in the correct number, username, and password.

Click **Login** to register to the SIP server.

2. To log out:

- Close the Agent interface to clear the account info, or
- Click **Status**, choose **Logout** to retain the credentials while logging out.

Parameter	Description
<b>Normal mode</b>	
Number	Set the proxy account number.
User	Set the proxy account number to verify the user name.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
<b>Hotel Guest mode</b>	
Number	Set the proxy account number.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
Status	The user can select the status of the number, the optional status is: login, logout, invalid, valid, SMS.



Agent login page

# MCAST

This feature allows the device to send or receive multicast audio broadcasts via RTP, **without SIP signaling**. It is suitable for one-way announcements to a group of phones.

## Multicast Send

- Configure a **DSS key** as type **MCAST Paging**.
- When pressed, it sends a **Real-Time Transport Protocol (RTP)** stream to a predefined multicast address and port.
- **Codec selection** is supported.

**Configuration Path (Web Interface):**

### Procedure

- 
1. Go to **[Function Key] → [Function Key]**
  2. Type: Select **"MCASTA Paging"**
  3. name: Enter a custom name for the multicast key.
  4. Value: Configure the value in the format:  
**"Multicast\_Address:Multicast\_Port"** or **"Multicast\_Address:Multicast\_Port:Channel\_Value"**.  
**Note:** Set the **multicast IP address** (range: 224.0.0.0 to 239.255.255.255) and port number (range: 1024 to 65535), separated by a colon.  
If a channel value is required, use the format: **"Multicast\_Address:Multicast\_Port:Channel\_Value"**.  
If omitted, the channel value defaults to 0.
  5. Subtype: Select or customize the multicast audio codec.
  6. Once configured, a multicast icon will appear on the phone's expansion interface. Click this icon to initiate multicast transmission.
-

Default password is in use. Please change English

**Function Key** | Softkey | Advanced

**Function Key Settings**

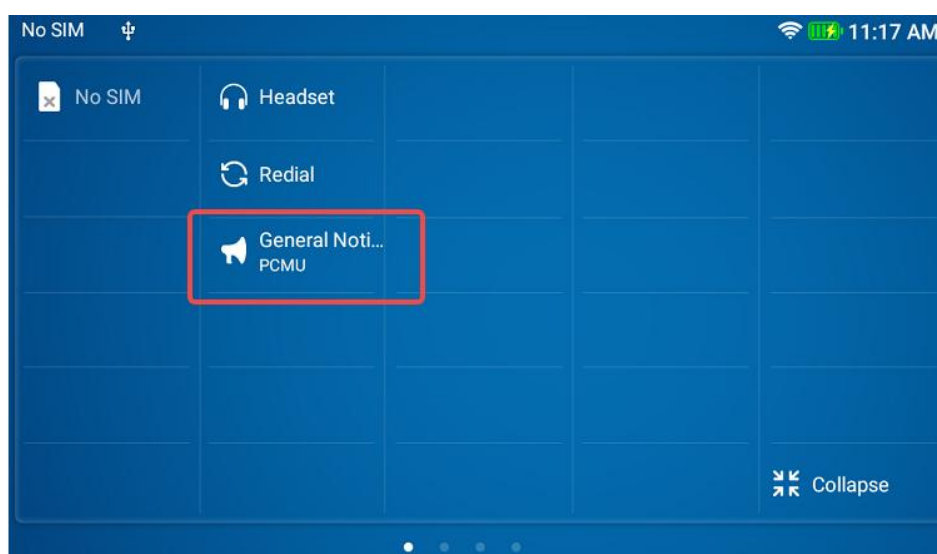
Dsskey Transfer Mode: Make a New C | Dsskey Home Page: None

Dsskey Long Press: Long Press Ed | Apply

Page1 | Page2 | Page3 | Page4 | Delete | Add New Page

Key	Type	Name	Value	Subtype	Line	Media	PickUp Number
DSS Key 1	Line			None	1001@SIP1	DEFAULT	
DSS Key 2	Line			None	110000077840	DEFAULT	
DSS Key 3	Line			None	SIP3	DEFAULT	
DSS Key 4	Line			None	6044@SIP4	DEFAULT	
DSS Key 5	Line			None	SIP5	DEFAULT	
DSS Key 6	Key Event			Headset	AUTO	DEFAULT	
DSS Key 7	Key Event			Redial	AUTO	DEFAULT	
DSS Key 8	MCAST Paging	General Notice	224.0.0.0:1024	G.711U	AUTO	DEFAULT	
DSS Key 9	None			None	AUTO	DEFAULT	
DSS Key 10	None			None	AUTO	DEFAULT	

Multicast send settings



Multicast send icon

## Multicast Reception

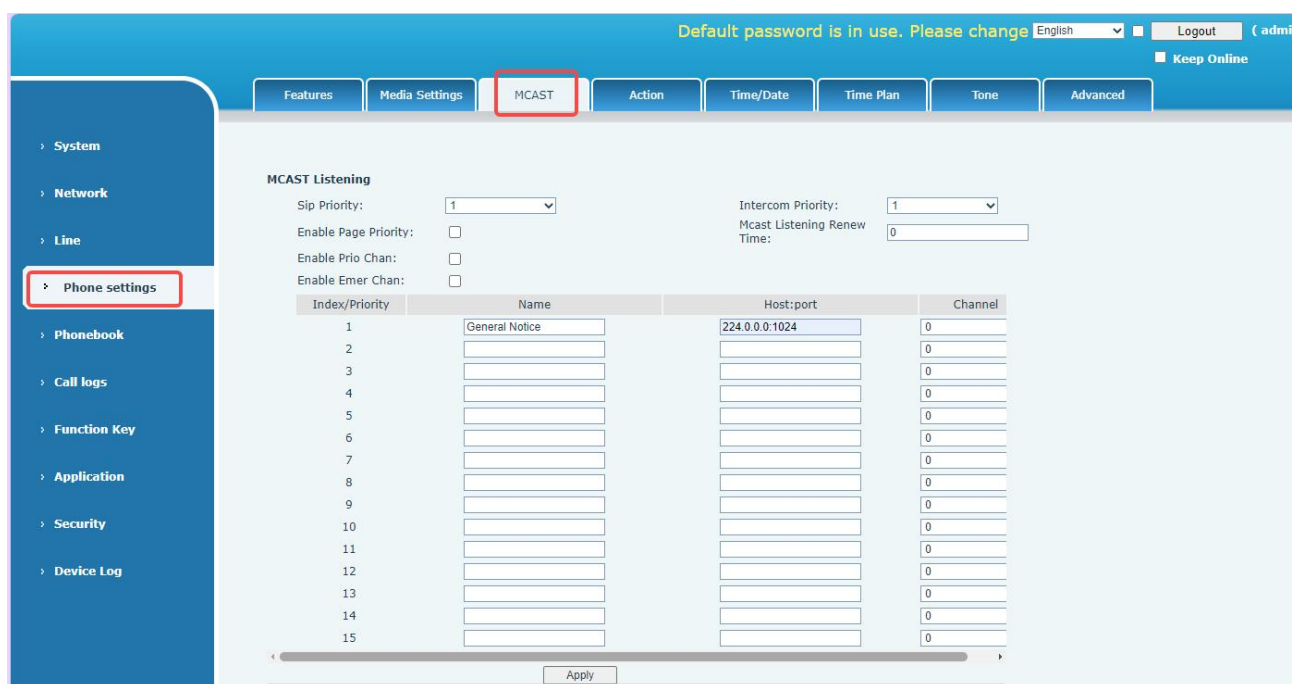
- The phone can **receive up to 10 multicast streams** simultaneously.
- Incoming RTP streams to these addresses will be automatically played on the phone's speaker.

- Multicast listening can be configured in two modes: **Automatic** and **Manual**.

### Automatic Listening Configuration Path (Web Interface):

#### Procedure

1. Go to **[Phone Settings] → [MCAST]**
2. On the phone intended to receive multicast, under the "Index/Priority" section, configure the following parameters to match the multicast sender settings:
  - Name
  - Host:Port
  - Channel
3. Additionally, configure the following parameters as needed:
  - SIP Priority
  - Enable Page Priority
  - Enable Prio Chan
  - Enable Emergency Chan



Default password is in use. Please change English Logout (admin)

Features Media Settings **MCAST** Action Time/Date Time Plan Tone Advanced

System  
Network  
Line  
**Phone settings**  
Phonebook  
Call logs  
Function Key  
Application  
Security  
Device Log

**MCAST Listening**

Sip Priority: 1 Intercom Priority: 1  
 Enable Page Priority: ☐ Mcast Listening Renew Time: 0  
 Enable Prio Chan: ☐  
 Enable Emer Chan: ☐

Index/Priority	Name	Host:port	Channel
1	General Notice	224.0.0.1024	0
2			0
3			0
4			0
5			0
6			0
7			0
8			0
9			0
10			0
11			0
12			0
13			0
14			0
15			0

Apply

Automatic Listening settings

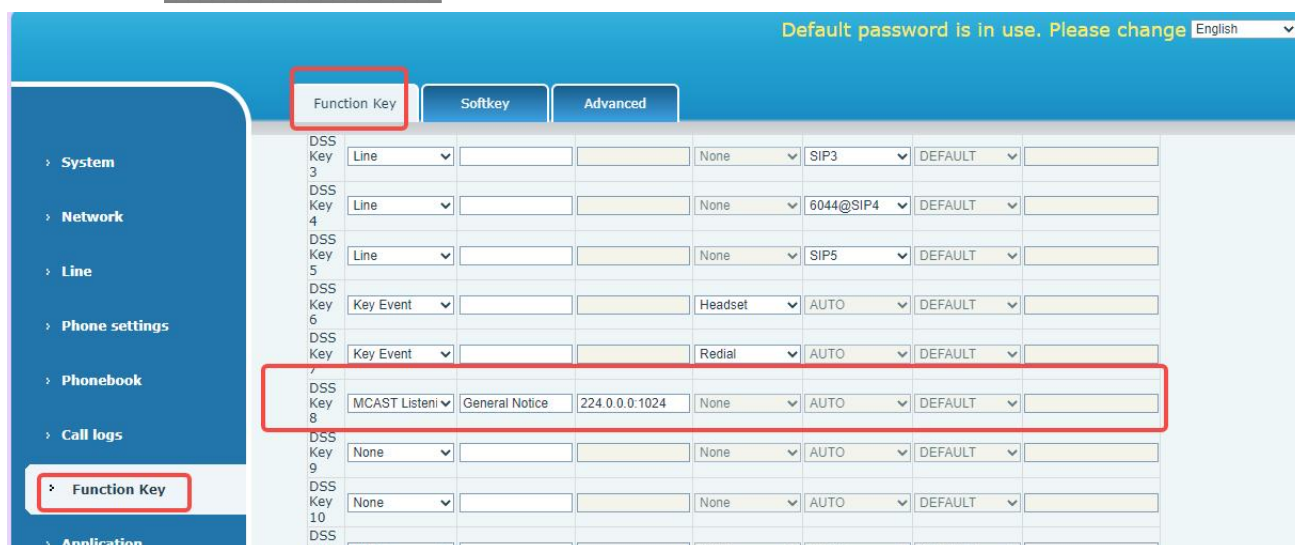
### Manual Listening Configuration Path (Web Interface):

#### Procedure

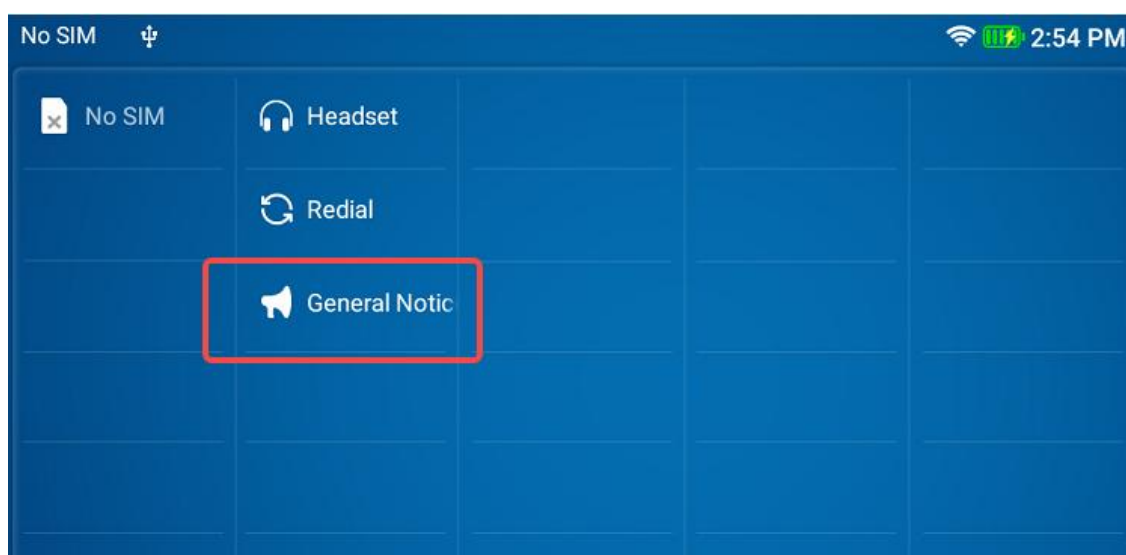
1. Go to **[Function Key] → [Function Key]**
2. Type: Select **"MCASTA Listening"**.
3. Name: Assign a custom name for the multicast listening key
4. Value: **This must match the multicast address configured for the sender.**
5. Once configured, a multicast listening icon will appear on the phone's expansion interface.



When a multicast stream is being transmitted, manually click this icon to begin receiving the multicast.



Multicast Listening Configuration



Multicast Listening icon

## Priority & Interrupt Settings

MCAST Parameters on web

Parameters	Description
SIP Priority	<p>Sets the priority for SIP/IP calls (non-multicast calls). A lower number indicates a higher priority.</p> <p><b>For example:</b></p> <p>If the phone currently has one or more active SIP/IP calls (non-multicast</p>

	calls) and the SIP Priority is set to " <b>Disabled</b> ", any multicast call, regardless of its priority level, will not be answered and will be rejected.  If the SIP Priority is set to a value between 1 and 10, only multicast calls with a higher priority (i.e., a lower numerical value) than the set value will be answered.  When such a multicast call is answered, all other active calls will be automatically placed on hold.
Intercom Priority	Defines the priority of the intercom call in the current call, with 1 being the highest priority and 15 being the lowest.
Enable Page Priority	No matter who calls in first, the two multicast calls will receive the higher priority multicast first.
Mcast Listening Renew Time	Set the wait time for re-listening the multicast
Enable Prio Chan	A channel with a channel value of 24 is a priority channel, effective after channel priority is opened
Enable Emer Chan	Each channel's multicast is not affected by the order, can arbitrarily interrupt other multicast
Index/priority	Sets the priority of the current multicast call
Name	The name of the server that listens for the multicast
Host: port	Address of the server listening on the multicast: port number
Channel	Set up the multicast channel

### Example 1: Configuring SIP Priority Only

Settings: Select any option for "SIP Priority" and add the multicast address under "Index/Priority".

1. **During an active SIP/IP call:** Any incoming multicast call will be rejected.
2. **When the phone is idle:** If multiple multicast calls arrive, the first incoming multicast call will be answered (as there is no priority distinction between multicast calls in this mode). Subsequent multicast calls will only be answered after the first call has ended or been rejected.
3. **During an active multicast call:** If a new SIP/IP call arrives, the incoming call will be displayed on the call screen. If answered, the ongoing multicast call will be automatically placed on hold.

To enable receiving multicast calls during SIP calls, refer to Example 2 below.

### Example 2: Configuring Both "SIP Priority" and "Enable Page Priority"

1. **During an active SIP/IP call:** If a multicast call with a higher "Index/Priority" (i.e., lower numerical value) than

the "SIP Priority" arrives, it will be answered. If multiple multicast calls arrive, the one with the highest priority (lowest number) will be answered first, and all other multicast calls and the ongoing SIP/IP call will be placed on hold.

2. **When the phone is idle:** If multiple multicast calls arrive, the one with the highest "Index/Priority" (lowest number) will be answered first, and other multicast calls will be placed on hold.

3. **During an active multicast call:** If a new SIP/IP call arrives, the incoming call will be displayed on the call screen. If answered, the ongoing multicast call will be automatically placed on hold.

## SCA (Shared Call Appearance)

SCA allows a single SIP account to be registered and shared across multiple devices. This enables team members (e.g., manager and secretary) to jointly monitor and handle calls under the same line.

### Configuration Path (Web Interface):

#### Procedure

---

To enable SCA, server support (e.g., BroadSoft) is required.

1. **Register SIP Account:**

Go to [Line] → [SIP] → [Register Settings].

Register the same account on multiple phones.

2. **a server type needs to be set:**

Go to [Line] → [SIP] → [Advanced Settings].

Set **Specific Server Type** to **BroadSoft**.

Enable **SCA** (otherwise, the line is treated as private).

3. **DSS Key Configuration:**

Set **line keys** as SCA lines to display group call status.

To facilitate **private hold**, configure keys whose DSS Key is Private Hold on the Function Key page.

**Public hold** uses the standard [Hold] softkey.

After each phone registered with the BroadSoft server is configured as above, the SCA function can be used.

---

Line: 8006003@5

**Register Settings >>**

Line Status: **Registered**

Username: 8006003

Display name:

Realm:

**Created SCA account**

The user name and password of the primary account create

Activate: ☒

Authentication User:

Authentication Password:

Server Name:

**SIP Server 1: Broadsoft Server address**

Server Address: 172.16.1.7

Server Port: 5060

Transport Protocol: UDP

Registration Expiration: 3600  
(30~2147483647)second(s)

Proxy Server Address:

Proxy Server Port: 5060

Proxy User:

Proxy Password:

**SIP Server 2:**

Server Address:

Server Port: 5060

Transport Protocol: UDP

Registration Expiration: 3600  
(30~2147483647)second(s)

Backup Proxy Server Address:

Backup Proxy Server Port: 5060

## Register BroadSoft account

Default password is in use. Please change English

**SIP** | SIP Hotspot | Dial Plan | Action Plan | Basic Settings

RTP Encryption(SRTP): Disabled | Enable OSRTP: ☐

User Agent:

SIP Version: RFC3261

Local Port: 5060

Enable user=phone: ☐

Auto TCP: ☐

Enable Rport: ☒

DNS Mode: A

Enable Strict Proxy: ☒

Use Quote in Display Name: ☐

Sync Clock Time: ☐

Caller ID Header: FROM

Enable Feature Sync: ☐

TLS Version: TLS 1.2

Specific Server Type: BroadSoft

Anonymous Call Standard: None

Ring Type: Rigel.ogg

Use Tel Call: ☐

Enable PRACK: ☐

Call-ID Format: Sid@Sip

Enable Long Contact: ☐

Convert URI: ☒

Enable GRUU: ☐

Enable Use Inactive Hold: ☐

Use 182 Response for Call waiting: ☐

Enable SCA: ☐

uaCSTA Number:

## Enable SCA

Default password is in use. Please change En

**Function Key** | Softkey | Advanced

**Function Key Settings**

Dsskey Transfer Mode: Make a New C

Dsskey Long Press: Long Press Ed

Dsskey Home Page: None

Apply

Page1 | Page2 | Page3 | Page4

Delete | Add New Page

Key	Type	Name	Value	Subtype	Line	Media	PickUp Number
DSS Key 1	Line			None	1001@SIP1	DEFAULT	
DSS Key 2	Line			None	110000077840	DEFAULT	
DSS Key 3	Line			None	SIP3	DEFAULT	
DSS Key 4	Line			None	AUTO	DEFAULT	
DSS Key 5	Line			None	AUTO	DEFAULT	
DSS Key 6	Key Event			Private Hold	AUTO	DEFAULT	
DSS Key 7	None			None	AUTO	DEFAULT	

## Set Private Hold Function Key

### LED Status (Call Appearance Indicators)

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

### Usage Scenarios

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

#### Scenario 1:

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

#### Scenario 2:

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

#### Scenario 3:

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

#### Scenario 4:

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

# SMS and Voicemail Notifications

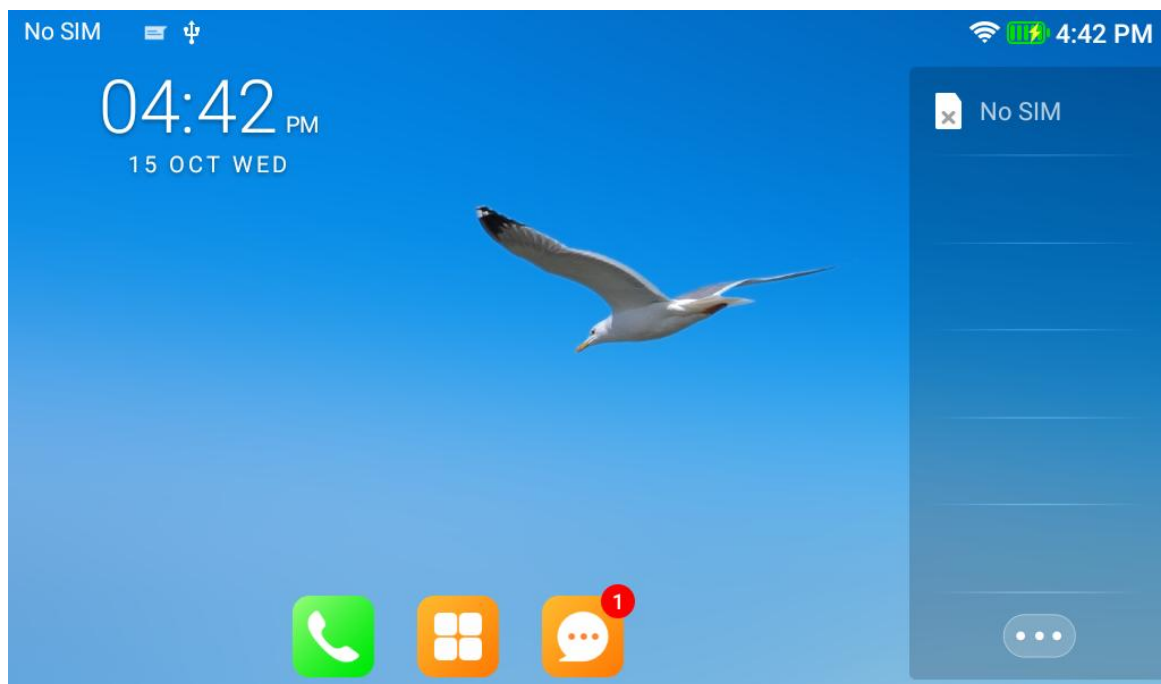
The DT-200 phone supports messaging functions, including SMS for text communication and MWI for voicemail alerts. This section explains how to send, receive, and manage messages.

## SMS

If the SIP line supports SMS (Short Message Service), the user can send and receive text messages through the phone.

### Receive SMS

- When an incoming SMS is received, the phone will display a new message notification icon on the standby screen.

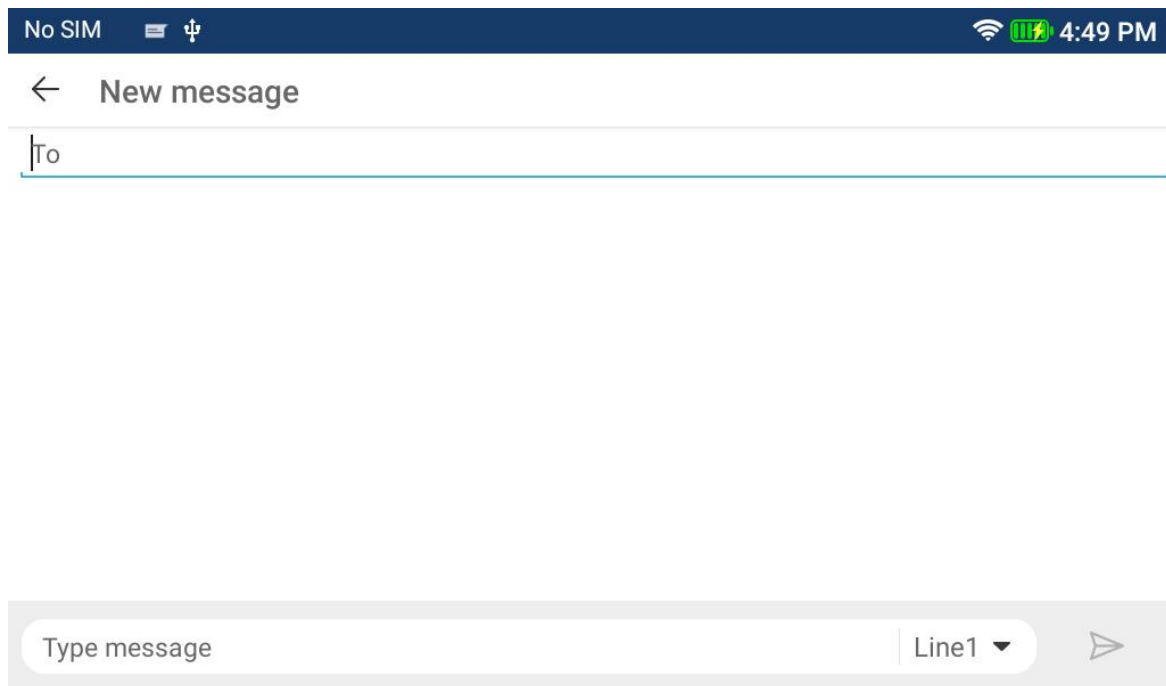


SMS icon

### Send SMS

#### Procedure

1. Tap the SMS application icon.
2. Press the New Message button in the top right.
3. Select the SIP line and recipient number.
4. Enter your message.
5. Tap **Send** to send the message.



### View SMS

#### Procedure

1. Tap the SMS icon to open the message list.
2. Select an unread message to read it.

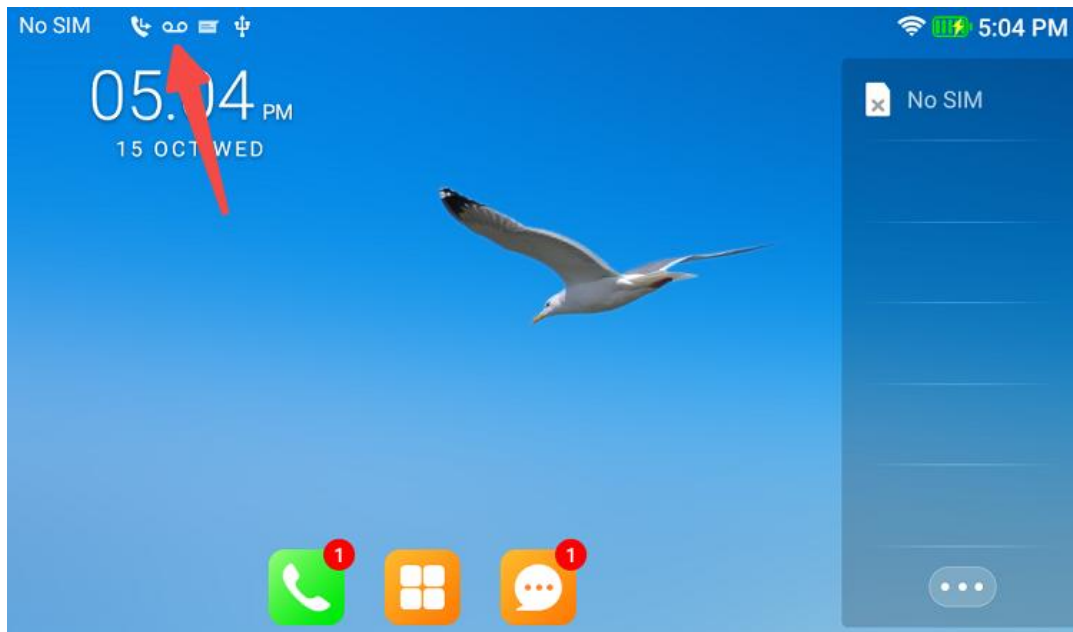
### Reply to SMS

#### Procedure

1. From the SMS list, select the message you wish to reply to.
2. Enter your reply.
3. Tap Send.

## MWI (Message Waiting Indicator)

If the SIP line supports **voicemail**, callers can leave a **voice message** when the user is unavailable. Once a new voicemail is received:  
The device displays a **message waiting icon** on the standby screen.



message waiting icon

### To use this feature:

#### Procedure

##### 1. Configure the **LTE** Voicemail Number:

- This is required to retrieve voicemails.
- Go to **[Phone Settings] → [Line] → [LTE] → [Voicemail]** and enter the voicemail number.
- When you don't have your voicemail number set, **long pressing 1** entering to the LTE settings page and set your voicemail number.
- After configuration, **press the 1** key to access the voicemail call interface and listen to voice messages.

##### 2. **SIP**-Related Configuration:

**Method 1:** Directly **dial the voicemail number** and follow the voice prompts to listen to your messages.

**Method 2:** Listen to voicemails through the Voicemail Interface:

- Go to **[Phone Settings] → [Line] → [Line1] → [MWI Settings]**
- Enable "Subscribe" and enter the **MWI Number** (the voicemail number provided by your server).
- When a new message arrives, swipe down the **status bar** and tap the message notification icon to access the Voicemail Interface.
- Select the desired account, tap the dial icon on the **right**, and follow the voice prompts to listen to the voicemail.

**Note:** For DT-200A, users should contact their carrier to get the voicemail number



←
Voicemail Apply

Account LTE  
Call Forwarding  
Auto Answering  
**Voicemail**  
Call Waiting  
Basic Setting

Voicemail

Provider
My Carrier >

---

Voicemail Number
>

LTE Voicemail

1001 📞 📶
📶 🔋 5:21 PM

←
MWI Settings Apply

Basic Settings  
Forward Settings  
Preview Settings  
Codec Settings  
Video Codecs  
**MWI Settings**  
Encryption Settings  
Advanced Settings

MWI Settings

Enable Subscribe
☒

---

MWI Number
>

---

Subscribe Period (60~999999)
3600s >

Configure SIP voicemail number

1001 <span>📞</span> <span>📶</span> <span style="float: right;">📶 <span>🔋</span> 5:25 PM</span>			
← MWI			
Account	Old	New	
1001	0	1	<span style="background-color: #555; color: white; padding: 5px 10px; border-radius: 5px;">📞</span>

## SIP Hotspot

The SIP Hotspot feature enables one SIP account to be **shared** across multiple devices via **group ringing** and **internal extension logic**. It's a lightweight alternative to BroadSoft SCA.

### Function Overview

- Register one SIP account on **host phone (server)**.
- Set other devices as **SIP Hotspot Clients**.
- When the host receives a call, **all devices ring**.
- When any device answers, **others stop ringing**.
- Calls made from client devices use the **host's SIP number**.

### Configuration Requirements:

- At least one SIP account must be registered.

Configuration the **SIP Hotspot Server** (Web Interface):

### Procedure

---

#### Prerequisites:

- Ensure Phone A is connected to the network and has successfully registered a SIP account.

1. On Phone A, navigate to: **[Line] → [SIP Hotspot]**.

**Note:** Except for selecting the "Hotspot" mode, other options can either use system default values or be customized.

2. Configure the following **parameters**:

- **Enable Hotspot:** Check this box to activate the feature.
- **Mode:** Select **Hotspot**.
- **Monitor Type:** Choose either **Broadcast** or **Multicast**.

Note: Select Multicast to limit broadcast packets within the network.

- **Monitor Address** (Conditional):

This field is required only when Monitor Type is set to Multicast. It specifies the multicast communication address for the SIP Hotspot Client and Server.

If using Broadcast, this field can be left blank. The system will automatically use the broadcast address of the phone's WAN IP.

- **Local Port:** Specify a custom port or use the default value.

- **Name:** Assign a custom name or use the default.
- **External Line Ring Mode** (Default: All):
  - All: Both extensions and the host will ring on incoming calls.
  - Extension: Only extensions will ring on incoming calls.
  - Host: Only the host will ring on incoming calls.

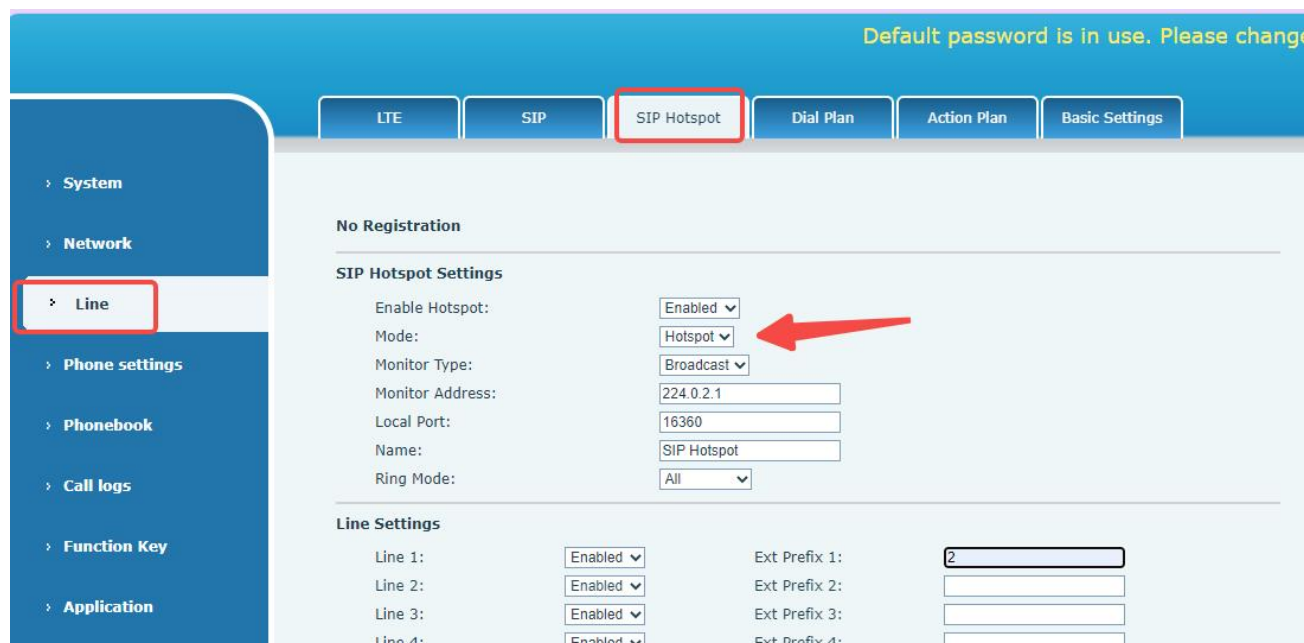
### 3. Line Settings:

- Associate and enable the SIP Hotspot feature (and **prefix** function) on the desired SIP line.
- **Extension Prefix:** This must be configured.
 

Important: If the SIP account of the hotspot phone itself begins with '1', it is recommended to use a different digit (e.g., '2') for the extension prefix to avoid conflicts.

Example: The hotspot phone's SIP account is 1001. The number assigned to a client is formed by Prefix + Assigned Number. If the prefix is 2 and the extension number is 001, the client's full number will be 2001.

**Note:** When an extension (SIP Hotspot Client) calls the host (SIP Hotspot Server), the host's number for dialing will be Prefix + 000 (e.g., 2000).



Default password is in use. Please change

LTE SIP **SIP Hotspot** Dial Plan Action Plan Basic Settings

System  
Network  
**Line**  
Phone settings  
Phonebook  
Call logs  
Function Key  
Application

No Registration

SIP Hotspot Settings

Enable Hotspot: Enabled  
Mode: Hotspot  
Monitor Type: Broadcast  
Monitor Address: 224.0.2.1  
Local Port: 16360  
Name: SIP Hotspot  
Ring Mode: All

Line Settings

Line 1: Enabled Ext Prefix 1: 2  
Line 2: Enabled Ext Prefix 2:  
Line 3: Enabled Ext Prefix 3:  
Line 4: Enabled Ext Prefix 4:

SIP hotspot server configuration

Configuration the **SIP Hotspot Clients** (Web Interface):

### Procedure

1. On the extension phone (B, C, D...), navigate to: **[Line] → [SIP Hotspot]**.
2. Configure the following parameters to match the SIP Hotspot Server:

**Enable Hotspot:** Set this to Enabled.

**Mode:** Select Client.

**Monitor Type:** Must match the setting configured on the SIP Hotspot Server.

**Monitor Address:** Must match the setting configured on the SIP Hotspot Server.

**Local Port:** Must match the setting configured on the SIP Hotspot Server.

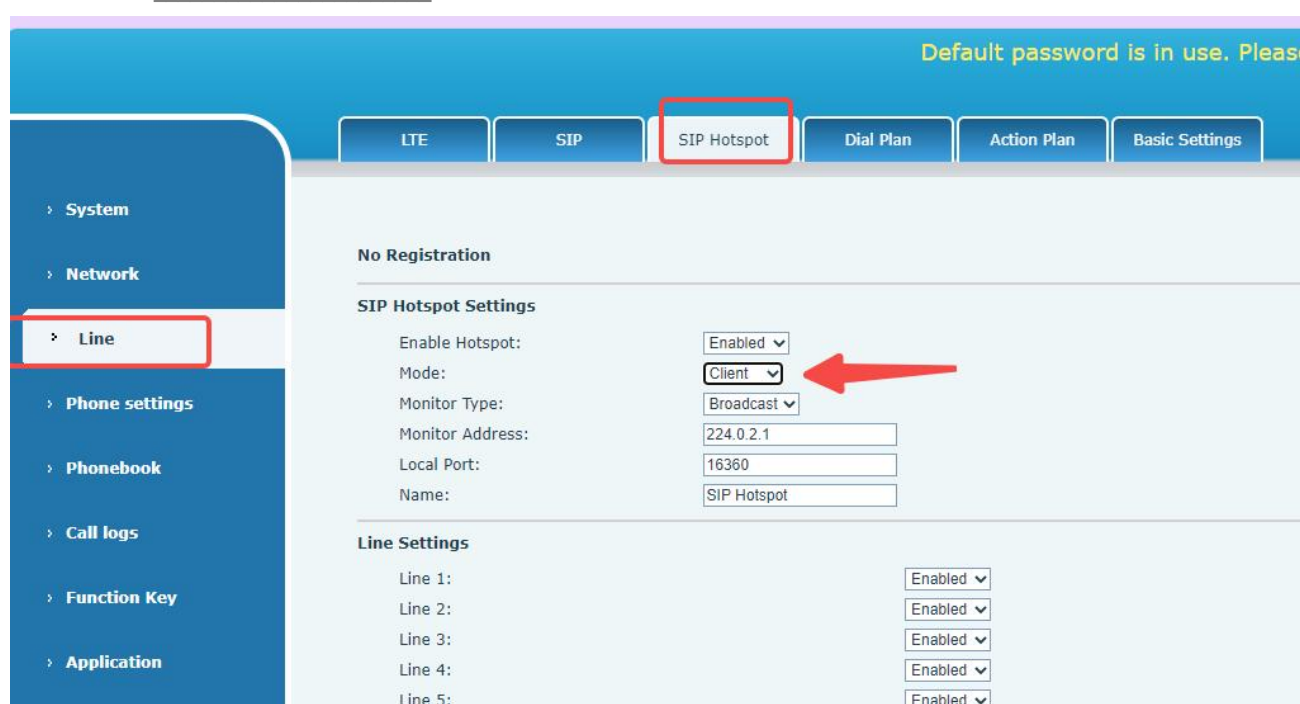
**Name:** Must match the setting configured on the SIP Hotspot Server.

### 3. Line Settings:

- Enable the SIP Hotspot feature on the specific SIP line(s) you wish to associate.

**Note:** The client's connectivity is determined by its own line settings, not the server's.

**Example:** If the SIP Hotspot Server has the feature enabled on multiple lines, the client can still choose to connect to only one of them by enabling only the corresponding line. For instance, if the client enables only "Line 1", it will connect solely to the hotspot functionality on the server's Line 1, regardless of how many lines are enabled on the server.



SIP hotspot client configuration

### Web Configuration Parameters

Parameters	Description
Enable hotspot	Set it to be Enable to enable the feature.
Mode	Choose hotspot, phone will be a "SIP hotspot server"; Choose Client, phone will be a "SIP hotspot Client"

Monitor Type	Either the Multicast or Broadcast is Apply. If you want to limit the broadcast packets, you'd better use broadcast. But, if client choose broadcast, the SIP hotspot phone must be broadcast.
Monitor Address	The address of broadcast, hotspot server and hotspot client must be same.
Remote Port	Type the Remote port number.
Name	Fill in the name of the SIP hotspots. This configuration is used to distinguish between different hotspots on the network to avoid connection collisions.
Line Settings	Sets whether SIP hotspots are enabled on the corresponding SIP line affinity.

# Phone Settings

## Basic Settings

This section helps you customize your phone.

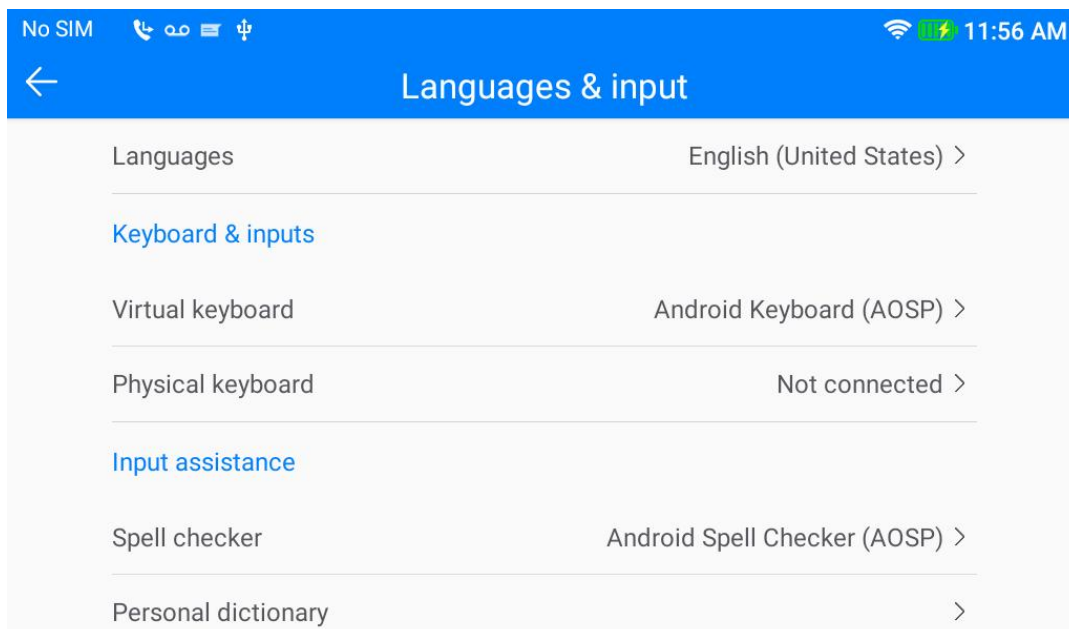
## Language

The DT-200 phone allows users to set the interface language via both the phone and the web interface.

Set Language **on Phone Interface:**

### Procedure

- After a factory reset, the phone will prompt for language selection.
- To manually change language:  
Go to: **[Phone Settings] → [Language & Input]**



Phone language setting

## Set Language on Web Interface:

### Procedure

- Log in to the web interface.
- Use the **language drop-down box** at the top-right corner of the page.
- To synchronize with the phone:  
Enable the checkbox **"Synchronize language to phone"**.

**Note:** If synchronization is not enabled, the webpage language and phone interface language remain independent



Language setting on Web page

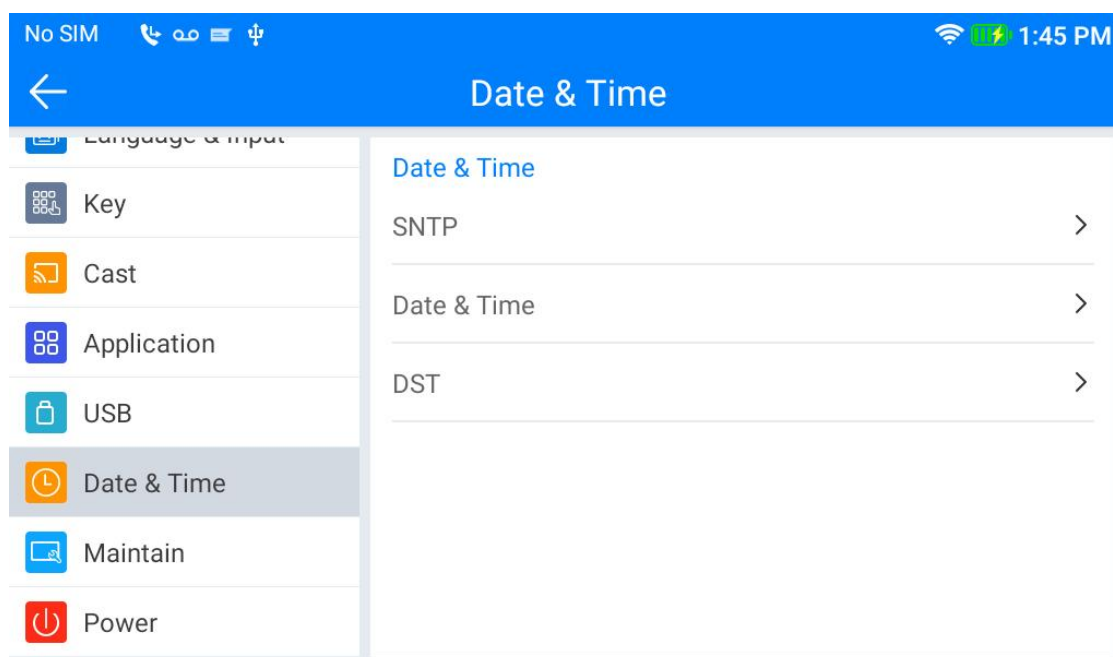
## Time & Date

The DT-200 phone allows users to configure time and date settings via both the phone interface and the web interface.

## Set Time & Date on the Phone:

### Procedure

- Path: **[Phone Settings] → [System] → [Date & Time]**
- Use the **navigation keys** to modify parameters.
- Press **Apply** to save changes.
- Default status is **standby**.

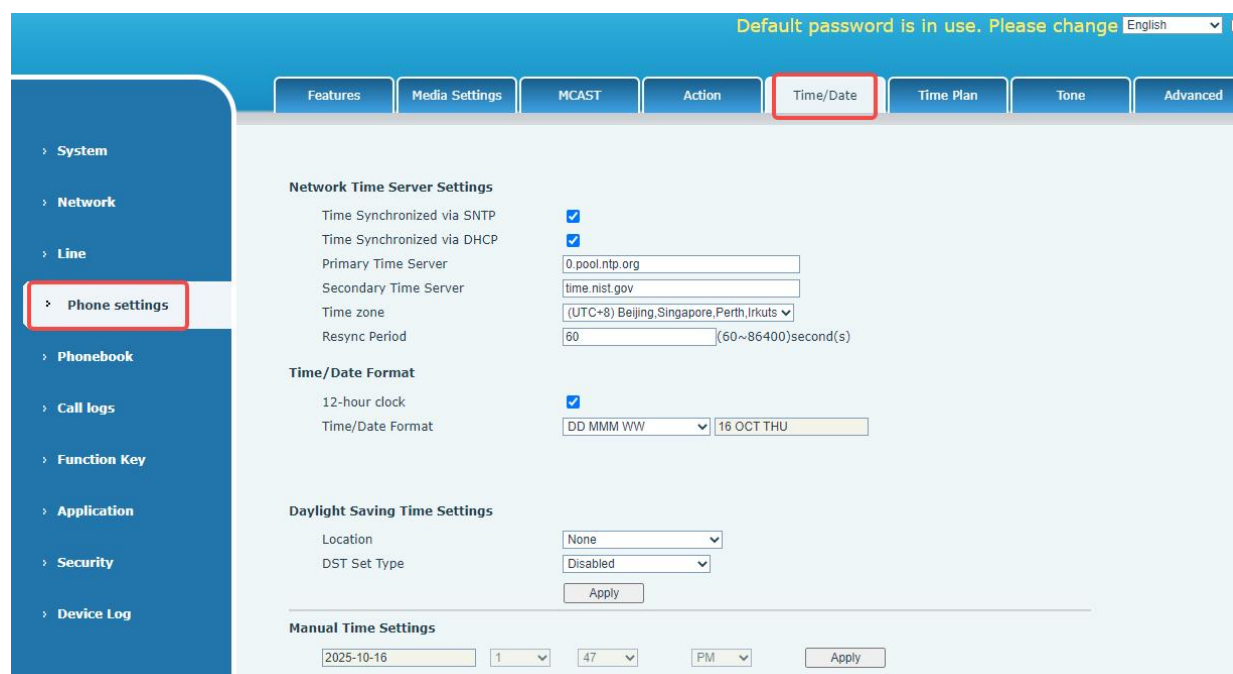


Set time & date on phone

### Set Time & Date on the Web:

#### Procedure

·Path: [Phone Settings] → [Time/Date]



Set time & date on web page

### Time Settings Parameters:

Parameter	Description
-----------	-------------



Mode	Auto / Manual Auto: Enable network time synchronization via SNTP protocol, default enabled. Manual: User can modify data manually.
SNTP Server	Specify the SNTP server address
Time Zone	Select applicable time zone
Time Format	Choose from formats like YYYY MM DD, DD MM YY, etc.
Separator	Choose separator symbol between date elements
12-Hour Clock	Enable/disable 12-hour clock display
Daylight Saving	Enable or disable DST adjustment

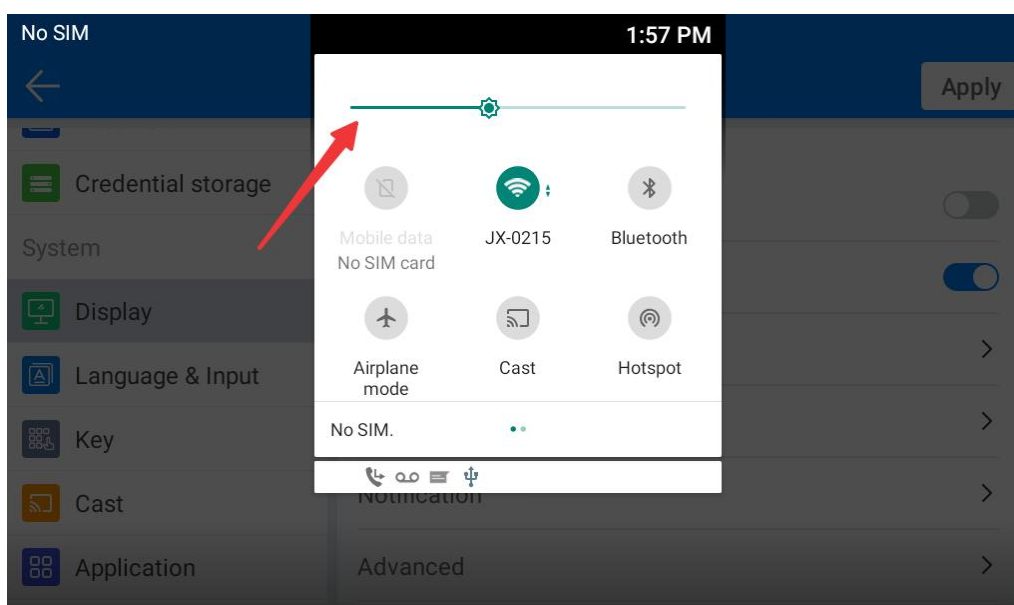
## Adjusting Screen Brightness

This setting allows the user to adjust the brightness of the phone's LCD screen in two ways:

### Quick Access:

#### Procedure

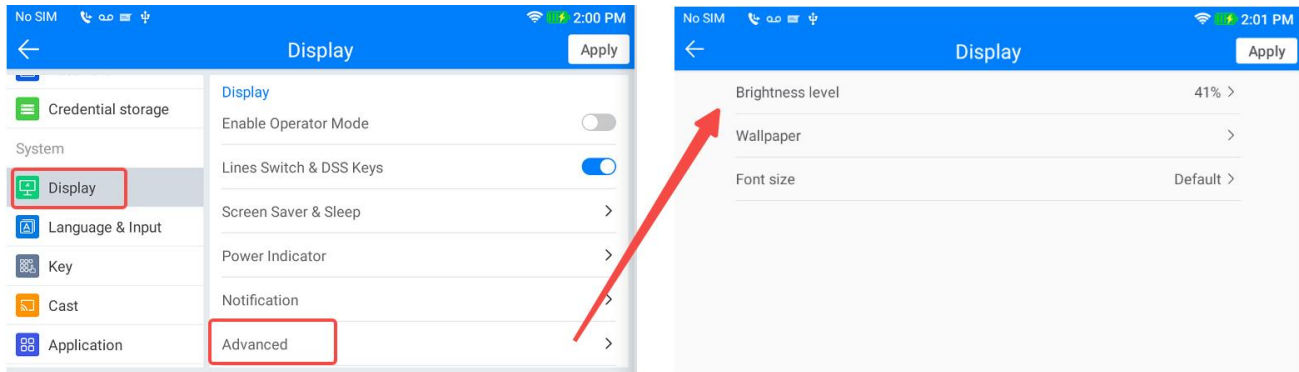
- From **standby mode**, slide down the **outgoing status bar page**.
- Slide down again to quickly adjust screen brightness.



## Menu Access:

### Procedure

- Go to: [ Phone Settings] → [Display] → [Advanced] → [Brightness level]
- Adjust the **brightness** using the on-screen controls.



Set screen parameters on phone

## Screen Saver

The screen saver function activates after a period of inactivity. Users can configure wait time, content display, and image sources via both the phone and the web interface.

**Note:** The screen saver or sleep mode can be deactivated by any of the following actions: picking up the handset, touching the screen, or pressing any key.

### On the Phone:

### Procedure

1. Path: [Phone Settings] → [Display] → [Screen Saver & Sleep]

#### 2. Options:

- **Enable Screen Saver:** Check this box to activate the screen saver feature.
- **Screen Saver Timeout:** Set the delay (range: 15 - 21600 seconds) before the screen saver activates. The default value is 120 seconds.
- **Screen Saver Type:** Select the screen saver program. The default is "Clock".  
Other options typically include: Clock, Colors, Photo Frame, Photo Table.
- **Enable Sleep Mode:** Check this box to allow the display to enter a low-power sleep state. The default timeout is 15 seconds.

#### 3. Important Note on Interaction

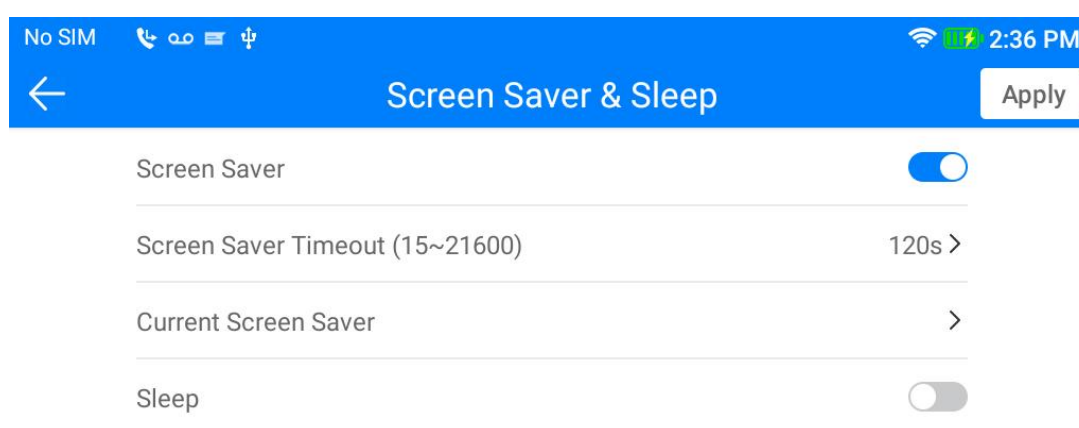
The Screen Saver and Sleep modes operate in a sequence:

- The timer for both modes starts simultaneously when the phone is idle.
- The Screen Saver activates first after its set timeout.
- The Sleep mode then follows, acting as a delayed action after the screen saver appears.

4. **Example:** With Screen Saver Timeout = 15s and Sleep Timeout = 30s:

- The screen saver appears after 15 seconds of inactivity.
- The display then goes to sleep 15 seconds after the screen saver activates (i.e., 30 seconds total from the start of inactivity).

**Note:** If the Sleep Timeout is set to a value shorter than the Screen Saver Timeout, the sleep function will take precedence. The display will enter sleep mode directly at the shorter sleep interval, and the screen saver will not be shown.



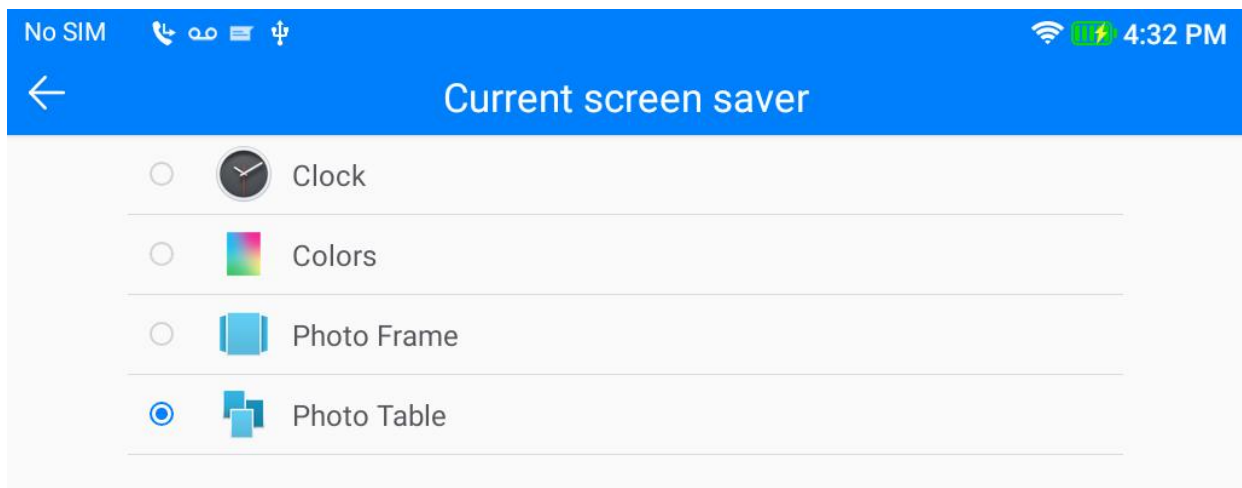
Phone screen saver & sleep

### Adding Screen Saver Images:

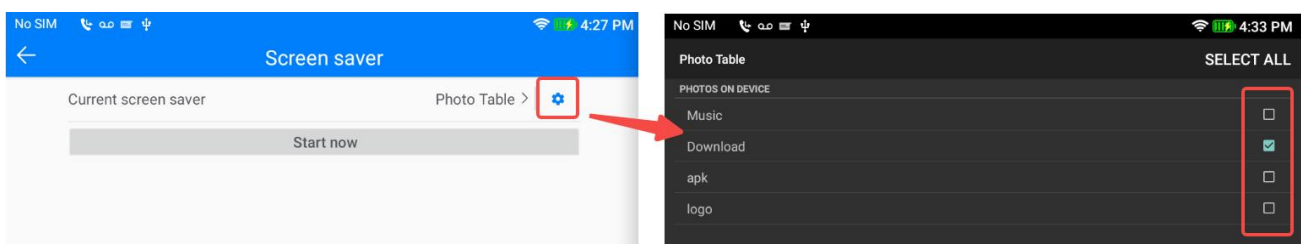
#### Procedure

1. Save your images to a directory on the **USB drive**.
2. **Insert** the USB drive into the phone.
3. Once the USB icon appears on the status bar, access the USB interface and **copy** the desired images to a local directory on the phone.
4. Navigate to: **[Phone Settings] → [Display] → [Screen Saver & Sleep] → [Current Screen Saver]**.
5. Select either **Photo Frame** or **Photo Desktop**.
6. Tap the **Settings icon** (⚙️) to the right of the selected option.
  - In the directory browser, check the box for the folder(s) containing your images.
  - Press the **Back key** to save the selection.
7. To see the effect immediately, tap the **Start Now** option.

**Note:** The phone is equipped with a 7-inch display (1024x600 pixels). For the best visual results, it is recommended to use images that match this native resolution.



Current screen saver



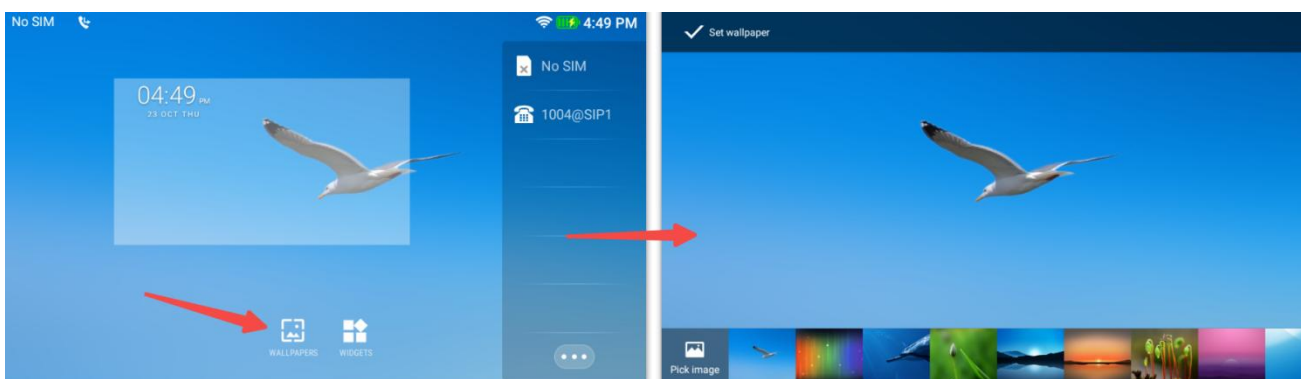
Select Directory

## Wallpaper Settings

### Changing Wallpaper:

#### Procedure

1. On the standby interface, **long-press** (hold for 1 second) on the screen.
2. Tap **Wallpapers** from the menu that appears.
3. Select your desired wallpaper from the available options.
4. Tap **Set Wallpaper** to apply the selection.
5. To cancel the operation at any time, press the physical **Back button** on the phone to return to the standby interface.



## Changing wallpaper

### Uploading Custom Wallpapers:

#### Procedure

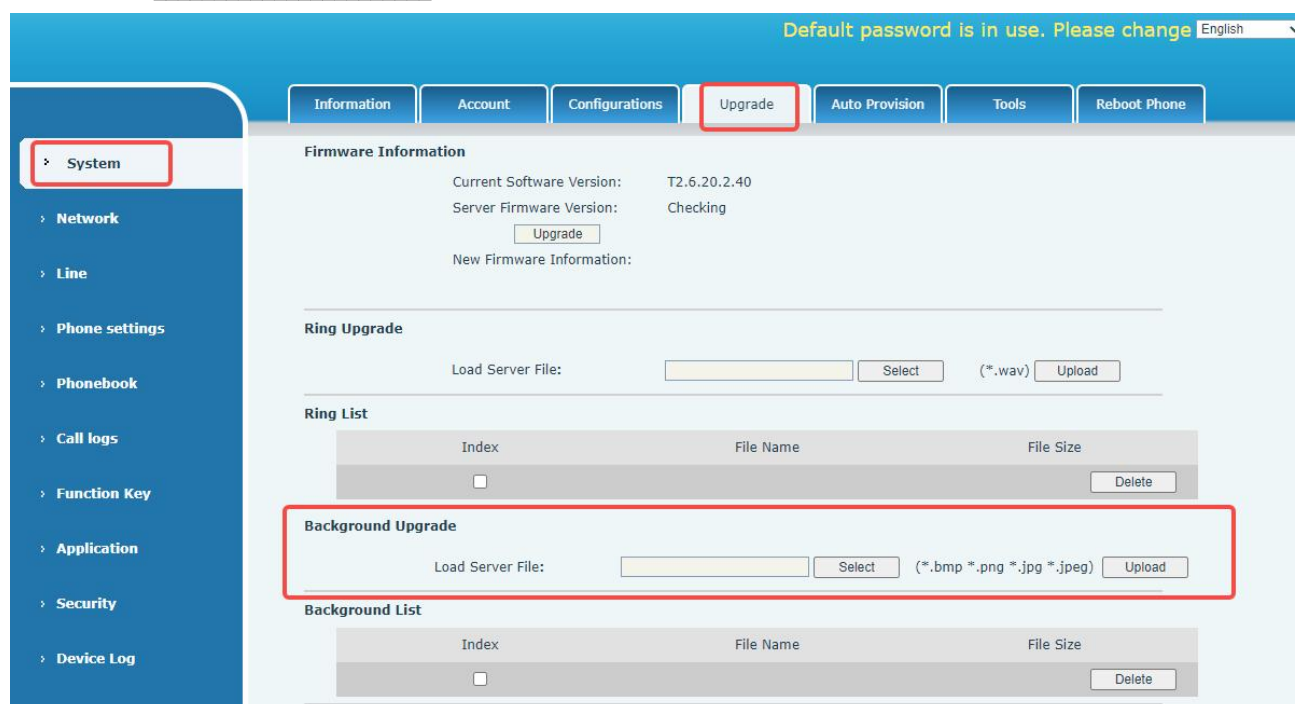
##### Method 1: Web Interface

1. Log in to the phone's web administration interface.
2. Navigate to **[System] → [Upgrade] → [Background Upgrade]**.
3. Click "Select" to choose the desired image file from your computer.

**Note:** The phone features a 7-inch display with a resolution of 1024 × 600 pixels. Please upload images of appropriate size and format to ensure compatibility.

##### Method 2: USB Drive

1. Copy the image file(s) to a USB storage device.
2. Insert the USB drive into the phone's USB port.
3. Use the phone's file management interface to import the image(s) from the USB drive to the phone's local storage for future use as wallpaper.



Web interface

## Ring Settings

The DT-200 phone allows users to configure the type of ringtone associated with different SIP lines.

## Phone Configuration Path:

### Procedure

#### Global Ringtone Settings:

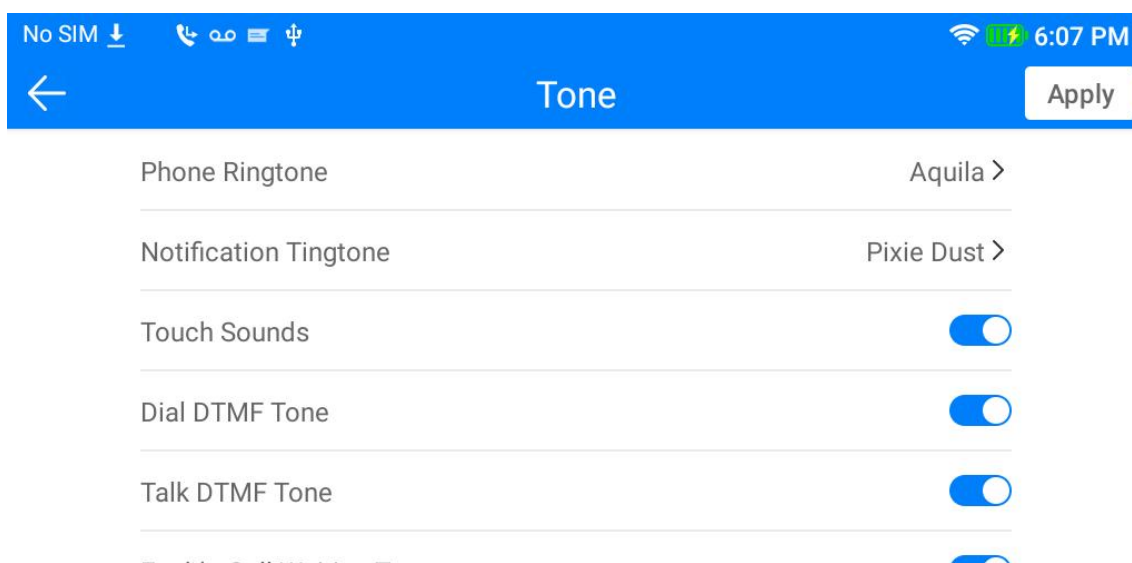
This section configures the default sounds for the entire device.

1. Navigate to: **[Phone Settings] → [Sound] → [Tone]**
2. Configure the sounds for different scenarios as needed, such as:
  - **Phone Ringtone**
  - **Notification Tintone**
  - **Touch Sounds**

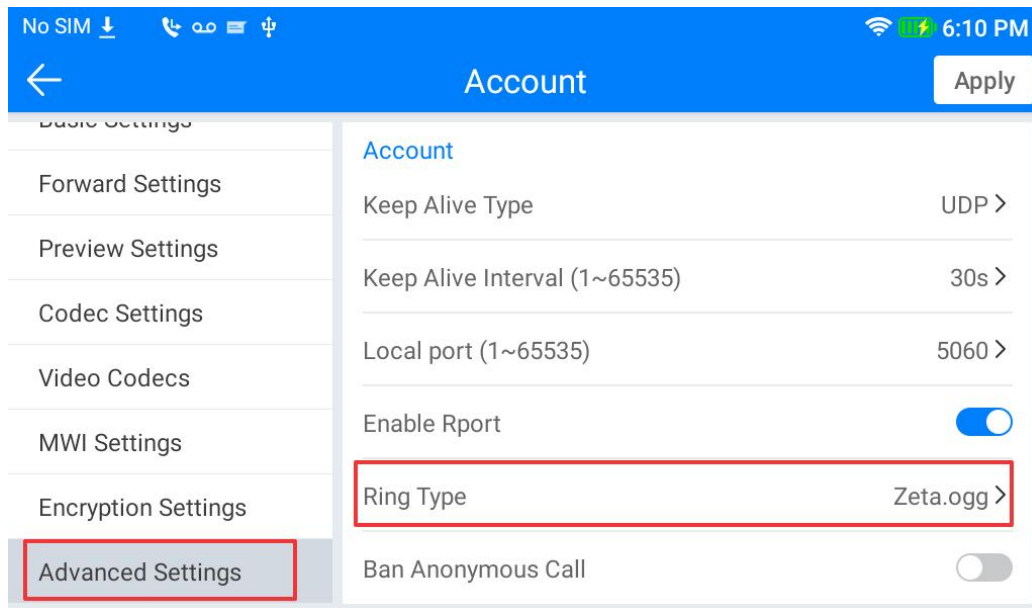
#### Per-Line Incoming Ringtone:

This setting allows you to assign a unique ringtone to a specific SIP line, overriding the global incoming call setting.

1. Navigate to: **[Phone Settings] → [Line] → [Line X] (e.g., Line 1) → [Advanced Settings]**
2. Select the desired sound from the **Ring Type** dropdown menu.
3. Save the configuration.



Global Ringtone Settings



Line Ringtone settings

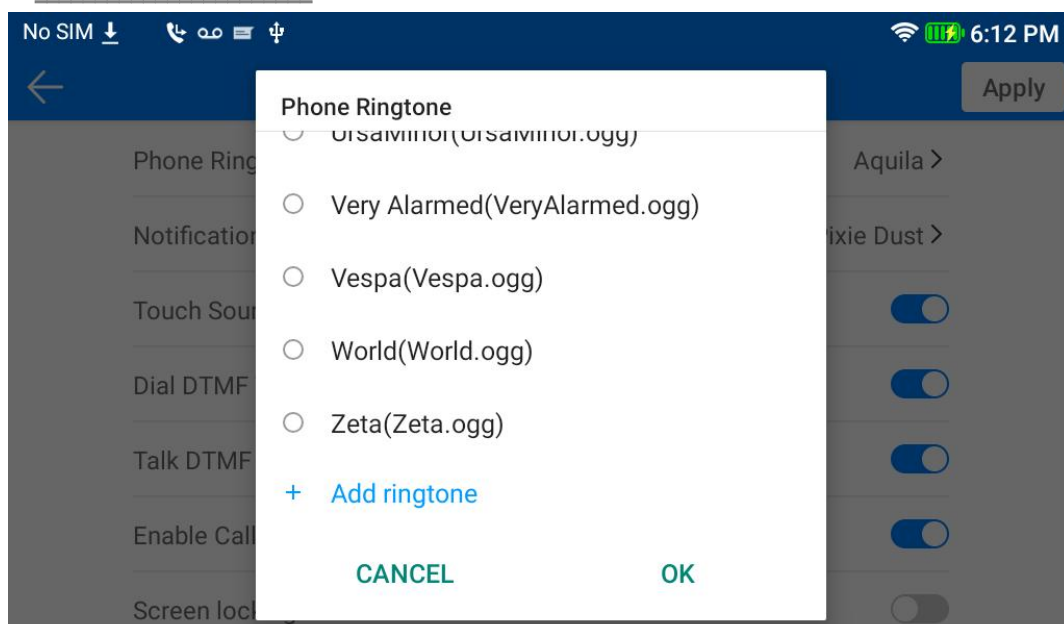
### Adding Custom Ringtones:

#### Procedure

#### Prerequisites:

Custom ringtone files in \*.**Wav** format (The file is approximately 30 seconds in duration and less than 256 kilobytes in size), stored on a USB drive or in the phone's local storage.

1. Navigate to: **[Phone Settings] → [Sound] → [Tone]**.
2. Scroll to the bottom of the ringtone list and select **Add Ringtone**.
3. If using a USB drive, insert it now. The system should detect it automatically.
4. Browse and select the MP3 file from either the USB drive or the phone's local storage.
5. Click **OK** to confirm the selection, then click **Apply** to save the new ringtone to the system list.



## Audio Volume Settings

The DT-200 phone allows users to configure audio volumes for various components through the web interface.

### Adjusting Volume:

#### Procedure

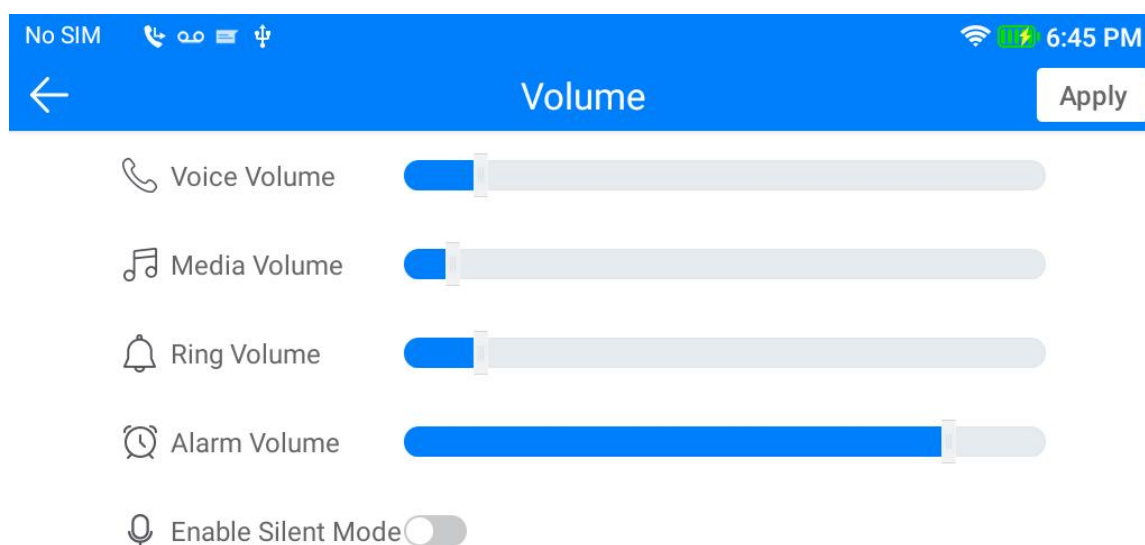
#### Using Hardware Keys:

1. Press the **physical Volume Keys** on the phone to adjust the volume directly.

#### Via Settings Menu:

1. Navigate to: **[Phone Settings] → [Sound] → [Volume]**.
  - Set the volume levels for different audio modes as needed.
  - Interaction: Sliding the control from left to right **increases** the volume level.

**Note:** Adjustments made using the physical volume keys and those within the Volume settings interface are synchronized in real-time.



Volume settings interface

## Reboot

The DT-200 phone allows users to reboot the device manually through the phone interface when in standby mode.



## Reboot Procedure (Phone Interface):

### Procedure

#### Method 1: Software Reboot (Standard)

Use this method under normal operating conditions.

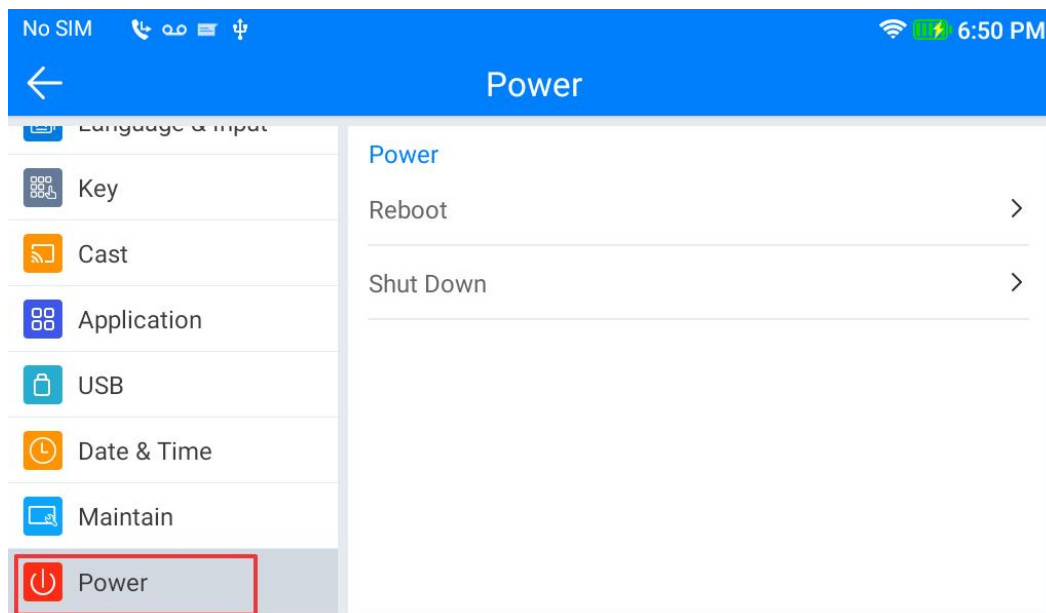
1. Go to **[Phone Settings]** → **[Power]** → **[Reboot]**
2. Select **Reboot**.
3. A confirmation prompt will appear.  
Press **OK** to reboot the phone.  
Press **Cancel** to exit without rebooting.

#### Method 2: Hard Reset (Forced)

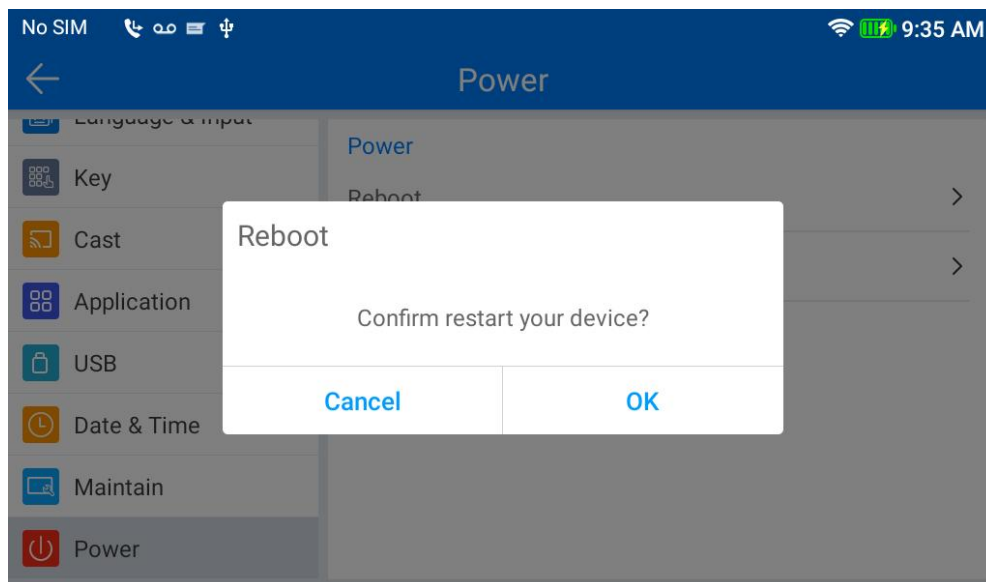
Use this method as a last resort when the device is completely unresponsive (e.g., frozen screen, power cycle is ineffective).

1. Locate the small hole labeled **RESET** on the back of the phone.
2. Using a suitable tool (e.g., a paper clip or a SIM ejector tool), Gently insert the SIM eject tool into the reset pinhole and **press it briefly**.
3. The device screen will immediately turn off and begin the reboot process.

**Note:** Method 2 is typically reserved for critical scenarios, such as when the device suffers from a battery power anomaly, a low-level system fault causing a complete **screen freeze**, or when conventional power cycling fails to resolve the issue.



Reboot interface



Reboot Prompt Interface

## Shut Down

The DT-200 phone allows users to shut down the device manually when in standby mode.

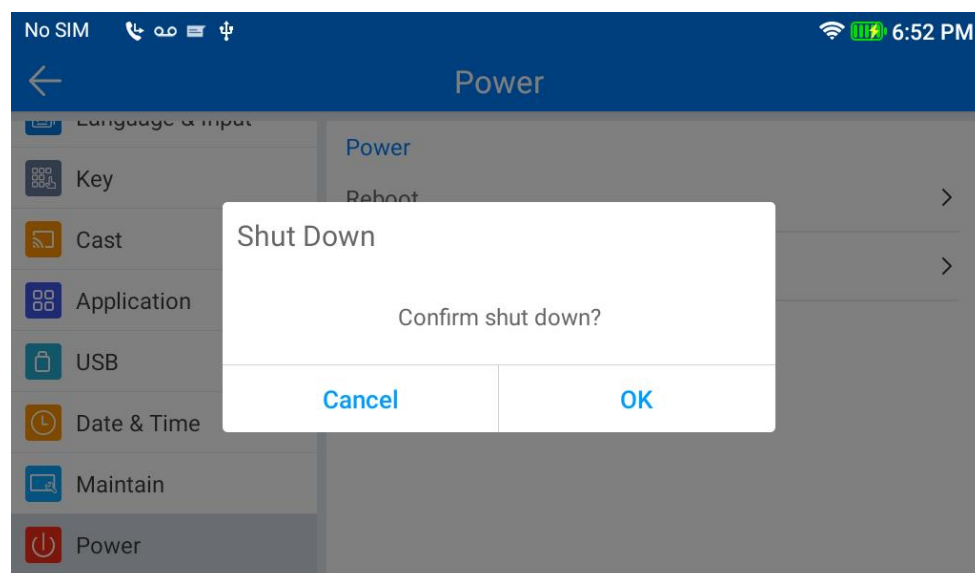
### Procedure

#### Method 1:

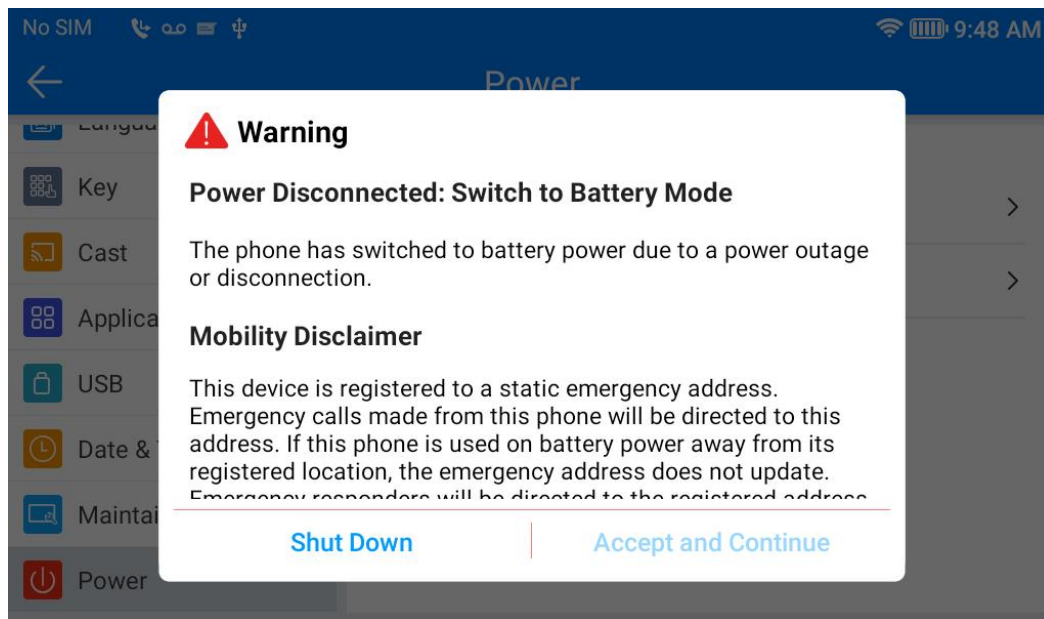
1. Navigate to: **[Phone Settings] → [Power]**
2. Select **Shut Down**.
3. A confirmation dialog will appear:
  - Press **OK** to shut down the phone.
  - Press **Cancel** to exit and return to the settings screen.

#### Method 2:

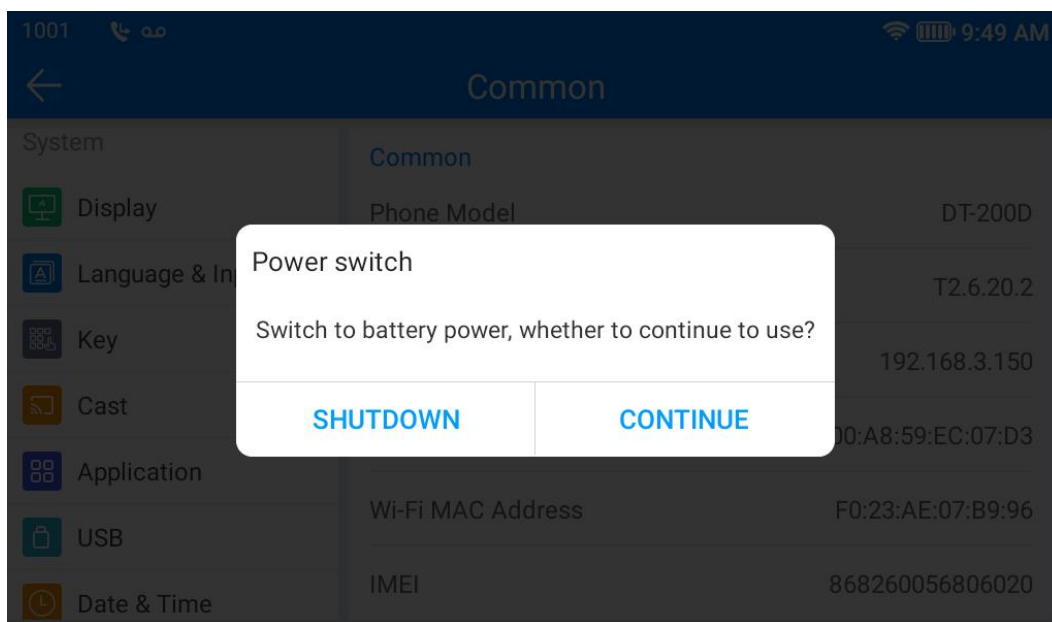
1. Unplug the power cord, a prompt will appear, select **Shut Down**.



## Shut down interface



Power Disconnect Prompt (DT200A)



Power Disconnect Prompt (DT200D)

## Factory Reset and Data Backup

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

### Data Backup:

It is strongly recommended to back up your configuration before performing a factory reset.

## Procedure

1. Navigate to: **[Phone Settings] → [System] → [Maintain] → [Back-Up]**

Enter the maintenance password (default: admin) when prompted.

2. On the **Back-Up** interface:

- Click **Browse** to select a local directory on the phone to save the file.
- The backup file will be automatically named **default\_user\_config.txt**.

**Note:** Do not modify this filename. The restoration process requires this exact filename to function correctly.

- Click **OK**, then click **Start Backup** to begin the process.

3. For safekeeping, **copy** the generated default\_user\_config.txt file from the phone's local directory to a **USB** drive.

## Factory Reset:

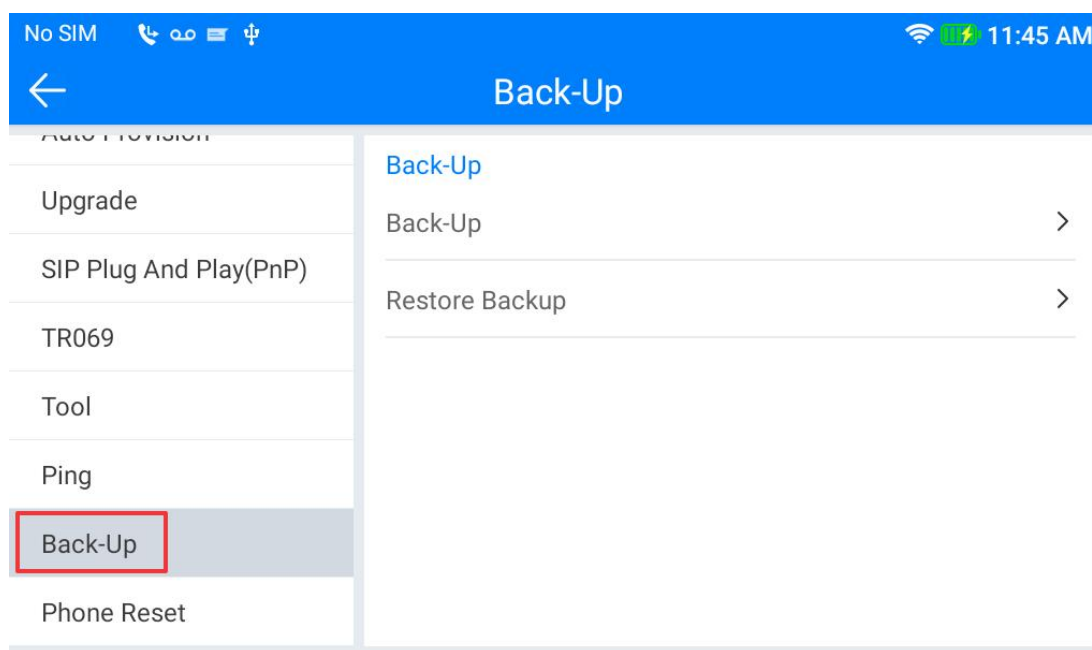
### Procedure

1. Navigate to: **[Phone Settings] → [System] → [Maintain] → [Phone Reset]**

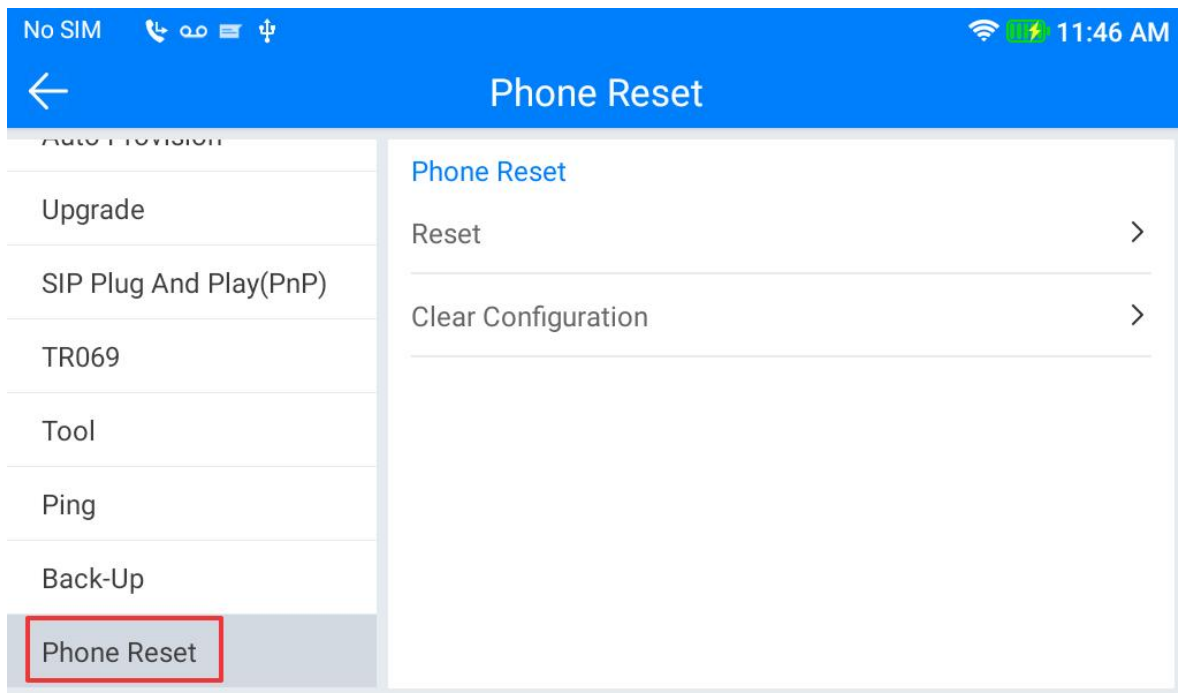
Enter the maintenance password (default: admin) when prompted.

2. Select Reset and then click Apply to confirm.

3. Phone automatically restarts after restoring factory settings.



Back-Up



Factory Reset

### Hard Reset vs Factory Reset

Function	Hard Reset	Factory Reset
<b>Definition</b>	Forcibly shuts down and reboots the device's operating system, similar to a forced restart on a computer.	Erases all device software settings, configurations, and account information completely, restoring it to its original factory state.
<b>Data Impact</b>	Does not delete or clear any personal configurations, account information, or network settings.	Does delete or clear any personal configurations, account information, or network settings.
<b>Physical Action</b>	Use a pin to press the reset button inside the pinhole.	Performed through the software option within the device's Advanced Settings menu.
<b>Primary Use Case</b>	Troubleshooting temporary failures like system freezes, unresponsive interfaces, or failure to boot after power cycling.	After the device is reconfigured and the upgrade is completed, all data needs to be erased and the device must be reconfigured.

## Welcome Message

When the phone is in standby mode, the Welcome Message is displayed in the top-left corner of the screen. A maximum of **12 characters** is allowed. The default message is "VOIP PHONE".

#### Prerequisite for Display:

The welcome text will only appear on the standby screen when the "Enable Def Line" (Enable Default Line Display) option is turned OFF.

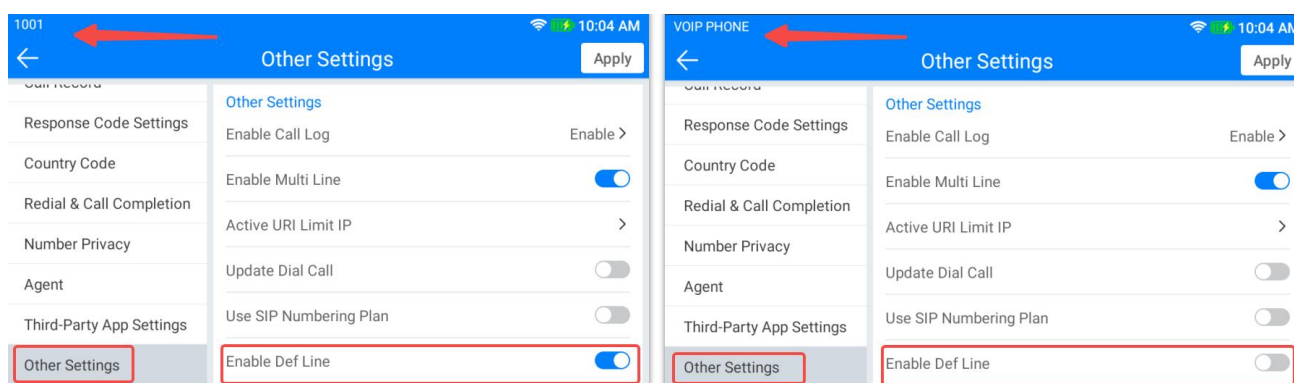
#### How to Configure:

On the Phone: Navigate to **[Phone settings] → [Other] → [Other Settings]** to find the option to disable **[Enable Def Line]**.

#### Via Web Interface:

Log in to the web interface, go to **[Phone Settings] → [Advanced]**, to modify the content of the Welcome Text.

**Note:** This feature is not available on the DT200A. Its top-left corner permanently displays the SIM card status instead.



Phone interface

## Screen Lock

This feature allows you to secure your phone using various lock methods to prevent unauthorized access.

#### Procedure

1. Navigate to **[Phone Settings] → [Screen Lock]**
2. Available Lock Methods: None, Swipe, Pattern, PIN, Password

**Activation:** The screen lock will automatically engage when the phone enters screensaver mode.

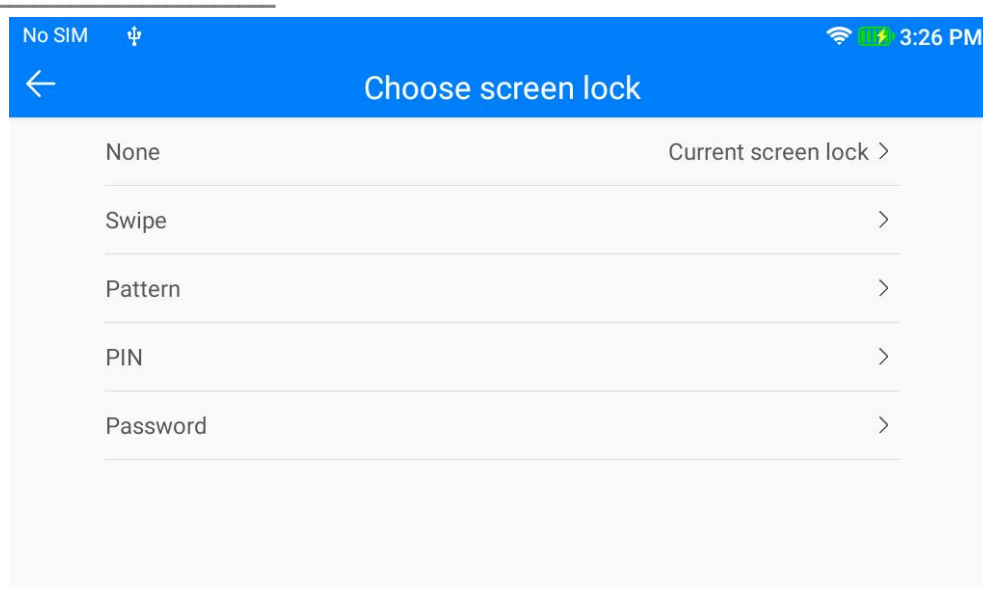
#### 3. Unlocking:

To unlock the phone, enter the Pattern, PIN, or Password you previously set.

### Quick Lock via DSS Key

For immediate locking, you can assign a DSS key as a lock shortcut:

1. On the home screen, tap the "..." icon to enter the settings menu.
2. Press and hold the desired DSS key.
3. Set the Type to "**Function Key**".
4. Set the Subtype to "**Lock Phone**" and save the setting.
5. Once configured, a single tap on this DSS key will instantly lock the phone.



Screen lock interface

## Keypad Lock

This feature allows you to instantly lock the phone's keypad using a quick key combination.

### Procedure

1. Navigate to **[Phone Settings] → [Keyboard Lock]**

#### 2. Key Features

**Quick Lock:** Press and hold the **# key** to lock the keypad immediately.

Default Unlock Password: **admin**

**Lock Key:** The # key is the only key that can be used for quick locking. Settings assigning other keys for this function will not work.

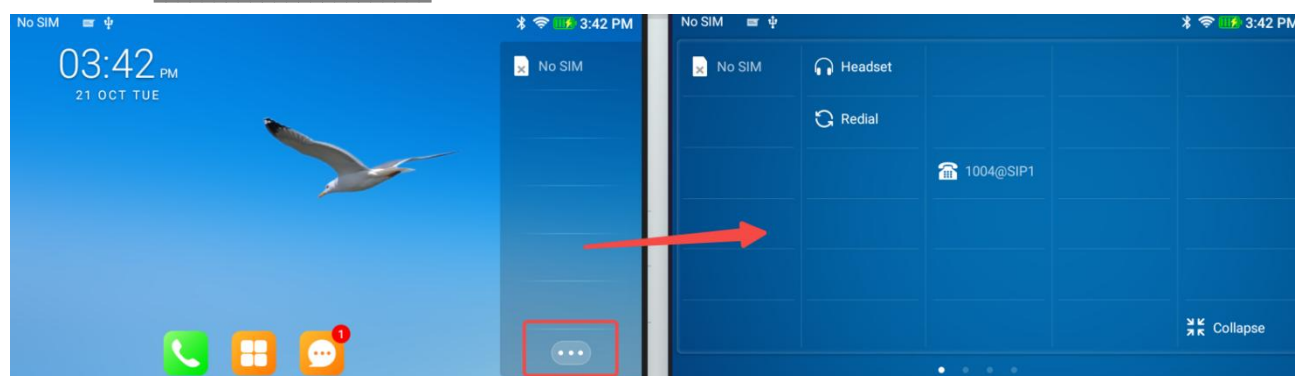
# Function Key

It shows 6 DSSKEY keys in standby mode on DT-200A&DT-200D Screen, each of which can be customized. After expansion, there will be 29 Function DSSkey, a total of four pages. Users can customize and configure each DSSKEY key on each page.

## Procedure

1. From the **Standby Interface**, tap the "... " icon to access the extended functions page.
2. Locate the DSS key you wish to configure. **Press and hold** the key until the configuration interface is displayed.
3. In the configuration interface, enter or select the desired parameters for the key.
4. Click **Apply** to save and activate the new configuration.

**Note:** To modify an existing configuration, follow the same procedure: press and hold the programmed DSS key, update the settings, and click Apply.



Deekey interface

## Function Key configuration

Parameters	Description
Memory Key	<p><b>BLF:</b> It is used to prompt user the state of the subscribe extension, and it can also pick up the subscribed number, which help user monitor the state of subscribe extension (idle, ringing, a call).</p> <p><b>Presence:</b> Compared to BLF, the Presence is also able to view whether the user is online.</p> <p>Note: You cannot subscribe the same number for BLF and Presence at the same time</p> <p><b>Voice Mail:</b> Click to immediately call out the corresponding voice mailbox code</p> <p><b>Speed Dial:</b> You can call the number directly which you set. This feature is convenient for you to dial the number which you frequently dialed.</p> <p><b>Call Park:</b> Click to host the call on the server</p> <p><b>Call forward:</b> When the phone receives a call, you can click to quickly forward the</p>



	number to the subscription number
Line	It can be configured as a Line Key. User is able to make a call by pressing Line Key.
Key Event	User can select a key event as a shortcut to trigger. For example: MWI / DND / Release / Headset / Hold / etc.
DTMF	It allows user to dial or edit dial number easily.
URL	Open the specific URL directly.
BLF List	Configuration BLF List key, users can dial subscription numbers after pressing it
MCAST Paging	Configure the multicast address and audio codec. User presses the key to initiate the multicast.
Application	Directly enter specific applications
Action URL	The user can use a specific URL to make basic calls to the phone.
XML browser	Users can set the DSS Key for specific URL download and other operations.
MCAST Listening	Configure group listening address, users press this button to listen to multicast

## Softkey Settings

The User Settings mode and display style, display page.

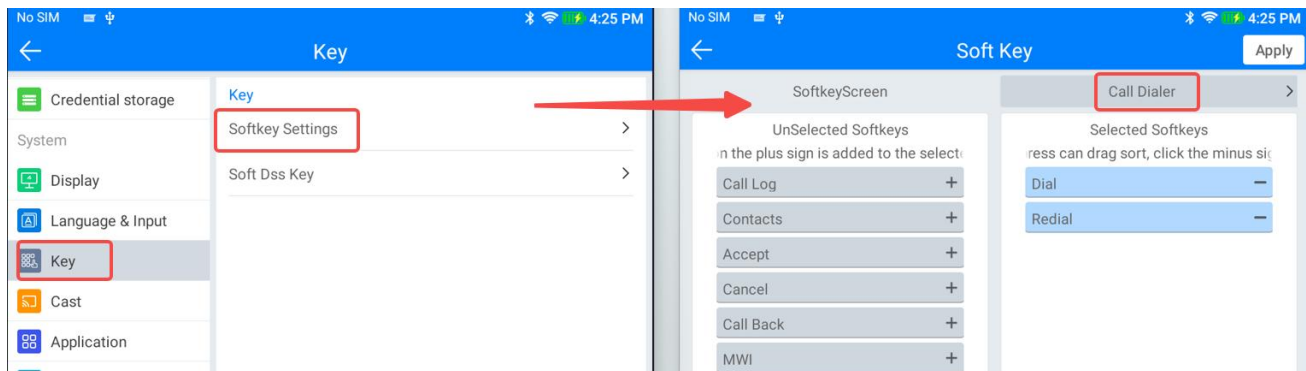
**Via Phone Interface:**

### Procedure

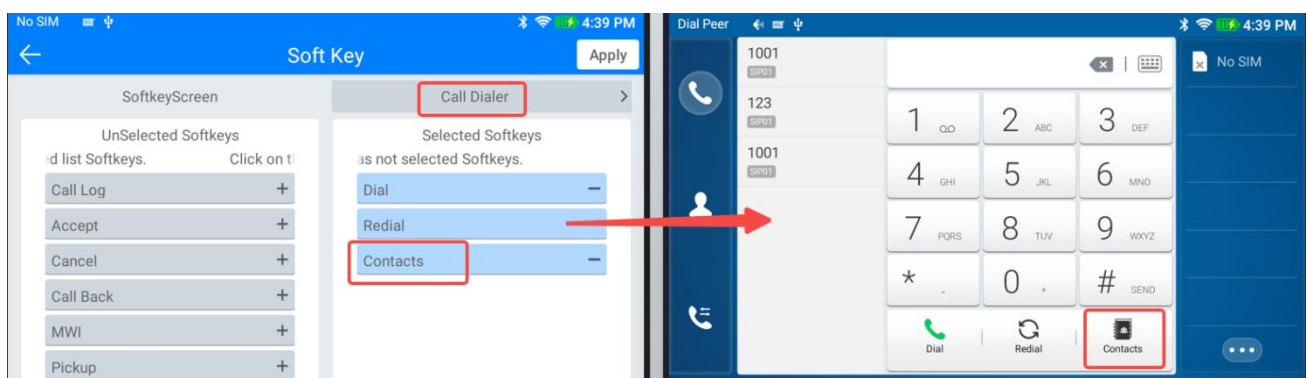
1. Navigate to **[Phone Settings] → [Key] → [Softkey Settings]**.
2. Select the display interface you wish to modify (e.g., Call Dialer, Conference, Ending).
3. In the configuration panel:
  - The left box lists Available Items.
  - The right box lists Active Items.
  - Click the + icon next to a left-box item to add it to the right box.
  - Click the - icon next to a right-box item to remove it.
4. Click **Apply** to save the configuration.

Example: To add a Contacts option to the **Call Dialer** interface, follow the steps above. The Call Dialer interface will then display the Contacts softkey.

Note: This feature is only available on SIP lines and is not supported on LTE lines.



Softkey settings



Add contacts softkey to the call dialer

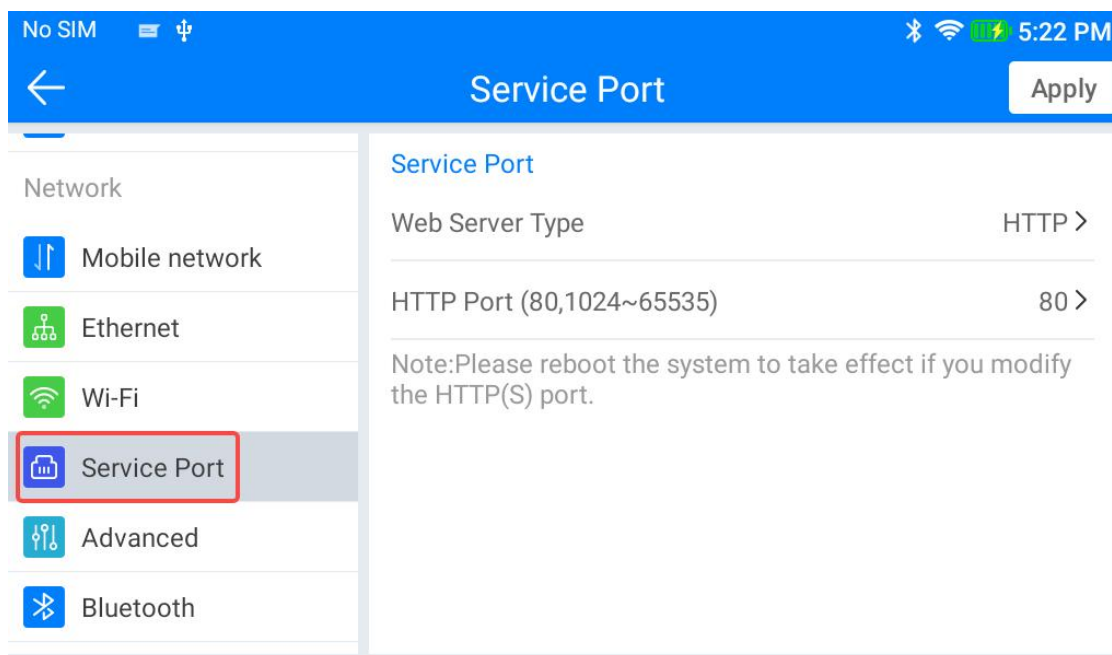
## Web Server Type

### Via Phone Interface:

#### Procedure

1. Navigate to **[Phone Settings] → [Service Port]**.
2. Configure the network service port settings.
3. Select the web server type: HTTP or HTTPS.
4. The change will take effect after rebooting the phone.
5. After reboot, the web interface can be accessed via the selected protocol (HTTP/HTTPS).

Note: This configuration determines the protocol used to access the phone's web administration interface.



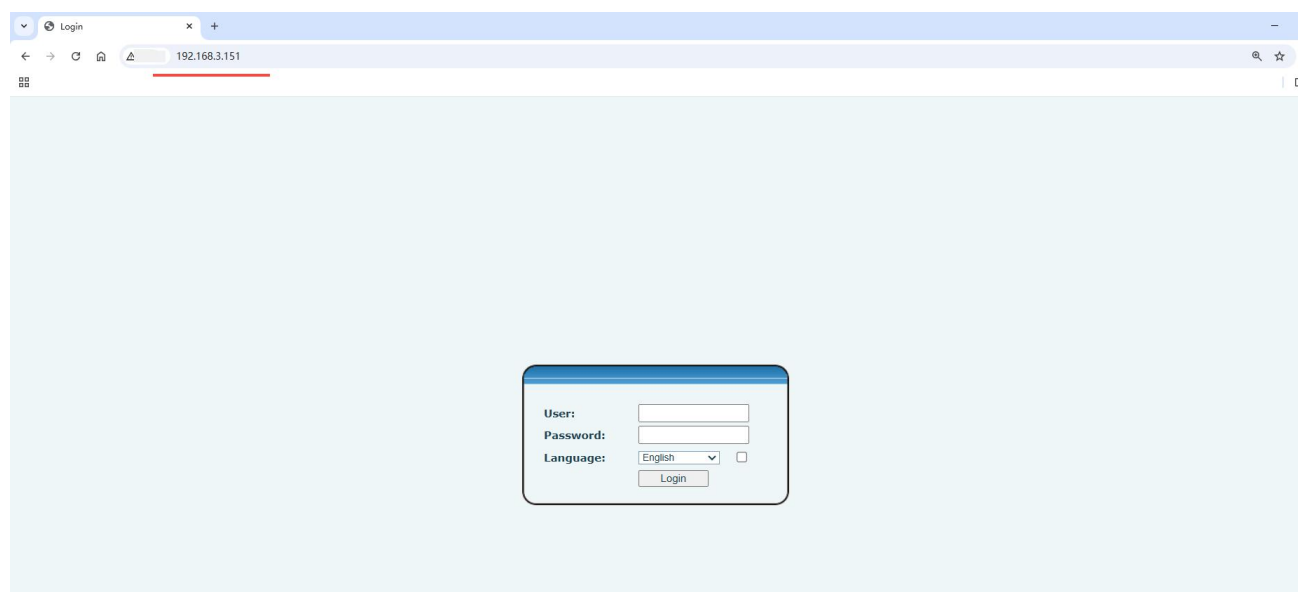
Web Server Type

### Example: Phone Using Default HTTP Setting

#### Procedure

1. Ensure the phone is connected to the network.
2. On the phone interface, navigate to **Common** to check the **IP address** (e.g., 192.168.3.151).
3. On a computer, open a web browser and enter the address: `http://192.168.3.151:80`
4. Press Enter to access the phone's web administration interface.

**Note:** Port 80 is the default HTTP port and may be omitted in most browsers. Alternatively, you can simply enter `http://192.168.3.151`



Web login interface

# Dial Plan

Users can customize dialing patterns and behaviors according to their preferences.

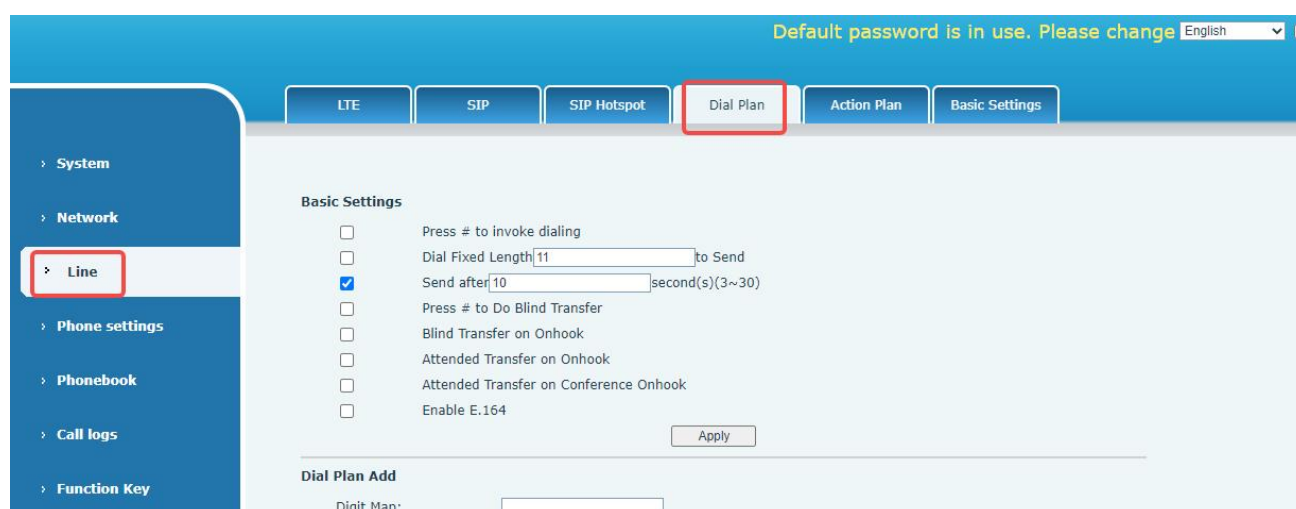
## Via Web Interface:

### Procedure

1. Log in to the phone's web administration interface.

2. Navigate to [Line] → [Dial Plan].

Note: The dial plan allows for the configuration of number transformation rules, call routing logic, and other digit manipulation patterns for outgoing calls.



Dial Plan

## Web Parameter Description

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

Attended Transfer on Onhook	Hang up the handle or press the hands-free button to realize the function of attention -transfer, which can transfer the current call to a third party.
Attended Transfer on Conference Onhook	During a three-way call, hang up the handle and the remaining two parties remain on the call.
Enable E.164	Please refer to the E. 164 standard specification

## Add dialing rules:

**Dial Plan Add**

Digit Map:   
Apply to Call: Outgoing Call   
Match to Send: No   
Media: Default   
Line: SIP DIALPEER   
Destination:   
Port:   
Alias(Optional): No Alias   
Phone Number:   
Length:   
Suffix:

Add

---

**Dial Plan Option**

131xxxxxxx 
Delete Modify

---

**User-defined Dial Plan Table**

Index Digit Map Call Match to Send Line Alias Type: Number(length) Suffix Media

Custom setting of dial - up rules

## Dial - up rule configuration table

Parameters	Description
Dial rule	<p>There are two types of matching: Full Matching or Prefix Matching. In Full matching, the entire phone number is entered and then mapped per the Dial Peer rules.</p> <p>In prefix matching, only part of the number is entered followed by T. The mapping will then take place whenever these digits are dialed. Prefix mode supports a maximum of 30 digits.</p>
<p>Note: Two different special characters are used.</p> <ul style="list-style-type: none"> <li>■ x -- Matches any single digit that is dialed.</li> <li>■ [ ] -- Specifies a range of numbers to be matched. It may be a range, a list of ranges separated by commas, or a list of digits.</li> </ul>	

Destination	Set Destination address. This is for IP direct.
Port	Set the Signal port, and the default is 5060 for SIP.
Alias	Set the Alias. This is the text to be added, replaced or deleted. It is an optional item.
<p>Note: Aliases are categorized into four types, which must be configured in conjunction with the <b>Replacement Length</b>:</p> <ul style="list-style-type: none"> <li>all: xxx – Replaces the entire number with "xxx". This enables speed dial functionality.</li> <li>add: xxx – Adds "xxx" to the beginning of the number. This helps users shorten dialing sequences.</li> <li>delete – Removes the first *n* digits from the number, where *n* is defined by the Replacement Length.</li> <li>replace: xxx – Substitutes the first *n* digits of the number with "xxx", where *n* is determined by the Replacement Length.</li> </ul>	
Suffix	Characters to be added at the end of the phone number. It is an optional item.
Length	Set the number of characters to be deleted. For example, if this is set to 3, the phone will delete the first 3 digits of the phone number. It is an optional item.

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

### Example 1: All Substitution

This is a speed dial configuration. When a user dials "32", the number is automatically replaced with "833333". However, if the user dials "322", the phone will still send "322" instead of "833333".

#### Dial Plan Add

Digit Map:

Apply to Call:

Match to Send:

Media:

Line:

Destination:

Port:

Alias(Optional):

Phone Number:

Length:

Suffix:

### Example 2: Partial Substitution

As is well known, dialing a long-distance call to Beijing requires prefixing the number with the area code 010. Using this function, numbers beginning with the digit '1' will be automatically replaced with '010'. For instance, to call the number 62213123, one only needs to dial 162213123. The phone will then automatically convert this into 01062213123.

Dial Plan Add

Digit Map: 1
Apply to Call: Outgoing Call
Match to Send: No
Media: Default
Line: AUTO
Destination:
Port:
Alias(Optional): Replace
Phone Number: 010
Length: 1
Suffix:

Add

Replace

### Example 3: Prefix Addition

Users can configure the system to automatically add a prefix to numbers beginning with specific digits.

**Scenario:** For instance, if a user dials "9312", the device will automatically add the prefix "007" and send the complete number "0079312".

**Dial Plan Add**

Digit Map:	9312
Apply to Call:	Outgoing Call
Match to Send:	No
Media:	Default
Line:	AUTO
Destination:	
Port:	
Alias(Optional):	Add
Phone Number:	007
Length:	
Suffix:	

Add

#### Example 4: Adding a Suffix

Users can configure the phone to automatically append a specific suffix number when dialing numbers that match a predefined prefix. This feature must be used in conjunction with prefix rules.

Scenario: Prefix: 010, Suffix: 2266, When a user dials: 13833, The phone actually sends: 010 13833 2266

**Dial Plan Add**

Digit Map:	13833
Apply to Call:	Outgoing Call
Match to Send:	No
Media:	Default
Line:	AUTO
Destination:	
Port:	
Alias(Optional):	Add
Phone Number:	010
Length:	
Suffix:	2266

Add

#### Example 5: Removing a Prefix

The phone can be configured to automatically remove a specified prefix from dialed numbers if they match the predefined rule. Scenario: Prefix: 98, Length: 2, When a user dials: 98322, The phone actually sends: 322 (The predefined prefix "98" is automatically removed from the dialed number.)



**Dial Plan Add**

Digit Map:	98322
Apply to Call:	Outgoing Call ▾
Match to Send:	No ▾
Media:	Default ▾
Line:	AUTO ▾
Destination:	
Port:	
Alias(Optional):	Delete ▾
Phone Number:	
Length:	2
Suffix:	98

Add

#### Example 6: Pattern-Based Call Initiation

The rule [1-2]xxx specifies that any 4-digit number falling within the range of 1000 to 2999 will be sent immediately after all 4 digits are collected.

**Dial Plan Add**

Digit Map:	[1-2]xxx
Apply to Call:	Outgoing Call ▾
Match to Send:	Yes ▾
Media:	Default ▾
Line:	AUTO ▾
Destination:	
Port:	
Alias(Optional):	No Alias ▾
Phone Number:	
Length:	
Suffix:	

Add

#### Example 7: Fixed-Length Call Initiation

The rule 1xxx specifies that any number beginning with the digit 1 will be sent immediately after a total of 4 digits are collected.

**Dial Plan Add**

Digit Map:	1xxx
Apply to Call:	Outgoing Call
Match to Send:	Yes
Media:	Default
Line:	AUTO
Destination:	
Port:	
Alias(Optional):	No Alias
Phone Number:	
Length:	
Suffix:	

Add

#### Example 8: Specific Number Call Initiation

The rule 1011 specifies that the exact number 1011 will be sent immediately after the final digit '1' is dialed.

**Dial Plan Add**

Digit Map:	1011
Apply to Call:	Outgoing Call
Match to Send:	Yes
Media:	Default
Line:	AUTO
Destination:	
Port:	
Alias(Optional):	No Alias
Phone Number:	
Length:	
Suffix:	

Add

**Note 1:** If multiple rules ( $\geq 2$ ) in the list are matched, the first matched rule in the list will be applied.

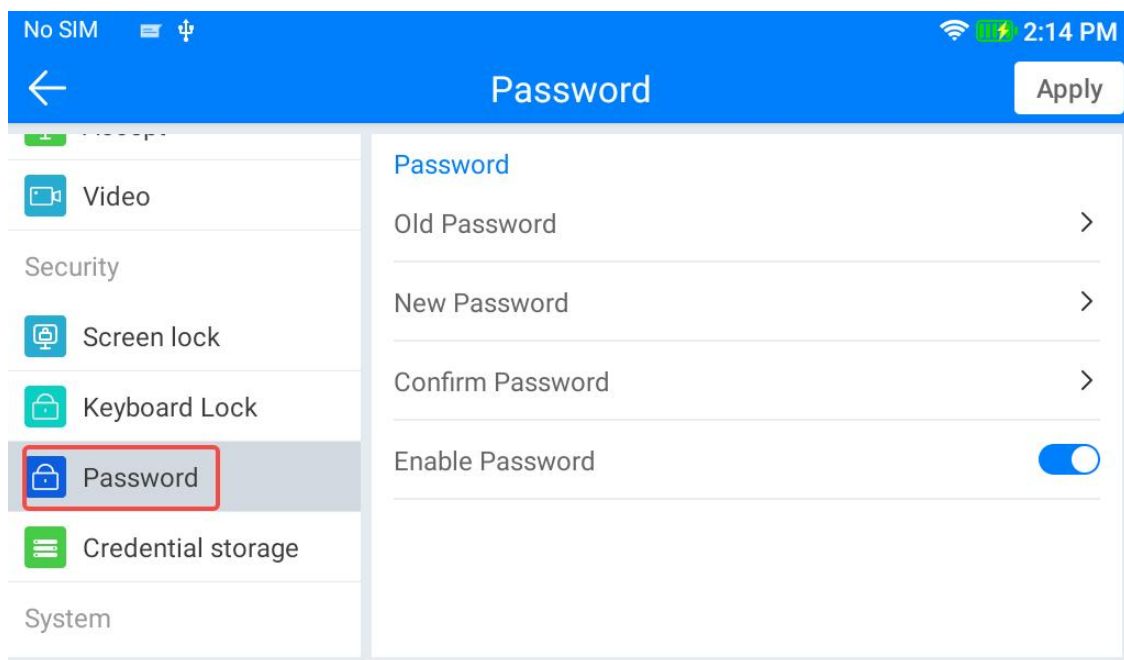
**Note 2:** In custom dial plans, each dialed number must match a unique rule. If multiple rules match the same number, the rules will conflict and none will take effect. (e.g., "80xx" and "8XXX")

## Configuring Access Password

The default password for accessing the phone's advanced options is **admin**.

### Procedure

1. Navigate to: **[Phone Settings] → [Password]**
2. Enter the Current Password.
3. Enter the New Password.
4. Re-enter the new password in the Confirm Password field.
5. Click Apply to save the changes.



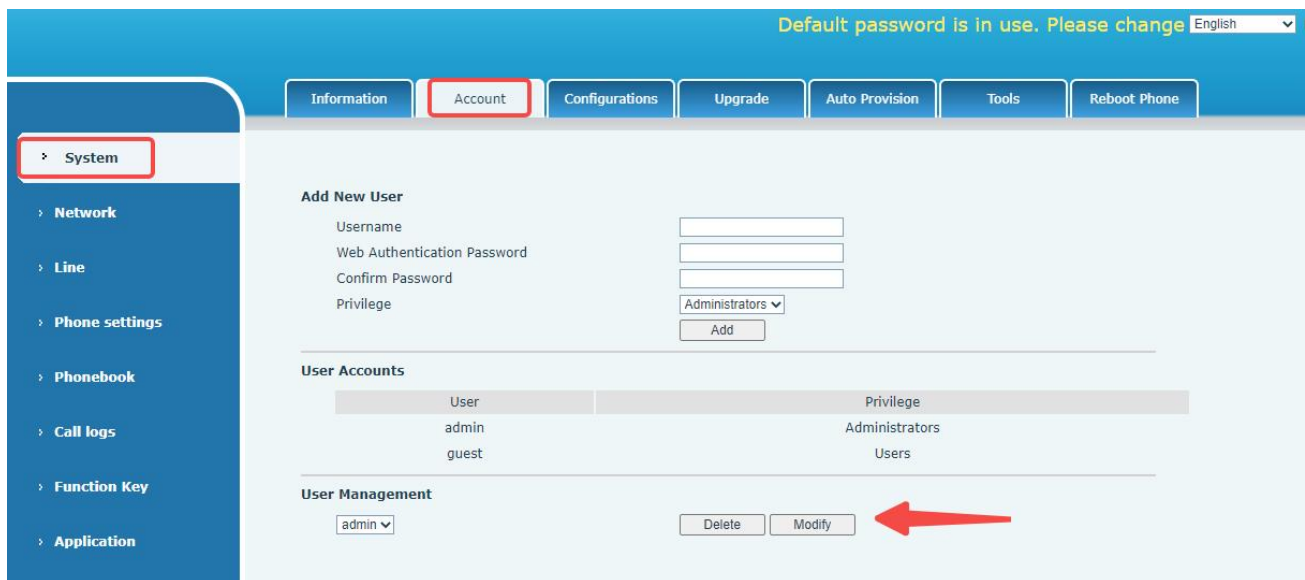
Password settings

## Web Account

The default password for the web interface is **admin**.

### Procedure

1. Log in to the web interface and navigate to **[System] → [Account]**.
2. Under **User Management**, select the user admin.
3. Click the **Modify** button to access the password modification interface.
4. Enter the new password in the designated field.
5. Click **Apply** to confirm and save the new password.



Web Account

## Firmware Upgrade

### Procedure

#### Method 1: Web Interface

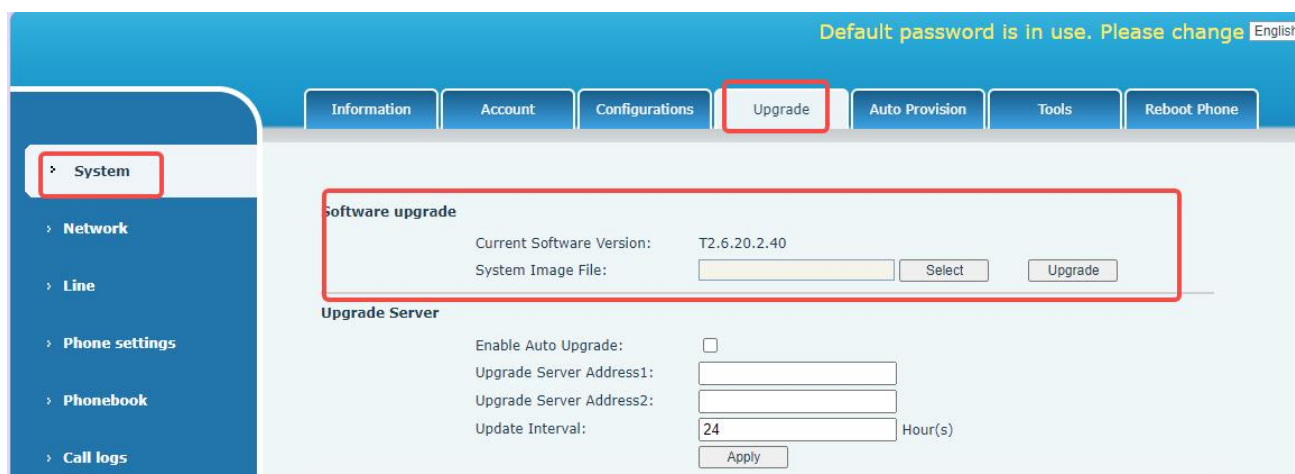
1. Log in to the phone's web administration interface.
2. Navigate to **[System] → [Upgrade]**.
3. Click Choose File and select the firmware upgrade file.
4. Click **Upgrade** to initiate the firmware update process.

#### Method 2: USB Drive

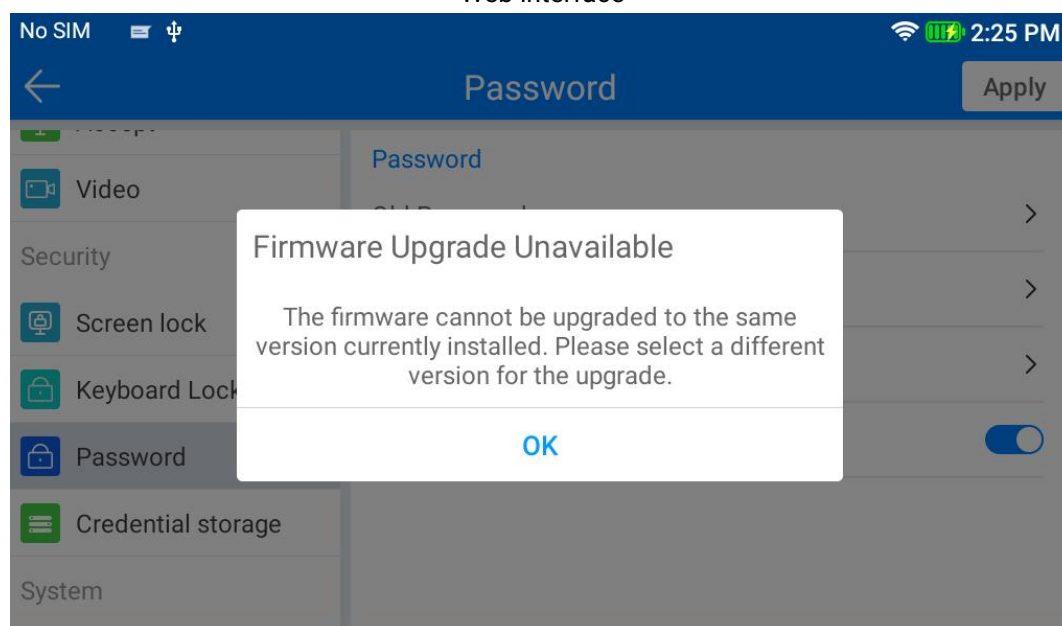
1. Copy the firmware file to a **USB** storage device.
2. Rename the firmware file to: **Frontier\_DT200\_update.zip**
3. Insert the USB drive into the phone's USB port. The phone will automatically detect and initiate the upgrade process.

#### Notes:

- After the upgrade completes, it is recommended to perform a **factory reset** to ensure system stability.
- The system will not proceed with the upgrade if the firmware version is identical to the current version, and will display an "Update failed" message.



Web interface



Update failed

## Power Indicator LED

The Power Indicator LED can be customized to display different statuses for various modes.  
Configuration Procedure:

### Procedure

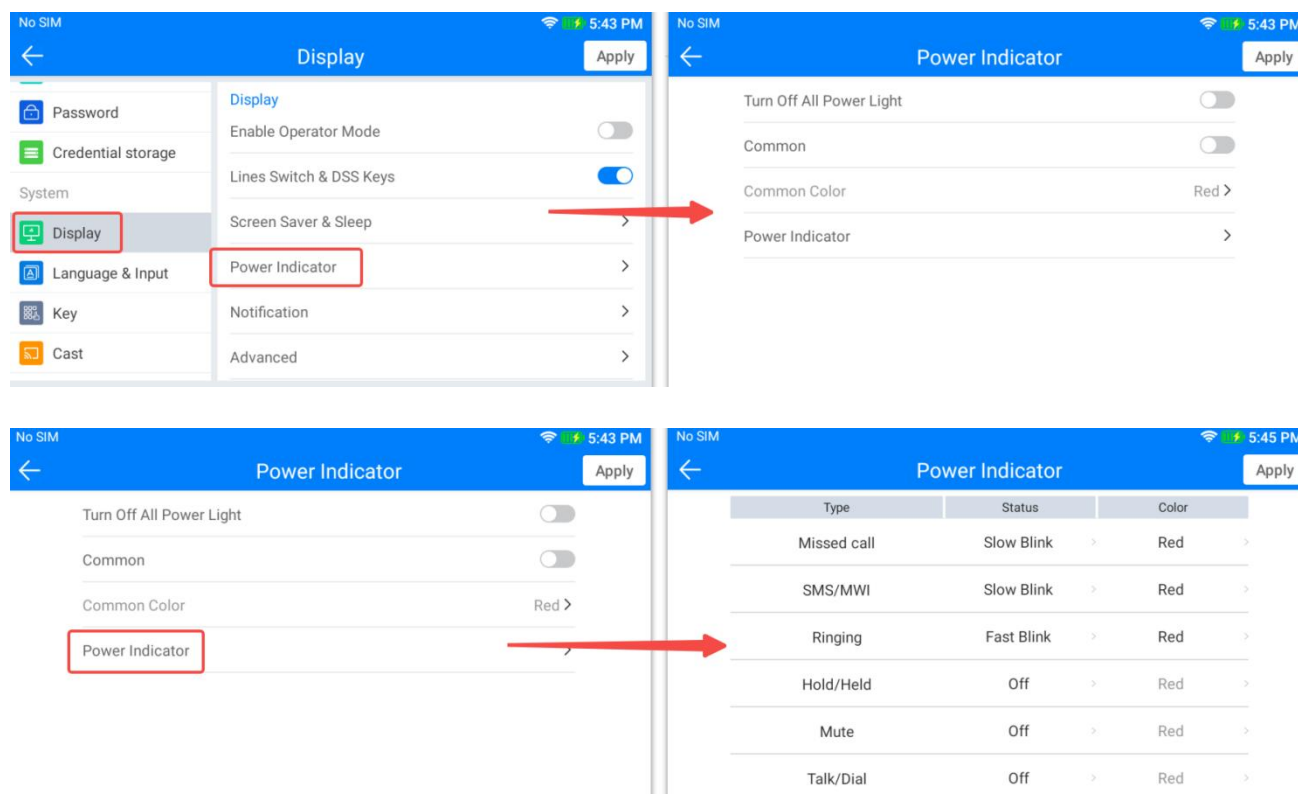
1. Navigate to **[Phone Settings] → [Display] → [Power Indicator]**.
2. Select the **Power Indicator** to enter the configuration interface.
3. For each **Type** of event, configure its corresponding State and Color.
4. Click Apply to save the settings.

### Available Configuration Options:

**Type:** Missed Call, Unread Message, Ringing, etc.

**State:** Off, On, Fast Blink, Slow Blink.

**Color:** Green, Red, Orange.



Power Indicator

## Security

### Web filter

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

#### Adding/Removing Allowed IP Ranges:

##### Procedure

##### To Add a Range:

1. Enter the starting IP address in the **Start IP** field.
2. Enter the ending IP address in the **End IP** field.
3. Click the **Add** button to submit and activate the rule.

You can configure one large IP range or add multiple smaller segments.

### To Remove a Range:

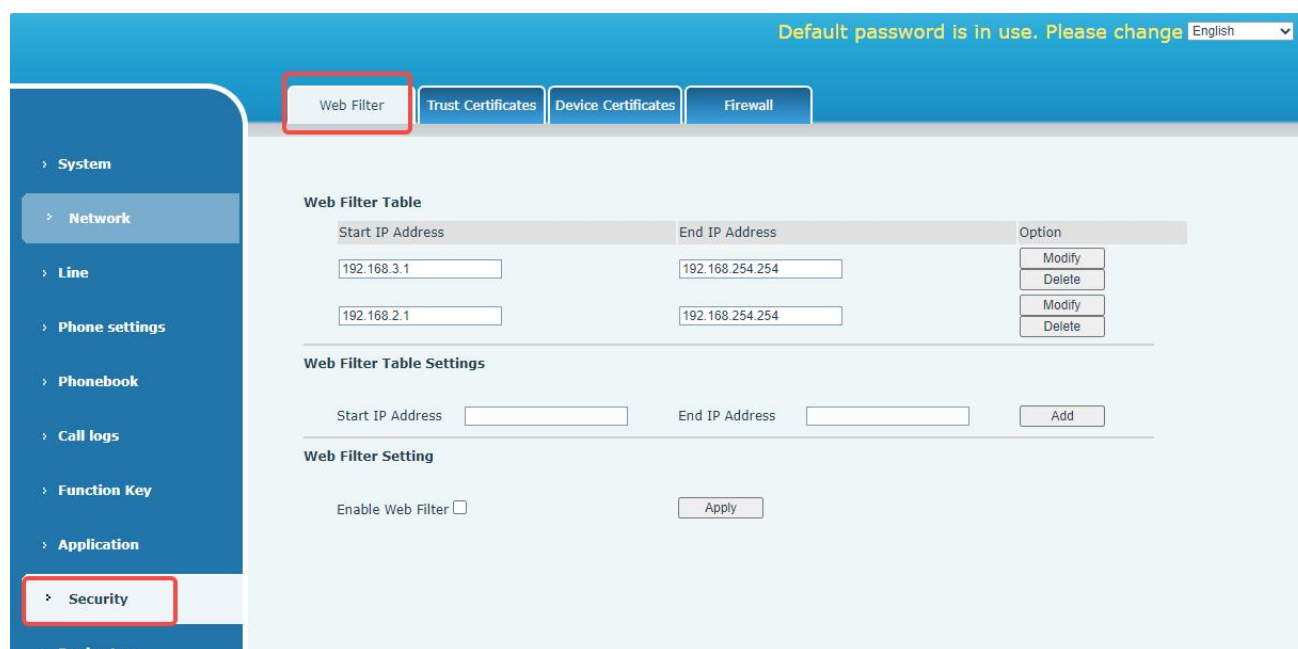
1. Select the starting IP of the range you wish to delete from the drop-down menu.
2. Click the "Delete" button to remove it.

### Enabling/Disabling the Filter:

Use the provided toggle or checkbox to Enable or Disable the web access filter.  
Click the Apply button for the change to take effect.

### Note:

If your management device is on the same subnet as the phone, ensure its IP segment is included in the allowed list. If you configure a filter that excludes your own network segment, you will be locked out and unable to access the web interface.



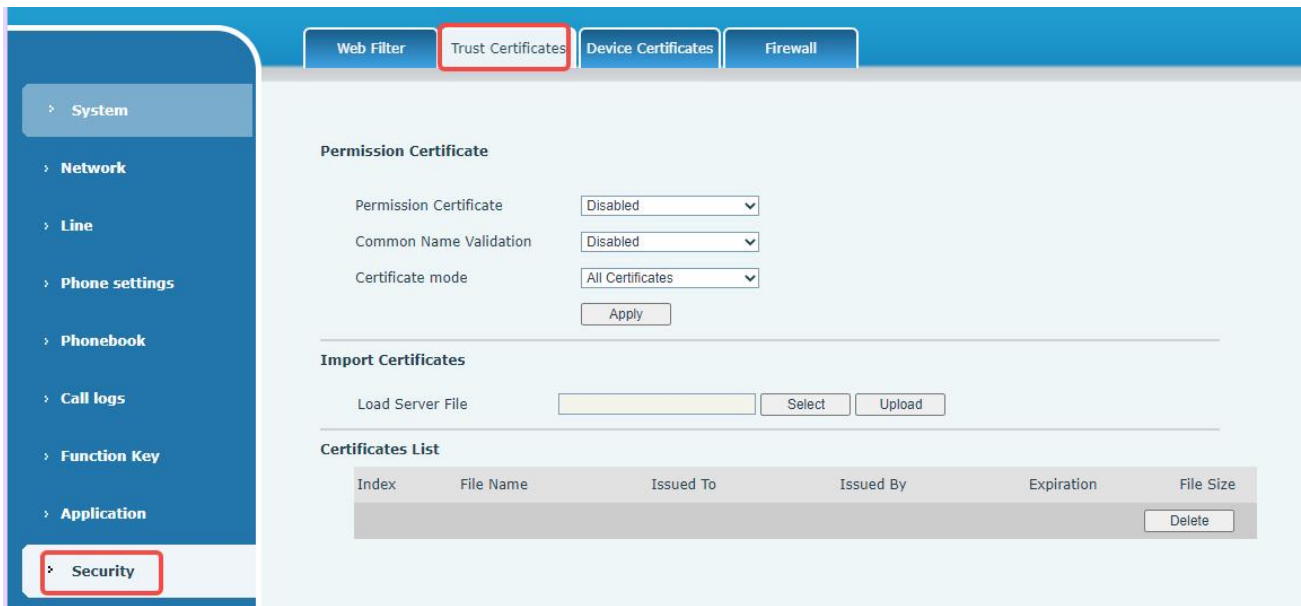
Web Filter settings

## Trusted Certificates

Access this feature by logging into the web interface and navigating to [Security] → [Trusted Certificates].

Set whether to open license certificate and general name validation, select certificate module.

You can upload and delete uploaded certificates.



Web Filter Trust Certificates Device Certificates Firewall

System

Network

Line

Phone settings

Phonebook

Call logs

Function Key

Application

Security

Permission Certificate

Permission Certificate Disabled

Common Name Validation Disabled

Certificate mode All Certificates

Apply

Import Certificates

Load Server File Select Upload

Certificates List

Index	File Name	Issued To	Issued By	Expiration	File Size
					Delete

Certificate of settings

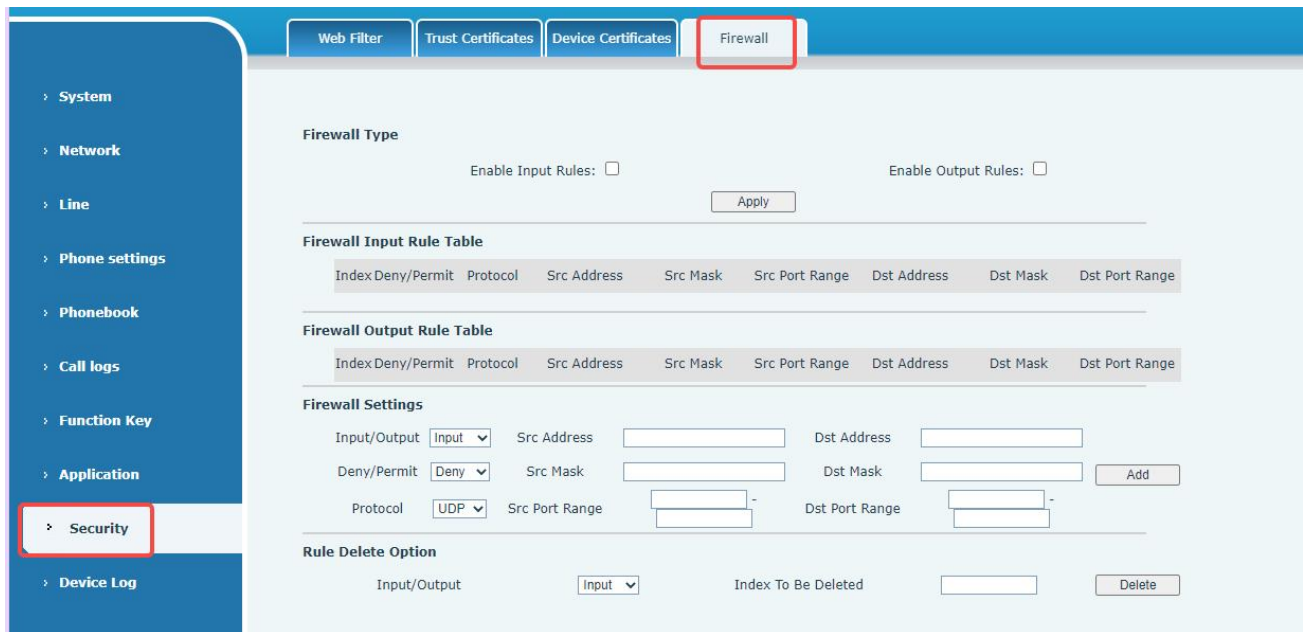
## Firewall

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

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

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





## Network firewall Settings

### Network Firewall

Parameter	Description
Enable Input Rules	Indicates that the input rule application is enabled.
Enable Output Rules	Indicates that the output rule application is enabled.
Input/Output	To select whether the currently added rule is an input or output rule.
Deny/Permit	To select whether the current rule configuration is disabled or allowed;
Protocol	There are four types of filtering protocols: TCP   UDP   ICMP   IP.
Src Port Range	Filter port range
Src Address	Source address can be host address, network address, or all addresses 0.0.0.0; It can also be a network address similar to *.*.*.0, such as: 192.168.1.0.
Dst Address	The destination address can be either the specific IP address or the full address 0.0.0.0; It can also be a network address similar to *.*.*.0, such as: 192.168.1.0.
Src Mask	Is the source address mask. When configured as 255.255.255.255, it means that the host is specific. When set as 255.255.255.0, it means that a network segment is filtered.
Dst Mask	Is the destination address mask. When configured as 255.255.255.255, it means the specific host. When set as 255.255.255.0, it means that a network segment is filtered.

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

Index	Deny/Permit	Protocol	Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range
1	deny	udp	192.168.1.0	192.168.1.154	0-9	255.255.255.0	255.255.255.0	0-9

Firewall Input rule table

After completing the initial setup, proceed by enabling the firewall options: check the boxes for "Enable Input Rules" and "Enable Output Rules", then click the Apply button.

Firewall Type

Enable Input Rules: ☐

Enable Output Rules: ☐

Apply

Once these rules are active, the device will enforce the specified packet filtering. For example, if an output rule is configured to block packets sent to 192.168.1.118, then running the command ping 192.168.1.118 will fail because the firewall prevents the data packets from being sent to that specific address.

However, communication with other hosts in the same subnet that are not restricted by the rule will remain unaffected. For instance, pinging other IP addresses within the 192.168.1.0 network segment (e.g., 192.168.1.119) will still function normally, and response data packets from those destination hosts will be received successfully.

## Quality of Service & Virtual LAN

### VLAN

The phone supports IEEE 802.1p/Q standards, providing VLAN tagging and priority tagging. This enhances network flexibility, security, and efficiency by allowing the phone to segment traffic and prioritize voice packets.

### LLDP (Link Layer Discovery Protocol)

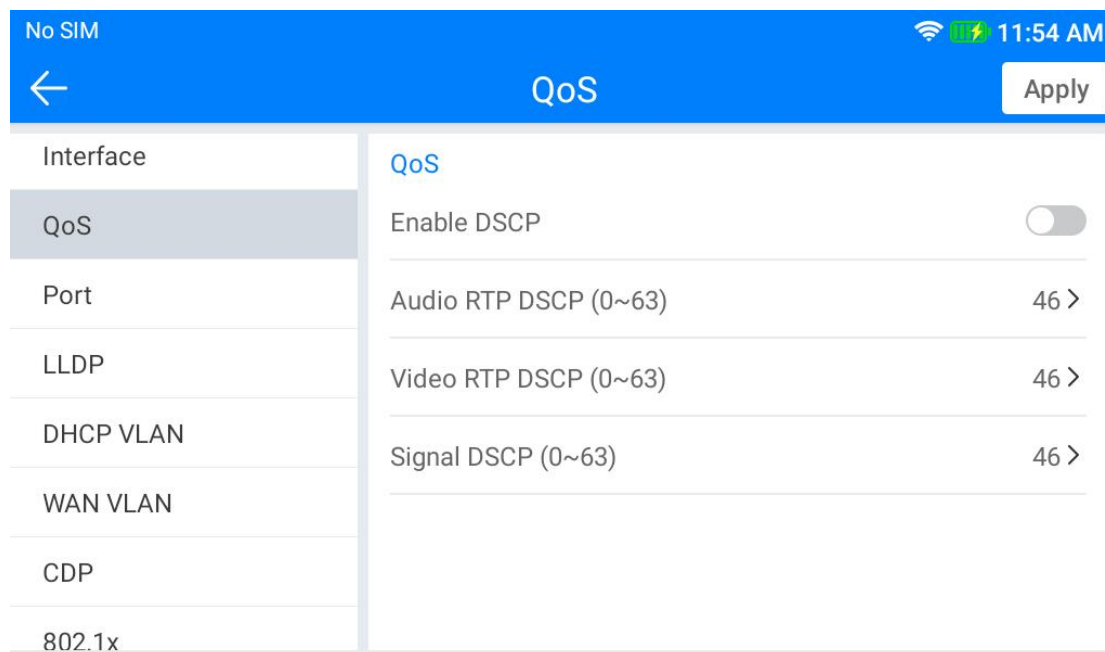
LLDP is a vendor-neutral Layer 2 protocol that allows network devices to advertise their identity and capabilities to other devices on the same local subnet.

The phone uses LLDP to automatically discover and store information about neighboring network devices. It can then apply the learned configuration settings, such as VLAN and QoS parameters, for seamless network integration.

### CDP (Cisco Discovery Protocol)

CDP is a proprietary Layer 2 network protocol developed by Cisco Systems, which is enabled on most Cisco equipment.

By using CDP, directly connected Cisco devices can share information such as operating system version, IP address, and hardware platform. This allows the phone to automatically receive and apply necessary network configurations from adjacent Cisco switches.



Qos & Vlan interface

### Parameter Description

Parameters	Description
<b>QoS</b>	
Enable DSCP	Enable DSCP and turn it off by default
Audio RTP DSCP	Set Audio RTP DSCP
Video RTP DSCP	Set up Video RTP DSCP
Signal DSCP	Set the Signal DSCP
<b>LLDP</b>	
Enable LLDP	Enable LLDP
Enable Learning Function	Learning the discovered device information to the phone
Packet Interval	LLDP sends detection period
<b>VLAN</b>	
DHCP VLAN	You can choose to customize the DHCP VLAN option or disable it
WAN VLAN	Set Up the Wan Port Vlan

<b>CDP</b>	
Enable CDP	CDP turns on settings
CDP Refresh Time	Turn on the interval settings
<b>802.1x</b>	
802.1x Mode	Choose 802.1x authentication, or turn off authentication
Identity	Set the user name, admin by default
Password	Set the password, admin by default
<b>STUN</b>	
STUN NAT Traversal	Enable STUN penetration
Server Address	Set the server address
Service Port	Set the service port (1~65535)
Local SIP Port	Set the local service port (1024~65535)

## Auto Provisioning

The device supports four methods for automatic deployment and configuration: SIP Plug and Play (PNP), DHCP Options, Static Provisioning Server, TR-069

If multiple methods are configured simultaneously, the device will attempt to obtain provisioning parameters during startup based on the following order of priority:

PNP > DHCP > TR-069 > Static Provisioning

Supported file transfer protocols for provisioning include: FTP, TFTP, HTTP, HTTPS.

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

Default password is in use. Please change [English](#)

Information
Account
Configurations
Upgrade
Auto Provision
Tools
Reboot Phone

System

Network

Line

Phone settings

Phonebook

Call logs

Function Key

Application

Security

Device Log

### Basic Settings

CPE Serial Number:  
Authentication Name:  
Authentication Password:  
Configuration File Encryption Key:  
General Configuration File Encryption Key:  
Download Fail Check Times:  
Update Contact Interval:  
Save Auto Provision Information:  
Download CommonConfig enabled:  
Enable Server Digest:  
Display Provision Prompt:  
Provision Config Priority:

00100400FV020010000000a859ec07aa  
  
  
  
  
  
 (0, >= 5) Minute  
☐  
☒  
☐

[DHCP Option >>](#)  
[DHCPv6 Option >>](#)  
[SIP Plug and Play \(PnP\) >>](#)  
[Static Provisioning Server >>](#)  
[Autoprovision Now >>](#)  
[TR069 >>](#)

Page auto provision Settings

### Auto Provision

Parameters	Description
<b>Basic settings</b>	
CPE Serial Number	Display the device SN
Authentication Name	The user name of provision server. Not required for the TFTP protocol.
Authentication Password	The password of provision server.
Configuration File Encryption Key	If the device configuration file is encrypted , user should add the encryption key here.
General Configuration File Encryption Key	If the common configuration file is encrypted, user should add the encryption key here.
Download Fail Check Times	If there download is failed, phone will retry with the configured times.
Update Contact Interval	Phone will update the phonebook with the configured interval time. If it is 0, the feature is disabled.
Save Auto Provision Information	Save the HTTP/HTTPS/FTP user name and password. If the provision URL is kept, the information will be kept.
Download Common Config enabled	Whether phone will download the common configuration file.

Enable Server Digest	When the feature is enable, if the configuration of server is changed, phone will download and update.
Display Provision Prompt	Configure whether the phone displays upgrade prompts.
Provision Config Priority	If enabled, the phone will check a digest/hash of the file on the server before downloading. If the server's file has changed or differs from the local file, the phone will proceed with the update.
<b>DHCP Option</b>	
Option Value	Configure DHCP option, DHCP option supports DHCP custom option   DHCP option 66   DHCP option 43, 3 methods to get the provision URL. The default is Option 66.
Custom Option Value	Custom Option value is allowed from 128 to 254. The option value must be same as server define.
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP server.
<b>DHCPv6 Option</b>	
Option Value	Configure the DHCPv6 Option value.
Custom Option Value	The valid values for custom options are from 128 to 254. The custom option type must be consistent with the DHCP server definition.
<b>SIP Plug and Play (PnP)</b>	
Enable SIP PnP	Whether enable PnP or not. If PnP is enable, phone will send a SIP SUBSCRIBE message with broadcast method. Any server can support the feature will respond and send a Notify with URL to phone. Phone could get the configuration file with the URL.
Server Address	Broadcast address. As default, it is 224.0.0.0.
Server Port	PnP port .
Transport Protocol	PnP protocol, TCP or UDP.
Update Interval	PnP message interval.
<b>Static Provisioning Server</b>	
Server Address	Provisioning server address. Support both IP address and domain address.
Configuration File Name	The configuration file name. If it is empty, phone will request the common file and device file which is named as its MAC address. The file name could be a common name, \$mac.cfg, \$input.cfg. The file format supports CFG/TXT/XML.

Protocol Type	Transferring protocol type, supports FTP, TFTP, HTTP and HTTPS.
Update Interval	Configuration file update interval time. As default it is 1, means phone will check the update every 1 hour.
Update Mode	Provision Mode. 1. Disabled. 2. Update after reboot. 3. Update after interval.
<b>TR069</b>	
Enable TR069	Enable TR069 after selection.
ACS Server Type	There are 2 options Serve type, common and CTC.
ACS Server URL	ACS server address .
ACS User	ACS server username (up to is 59 character).
ACS Password	ACS server password (up to is 59 character).
Enable TR069 Warning Tone	If TR069 is enabled, there will be a prompt tone when connecting.
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999s
STUN Server Address	Configure STUN server address
STUN Enable	To enable STUN server for TR069

## Trouble Shooting

---

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

# Screenshot

screenshots are valuable for technical support to identify the location of a function and clarify the issue when a problem occurs with the phone.

## Procedure

### Method 1: External Camera (Recommended for Complex Issues)

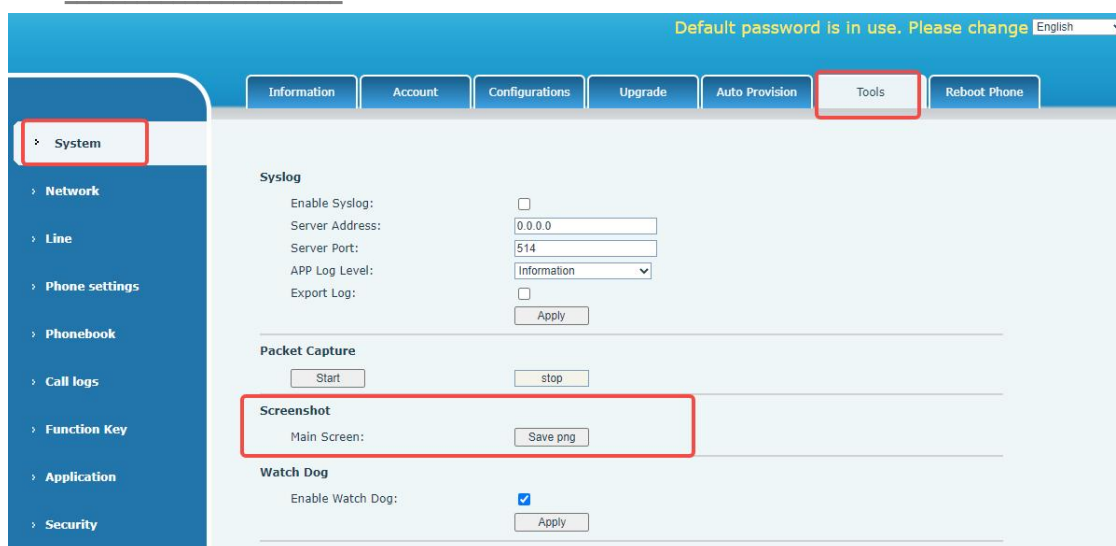
The most straightforward method is to use a separate device (e.g., a mobile phone or camera) to take a photo or record a video of the phone's screen.

1. Advantage: This method is effective for capturing physical issues, screen glitches, or problems that involve multiple steps or the device's physical state.

### Method 2: Web Interface Screenshot

Use this method to capture a digital image of the phone's current screen directly via the web administration interface.

1. Reproduce the issue or navigate to the problematic screen on the phone.
2. Log in to the phone's web administration interface.
3. Navigate to: **[System]** → **[Tools]** → **[Screenshot]**.
4. Click the **Save png** button. The screenshot will be saved by your browser to its default download directory.



Screenshot



# Watch Dog

The Watchdog is a self-recovery mechanism designed to detect abnormal operation or unresponsiveness of the phone. If a critical fault is detected, the Watchdog will force a system reboot to restore normal functionality.

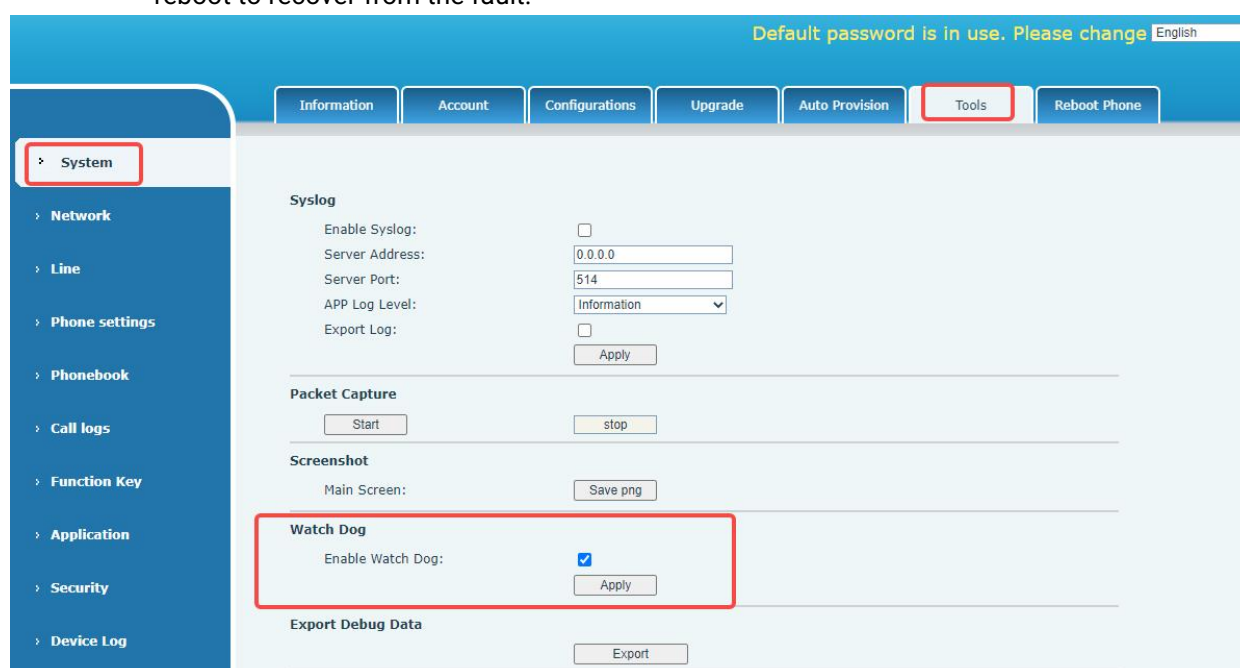
## Configuration:

Users can enable or disable the Watchdog feature via the web administration interface.

1. Log in to the phone's web interface.
2. Navigate to: **[System]** → **[Tools]** → **[Watch Dog]**.
3. Toggle the setting to Enable or Disable the feature. (The default setting is enabled)

## Operational Principle:

- A monitoring process (or script) runs periodically to check the system status.
- If this process fails to report back within a predefined timeout period, it is assumed that the system has become unresponsive.
- The Watchdog mechanism will then attempt to restart the failed process.
- If multiple consecutive restart attempts fail, the Watchdog will initiate a complete system reboot to recover from the fault.



Watch Dog

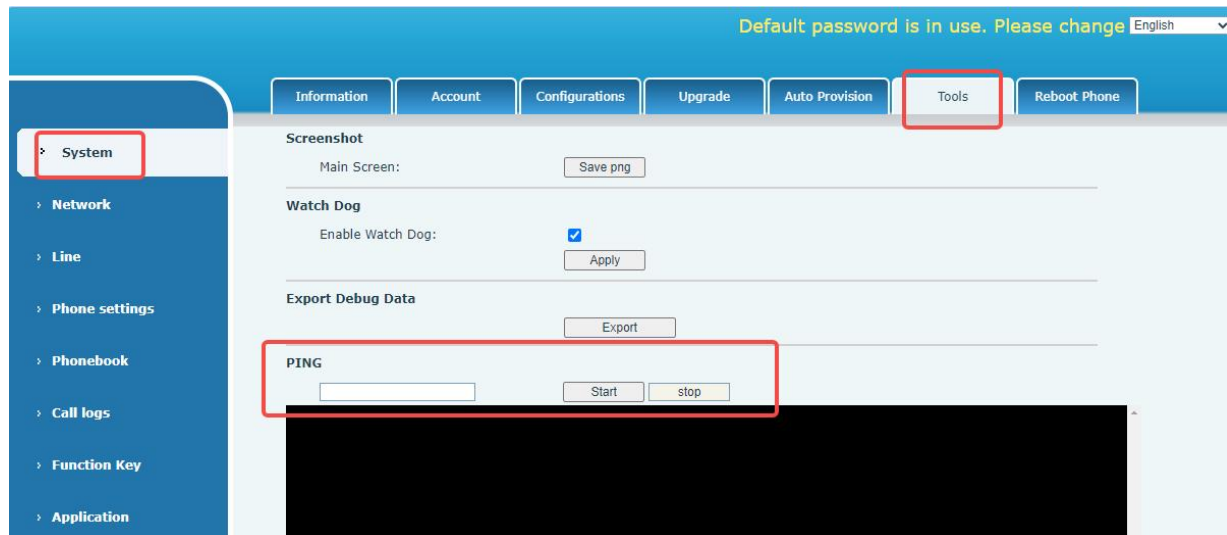
# PING

- The **PING** tool in the web interface allows you to diagnose the phone's network connectivity status.

## Procedure

1. Log in to the phone's web interface.

- 
- Navigate to: **[System]** → **[Tools]** → **[PING]**
2. In the input field, enter a destination IP Address or Domain Name. This can be the address of a computer on the local network, another phone, or a public server on the Internet.
  3. Click the **Start** button to initiate the diagnostic test.
  4. The results will be displayed, indicating whether the connection to the specified address is successful or if there is a failure.



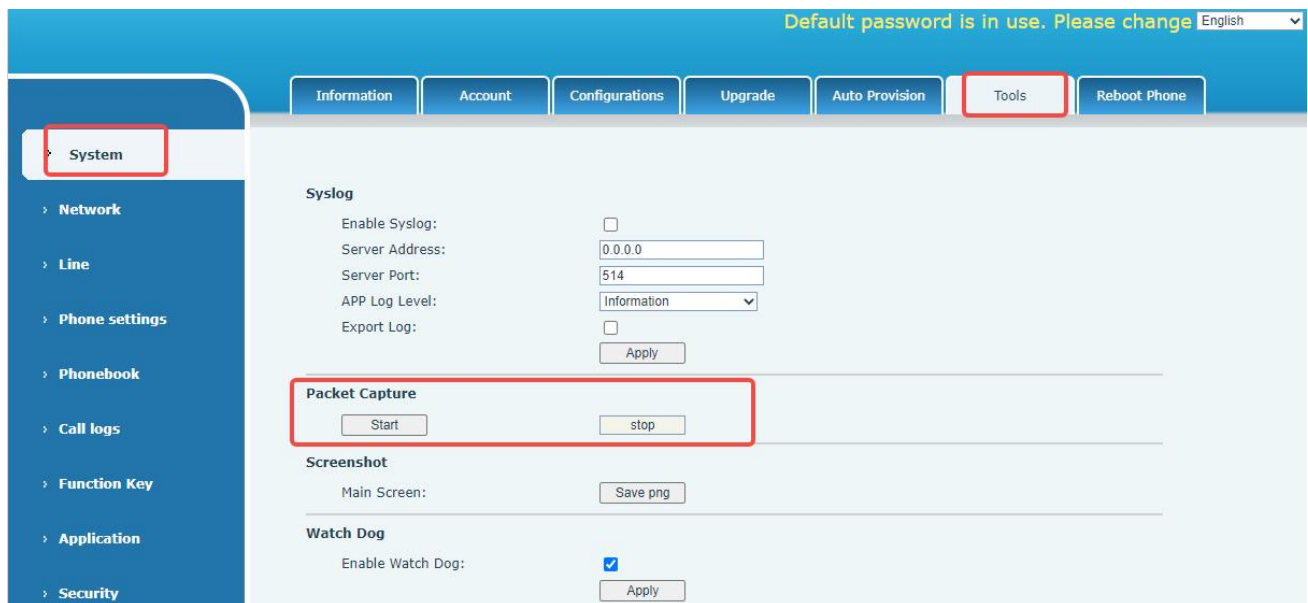
PING interface

## Network Packets Capture

- Capturing network packets can be helpful for diagnosing phone issues related to network communication. To capture packets from the phone, please follow the procedure below.

### Procedure

- 
1. Log in to the phone's web interface.
  2. Navigate to: **[System]** → **[Tools]** → **[Packet Capture]**.
  3. Click the **Start** button within the "Network Packet Capture" section.
  4. A dialog box will appear, prompting you to save the capture file. Choose a location on your computer and confirm.
  5. **Reproduce the Issue:** On the phone, perform the actions that typically cause the problem (e.g., enabling/disabling a line, making a phone call).
  6. Once the relevant actions are completed, return to the web interface and click the **Stop** button.
  7. The network packets transmitted and received by the phone during this period are now saved in the file you specified.
-



Packet Capture

## Get Log Information

- Log files are crucial for diagnosing abnormal issues with the phone. To obtain these logs, please use the one-click export feature via the web interface.

### Procedure

#### Method 1: Export Logs via Web

1. Log in to the phone's web interface.  
Navigate to: **[System]** → **[Tools]** → **[Export Debug Info]**
2. Click the **Export** button.
3. The system will package all relevant debug information into a file and download it to your local computer.

#### Method 2: Export Logs via USB Drive

##### Prerequisites:

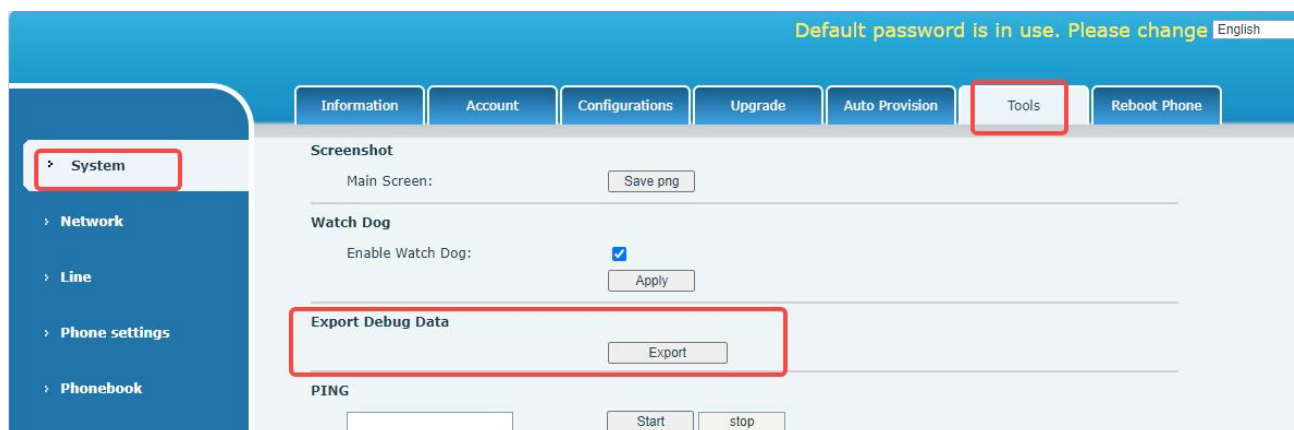
- Ensure the USB drive has sufficient free space.
- Create a blank file named **Dump\_trace.txt** on the USB drive.

1. **Reproduce the Issue:** First, perform the actions on the phone that cause the problem you wish to diagnose.
2. **Immediately** after reproducing the issue, connect the USB drive to an available USB port on the phone.
3. Wait for approximately 5 minutes. The system will automatically generate the debug log file on the USB drive.

4. Safely remove the USB drive from the phone.
5. The debug log file will be automatically created on the USB drive with the filename: **XXX.tag.zip**

### Next Steps:

The downloaded file can be analyzed locally or sent to technical support personnel for issue identification and troubleshooting.



Export Debug Data

## Common Troubleshooting Cases

### Case 1: Phone Fails to Power On

#### Possible Causes & Solutions:

1. Power Supply Issue: The phone is powered by an external power source, either a power adapter or a PoE switch.

**Solution:** Ensure you are using the provided power adapter or a standard-compliant PoE switch. Verify that the phone is properly connected to the power source.

2. System Corruption: If the phone screen displays a "POST Mode" message.

**Solution:** This indicates potential system corruption. Please contact Frontieriot Technical Support for assistance in restoring the phone system.

### Case 2: No Audio or Poor Audio Quality

#### Possible Cause & Solution:

1. Incorrect Cable Connection: The handset cable may be plugged into the wrong port.
2. **Solution:** Verify that the handset is correctly connected to the Handset port on the phone, and not to the Headset port.

### Case 3: Phone Fails to Register to Service Provider

#### Possible Causes & Solutions:

1. Network Connectivity:

Check: Ensure the phone is connected to the network and that the correct port (e.g., WAN) is used.

## 2. IP Address Assignment:

- Check: Navigate to the system information menu and check the IP address.
- **Solution:** If the IP address shows "Negotiating...", the phone has not obtained a valid IP address. Please check your network configuration (e.g., DHCP settings).

## 3. Line Configuration or Service Issue:

- Check: If the network connection is confirmed to be functional, re-check all your SIP account line settings (username, password, server address, etc.).
- **Solution:** If all configurations are correct, contact your service provider for further assistance. Alternatively, you can follow the procedure in the "Network Packet Capture" section to capture the registration traffic and send the file to the Frontieriot support team for analysis.