SP-C64G/C64GP IP Phone

User Manual V1.0

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Preface

Welcome

Thanks for choosing the SP-C64G/C64GP IP phone！ We hope you will make full use of this rich-feature IP phone, Contact us if you need any technical support: 0755- 61919966

About This Manual

This manual provides information about the introduction of the IP phone, and about how to install, configure or use it. Please read this document carefully before install the SP-C64G/C64GP IP phone.

Intended Audience

This manual is aimed primarily at the following people:

- Users
- Engineers who install, configure and maintain the SP-C64G/C64GP IP phone.

Revision Record

Document Name	Version	Firmware Version
SP-C64G/C64GP IP Phone User Manual	V1.0	2.64.6.2.1

Conventions

The phone or device mentioned in this document refers to the SP-C64G/C64GP IP phone . "Note" marked in the document is what users need to pay attention to.

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1 Overview

1.1 Introduction

The Dinstar SP-C64G/C64GP is a multi-functional IP phone designed for business people in various environments. It has a 3.5-inch color LCD display with a resolution of 320x480, offering users a great visual quality. Its excellent high-definition voice and rich telephone system functions fully meet the different needs of users.

Additionally, the installation and configuration of SP-C64G/C64GP IP Phone is easy and simple. The IP phone supports 4 SIP accounts and 3-party conference function. and its dual Gigabit Ethernet ports can be connected to IPPBX to acquire more functions.

Based on the SIP standard, the SP-C64G/C64GP IP phone has been tested to ensure comprehensive interoperability with VoIP infrastructure leaders' devices, enabling service providers to quickly roll-out competitive and feature-rich services to their customers.

1.2 Feature

- **Highlights**
  - HD Voice
  - 4 SIP Accounts
  - 3.5”320×480 Pixel Color LCD with Backlight
  - Support Three-way Conference
  - Full Compatible with 3CX,Asterisk, BroadSoft Platform
  - Dual 100/1000Mbps Power over Ethernet (PoE IEEE802.3af）

- **Phone Features**
  - 4 Lines (support 4 IP accounts)
  - Support Call Waiting, Call Forwarding, Call Transfer
  - Auto Redial, Call Return, Auto-answer, Redial,
  - Call on Hold, Mute, DND
  - Three-Way Calling
  - Adjustable Volume, Selectable Ring Tones
  - Speed Dial, Hotline

- Daylight Saving Time
- Network Packet Capture
- Country Ringtone Signal
- Direct IP call (Calling to IP Address)
- Dial Plan
- XML Browser
- Hot Desking
- Keypad Lock
- Action URL/URI
- Phonebook (1000 entries), Blacklist (100 entries), call logs (100 entries)
- 5 Remote Phone Book URL supported
- LDAP
- Multi-Language Support
- Multicast listening

➢ **IP-PBX Feature**

- SMS, Voicemail, MWI Message Notification
- Music on hold, Intercom
- BLF(Busy Lamp Field)
- Call Pickup, Call Pickup in Group
- Call Recording
- Anonymous Call, Anonymous Call Rejection

➢ **Network Features**

- SIP V1(RFC2543), V2(RFC3261)
- Static IP/DHCP/PPPoE for IP configuration
- 3 DTMF modes: In-Band, RFC2833, SIP INFO
- HTTP/HTTPS Web Server for Management
- NTP for Auto Time Setting
- TFTP/FTP/HTTP/HTTPS Protocols
- 802.1Q VLAN

➢ **Administration Features**

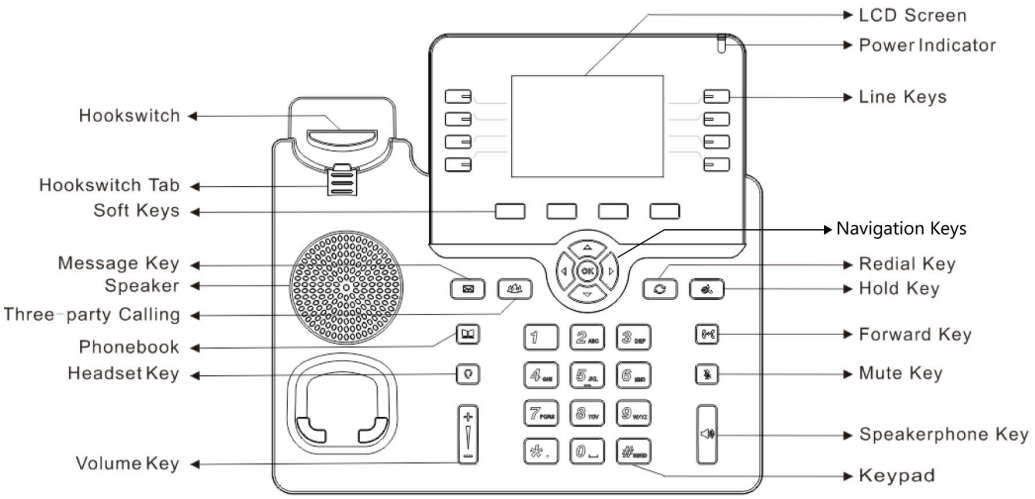
- Auto provisioning using FTP/TFTP/HTTP/HTTPS
- Dial through IP PBX Using Phone Number
- Configuration Managements with Web platform, settings on the phone, and Auto Provisioning
- SNMP
- TR069

➢ **Security Features**

- HTTPS (SSL)
- SRTP for Voice Data Encryption
- Login for Administration
- SIP Over TLS

1.3 Hardware Introduction

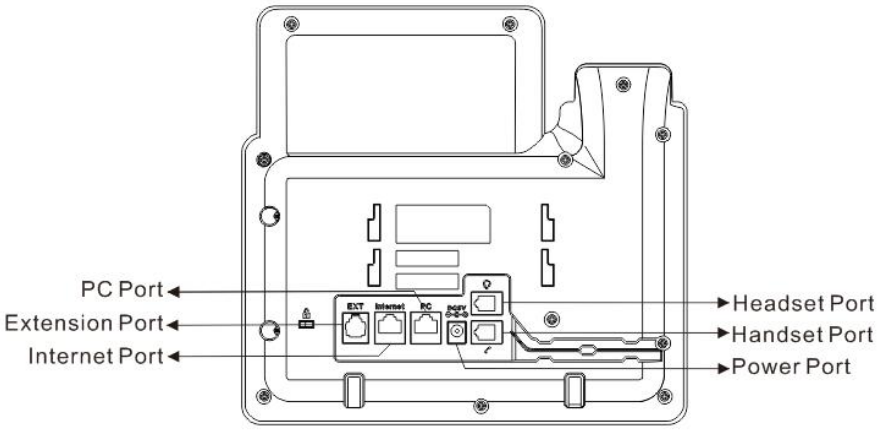
1.3.1 Front View and Keypad Description



Name	Description
LCD Screen	Shows information about calls, messages, soft keys, time, date, and so on
Power LED Indicator	The power indicator indicates the call, message and phone's system status: Solid blue: The phone is idle. Fast-flashing blue: The phone is ringing. Slow-flashing blue: The phone receives a message.

Name	Description
Line Keys	When used as a programmable key or activated account, multiple functions can be configured. Line keys LED: Solid green: The line is registered successfully Fast-flashing green: The line receives an incoming call Solid red : The line is in a call or calling out Fast-flashing red : The line is on hold Slow-flashing red : The line is registered failed Off: The line is disabled.
Redial Key	Used to redial a previously dialed number.
Soft Keys	Used to complete the operations about the soft key labels which are displayed on the LCD screen. The labels include: History、Favorites、Redial、Call Return、Hot Desking、XML Browser、DND、Menu、MSG、Status、Book、FWD、Pickup、Intercom、Speed Dial、and so on.
Navigation Keys	Assists you in selecting an item that you want to process under the menu by pressing the Up, Down, Right or Left key. Press the OK key to save.
Hold Key	Press this key during an active call, and you can place a call on hold.
Mute Key	Toggles the microphone on or off
Message Key	Used to access voice messages.
Forward Key	Press this key to forward a call
Speakerphone Key	Press this key to activate the speakerphone mode, and you can make the call hand-free.
Keypad	Provide digits, letters and special characters in context-sensitive application.
Volume -/+	Turn down or turn up the volume by pressing the “-” key or the “+” key.
Headset Key	Use the headset key to activate headset mode.
Three-party Calling	Create a three-party conference
Speaker	Provides hands-free (speakerphone) audio output.
Hookswitch Tab	Secures the handset in the handset cradle when the IP phone is mounted vertically.
Hookswitch	• Picking up the handset from the handset cradle, the hookswitch bounces and the phone connects to the line. • Put the handset down on the handset cradle, the phone disconnects from the line.

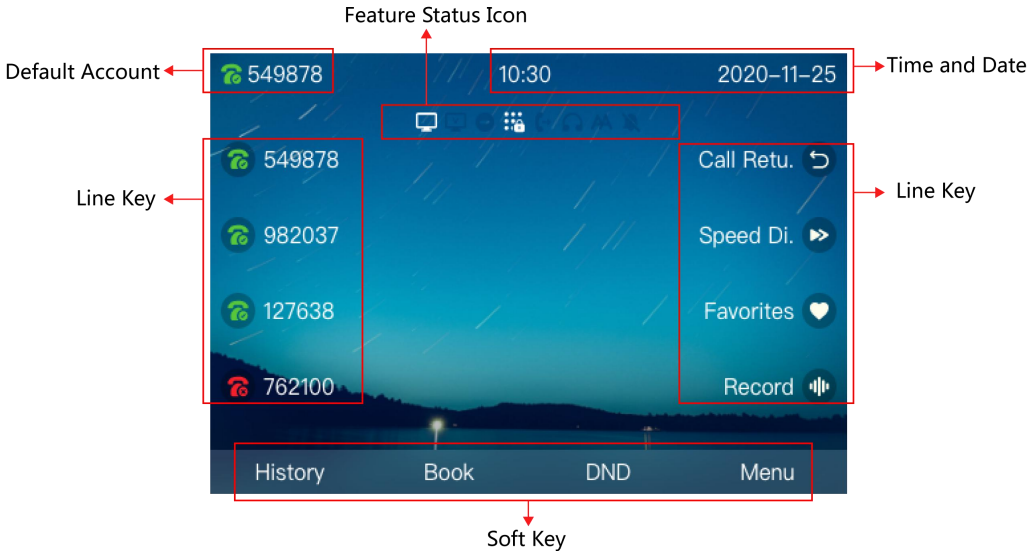
1.3.2 Rear View and Panel Descriptions



Name	Description
Power Port	Connect to power adapter (Input: 5V DC 1A)
PC Port	Connect to PC (10/100/1000M)
Extension Port	Connect to Extension
Internet Port	Connect to Network (10/100/1000M)
Handset Port	Connect to handset (Port type: RJ-9 connector)
Headset Port	Connect to headset (Port type: RJ-9 connector)

1.3.3 Screen and Icons

The idle screen consists of status bar, line keys, soft keys, etc., as shown in the figure below:



The icons displayed on the screen are as follows:

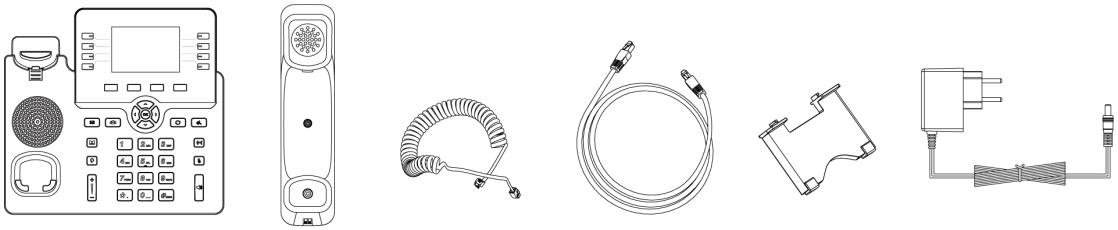
Icons	Description	Icons	Description
	Registered		muted
	Register failed		Headset mode
	Registering		Speakerphone mode
	Register Disabled		Handset mode
	Auto answer		New text message
	Do Not Disturb		New voice message
	Forward		Miss calls
	Network Disconnection		Keypad Lock

2 Installation

2.1 Inspection

Check the device and accessories with the device as per list of packing (See the table below).

Note: If the IP phone is powered by PoE, no power adapter will be provided.



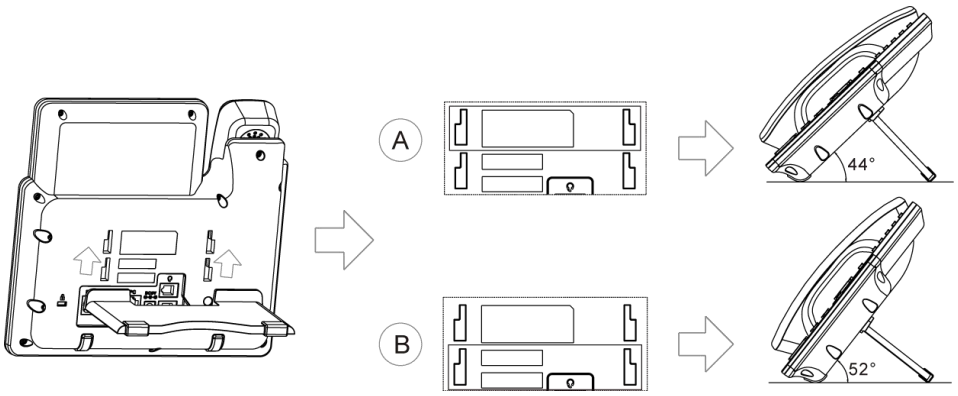
IP Phone Handset Handset cord Ethernet Cable Stand Power Adapter

Name	Quantity
SP-C64G/C64GP IP Phone	1
Stand	1
Handset	1
Handset cord	1
Power Adapter (Optional)	1
Ethernet Cable	1

2.2 Installation

Step 1: Installing the stand

SP-C64G/C64GP IP phone supports two installation methods, as shown in the figure below. You can choose slot A or slot B according to your habits and environment. Align the stand with the slot and push it to the top evenly, make sure it is fixed.

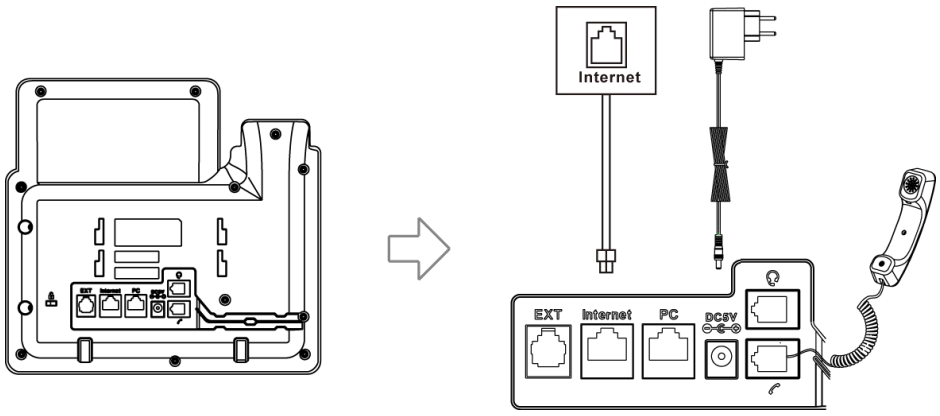


Step 2: Connecting power, Internet and handset

1) Connect the provided power adapter to the power port, and plug the other end of the adapter into an available power socket. After the power is connected, the LCD screen of the phone displays "Welcome, please wait...".

2) Connect one end of the Ethernet cable to the Internet port on the back of the SP-C64G/C64GP phone, and the other end to the network jack.

3) Connect one end of the Handset cord to the handle, and the other end to the Handset port, as shown in the figure below.



Note:

- Never use a power adapter other than the one provided with Dinstar SP-C64G/C64GP. Internet port supports POE.
- The connection of the phone to the PC and the extension is optional.

Step 3-Getting Started

After the phone is connected to the power and network, the phone will automatically start up and the common functions of the phone can be used normally (see section 3 for more details). You can customize more functions through the Web platform or settings (see section 4 & 5 for more details) .

3 Functions

3.1 Making a Call

3.1.1 Call Modes

You have the following three ways to make a call.

1) **Handset mode:** Pick up the handset, the icon will be displayed in the upper left corner of the screen. And then enter a number or select a contact.
2) **Speakerphone mode:** Press the **Speakerphone Key** , the icon will be displayed in the upper left corner of the screen. And then enter a number or select a contact.
3) **Headset mode:** Press the **Headset Key** after the headset is connected to the headset port. The icon will be displayed in the middle of the screen. And then enter a number or select a contact.

You can also enter a number first, and then choose the method you will use to speak to the other party.

3.1.2 Methods to Make Calls

Making a call from the Dialer

According to the number you input from the dial pad, the screen will display the previously saved contacts. You can select the contact you want to call from the list, or enter the number you wants to call directly.

Procedure

1) Do one of the following：
   - Enter the number from the dial
   - Select the line key to be called
   - First take off the handle or press the **Speakerphone Key** . and enter the number you want to call or select from the displayed contact list.
2) Press soft key **Send** or select **Dial Key** from keypad .

Note： You can set the dial key through ***Menu>Function>Dial Key***.

Making multiple calls

During the call, you can keep the current call and then make other calls.

Procedure

1) Do one of the following：
   - Select a line key to keep the current call.
   - Press the **Hold Key** to hold the current call.
2) Enter the number you want to call or select from the displayed contact list.
3) Press soft key **Send** or select **Dial Key** from keypad .

Making a call with Speed Dial Key

You can use speed dial keys to call frequently or difficult to remember numbers. The steps for setting the quick dial key are as follows:

Procedure

1) Navigate to ***Menu> Features> Programmable Keys***;
2) Select the **Line Keys.**
3) Pick a line key from the list
4) Press the **up** / **down** navigation key or the **Switch** soft key in the type bar to select **Speed Dial.**
5) (Optional) Enter the name that will be displayed on the screen in the label bar.
6) Enter the number that will be set as the speed dial in the value field
7) In the account field, select the account that is set as a speed dial key and used for outgoing calls.
8) Select the **Save** soft key to complete the setting.

Calling back the last call

You can use the redial key to quickly dial the last call.

Procedure

1) Navigate to ***Menu> Features> Programmable Keys***.
2) Select the **Line Keys.**
3) Pick a line key from the list
4) Press the **up** / **down** navigation key or the **Switch** soft key in the type bar to select **Redial**.

5) (Optional) Enter the name that will be displayed on the screen in the label bar.
6) Select the **Save** soft key to complete the setting.

Redial

The phone will save the record of calls. You can directly redial the number you have dialed.

Procedure

1) Press the **Redial Key** and the dialed calls list will be displayed on the screen.
2) Press the **up** / **down** navigation key to select the number you want to redial.
3) Select **Dial** soft key.

Tips: pressing the Redial key twice in succession will directly dial out the last called.

Making a call from the history list

You can call the number directly from the history list. The history record includes all dialed calls, received calls, missed calls, and forwarded calls.

Procedure

1) Select **History** soft key or navigate to ***Menu> History*****,** all call records will be displayed on the screen.
2) Press the **up** / **down** navigation key to select the number you want to redial.
3) Select **Dial** soft key.

Making a call from the contact list

You can call directly from the contact list

Procedure

1) Select the **Book** soft key or navigate to ***Menu> Book > Local Phone Book***.
2) Select the group or contact you want to call.
3) Select **Dial** soft key.

3.2 Answering the Call

Manually answer a call

The phone will ring when receiving an incoming call. You can answer the call manually.

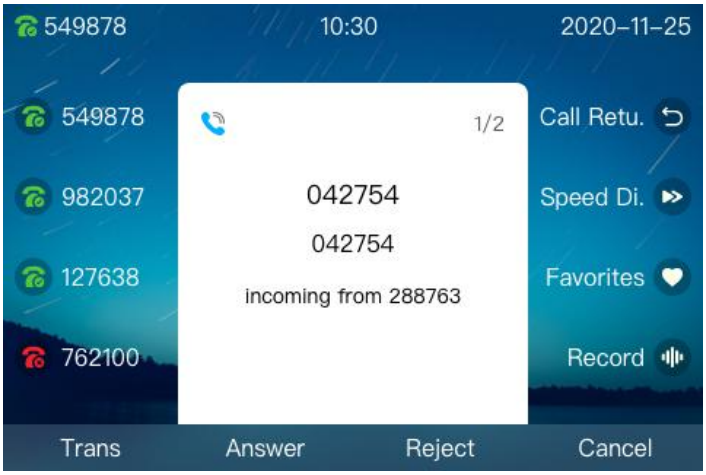
Procedure

Do one of the following:

- Pick up the handset to answer.
- Press the Speakerphone Key to answer.
- Press the Headset Key to answer.
- Press the Answer soft key or press the line keys that is flashing green. In this case, the speakerphone mode will be activated to answer incoming calls.

Answering a new incoming call

You can answer a new incoming call while you are on a call. When there is a new incoming call, the phone emits a "beep" and the screen shows the incom ing information, and the green light of the incoming line key flashes.



Procedure

After selecting the **Answer** soft key to answer the new call, the previous call is put on hold

Auto answer

When the phone is idle, you can enable the speakerphone mode to automatically answer incoming calls.

Procedure

1) Navigate to ***Menu> Settings> Advanced Settings (password: admin)***.

2) Select the account that you want to activate auto answer and click the **Enter** soft key.
3) In the auto answer bar, select **Enable** by the soft key **Switch**.
4) Select **Save.**

3.3 Silencing or Rejecting the Call

You can ignore or reject the call when you receive an incoming call.

Silencing call

If you ignore the incoming call, the phone will no longer ring, but the incoming call information is still displayed on the phone screen.

Procedure

Select the **Mute** soft key or press the **Mute Key** .

Manually reject calls

When the phone receives an incoming call, you can reject it. The rejected call will be displayed in the history of received calls.

Procedure

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

Using Do Not Disturb(DND) to reject all calls

If you don't want to be disturbed by incoming calls, you can use the Do Not Disturb function to automatically reject all incoming calls or all incoming calls from a specified account. For details, please refer to 3.7 Do Not Disturb> Enable Do Not Disturb in Default Mode..

Using the Do Not Disturb(DND) to reject all calls from a specified account

By default, the DND mode applies to all accounts. You can set the mode through the web system to enable the DND function of a specific account. For the specific configuration, please refer to 3.7 DND> Enable Do Not Disturb in Custom Mode.

3.4 Ending Calls

You can end the current call at any time.

Procedure

Do one of the following：

- If the phone works in handset mode , press the **Cancel** soft key or hang up the call.

- If the phone works in headset mode , press the **Cancel** soft key.
- If the phone works in speakerphone mode, press the **Speakerphone key** or press the **Cancel** soft key.

3.5 Mute

When you enable the mute function during a call, the other party will not receive your voice message, but you can.

Procedure

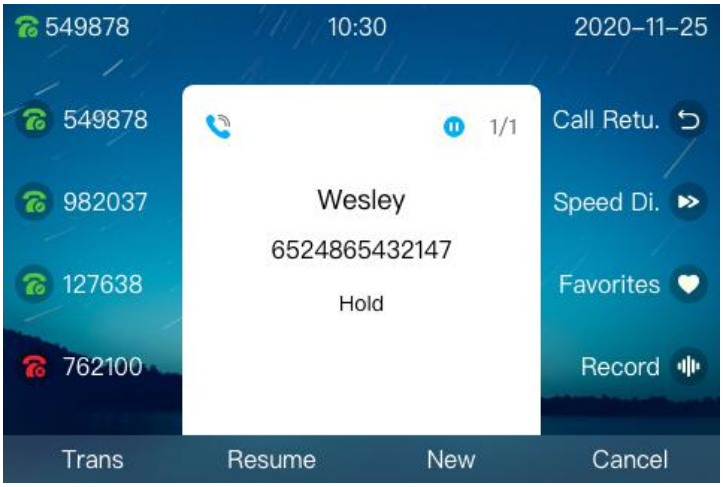
1) Press the **Mute Key** to enable the mute function, the other party will not hear you, but you can. At this time, the mute icon is displayed on the LCD screen, and the mute key lights up in red.
2) Press the **Mute Key** again to disable the mute mode.

3.6 Holding and Resuming Call

You can put a call on hold and resume the call at any time. The held party may hear the music sent from the PBX server while waiting.

Procedure

1) During the call, press the **Hold Key** or select the soft key **Hold.** At this time, the screen will flash the hold icon and information, and the hold key will be in red.



2) Press the **Hold Key** again or select **Resume,** the hold key LED is off and the call resumes.

Note： When there are multiple calls, you can switch to a different line call by pressing the corresponding line.

3.7 DND

If you don't want to be disturbed by incoming calls, you can set the DND function. The DND feature is applicable to all accounts and can also be directed to a specific account. And we also provide you with a DND Timer Enable.

The DND setting depends on the phone mode: phone mode or custom mode (the default is phone mode). In the phone mode, the DND function will be enabled for all accounts of the phone. in the custom mode, the DND function can be set for a specific account. Both the mode need to be set on the web system.

DND function is enabled in default mode

Procedure

Do one of the following：

- Select the soft key **DND**, the screen will display the DND icon in the middle of the screen .
- Navigate to ***Menu> Features> DND Code.***

1) Select to **Enter** soft key.
2) Select the **Switch** soft key to enable the DND function.
3) (Optional) Input the value in the area of On code and Off code.
4) Select **Save.**

After the setting is complete, the screen will display the DND icon, which will not change when switching between different accounts to the current default account.

DND function is enabled in custom mode

1、Setting custom mode on the Web page

You can log in to the phone with the account User, Navigate to Phone> Forward & DND , as shown in the figure below. Select the phone mode on this page, and click **Submit** to save the configuration.

2、Enabling DND for specific accounts

Procedure

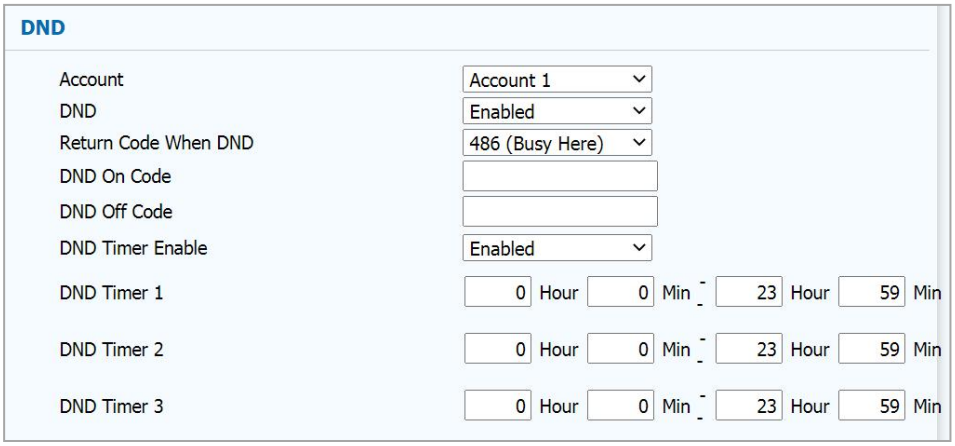
1) Navigate to ***Menu> Features> DND Code***.
2) Select an account.
3) Enable DND function.
4) (Optional) Input the value in the area of On code and Off code .
5) Select ***Save.***

When you use the up and down navigation keys to switch between different accounts as the default account, the account that has set the DND function will display the DND icon on the screen.

DND timer enable

You can enable the DND timer according to your work and rest habits, and reject all calls during the period you set. There are three sets .The ranges of the three periods can overlap.

Log in to the phone with the account User, navigate to Phone> Forwarding & DND, set DND Timer to Enable, then set the period, and finally select Submit to save the configuration.



Disabling DND

When you need to answer a call, you can disable the DND function.

Procedure

1) Navigate to ***Menu> Features> DND Code***.
2) Select a specified account or select all accounts.
3) Disable the DND function.
4) (Optional) Input the value in the area of On code and Off code
5) Select Save.

After the setting is completed, the DND icon will disappear from the screen.

3.8 Call Waiting

You can enable the call waiting function so that you can answer new calls during the call, otherwise, the new call will be automatically rejected and a busy tone will be displayed. You can enable the call waiting tone function at the same time. When you receive a new call during a call, The phone will emit a "beep" tone to indicate a new call.

Procedure

1) Navigate to ***Menu> Features> Call Waiting.***
2) Select to **Enable** call waiting.
3) (Optional) Select to **Enable** tone.
4) Select **Save**.

3.9 Call Completion

When you fail to call out, you can use the call completion function to monitor the called party and re-establish the call when the called party is free.

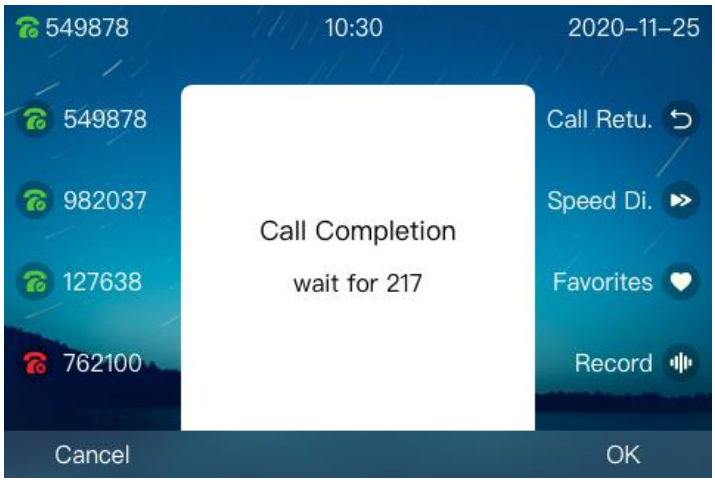
Note: Not all servers support the call completion. Please consult your system administrator for further information.

Procedure

1) Navigate to ***Menu> Features> Call Completion.***
2) Enable call completion.
3) Choose ***Save***.

When you initiate a call and the called party is busy and does not answer, the screen prompts you whether to wait for the called party, select OK to activate the call completion function.

When the called party is idle, the screen prompts you whether to initiate a call. Selecting OK will initiate the call again.



3.10 Call Forward

When you cannot handle the incoming call in time, you can forward the incoming call to an available number.

Setting the type of forwarding calls:

Always Forward: All incoming calls will be automatically forwarded to the pre-designated number

Busy Forward: When the phone is busy, the incoming call will be forwarded to the pre-designated number

No Answer Forward: When the phone does not answer within the set time, the incoming call will be forwarded to the pre-designated number.

Forwarding all calls

After enabling call forwarding, you can forward all incoming calls on the phone. The activation method is as follows:

Note: Some servers need to set the enable code and the disable code for call forwarding. Please consult your system administrator for further information.

Procedure

1) Navigate to ***Menu> Features> Call Forward***.
2) Select a call forwarding type, and then select **Enable** in the active bar.
3) Enter the number to be forwarded in the forward to area.
4) If you choose no answer forward, enter the time in the timeout bar.
5) (Optional) Input the value in the area of On code and Off code.
6) Select **Save.**

After configuring call forward, the call forward icon is displayed on the screen.

Forwarding the call to the designated account

By default, enabling call forwarding applies to all accounts. You can enable call forwarding for specific account by setting the phone mode.

① Setting the custom mode on the Web page

You can log in to the Web with the account user, navigate to ***Phone> Forwarding & DND***, set the phone mode to Custom , and select Submit to save the configuration.

② Setting call forward for designated account on the phone

Procedure

1) Navigate to ***Menu> Features> Call Forward***.
2) Select a call forwarding type, and then select **Enable** in the active bar.
3) Select an account.
4) Enter the number to be forwarded in the forward to area.
5) If you choose no answer forward, enter the time in the timeout bar.
6) (Optional) Input the value in the area of On Code and Off Code.
7) Select ***Save.***

After configuring call forward, the call forward icon is displayed on the screen.

Disabling call forward.

When you no longer need to forward incoming calls, you can choose to disable the call forwarding.

Procedure

1) Navigate to ***Menu> Features> Call Forward.***
2) (Optional) If the call forward works in a custom mode, you need to select an account.
3) Select the call forwarding type, and then select **Disable** in the active bar.
4) Select **Save.**

Forwarding a call by hand

You can also select the soft key Forward to forward the call to someone else when the call is ringing.

1. Using the soft key Forward

Procedure

1) When the phone is ringing, select the soft key **Forward.**
2) Enter the number to be forwarded or select the number from the book.
3) Press the ***OK key*** .

Incoming calls forwarded will be marked as forwarded calls in the call history.

2、Using the forward button

Procedure

1) When the phone rings, select the call forward key .
2) Enter the number to be forwarded or select a number from the book.

3) Press the OK key .

Incoming calls forwarded will be marked as forwarded calls in the call history.

3.11 Call Transfer

You can transfer calls to other during a call. There are the following three transfer methods:

Blind transfer: Transfer the call to a third party directly without prior notice.

Semi-Attended Transfer: When you hear the back tone, transfer the call to a third party.

Attended Transfer: After the third party answers the call and consults, the call is transferred to the third party.

3.11.1 Blind Transfer

You can transfer directly without notifying the third party, as follows:

Procedure

1) Press the soft key ***Trans*** during the call.
2) Enter the number to be transferred or select a number from the book.
3) Press the soft key ***Trans*** again.

Note: If the phone works in handle mode, you can directly put the handle back to complete the transfer.

3.11.2 Semi-Attended Transfer:

You can transfer the call to the third party after hearing the back tone.

Procedure

1) Press the soft key **Trans** during the call.
2) Enter the number to be transferred or select a number from the book.
3) Press **OK key** or **Send** soft key.
4) After hearing the ring back, press the soft key **Trans** again to complete the semi- attended transfer.

Note: You can directly put the handle back to complete the transfer in the handset mode.

3.11.3 Attended Transfer

You can transfer the call to the third party after hearing the back tone.

Procedure

1) Press the soft key **Trans** during the call.
2) Enter the number to be transferred or select a number from the book.
3) Press **OK key** or **Send** soft key.
4) After the third party answers and consults, press the soft key **Trans** again to complete the attended transfer

Note: You can directly put the handle back to complete the transfer in the handset mode.

3.12 Conference Calls

The phone supports the creation of three-party local conferences and multi-party network conferences.

During the conference, please follow the suggestions below:

- If you are attending the conference in public, please use the handset or headset mode.
- Please switch to mute mode when you are not speaking in the meeting
- Avoid knocking near the microphone or close to electronic equipment.
- Please speak at a normal volume.
- Adjust the microphone direction appropriately when there are harsh sounds in speech.

3.12.1 Local Conference

You can establish a three-party (including local) conference with your contacts.

Creating a local meeting

Procedure

1) Call the first party.
2) After the first party answers, press the soft key **New** or press the **Three-party-calling** key to start creating a new call.
3) Enter the number of the second party or select the number from the book and call out. The call of the first party is now on hold.

4) After the second party answers the call, press the soft key Conference or press the **Three-party-calling** key again to start a three-party conference.

Merging two calls into a conference

You can merge a on hold call with the current call to form a three-party conference call.

Procedure

1) Create two calls.
2) Select the call you want to create a conference, and ensure that the call is available .
3) Press the **Three-party conference** key to start .

Holding or resuming a conference call

When you hold a conference call, the participants in the conference cannot hear the other party until you resume the conference call.

Procedure

1) Press the **HOLD key** or press the soft key **Hold** to keep the current conference call.
2) Press the **HOLD key** again or press the soft key **Resume** to resume the current conference call.

Muting or unmuting a conference call

The microphone is turned off when you mute a conference call, and other parties cannot hear your.

Procedure

1) Press the **MUTE key** to turn on mute during the conference.
2) Press the **MUTE key** again to unmute.

Splitting a conference call

You can split the current conference call into independent calls. After splitting, the conference call ends, other participants are on hold.

Procedure

In the conference, select the soft key **Separate** or press the **Three-party conference key** again to end the conference and split the participants into two calls.

Ending conference call

During the meeting, you can manually end the meeting at any time. If you end the conference call, the conference of other participants will also end .

Procedure

Select the soft key Cancel or hang up the handset when using the handset or press the Speakerphone key in the Speakerphone mode to end the conference call.

3.12.2 Network Conference

If your administrator has set up the network conference function for your phone, you can create a multi-party network conference locally.

Create a network conference

Procedure

1) Call the first party.
2) After the first party answers, press the soft key **New** or press the **Three-party conference key** to start creating a new call.
3) Enter the number of the second party or select the number from the book and call out. The call of the first party is on hold now.
4) After the second party answers, press the soft key **Conference** or press the **Three-party conference key** again to start a three-party conference.
5) Select the soft key Conference again to invite other members. The conference call is on hold now.
6) Enter the invited number or select the number from the book and call out.
7) After the new member answers, select the Conference again and add the new .
8) Repeat steps 5-7 to add more members.

Note: The method of creating a multi-party conference may vary depending on the server. Please consult your administrator for more information.

3.13 Call Park

You can use the call park function to save the current conversation, and then resume the call on another. According to different parking modes, it can be divided into code mode and call transfer mode.

Note: Not every server supports call park and the support methods are also different. Please contact your administrator to confirm whether this feature is available.

3.13.1 Call Park and Call Retrieve

Parking a call in the park code mode

You can use this feature to park a call, and then retrieve the call either from your phone or another phone. After you park a call, the call is placed on hold, you can continue the conversation after retrieving it.

Procedure

1) Make a call.
2) During the call, the parked party enters the park code on the keyboard and sends it.
3) Hang up the call after listening to the park number. At this time, the other party is on hold.
4) On another phone, enter a park code or an extension number and send.
5) Resume the parked call on the new phone.

Note: The above steps will be slightly different according to the different server implementation. If you need this feature, please confirm with your administrator.

Parking a call in the transfer mode

You can park the call at the location specified by the server by transferring the call.

Procedure

1) Navigate to ***Menu> Features> Programmable Keys> Line Keys/ Soft Keys/ Function Keys***
2) (Take line keys as an example) Select a line key and then select **Enter**, select **Call Park** in the type bar.
3) (Optional) Enter the information displayed on the screen in the label bar.
4) Enter the park code + extension number in the value area.
5) Select **Save.**

3.14 Pickup

You can use the pickup feature to answer calls from others. There are following two pickup mode:

Directed Pickup: Answer incoming calls from designated number.

Group Pickup: Pickup calls from any member in the same group. Group pickup needs to set up group members in advance.

3.14.1 Directed Pickup

You can answer incoming calls from a designated number.

Procedure

1) Navigate to ***Menu> Features> Programmable Keys> Line Keys/ Soft Keys/ Function Keys*** and select the soft key **Enter.**
2) (Take the line keys as an example) Select a line key and then select **Enter,** and select **Pickup** in the type bar.
3) (Optional) Enter the information displayed on the screen in the label bar.
4) Enter the pickup code in the value area and the account to be picked
5) Select **Save.**

When the designated number receives an incoming call, press the pickup key to allow the user's incoming call to be answered on your phone.

3.14.2 Group Pickup

You can answer an incoming call in the same group. If the group receives multiple incoming calls, it will answer the first by default.

Procedure

1) Navigate to ***Menu> Features> Programmable Keys> Line Keys/ Soft Keys/ Function Keys*** and select the soft key ***Enter.***
2) (Take the line keys as an example) Select a line key and then select **Enter**, and select **Group Pickup** in the type bar.
3) (Optional) Enter the information displayed on the screen in the label bar.
4) Enter the group pickup code in the value bar.
5) Select **Save.**

When there is an incoming call in the group, press the group pickup key to make the incoming call in the group be answered on your phone.

3.15 Speed Dial

You can use the speed dial to quickly dial the specified number.

Procedure

1) Navigate to ***Menu> Features> Programmable Keys> Line Keys / Soft Keys / Function Keys.***
2) (Take the line keys as an example) Select a line key and then select **Enter,** and select **Speed Dial** in the type bar.
3) (Optional) Enter the information displayed on the screen in the label bar.
4) Enter the number in the value area.
5) The account bar is to select a account to make a call.
6) Select **Save**.

Press the speed dial key when the phone is idle, and the selected account will automatically dial the preset number.

3.16 Auto Redial

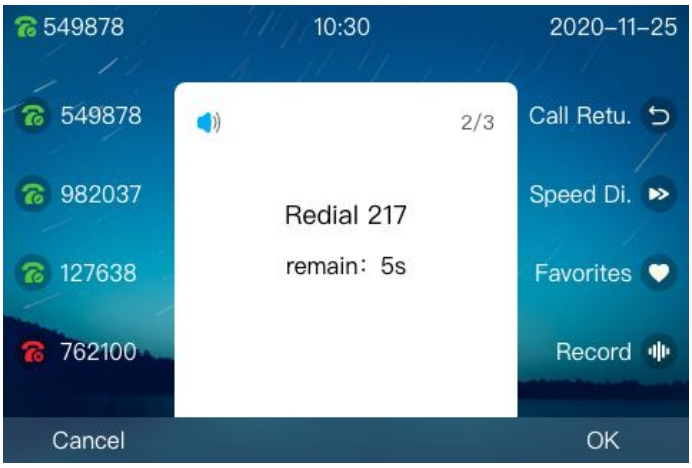
You can use the automatic redial feature when the called party does not answer.

Note: Not all servers support the auto redial feature. Please consult your administrator for further information.

Procedure

1) Navigate to ***Menu> Features> Auto Redial***.
2) Select enable in the active bar. fill in the time in the interval area. fill in the number of redial in the times bar.
3) Select **Save.**

After the phone call fails, an automatic redial countdown prompt will appear on the screen. You can press the OK key OK to redial or wait for the countdown to finish.



3.17 Intercom

You can make an intercom call to a contact. When receiving an intercom call, the phone will emit an alert tone and automatically answer it in Speakerphone mode. The intercom feature is mainly used as the configuration of the receiver.

Procedure

1) Navigate to ***Menu> Features> Intercom***.
2) Select **Enable** in the active bar.
3) (Optional) Select **Enable** in the mute bar.
4) Select **Save.**

If the intercom mute is enabled on the phone, that is, the automatically answered intercom call is in the mute, the mute icon is displayed on the screen, and the mute key lights up in red. You must press the Mute key to cancel.

When supported by the server, you need to dial the code of the intercom feature + the extension number of the other party to initiate an intercom call. Take a 3CX server as an example: dial *998100, where *998 is the intercom code, and 100 is the extension number. For the codes of the intercom feature of other servers, please refer to the configuration guide documents of the servers.

3.18 Hot Desking

You can press the Hot Desking key to clear the registration information of all accounts on the phone when the phone is idle. Then register the account you want to. Through this function, more users can share this phone at different period. Especially suitable for some public places.

Note: Not all servers support Hot Desking, please consult your administrator for further information.

Procedure

1) Navigate to ***Menu> Features> Programmable Keys> Line Keys / Soft Keys / Function Keys.***

2) (Take the line keys as an example) Select a line key and then select **Enter**, and select **Hot Desking** in the type bar.
3) (Optional) Enter the information displayed on the screen in the label bar.
4) Select **Save**.

When you presses the Hot Desking key, the phone screen will prompts "Whether to clear all account configurations", select Clear to enter the account configuration. For further information, please refer to ***Menu > Settings > Advanced Settings > Account*** .

3.19 XML Browser

The XML browser allows users to deploy custom services on the server. Users can quickly access it using the XML browser key. This feature requires pre-configuration of custom services on the server, such as news, weather reports, and inventory information. These information will be received from the server and displayed on the screen, and all information will be transmitted in the form of XML.

Procedure

1) Navigate to ***Menu> Features> Programmable Keys> Line Keys / Soft Keys / Function Keys.***
2) (Take the line keys as an example) Select a line key and then select **Enter**, and select **XML browser** in the type bar.
3) (Optional) Enter the information displayed on the screen in the label bar.
4) Enter the source path of the XML file in the value field.
5) Select **Save**.

When the phone is idle, press the XML browser key to access the XML browser specified.

3.20 Call Recording

The device sends a SIP INFO message with the " Record: on/off " header to trigger the server to record the call. The call recording will be saved on a server that supports the recording feature.

Note:

1). Not all servers support the call recording feature, please consult your administrator for further information.

2). Before recording calls, especially those involving analog telephone, you must understand all the rules and restrictions governing call recording in your country.

3). Similarly, before recording, inform all the callers that you are recording and obtain their consent.

Procedure

1) Navigate to ***Menu> Features> Programmable Keys> Line Keys.***
2) Select **Record** in the type bar.
3) (Optional) Enter the information displayed on the screen in the label bar.

Press the record key during a call. If recording successfully, the LCD screen displays the icon . Press the record key again to stop recording. The recording icon on the screen disappears, and the record key LED stops flashing.

Manage recording: (Take the 3cx professional as an example) In the 3CX management console, the recording feature can help you search, manage, download and delete call

recordings, and you can set the amount of recording and the time for automatic cleaning of call recordings.

3.21 Keypad Lock

You can use the keypad lock to ensure that your phone is not used by unauthorized users, or avoid misoperation. Once you lock the phone, anyone must enter the password to unlock the phone. You can choose the lock type: function key or all keys.

Function keys: The function keys are locked. The line key, information key, soft key, navigation key, redial key, mute key, volume key, hold key, transfer key, speakerphone key, and headset key must be unlocked before they can be used.

All keys: All keys are locked. Until the PIN code prompt appears, the keyboard can be used.

The keypad lock function can only be configured through the web system.

Log in to the Web with the administrator account **Admin** (password: admin) and navigate to ***Phone> Keys> Keypad Lock***. Select the type of keypad to be locked, set a password in the Keypad Unlock PIN field, and the Keypad Lock Timeout is used to set the delay time when not operating.

When the keypad lock is enable, the lock icon will be displayed on the screen of the phone. Anyone needs to enter a password to unlock the keyboard. If the password is wrong, a prompt "Wrong password!" will be displayed.

3.22 BLF

The line can be monitored with the BLF key. The status of the LED indicator of the BLF key is as follows：

LED indicator	**description**
Solid green	The monitored line is idle.
Solid red	The monitored line is dialing. The monitored line is talking.
Fast- flashing red	The monitored line receives an incoming call

Off	The monitored line does not exist.

Our phone supports three types of BLF: BLF/New Call. BLF/BXFER. BLF/AXFER.

BLF/New Call: This type is when the monitored line is idle, pressing the BLF key will make a new call to the monitored line.

BLF/BXFER: This type is to blindly transfer the current call to the monitored line when the line is idle.

BLF/AXFER: This type is to attended transfer the current call to the monitored line when the line is idle.

3.22.1 Setting a BLF Key

The line key can be set to BLF key to monitor the line status.

Procedure

1) Navigate to ***Menu> Features> Programmable Keys> Line Keys***.
2) Select the type of BLF in the type bar: BLF/New Call. BLF/BXFER. BLF/AXFER.
3) (Optional) Enter the information displayed on the screen in the label bar.
4) Enter the number to be monitored in the value bar.
5) (Optional) Select the account used for answering in the account bar.
6) (Optional) Enter the extension code in the extension bar.
7) Select Save.

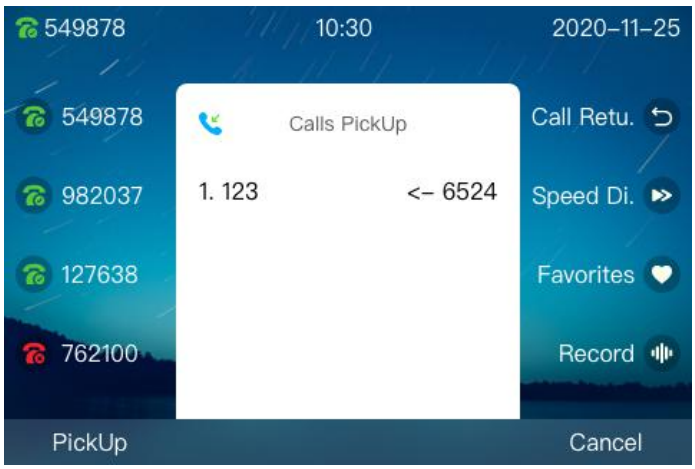
After the BLF key is successfully configured, the server will notify the phone through a NOTIFY message after the status of the monitored line changes.

3.22.2 Picking Up a Call by BLF Key

If you configure the pickup account and pickup code of the BLF key, when the monitored line receives an incoming call, you can answer the incoming call on your phone, avoiding missing important calls.

Procedure

1) When the monitored line receives a call.
2) If BLF pickup is enabled , the display as follows.



3) Select the Pickup, the phone can pickup calls from the monitored line.

3.22.3 Blind Transfer a Call by BLF Key

If the type is BLF/BXFER for BLF key. Then the current call can be blind transfer when the monitored line is idle. and the blind transfer is not performed when the monitored line is not idle.

Procedure

1) Answer the incoming call.
2) If the phone needs to transfer the call to the monitored line, first check whether the monitored line is free.
3) Press the **BLF** key to blind transfer.
4) The monitored line can continue to talk.

3.22.4 Attended Transfer a Call by BLF Key

If the type is BLF/AXFER for BLF key. Then the current call can be attended transfer when the monitored line is idle. and the attended transfer is not performed when the monitored line is not idle.

Procedure

1) Answer the incoming call.
2) If the phone needs to transfer the call to the monitored line, first check whether the monitored line is free.
3) Press the **BLF** key to attended transfer.
4) The monitored line can continue to talk.

3.23 BLF List

You can set the line key to be a BLF list to monitor a group of users managed by the system administrator, The status of the LED indicator of the BLF list is as follows：

LED indicator	description
Solid green	The monitored line is idle.
Solid red	The monitored line is dialing. The monitored line is talking.
Fast - flashing red	The monitored line receives an incoming call
Off	The monitored line does not exist.

Procedure

1) Navigate to ***Menu> Features> Programmable Keys > Line Keys***.
2) Select the **BLF** list in the type bar.
3) (Optional) Enter the information displayed on the screen in the label bar.
4) (Optional) Select the account used for pickup in the account bar.
5) Select Save.

When the monitored line receives the call, the phone can answer the call by pressing the BLF list

Note: Not all servers support the BLF list. Please consult your system administrator for further information.

3.24 Automatic Call Distribution (ACD)

The ACD feature is often used in customer service centers, such as call centers. The ACD system can handle a large number of incoming calls. These calls do not need to talk to a person, but they need to be handled or helped by any operator as soon as possible. The ACD feature is that the ACD system automatically allocates incoming calls to users who log in to the ACD system according to specific rules and strategies. ACD is disabled on the phone by default. You need to configure the line key to be an ACD so that the phone can log in to the ACD system and process the calls assigned by the system. The status of the LED indicator of the ACD is as follows：

LED indicator	description
Solid green	The ACD user is online and logged in
Solid red	The ACD user is dialing.

	The ACD user is talking.
Fast flashing green	The ACD user is offline
Off	The ACD user is logged out

Procedure

1) Navigate to ***Menu> Features> Programmable Keys> Line Keys*** .
2) Select ACD in the type area.
3) (Optional) Enter the information displayed on the screen in the label bar.
4) Select the account used to log in to the ACD system in the account bar.
5) Select Save.

Configuration completed, you can press the ACD key to log in to the ACD system to answer the assigned call.

3.25 Call Return

You can make the last call through the call return key.

Procedure

1) Navigate to ***Menu> Features> Programmable Keys > Line Keys***.
2) Select call return in the type bar.
3) (Optional) Enter the information displayed on the screen in the label bar.
4) Select Save.

After the call return key is configured, press the call return key on the phone to automatically dial the last call.

3.26 Messages

The phone provide voice messages and text message communication methods. The text message supports sending new messages, receiving messages in the inbox, saving the sending messages in the outbox, and saving the editing information in the draft box. The messages that have been sent are saved. The voice message supports the configuration of different voice mailbox numbers for different accounts, the default is: *170*2#. and the voice message on the server can be obtained through subscription messages.

Note: Not all servers support the voice message. Please consult your system administrator for further information.

3.26.1 Text Message

Text messages can be stored in the inbox, sent messages, outbox, and draft box, each of which can store 100 text messages. If the number of text messages exceeds, the phone will delete the farthest text message.

Reading a text message

You can read text messages through the inbox.

Procedure

1) Navigate to ***Menu> Message> Text Message> Inbox.***
2) Select the text message you want to view, and then select Enter.

Note: When the screen prompts you to receive a new text message, you can press the View soft key to read it.

Sending a text message

Procedure

1) Navigate to ***Menu> Message> Text Message > New Message.***
2) Edit messages.
3) Select **Send** and fill in the number in the To bar.
4) Select **Send**.

Replying a text message

You can reply a text message after you have read it.

Procedure

1) Navigate to ***Menu> Message > Text Message> Inbox***.
2) Select the text message you want to view, and then select Enter.
3) Select **Reply** soft key.
4) Edit the content of the text message.
5) Select **Send** and enter the number.
6) Select **Send** again.

Deleting a text message

You can delete the message you have read.

Procedure

1) Navigate to ***Menu> Message> Text Message> Inbox (Sent Message***, **Outbox or Draft)**.
2) Select the message to be deleted.

3) (Optional) In step 2, you can select to **Enter**. When the message is confirmed to be deleted, select **Delete** to delete the message.
4) Select **Delete** to enter the delete option.
5) Select **Delete Single** or **Delete All**.

3.26.2 Voice Message

With the voice mail function, you can leave a voice message to someone or listen to your voice mail on your phone (not all servers support this function).

Setting the voice message code

Before viewing or listening to your voice message, you need to set the voice mail access code in advance (the code default: *170*2#).

Procedure

1) Navigate to ***Menu> Message> Voice Message Setting***.
2) Select the account and set the voice code of each account.
3) Select **Save**.

voice message

When the called number is busy or not answering, you can leave a message to the contact.

Procedure

1) Leave a message for someone according to the voice prompt.
2) Follow the voice prompts to save the message or hang up the call.

Listening to voice message

You can view and listen to voice messages on the phone.

Procedure

1) Navigate to ***Menu> Message > Voice Message> Voice Message view***.
2) The phone will list the message of all accounts.
3) Select an account with new messages.
4) Select **Connection**.
5) The phone will connect to the voice server by access code.
6) Follow the voice prompts to complete the message listening.

Note: When the screen show you to receive a new message, you can press the View soft key to listen to the new voice message.

4 Settings

4.1 Basic settings

This part mainly guides users how to complete the settings of related functions and features of the phone through the interactive interface, which is convenient for users to customize services.

You can complete the basic configuration of the phone through ***Menu> Settings> Basic Settings.***

4.1.1 Language

The phone provides you with multiple language support, you can change the language through the following methods:

a) Selecting the initial language after resetting to factory

After the administrator reset to factory of your phone, the initial language selection will be displayed on the screen. At this time, select the language you need and click the OK key

. The phone will use the language you selected.

b) Changing language through language setting

Navigate to ***Menu> Settings> Basic Settings> Language***, select the language and select **Save**.

4.1.2 Date & Time

The IP phone displays the time and date in the idle. You can set the time and date to be updated automatically from the SNTP server, or you can set the time and date manually.

To configure the SNTP settings via phone user interface:

Procedure

1) Navigate to ***Menu> Settings> Basic Settings> Date & Time> SNTP Settings.***

2) Press the left / right key or the **Switch** soft key to select the time zone suitable for your area. The default time zone is "+8 China (Beijing)".
3) Enter the domain name or IP address of the NTP server in the primary server and secondary server respectively.
4) (Optional) The daylight saving time automatic mode is enabled by default. if you don't need it, you can choose to disable it.
5) Press the **Save** soft key to save the setting.

To configure the time and date manually via phone user interface:

Procedure

1) Navigate to ***Menu> Settings> Basic Settings> Date & Time> Manual Settings.***
2) Enter the date and time.
3) Press the **Save** soft key to save the settings, and the time and date displayed on the phone screen will be changed.

To configure the date and time format via phone user interface:

Procedure

1) Navigate to ***Menu> Settings> Basic Settings> Date & Time> Format Settings.***
2) Press the left / right key or the **Switch** soft key to select the time format (12-hour system or 24-hour system).
3) Press the left / right key or the **Switch** soft key to select the date format.
4) Press the **Save** soft key to save the setting.

The date displayed on the screen will vary depending on the date forma. There are six date formats on the phone is displayed as follows:

Data Format	Example(2018/12/24/Mon)
YYYY-MM-DD	2018-12-24
YYYY/MM/DD	2018/12/24
DD-MM-YYYY	24-12-2018

DD/MM/YYYY	24/12/2018
WW-DD-MM	Mon 24 Dec
WW-MM-DD	Mon Dec 24

Note: When 'Display Mode Setting' is 'Enabled', the time and date displayed on the LCD screen will change accordingly.

To configure the display mode via phone user interface:

Procedure

1) Navigate to ***Menu >Settings > Basic Setting >Date & Time >Display Mode Setting.***
2) Press Left / Right key, or the **Switch** soft key to select the desired display mode (Disabled/ Day/ Date/ Day Date) from the Display Mode field.
3) Press the **Save** soft key to accept the change or the Back soft key to cancel.

4.1.3 Ring Tones

The ring tone refers to incoming ring tone, which reminds the user that there is an incoming call. The ring tone of IP phone SP-C64G/C64GP can be set to distinguish from other phones' ring tones. at the same time, the IP phone SP-C64G/C64GP also supports setting specific incoming ring tone for different contacts.

To configure the ring tone via the phone user interface:

Procedure

1) Navigate to ***Menu ->Settings ->Basic Setting ->Ring Tones.***
2) Press the Up / Down key to select the desired ring tone.
3) Press the **Save** soft key to accept the change or the **Back** soft key to cancel.

4.1.4 Phone Volume

The Volume key can be used to adjust the volume of handset, speakerphone or headset during a call. The key can also be used to adjust the volume of ring tones when the phone is idle.

Adjust the volume via the phone interface, Press ***Menu ->Settings ->Basic Setting ->Phone Volume.*** In the Volume Setting interface, access the Handset Volume, Handfree Volume or Headset Volume, then press the + or - soft key or Left / Right key to adjust the volume. Press the **Save** soft key to save the configuration or press the **Back** soft key to cancel.

4.1.5 Backlight

You can set the brightness (level) of the screen backlight and its duration.

Procedure

1) Navigate to ***Menu >Settings >Basic Setting >Backlight.***
2) Press the Right / Left key to select a level for the backlight, and press the down key to set duration. Press the Right / Left key to select a value for duration.
3) Press the **Save** soft key.

4.1.6 Screensaver

When the phone is in standby for a period of time, the screen will automatically enter the screensaver. You can press any key to exit the screensaver, or you can set the screen saver time.

Procedure

1) Navigate to ***Menu> Settings> Basic Settings> Screensaver***.
2) Press the left / right key or the **Switch** soft key to select the time.
3) Select **Save**.

4.2 Phone Book

The phone supports a variety of phone books to save contact information, including: local phone book, remote phone book, LDAP and Broad Soft phone book.

4.2.1 Local Phone Book

The Local Phone Book is used for storing the contacts names and number. The SP-C64G/C64GP IP Phone can store up to 1000 entries contacts and 10 groups in your phone's local phone book. You can add, edit, delete, search, or call any contact from the Local Phone Book.

Adding groups to the Local Phone Book:

Procedure

1) Press **Phonebook** key or navigate to ***Menu > Book***.
2) Select **Local Phone Book** and press the **OK** key or the **Enter** soft key to enter the Local Group interface.
3) Press the **Add** soft key.
4) Enter the desired group name in the Group Name field. Press Left / Right key, or the **Switch** soft key to select the desired group ring tone from the Ring Tones field. If Auto is selected, this group will use the ring tone assigned.
5) Press the **Save** soft key to accept the change or the **Back** soft key to cancel.

Editing a group in the Local Phone Book:

Procedure

1) Press **Phonebook** key or navigate to ***Menu > Book***.
2) Select **Local Phone Book** and press the **OK** key or the **Enter** soft key to enter the Local Group interface.
3) Select the desired contact group.
4) Press the **Option** soft key and then select **Detail** from the display list.
5) Press Left / Right key, or the **Switch** soft key to select the desired group ring tone from the Ring Tones field. If Auto is selected, this group will use the ring tone assigned to the account.
6) Press the **Save** soft key to accept the change or the **Back** soft key to cancel.

Adding contact manually

Procedure

1) Press **Phonebook** key or navigate to **Menu > Book >Local phone book.**
2) Select the group (For example: contacts) and press the **OK** key or the **Enter** soft key to enter the relevant group interface.
3) Press the **Add** soft key to enter the Add Contact interface.
4) Enter the name and the office, mobile or other numbers in the corresponding fields.
5) Press Left / Right key, or the **Switch** soft key to select the desired ringtone, group, account from the corresponding fields.
6) Press the **Save** soft key to accept the change or the **Back** soft key to cancel.

Adding contacts from All Calls History

Procedure

1) Press the **History** soft key and then select a history from the display list.
2) Press the **Option** soft key and then select **Add to Contacts** from the display list.
3) Press **OK** soft key or **OK** key to enter the Add Contact interface.
4) Press the **Save** soft key to accept the change or the **Back** soft key to cancel.

Searching Contacts

Procedure

1) Navigate to ***Menu > Book***.
2) Select the **Local Phone Book**, Press the **OK** key on the phone or the **Enter** soft key to enter the Local Phone Book.
3) Press the **Search** soft key to search contacts.

4) Input keywords such as name, any character of number or whole phone number, press the **Search** soft key or the **OK** key to enter the Search Contacts interface.

5) The desired contact in the list of displayed results.

4.2.2 Blacklists

SP-C64G/C64GP IP phone supports 100 blacklists. You can add, edit, delete, search or call a contact. Any call from the number in the blacklists will be rejected.

Putting a number into Blacklist:

Procedure

1) When the IP phone is idle, press ***Book > Blacklist > Add.***
2) Fill in the phone number.
3) Press the **Save** soft key.

4.2.3 Remote Phone Book

Access the remote phone book, add the contacts to the local phone book from the remote phone book or make calls from the remote phone book. 5 URLs of remote phone book is available to set.

Configuring the remote phone book via Web interface:

Procedure

1) Navigate to ***PhoneBook -> Remote Book***.
2) Input URL of phone book in Local Book URL field.
3) Input the phone book name in Local Book Name field.
4) Click the **Submit** key to submit.

Accessing the remote phone book via phone interface:

Procedure

1) Navigate to ***Book >Remote Phone Book.***
2) Select the relevant Remote Group and press the **Enter** soft key. The phone will load the remote group information, and the LCD will display the contacts of this remote group.
3) Press the **Back** soft key to unlink.

4.3 History Management

The call history list includes dialed calls, received calls, missed calls and forwarded calls and support 100 logs storage at most. You can check the history, make calls from the calls history and delete the calls history.

Accessing the History via phone interface:

Procedure

1) Press the **History** soft key, the screen will display all the recent calls.
2) Press the Left / Right key to switch the lists of All Calls, Dialed Calls, Received Calls, Missed Calls and Forwarded Calls.
3) Press the Up / Down key to select the log.
4) Press the **Option** soft key and select the **Detail**. The screen will display the detailed information of this log. Press the **Dial** soft key, to make a call from the history. Press the **Option** soft key to add to contacts(Move to Blacklists) from the history. Press the **Delete** soft key to delete calls log from the history. Press the **Option** soft key to select "Delete All" to delete all the call logs from the history.

4.4 Customizing your phone

4.4.1 Programmable Keys

Setting programmable keys via the phone interface

Procedure

1) Navigate to ***Menu >Features > Programmable Keys***;
2) Select the programmable key you will set and press the **Enter** soft key;
3) Select key style in the type area;
4) Input suitable value in the label area.
5) (Optional) Select the relevant account in the account ID area;
6) (Optional) Input suitable value in Value area;
7) Select the **Save** soft key to save or the **Cancel** soft key to cancel.

4.4.2 SIP Account Management

You can register one SIP account or multi-account for your phone, but also can set one or two SIP servers for one account.

Registering an account：

Procedure

1) Navigate to ***Menu> Settings> Advanced Settings (password: admin)***> ***Account.***
2) Select the account you want to set and press the **Enter** soft key；
3) Select “Enable” in the active area；
4) Input the label, display name, register name, user name, password and SIP server separately；
5) Press the **Save** soft key to save or the **Back** soft key to cancel；
6) Repeat step 2 to 5 to finish all the account register.

Disabling an Account

Procedure

1) Navigate to ***Menu > Settings > Advanced setting (password: admin) >Account***
2) Select the account you want to disable and press the **Enter** soft key.
3) Select “Disable” in the account active area.
4) Press the **Save** soft key to save or the Back soft key to cancel.

Note: Refer to the above steps for other SIP account registration.

4.5 Basic Network Settings

Through the Basic Network setting, you can set the IP Phones to get the IP address by three ways：DHCP, static IP and PPPoE, also can set the VLAN.

4.5.1 LAN Mode

Setting the LAN mode

Procedure

1) Navigate to ***Menu > Settings > Advanced Settings (password: admin) > Network > LAN Port > LAN Mode***.
2) Press the up / down keys to select the "IPv4" or "IPv6" .

3) Press OK to save.

Note: you need to reboot to take effect after modifying.

4.5.2 DHCP Mode

Configuring the DHCP Mode:

Procedure

1) Navigate to ***Menu > Settings > Advanced Setting (password: admin) > Network > LAN Port > IPv4 / IPv6.***

2) Press the Up / Down key on the phone keyboard to select DHCP (default is DHCP).

3) Press the ***Enter*** soft key or the OK key to enter the DHCP switch interface, it will auto return to last interface after seconds.

4.5.3 Static IP Mode

Configuring the Static IP Mode:

Procedure

1) Navigate to ***Menu > Settings > Advanced Setting(password: admin) > Network > LAN Port > IPv4 / IPv6.***

2) In the LAN Port interface, press the Up / Down key to select Static IP, then Press the OK key or the Enter soft key to enter Static IP Setting interface.

3) Input the IP address, Subnet mask, Gateway, DNS 1 and DNS 2 in the corresponding area.

4) Press the OK key or the Save soft key to save.

4.5.4 PPPoE Mode

Configuring the PPPOE Mode:

Procedure

1) Navigate to ***Menu > Settings > Advanced Setting(password: admin) > Network > LAN Port > IPv4 / IPv6.***

2) In the LAN Port interface, press the Up / Down key to select PPPoE, then Press the OK key or the Enter soft key to enter PPPoE Setting interface.

3) Enter the user name and password in the corresponding fields.

4) Press the **OK** key or the **Save** soft key to save.

4.5.5 Configuring VLAN

Enabling the LAN Port:

Procedure

1) Navigate to ***Menu > Settings > Advanced Setting(password: admin) > Network > VLAN Port > LAN Port.***

2) Press the Left / Right key or Switch soft key to select **Enable** in the LAN Port activation field.

3) Press the Up / Down key to enter the VID and Priority in the corresponding fields.

4) Press the **OK** key or **Save** key to reboot（Setting will take effect after reboot, if cancel the reboot, the settings will be saved but not take effect).

Enabling the PC Port:

Procedure

1) Navigate to ***Menu > Settings > Advanced Setting(password: admin) > Network > VLAN Port > PC Port.***

2) Press the Left / Right key or Switch soft key to select **Enable** in the PC Port activation field.

3) Press the Up / Down key to enter the VID and Priority in the corresponding fields.

4) Press the **OK** key or **Save** key to reboot（Setting will take effect after reboot, if cancel the reboot, the settings will be saved but not take effect）.

4.6 Web Server

Configuring the Web Server：

Procedure

1) Navigate to ***Menu > Settings > Advanced Setting (password: admin) >Web Server.***

2) Press the Left / Right key or Switch soft key to select **Enable** in the Web Server activation field.

3) Press the **Save** soft key or the OK key to save or the **Back** soft key to cancel.

4.7 Reset to Factory

Reset to Factory ：

Procedure

1) Navigate to ***Menu > Settings > Advanced Setting (password: admin).***

2) Press the **OK** key or the **Enter** soft key to access the reset to factory.

4.8 Password Setting

This feature is used to set the password for advanced settings

Procedure

1) Navigate to ***Menu > Settings > Advanced Settings (password: admin) > Password Settings.***

2) Enter the current password, new password and confirm password in the corresponding area.

3) Press **OK** to set.

4.9 Auto Provision

Setting automatic update version for phone:

Procedure

1) Navigate to ***Menu > Settings > Advanced Settings (password: admin) > Auto Provision.***
2) Enter the URL and set the mode, etc..
3) Press **OK** to save.

4.10 Reboot

Restart the phone:

Procedure

1) Navigate to ***Menu > Settings > Advanced Setting (password: admin).***
2) Press the Up / Down key to select **Reboot**.
3) Press the **OK** key or the **Enter** soft key to reboot.

5 Web Platform

5.1 Login & Logout

The web system of the SP-C64G/C64GP IP phone is used for users or administrators to check or modify the phone parameter.

Checking the IP address of the phone and log in to the web system:

1) Press OK key

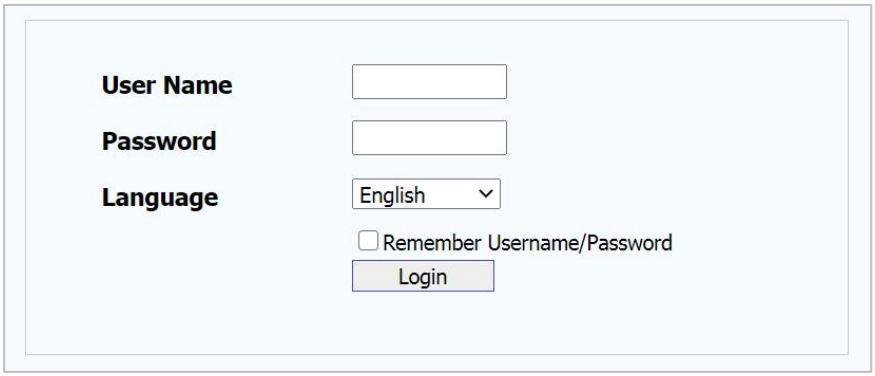
to view the IP address of the phone.

2) Input the IP address of the phone (such as http://172.31.2.167) in the browser address box and press Enter.

3) If successfully connected to the IP phone, it will enter the login page. On this page, enter the correct username and password. By default, username and password are as below:

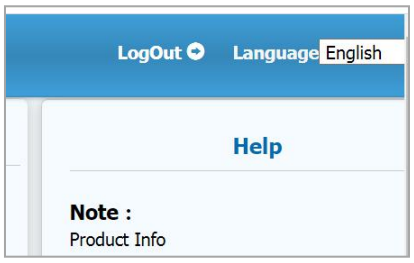
User Name: admin

Password: admin



Log out:

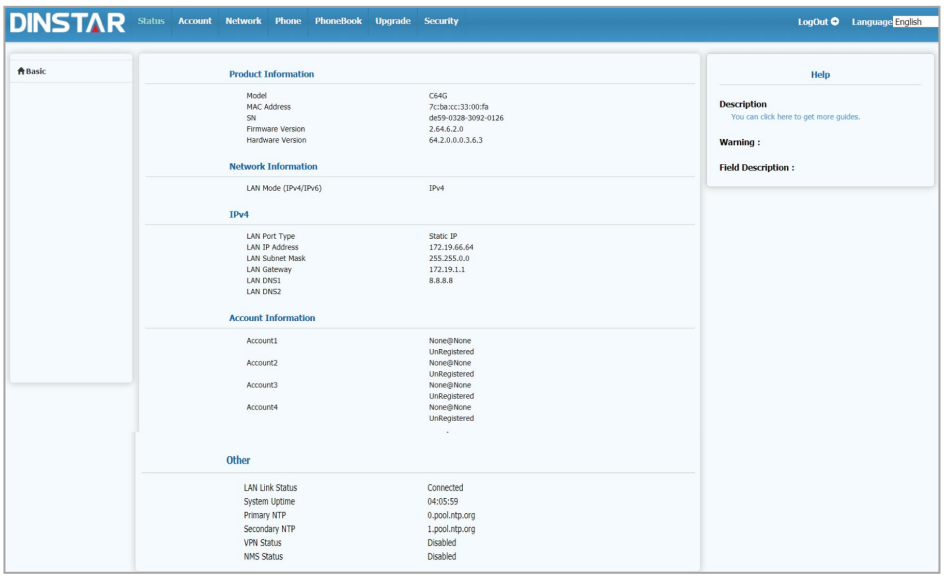
You can log out of the web system by clicking log out in the upper right corner of the window.



5.2 Status

5.2.1 Status->Basic

After successfully log in, it will automatically locate to Status->Basic as shown below:

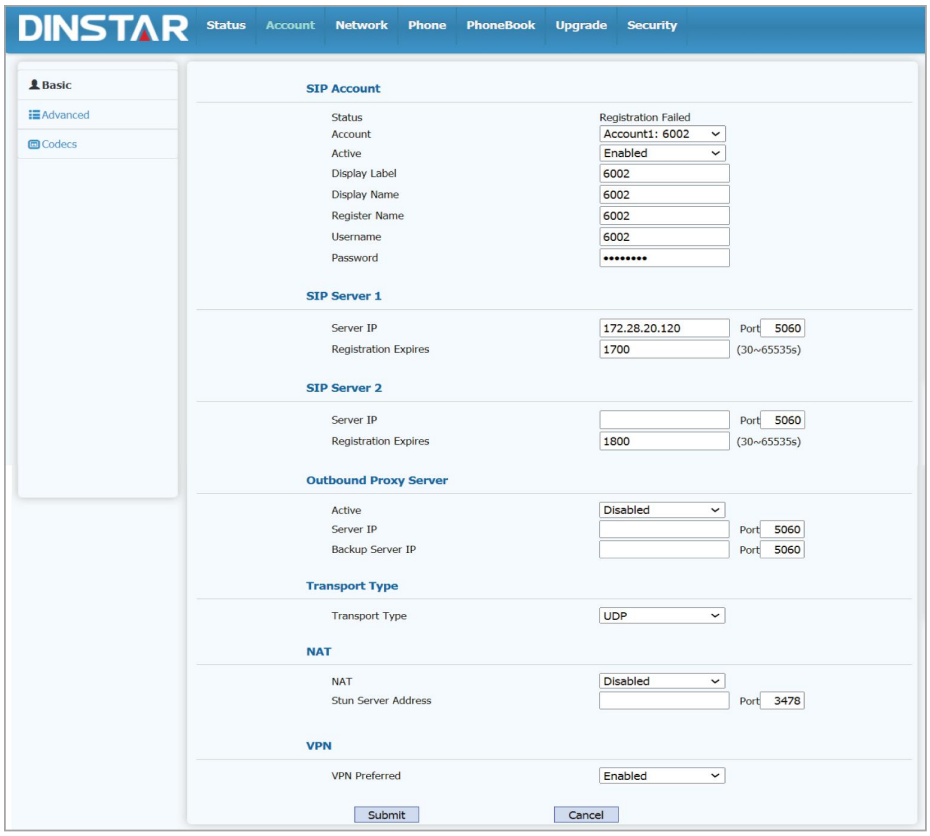


Sections	Description
Product Information	It provides the device's information such as Model name, MAC address (IP device's physical address), Firmware version and Hardware version.
Network Information	Show you the network mode (LAN port) of the device.
IPv4	It provides the information of the LAN port IPv4 type (may be DHCP/static/PPPoE), IP address, subnet mask, gateway, preferred DNS server and alternative DNS server.
IPv6	It provides the information of the LAN port IPv6 type (may be DHCP/static/PPPoE), IP address, gateway, preferred DNS server and alternative DNS server.
Account Information	It provides the device's Account information and Registration status (account username, registered server's address, and Register result).
Others	Show you LAN port connection status, running time, primary NTP server, secondary NTP server (NTP server is used to automatically synchronize time from the Internet),

Sections	Description
	VPN status and NMS status.

5.3 Account

5.3.1 Account->Basic

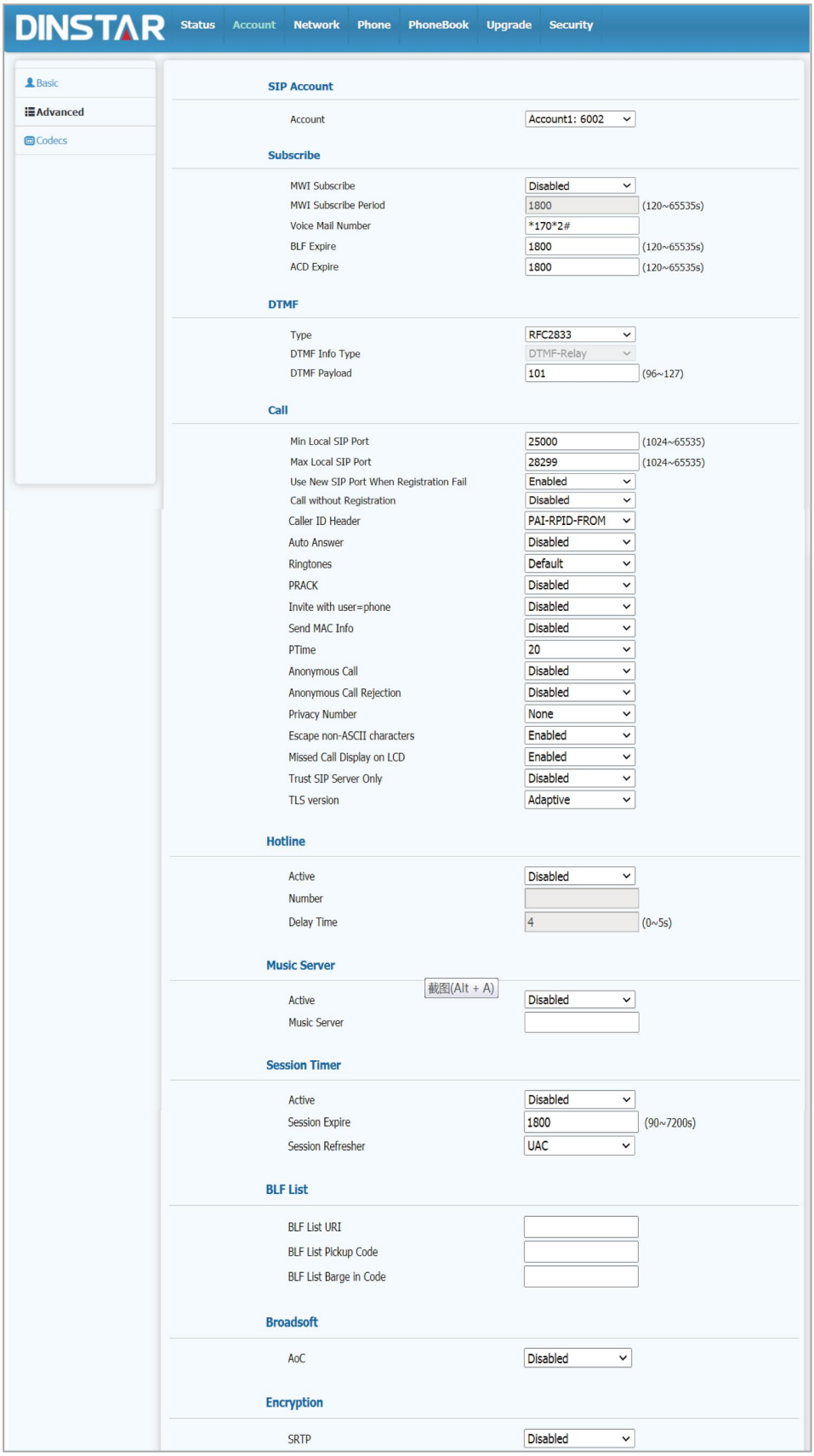


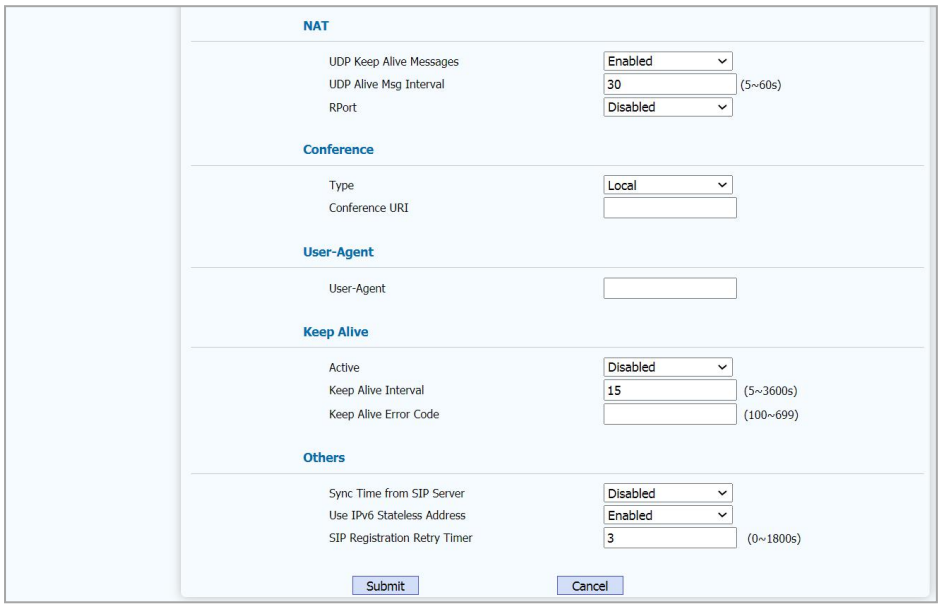
Sections	Description
SIP Account	For the specified account settings. • Status: To display register result. • Account: SIP account • Active: To enable or disable SIP account • Display Label: Which is displayed on the phone's • Display Name: Which is sent to the other call party for display. • Register Name: Allocated by SIP server provider, used for authentication.

Sections	Description
	• Username: the extension name assigned by the SIP server. • Password: Used for authorization.
SIP Server 1	For the primary SIP server settings. • Server IP: SIP server address, it could be an URL or IP address. • Registration Expires: The registration will expire after Registration period, the IP phone will re-register automatically within registration period.
SIP Server 2	For the secondary SIP server settings. This is for redundancy, if registering to Primary SIP server fails, the IP phone will go to Secondary SIP server for registering. **Note:** Secondary SIP server is used for redundancy, it can be left blank if there is not redundancy SIP server in user's environment.
Outbound Proxy Server	For the Outbound Proxy server settings. An outbound proxy server is used to receive all initiating request messages and route them to the designated SIP server. **Note:** If configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully.
Transport Type	It configures Transport type for SIP message • UDP: UDP is an unreliable but very efficient transport layer protocol. • TCP: Reliable but less-efficient transport layer protocol. • TLS: Secured and Reliable transport layer protocol. • DNS-SRV: A DNS RR for specifying the location of services.
NAT	NAT(Net Address Translator) settings. • STUN: Short for Simple Traversal of UDP over NATS, a solution to solve NAT issues. **Note:** By default, NAT is disabled.
VPN	For a specific account configure VPN options. • VPN preferred: If enabled, the designated account will

Sections	Description
	preferentially use the VPN address for communication. If disabled, the specified account uses the local address to communicate. **Note:** By default, VPN priority is enabled.

5.3.2 Account->Advanced





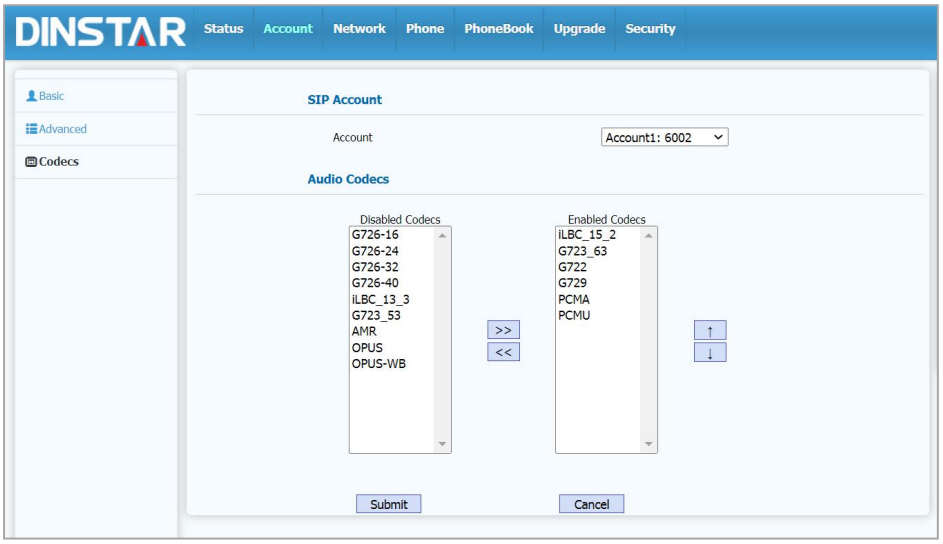
Sections	Description
SIP Account	Show you current Account settings or to select which account to display.
Subscribe	It configures MWI, BLF, ACD subscription features. • MWI Subscribe: Message Waiting Indicator which is used to indicate whether there is unread new voice message.Enable or disable a subscription for MWI service. • MWI Subscribe Period: the IP phone sends a refresh SUBSCRIBE request before initial SUBSCRIBE expiration. • Voice Mail Number: The IP phone will subscribe to the voice mail number for MWI service using Subscribe MWI to Voice Mail. • BLF Expire: BLF is short for Busy Lamp Field which is used to monitor the designated extension status. Configures the period (in seconds) of the BLF subscription for each account. • ACD Expire: Automatic Call Distribution is often used in offices for customer service, such as call center. The setting here is to negotiate with the server about expire time of ACD subscription. Configures the period (in seconds) of ACD subscription for each account.
DTMF	It configures DTMF feature. • Type: Support Inband,Info,RFC2833 or their combination.

Sections	Description
	• DTMF Info Type: Only available when DTMF Type is Info. • DTMF Payload: To configure payload type for DTMF. **Note:** By default, DTMF type is RFC2833 which is the standard. Type Inband uses inband frequency to indicate DTMF tone which is most used to be compatible with traditional telephone server. Type Info use SIP Info message to indicate DTMF message.
Call	It configures call-related features. • Max Local SIP Port: To configure maximum local sip port for designated account. • Min Local SIP Port: To configure minimum local sip port for designated account. • Use New SIP Port When Registration Fail: After enabling this function, the SIP port will be reassigned when the registration fails. • Call without Registration:When this function is enabled, it is allowed to make outgoing calls without registering an account. • Caller ID Header: To configure which Caller ID format to fetch for displaying on Phone UI. • Auto Answer: If enabled, IP phone will be auto-answered when there is an incoming call for designated account. • Ringtones: Choose the ringtone for each account. • PRACK: 100% reliability for all provisional message, this means it will send ACK every time the IP phone receive a provisional SIP message from SIP server. • Invite with user=phone: If enabled, IP phone will send user=phone within SIP message. • Send MAC Info: If enabled, the IP phone will bring the MAC information in the SIP registration list; • PTime: Interval time between two consecutive RTP packets. • Anonymous Call: If enabled, all outgoing call for the designated account will be anonymous number. • Anonymous Call Rejection: If enabled, all incoming

Sections	Description
	anonym-out call for the designated account will be rejected. • Privacy Number: Configure the privacy value of the IP phone in the SIP 180 message. • Escape non- ASCII characters: To transfer the symbol to Ascii character. • Missed Call Display on LCD: To display the miss call log. • Trust SIP Server Only: When enabled, only receive calls from SIP server. • TLS Version: Choose TLS version
Hotline	The hotline allows users to automatically dial a defined number after hearing a dial tone without dialing any number. Function on: Enable or disable the hotline function. Number: Set the defined hotline number. Delay: Set the interval for automatic outgoing calls after hearing the dial tone.
Music Server Address	It configures third-party MOH (music-on-hold) server. • Active: To enable or disable this MOH server,If enabled, the IP phone will play MOH from configured server. • Music Server : To configure MOH server address.
Session Timer	Session timer settings. • Active: To enable or disable this feature, If enable, the ongoing call will be disconnected automatically once the session expired unless it's been refreshed by UAC or UAS. • Session Expire: Configure session expire time. • Session Refresher: To configure who should be response for refreshing a session. **Note:** UAC means User Agent Client, here stands for IP phone. UAS means User Agent Server, here stands for SIP server.
BLF List	It configures BLF List URI address. • BLF List URI: BLF List is short for Busy Lamp Field List. • BLF List PickUp Code: To set the BLF pick up code. • BLF List Barge In Code: To set the BLF barge in code.

Sections	Description
Broadsoft	It configures Broadsoft AOC feature. • AoC: A feature used to be accounting on Broadsoft platform. **Note:** Please consult your administrator further information.
Encryption	It enables or disables SRTP feature. • Voice Encryption (SRTP): If enabled, all audio signal(technically speaking it’ s RTP streams) will be encrypted for more security.
NAT	NAT-related settings. • UDP Keep Alive message: If enabled, IP phone will send UDP keep-alive message periodically to router to keep NAT port alive. • UDP Alive Msg Interval: Keep alive message interval. • Rport: Remote Port, if enabled, it will add Remote Port into outgoing SIP message for designated account.
Conference	To select Local or network conference. • Type: To select desired conference type • Conference URI: If network conference is selected, a network conference URI is needed.
User Agent	One can customize User Agent field in the SIP message. If user agent is set to specific value, user could see the information from PCAP. If user agent is not set by default, user could see the company name, model number and firmware version from PCAP.
Keep Alive	• Active: When enabled, it will send an Option message to the server; • Keep Alive Interval: The interval time between sending option messages; • Keep Alive Error Code: A response code used to determine network failures.
Others	Other settings. • Sync Time from SIP Server: If enabled, the IP phone will synchronize the phone time through the registered 200ok Date header (if the server supports the Date header).

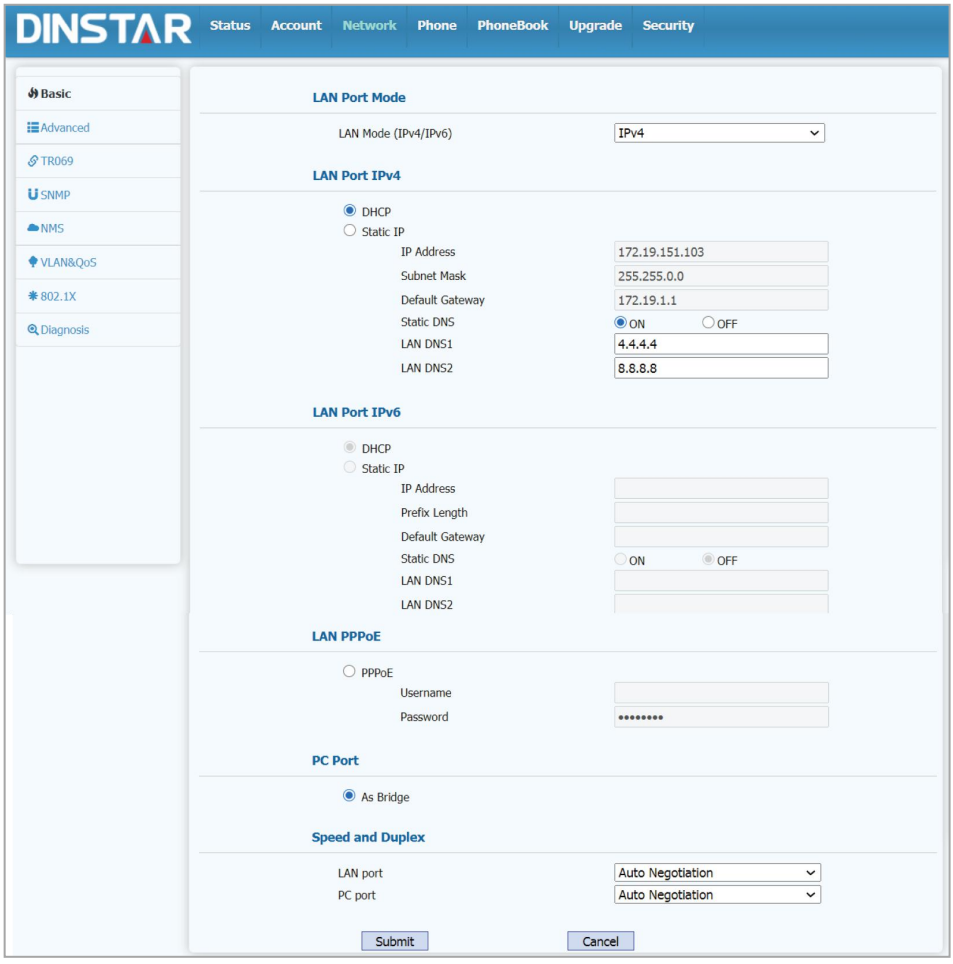
5.3.3 Account-> Audio Codecs



Sections	Description
SIP Account	Show you current Account settings or to select which account to display.
Audio Codecs	To display and configure available/unavailable codecs list. Codec means coder-decoder which is used to transfer analog signal to digital signal or vice versa. Familiar codecs are PCMU(G711U), PCMA(G711A), G722(wide-bandth codecs), G729, G723_53, G723_63, G726_16, G726_24, G726_32, G726_40.

5.4 Network

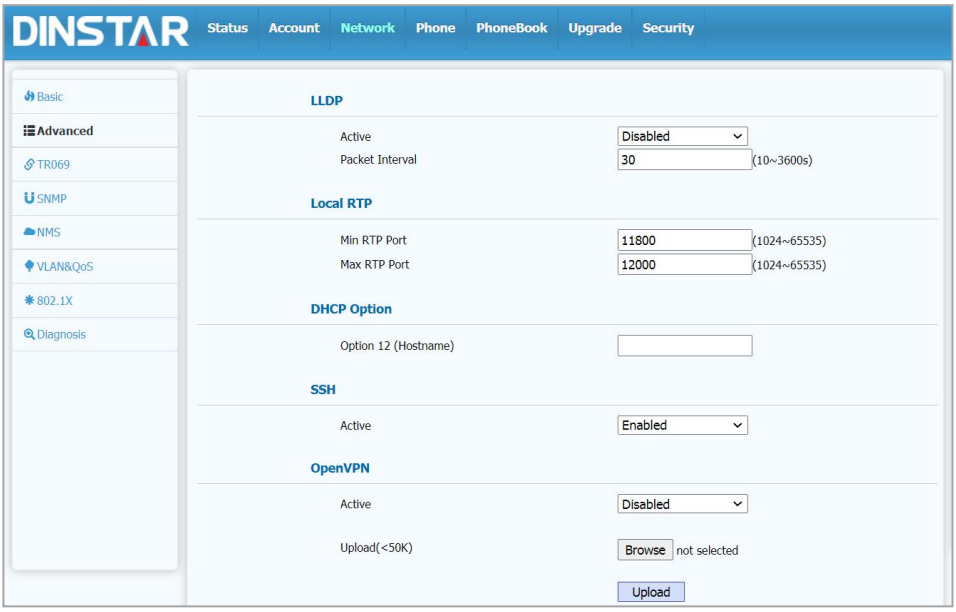
5.4.1 Network->Basic



Sections	Description
LAN Port Mode	It configures LAN port mode, IPv4, IPv6, IPv4&IPv6 are optional.
LAN Port IPv4	It configures the LAN port IPv4: • DHCP: If enabled, the IP phone will automatically obtain the IP address, subnet mask, default gateway and DNS server address from the DHCP server. • Static IP: If enabled, you must manually set the IP address, subnet mask, default gateway and DNS server.
LAN Port IPv6	It configures the LAN port IPv6 : • DHCP: If enabled, the IP phone will automatically obtain

Sections	Description
	the IP address, prefix length, default gateway and DNS server addresses from the DHCP server. • Static IP: If enabled, you must manually set the IP address, prefix length, default gateway and DNS server.
LAN PPPoE	LAN PPPoE settings: • PPPoE: Use PPPoE username & password to connect to PPPoE server.
PC Port	PC Port settings. • As Bridge: If selected, IP phone will act as a switch to route all incoming and outgoing packets from PC port.
Speed and Duplex	Set the network full-duplex, half-duplex and speed

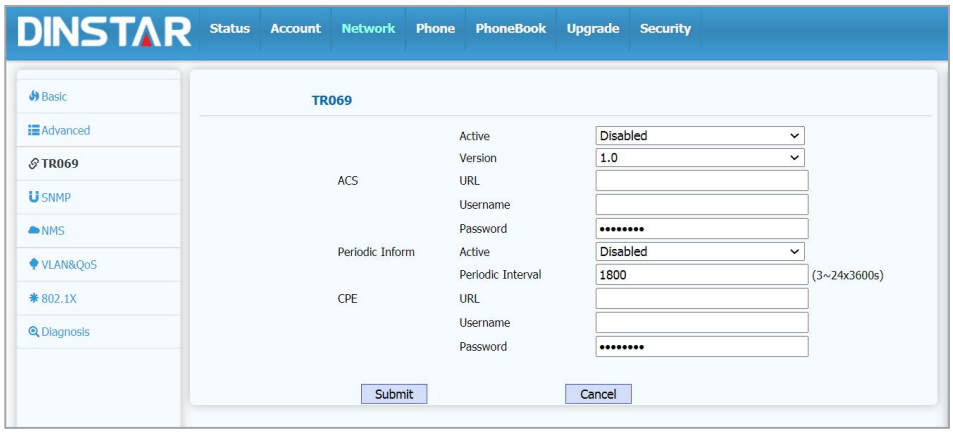
5.4.2 Network-Advanced



Sections	Description
LLDP	It configures LLDP feature. • Active: To enable or disable LLDP feature. • Packet Interval: To configure the interval for LLDP admin message. **Note:** LLDP stands for Link Layer Discovery Protocol, it’s

	used to exchange device information between any two directly-connected devices. LLDP is often used to configure Voice VLAN automatically for IP phone.
Local RTP	Local RTP settings. • Max RTP Port: Determine the maximum port that RTP stream can use. • Min RTP Port: Determine the minimum port that RTP stream can use.
DHCP Option	Option 12 (Hostname)：Custom phone host name (if blank, the host name is phone model).
SSH	To display and configure SSH settings: • Active : enable or disable this function.
OpenVPN	VPN settings. • Active: To enable or disable VPN feature. • Upload: To upload VPN client configuration file which is used to connect to VPN server. **Note:** For now, IP phone can only support OpenVPN.

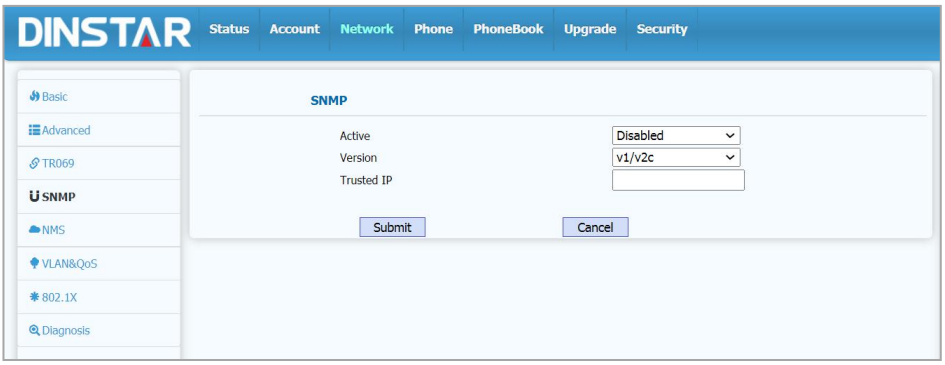
5.4.3 Network ->TR069



Sections	Description
TR069	TR069 settings. • Active: To enable or disable TR069 feature. • Version: To select supported TR069 version (version 1.0 or 1.1).

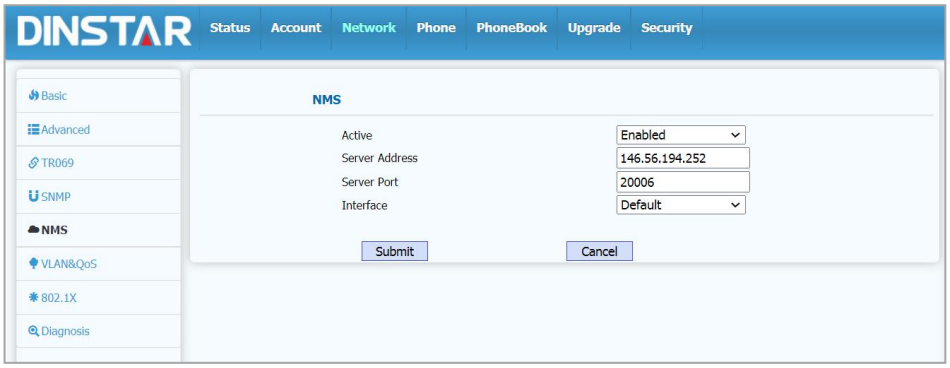
	• URL: To configure URL address for ACS. • User name: To configure username for ACS. • Password: To configure Password for ACS. • Periodic Inform: To enable periodically inform. • Periodic Interval: To configure interval for periodic inform. • CPE: CPE is short for Customer-premise equipment as client side devices. • URL: To configure URL address for CPE. • User name: To configure username for CPE. • Password： To configure Password for CPE. **Note:** TR-069(Technical Report 069) is a technical specification entitled CPE WAN Management Protocol (CWMP).It defines an application layer protocol for remote management of end-user devices.

5.4.4 Network ->SNMP



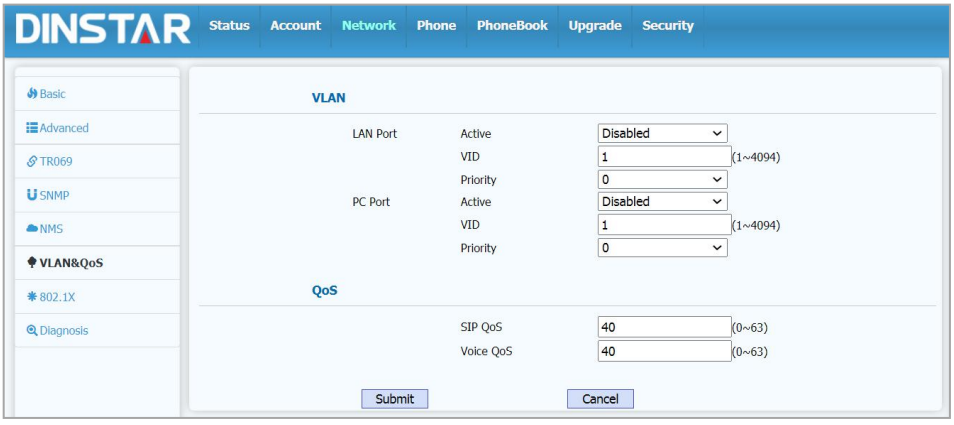
Sections	Description
SNMP	SNMP settings. • Active: To enable or disable SNMP feature. • Version: Select the supported SNMP version. • Trusted IP: To configure allowed SNMP server address, it could be an IP address or any valid URL domain name. **Note:** SNMP (Simple Network Management Protocols) is Internet-standard protocol for managing devices on IP networks.

5.4.5 Network ->NMS



Sections	Description
NMS	It configures NMS feature. • Active: Enable or disable NMS function. • Server Address: The address of the NMS server. • Server Port: The port of the NMS server. • Interface: Configure the local interface for accessing the NMS server, which is default in DHCP and static IP mode, PPPoE in PPPoE mode, and default, tap0 or tun0 as appropriate after the VPN is turned on..

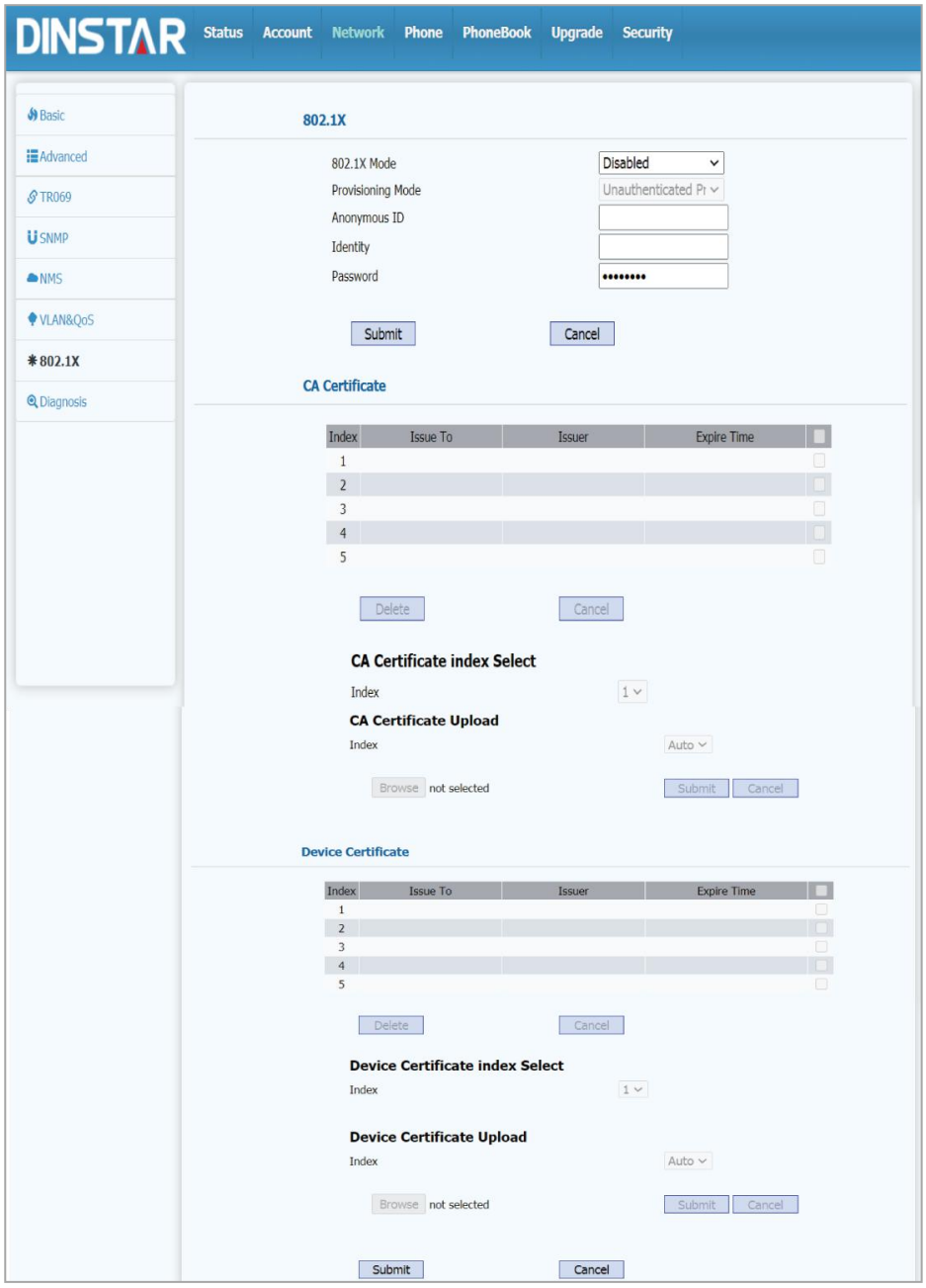
5.4.6 Network ->VLAN&QoS



Sections	Description
VLAN	VLAN settings. • LAN Port/PC Port: You can configure VLAN setting for both

Sections	Description
	ports respectively. • Active: To enable or disable VLAN feature for designated port. • VID: To configure VLAN id for designated port. • Priority: To select VLAN priority for designated port. Note: Please consult your administrator for specific VLAN settings in your networking environment.
QoS	QoS settings. • SIP QoS: To configure QoS value for all SIP message. • Voice QoS: To configure QoS value for all audio stream (RTP streams).

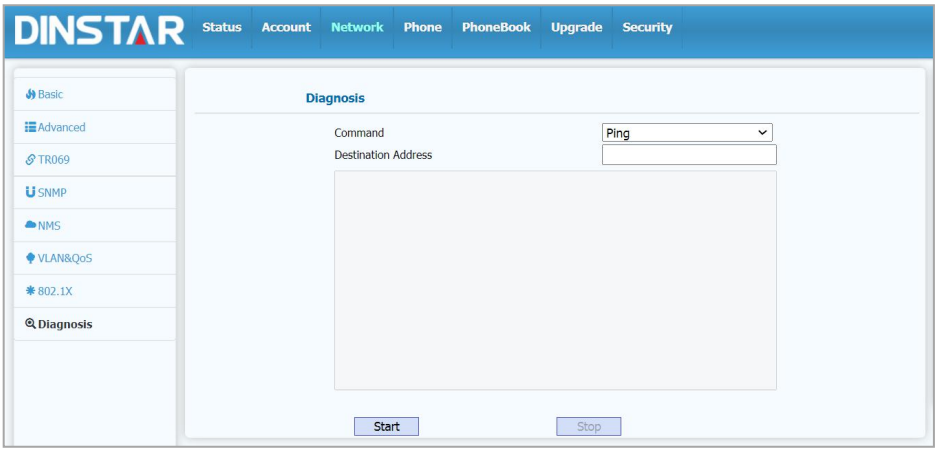
5.4.7 Network ->802.1X



Sections	Description
802.1X	It configures 802.1X feature. • 802.1X Mode: To enable or disable 802.1X. • Anonymous ID: Configure the anonymous ID used to hide the real 802.1X user. • Identity: Configure the username used for 802.1X.

Sections	Description
	• Password: Configure the password used for 802.1X.
CA Certificate	Display or delete the CA certificate, which is used to verify the authenticity of the device certificate.
CA Certificate Upload	Upload the file that will be used as the CA certificate.
Device Certificate	Display or delete the device certificate, which is used to verify the identity of the device with the 802.1X server.
Device Certificate Upload	Upload the file that will be used as the device certificate.

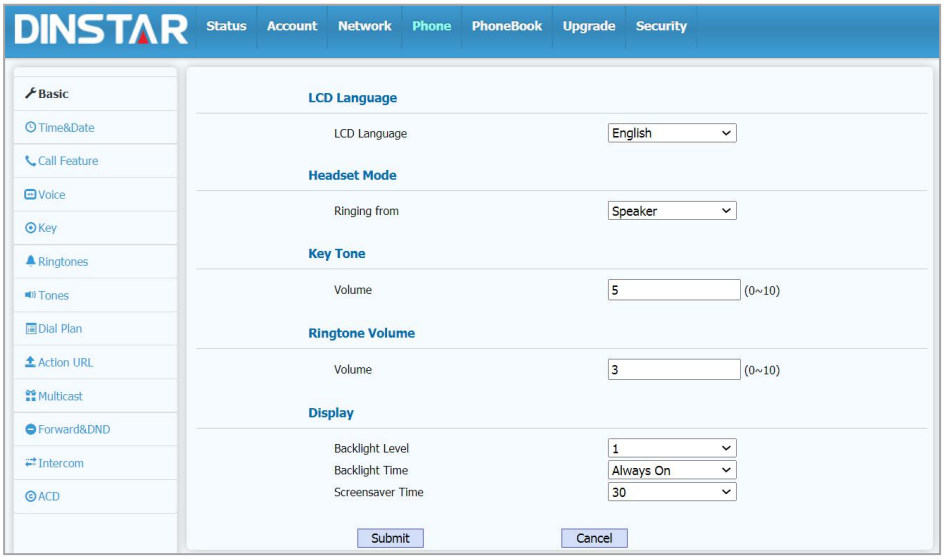
5.4.8 Network ->Diagnosis



Sections	Description
Diagnosis	Used to detect network connectivity

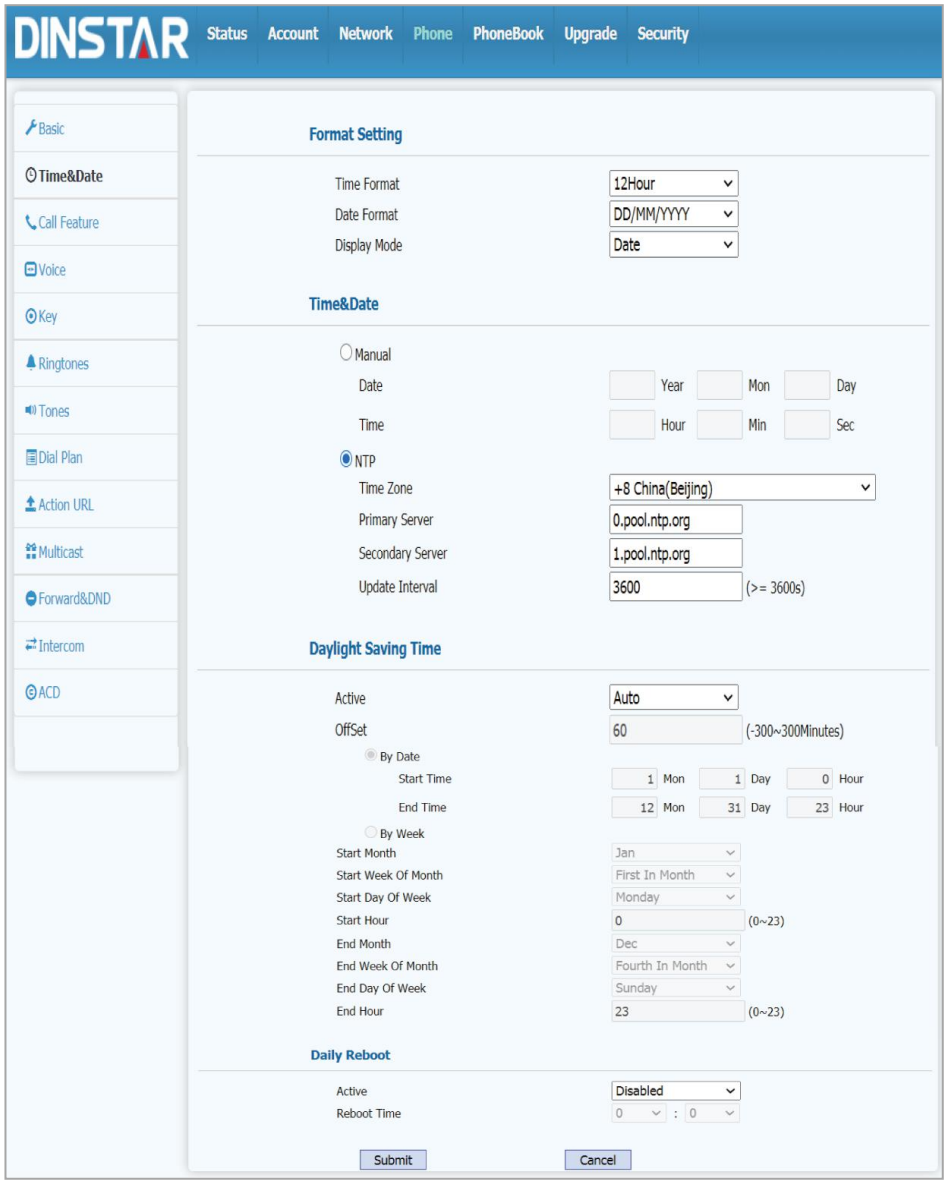
5.5 Phone

5.5.1 Phone->Basic



Sections	Description
LCD Language	choose the phone language.
Headset Mode	• Ringing from: When in headset mode, select the ringing from the speaker or headset
Key Tone	Adjust the sound volume for key press. • Volume: The valid volume range is from 0~10, by default it's 5.
Ringtone Volume	Adjust the sound volume for ringtone. • Volume: The valid volume range is from 0~10, by default it's 5
Display	• Backlight Level: Adjust the backlight intensity of the phone interface. • Backlight Time: Adjust the backlight timer, once it expires, the backlight on the phone interface will dim. • Screensaver Time: Adjust the standby time of the screen saver on. **Note:** The screen saver standby timer starts only when the phone is in the main interface. If the backlight is off, the screen saver will turn off.

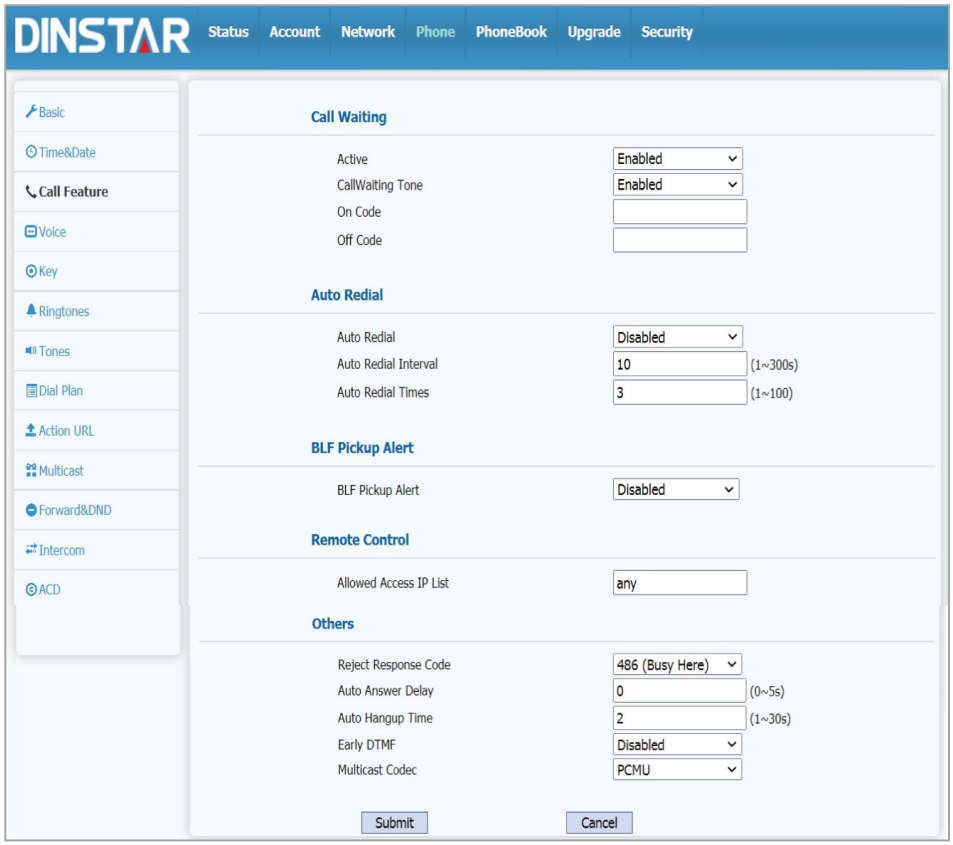
5.5.2 Phone-Time&Date



Sections	Description
Format Setting	Time and date format settings. • Time Format: Determine what format to display on Phone UI(12 hour/24 hour). • Date Format: Determine what format to display on Phone UI for Date. • Display Mode: Determine what mode to display Time&Date on Phone UI.
Time&Date	To select how to configure time, it could be set by manually

Sections	Description
	or get from INTERNET automatically via NTP server. • Manual: To set Time and Date manually. **Note:** If you set time to be Manually, it only take effect till next reboot, after reboot, the phone will switch to Auto mode automatically, because there is no way for IP phone to record time during power off. • NTP: To get Time via NTP server. • Time Zone: To select local Time Zone for NTP server. • Primary Server: To configure primary NTP server address. • Secondary Server: To configure secondary NTP server address, it takes effect if primary NTP server is unreachable. • Update Interval: To configure interval between two consecutive NTP requests. **Note:** NTP, Network Time Protocol is used to automatically synchronized local time with INTERNET time, since NTP server only response GMT time, so that you need to specify the Time Zone for IP phone to decide the local time.
Daylight Saving Time	DST settings. **Note:** Here DST, is short for Daylight saving time, which stands for the time in the summer days when sun rises early will be adjusted forward to save daylight. The DST will take effects during the period that set by user. (all the settings for DST are all self-explanatory, please consult with your administrator for local DST details).
Daily Reboot	Set the phone's daily restart time

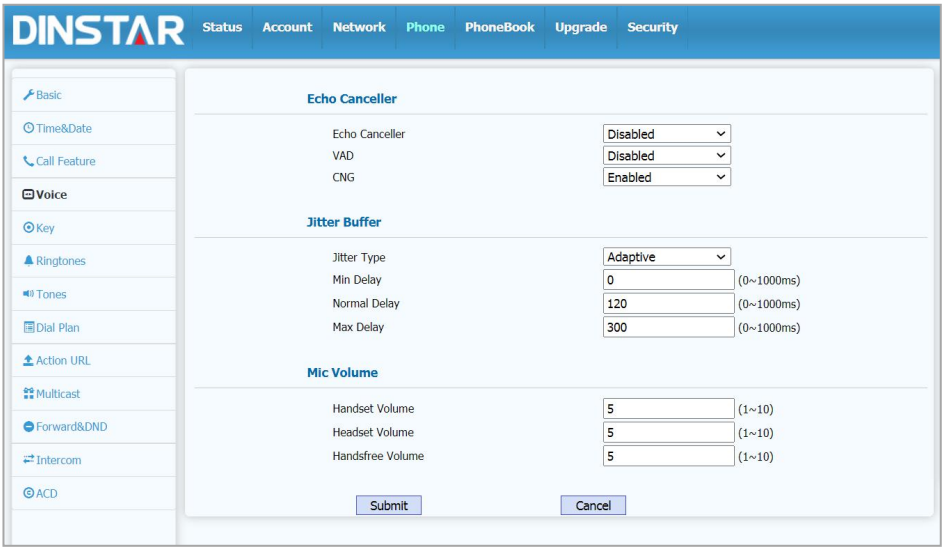
5.5.3 Phone- Call Feature



Sections	Description
Call Waiting	It enables or disables Call Waiting. • Active: If enabled, it allows IP phones to receive a new incoming call when there is already an active call. • Call Waiting Tone: If enabled, it allows IP phones to play the call waiting tone to the waiting callee.
Auto Redial	Auto redial allows IP phones to redial an unsuccessful call for designated times within designated interval. • Auto Redial: To enable or disable auto redial feature. • Auto Redial Interval: Determine the interval between two consecutive attempts. • Auto Redial Times: Determine how many times to redial.
Call Pick Up Alert	Visual BLF Pick Up Alert: To enable the BLF pick up function.
Remote Control	Remote Control allows specific host to interact with IP phone by sending HTTP or HTTPS requests. The specific

Sections	Description
	action could be answering an incoming call, hangup an ongoing call and so on. • Allowed Access IP List: To configure the allowed host address. **Note:** For now, IP phone can only support IP address, IP address list and IP address pattern as allowed hosts.
Others	• Reject Response Code : Allows user to assign specific code as return code to SIP server when an incoming call is rejected. • Auto Answer Delay: To configure delay time before an incoming call is automatically answered. • Auto Hangup Time: To configure the time from the busy tone to the standby state after the other party hangs up. • Early DTMF: To enable or disable early DTMF. • Multicast codec: To choose different multicast codec.

5.5.4 Phone-Voice

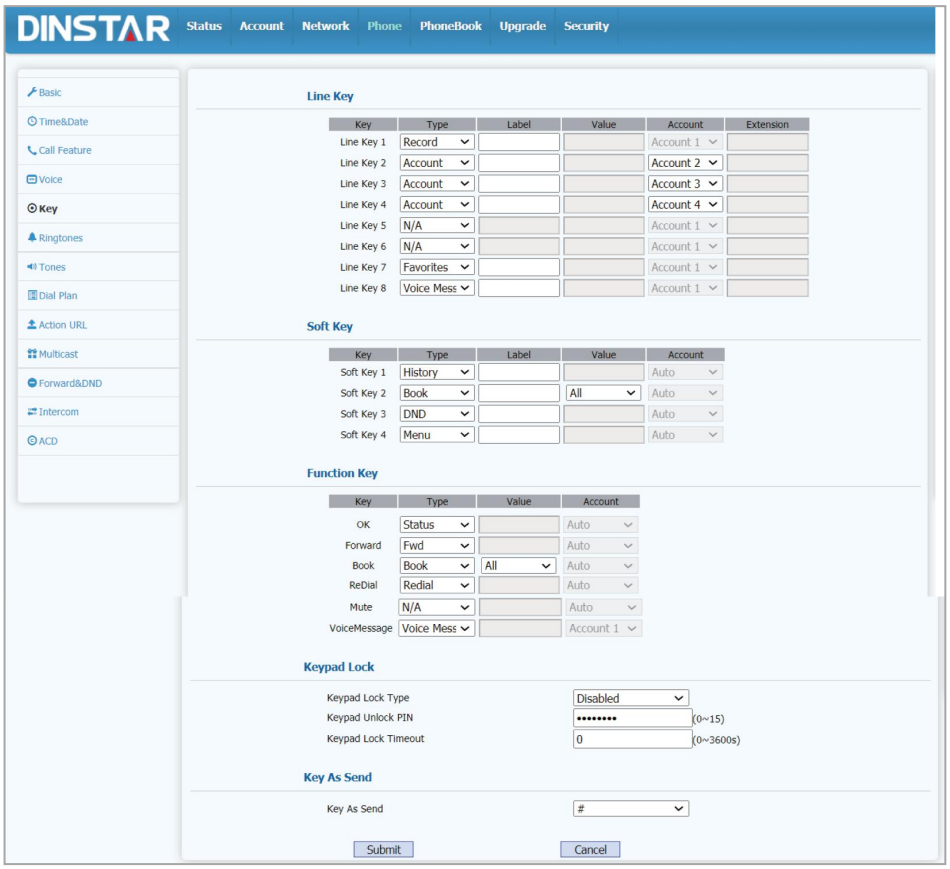


Sections	Description
Echo Canceller	• Echo Canceller: To remove acoustic echo from a voice communication in order to improve the voice quality. • VAD (Voice Activity Detection): Allow IP phone to detect

Sections	Description
	the presence or absence of human speech during a call. When detecting period of “silence”, VAD replaces that silence efficiently with special packets that indicate silence is occurring. It can facilitate speech processing, and deactivate some processes during non-speech section of an audio session. It can avoid unnecessary coding or transmission of silence packets in VoIP applications, saving on computation and network bandwidth. • CNG (Comfort Noise Generation): Allow IP phone to generate comfortable background noise for voice communications during periods of silence in a conversation. It is a part of the silence suppression or VAD handling for VoIP technology. CNG, in conjunction with VAD algorithms, quickly responds when periods of silence occur and inserts artificial noise until voice activity resumes. The insertion of artificial noise gives the illusion of a constant transmission stream, so that background sound is consistent throughout the call and the listener does not think the line has released.
Jitter Buffer	Jitter buffer is a shared data area where voice packets can be collected, stored, and sent to the voice processor in even intervals. Jitter is a term indicating variations in packet arrival time, which can occur because of network congestion, timing drift or route changes. The jitter buffer, located at the receiving end of the voice connection, intentionally delays the arriving packets so that the end user experiences a clear connection with very little sound distortion. IP phones support two types of jitter buffers: fixed and adaptive. • Fixed: Add the fixed delay to voice packets. You can configure the delay time for the static jitter buffer on IP phones. • Adaptive: Capable of adapting the changes in the network's delay. The range of the delay time for the dynamic jitter buffer added to packets can be also configured on IP phones. • Min Delay: Set the minimum delay time

Sections	Description
	• Normal Delay: Set normal delay time • Max Delay: Set the maximum delay time
Mic Volume	Adjust microphone volume for headset, handset and speaker mode.

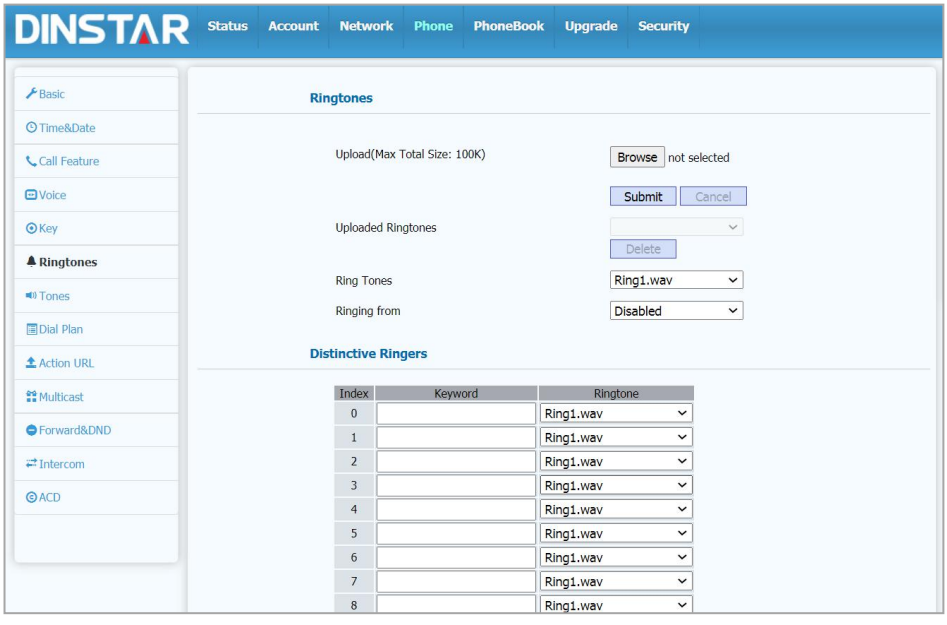
5.5.5 Phone->Key



Sections	Description
Line Key	Allows user to assign specific feature to the designated line key. For line key, the available feature list: DND, Menu, MSG, Status, Book, Fwd, PickUp, Group PickUp, Intercom, Speed Dial, History, Favorites, Redial, Account, ACD, BLF, BLFList, Call Return, Hot Desking, Record, XML Browser, DTMF， Multicast Paging， Voice Message, Transfer, Call Park, XML History, XML PhoneBook.
Soft Key	Allows user to assign specific feature to the designated soft

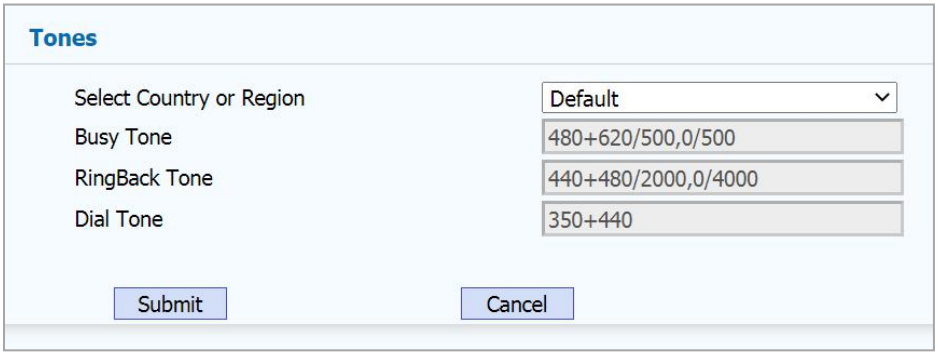
Sections	Description
	keys. For soft key, the following is the available features: DND, Menu, MSG, Status, Book, Fwd, PickUp, Group PickUp, Intercom, Speed Dial, History, Favorites, Redial, Call Return, Hot Desking, XML Browser, simple Menu, Voice Message, XML History, XML PhoneBook, ACD.
Function Key	Allows user to assign specific feature to the designated function keys. For function keys, the available features are as follows: DND, Menu, MSG, Status, Book, Fwd, PickUp, Group PickUp, Intercom, Speed Dial, History, Favorites, Redial, Call Return, Hot Desking, XML Browser, Voice Message, Transfer, XML History, XML PhoneBook.
Keypad Lock	Keypad lock can temporarily lock the phone keypad when not in use. This feature helps prevent unauthorized use of the phone. • Keypad Lock Type: Choose to lock function keys or all keys.. • Keypad Unlock PIN: The password for lock. • Keypad Lock Timeout: The idle interval for locking the phone.
Key As Send	" Key As Send " allow you to disable the send key or assign the # key and * key as the send key.

5.5.6 Phone-Ringtones



Sections	Description
Ringtones	Allows user to upload and view ringtone files or delete uploaded ringtone files. **Note:** Ringtone files must be .wav format and has some specific requirement, please contact technical support team for instructions how to make ringtone files. system ringtone files cannot be deleted thus user can only delete uploaded ringtone.
Distinctive Ringers	Distinctive ringers allows different incoming calls to trigger distinctive ringtone. The IP phone will check "Alert-Info" header inside the incoming “invite” SIP message. And strip out the URL or keyword inside the “Alert-Info” header, from the specific URL or keyword to match or download designated ringtone to play.

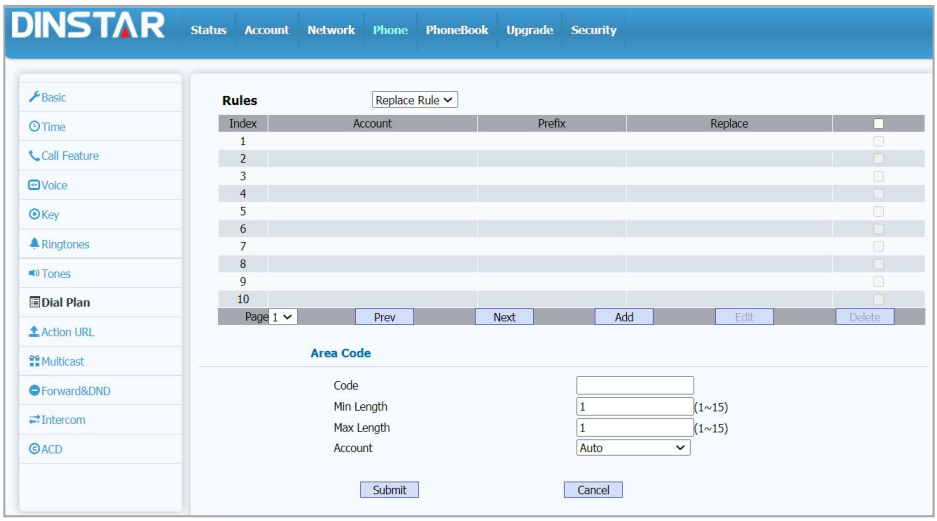
5.5.7 Phone-Tones



Sections	Description
Tones	Allows users to select tones (classified by country or region) or customize tones.

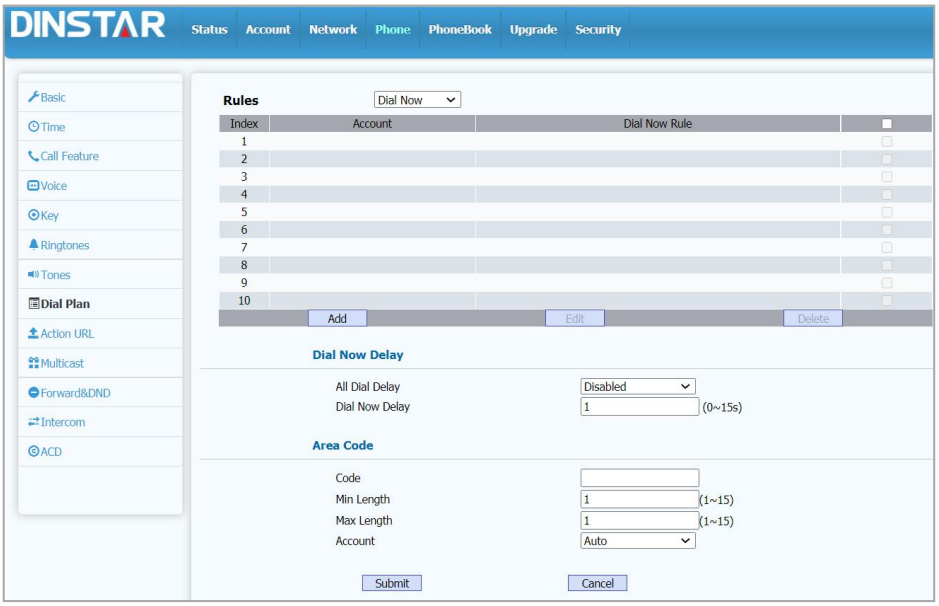
5.5.8 Phone ->Dial Plan Rule

a) Phone-Dial Plan-Replace Rule



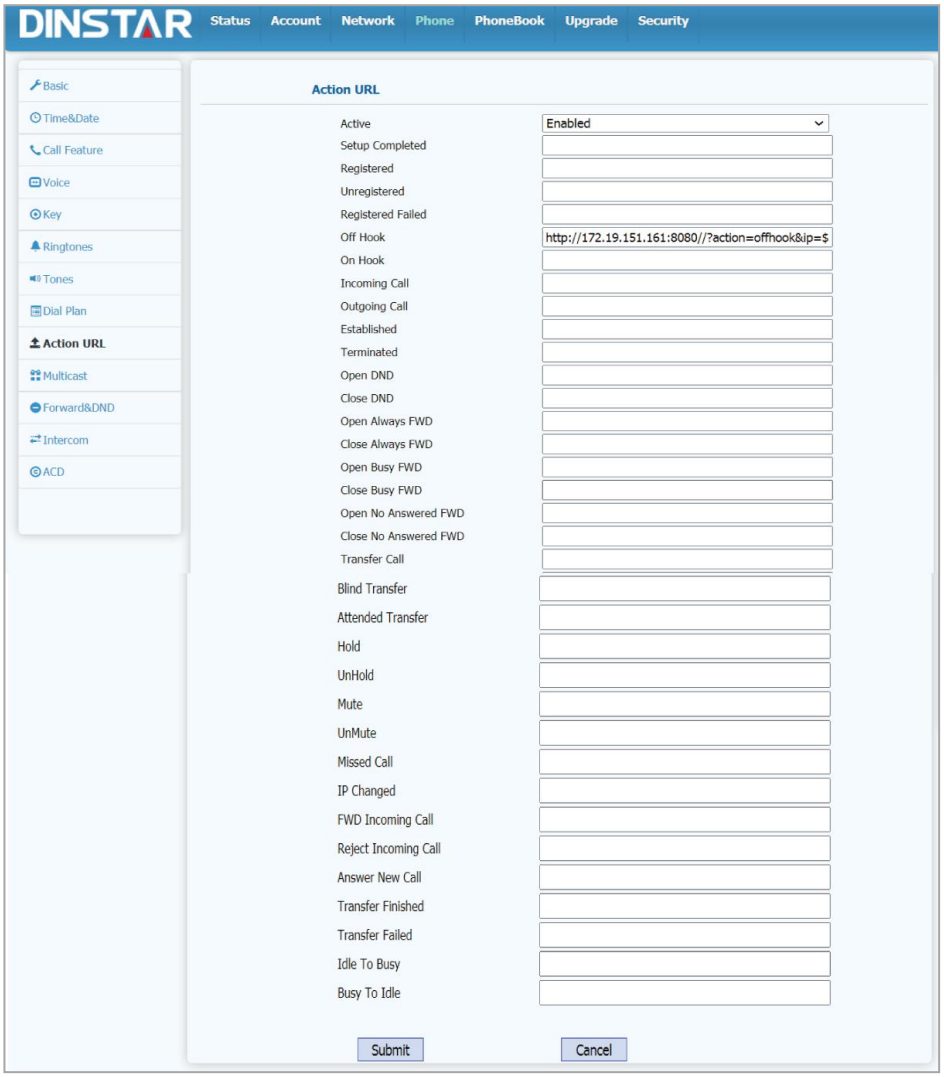
Sections	Description
Rules	Allows user to select Replace rule or Dial-now to display or edit. For replace rules, you can add, modify, or delete prefix for accounts.
Area Code	Area codes are also known as NPAs (Numbering Plan Areas). They usually indicate different geographical areas within one country. If entered numbers match the predefined area code rule, the IP phone will automatically prefix outgoing number with area code. **Note:** There is only one area code rule supported.

b) Phone-Dial Plan-Dial Now



Sections	Description
Rules	Allows user to select Replace rule or Dial-now to display or edit. For Dial Now, you can add, modify, or delete prefix for accounts.
Dial Now Delay	Allows user configure dial now delay time for dial now. It means user can configure the IP phone to dial out the phone number automatically after the designated delay time if it match any dial now rule.
Area Code	Area codes are also known as NPAs (Numbering Plan Areas). They usually indicate different geographical areas within one country. If entered numbers match the predefined area code rule, the IP phone will automatically prefix outgoing number with area code. **Note:** There is only one area code rule supported.

5.5.9 Phone-Action URL

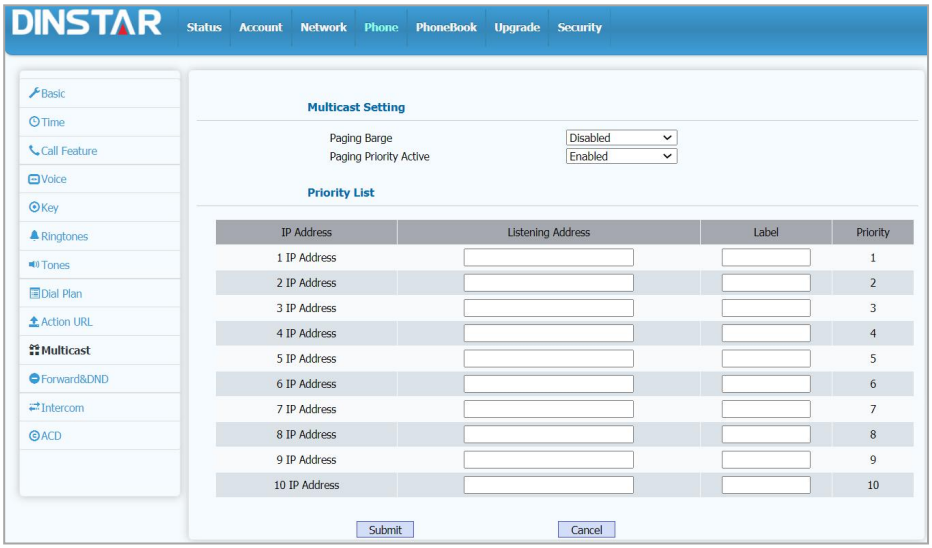


Sections	Description
Action URL	Action URL settings. • Active: Enable or disable ActionURL • Setup Completed: When the IP phone completes startup. • Registered: When the IP phone successfully registers an account. • Unregistered: When the IP phone logs off the registered account. • Register Failed: When the IP phone fails to register an account.

Sections	Description
	• Off Hook: When the IP phone is off hook. • On Hook: When the IP phone is on hook. • Incoming Call: When the IP phone receives an incoming call. • Outgoing Call: When the IP phone places a call. • Established: When the IP phone establishes a call. • Terminated: When the IP phone terminates a call. • Open DND: When the IP phone enables the DND mode. • Close DND: When the IP phone disables the DND mode. • Open Always FWD: When the IP phone enables the always forward. • Close Always FWD: When the IP phone disables the always forward. • Open Busy FWD: When the IP phone enables the busy forward. • Close Busy FWD: When the IP phone disables the busy forward. • Open No Answer FWD: When the IP phone enables the no answer forward. • Close No Answer FWD: When the IP phone disables the no answer forward • Transfer Call: When the IP phone transfers a call. • Blind Transfer: When the IP phone blind transfers a call. • Attended Transfer: When the IP phone performs the semi-attended/attended transfer. • Hold: When the IP phone places a call on hold. • UnHold: When the IP phone retrieves a hold call. • Mute: When the IP phone mutes a call. • UnMute: When the IP phone un-mutes a call. • Missed Call: When the IP phone misses a call. • IP Changed: When the IP address of the IP phone changes.

Sections	Description
	• FWD Incoming Call: When the IP phone forwards an incoming call. • Reject Incoming Call: When the IP phone rejects an incoming call. • Answer New Call: When the IP phone answers a new call. • Transfer Finished: When the IP phone completes to transfer a call. • Transfer Failed: When the IP phone fails to transfer a call. • Idle To Busy: When the state of the IP phone changes from idle to busy. • Busy To Idle: When the state of phone changes from busy to idle.

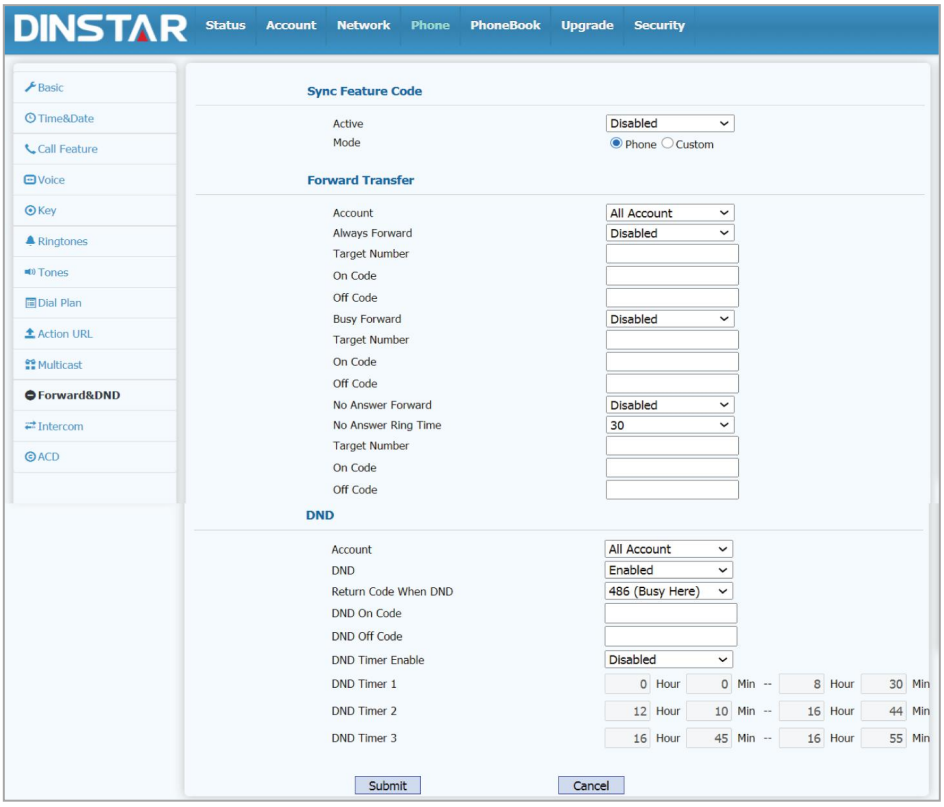
5.5.10 Phone ->Multicast



Sections	Description
Multicast Setting	Multicast setting. • Paging Barge: Choose the multicast number ,the range is 1-10. • Paging priority Active: Enable o disable the multicast.

Priority List	It configures the multicast parameters. • Listening Address: Enter the IP address you need to listen. • Label: Input the label for each listening address

5.5.11 Phone->Forward & DND

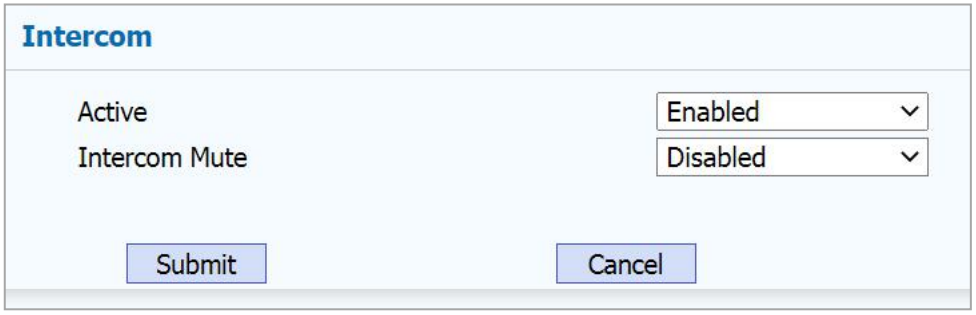


Sections	Description
Sync Feature Code	• Active: enable or disable function synchronization. • Mode: select the desired mode.
Forward Transfer	Forward settings: **Note:** There are three types of forwarding:Always Forward, Busy Forward, and No Answer Forward. • Account: Select the account that needs to enable forwarding • Always Forward: calls will be forwarded under any circumstances. • Target Number: Set the always forward target number;

Sections	Description
	• On Code: After setting the On Code, the user can dial the On Code + target number to enable always forward; • Off Code: After setting the Off Code, the user can dial the Off Code + target number to disable the always forward; • Busy Forward: if the IP phone is busy, the call will be forwarded. • Target Number: Set the busy forward target number; • On Code: After setting the On Code, the user can dial the On Code + target number to enable busy forward; • Off Code: After setting the Off Code, the user can dial the Off Code + target number to disable the busy forward; • No Answer Forward: If no one answers after a certain time, the call will be forwarded. • No Answer Ring Time: Set the no answer ring time, if no one answers within the set time, the call will be forwarded; • Target Number: Set the no answer forward target number; • On Code: After setting the On Code, the user can dial the On Code + target number to enable no answer forward; • Off Code: After setting the Off Code, the user can dial the Off Code + target number to disable the no answer forward;
DND	Do not disturb allows the IP phone to ignore any incoming call: • Account: Select the account that needs to enable the DND function • DND: Enable or disable DND • Return Code When DND: Determine what response

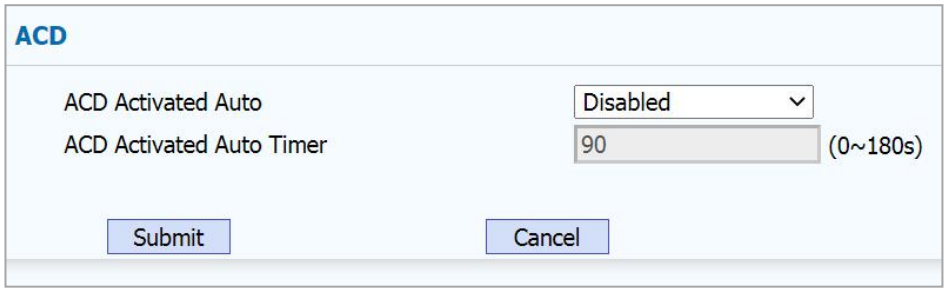
Sections	Description
	code should be sent back to the server when Do not disturb is turned on and there is an incoming call. • DND On Code: The code used to turn on DND on the server (if configured), if you press DND when the DND is off, the IP phone will send a SIP message to the server to turn on DND on the server . • DND Off Code: The code used to turn off DND on the server (if configured), if you press DND when it is turned on, the IP phone will send a SIP message to the server to turn off DND on the server. • DND Timer Enable: Enable or disable DND timer. The DND timer can make DND take effect in a specified time period. **Note:** The DND timer can only be enabled when DND is turned on.

5.5.12 Phone->Intercom



Sections	Description
Intercom	Intercom allows users to directly calls with the other party: • Active: Enable or disable the intercom function. • Intercom Mute: After enabling, once a call is established, the phone will be muted by default.

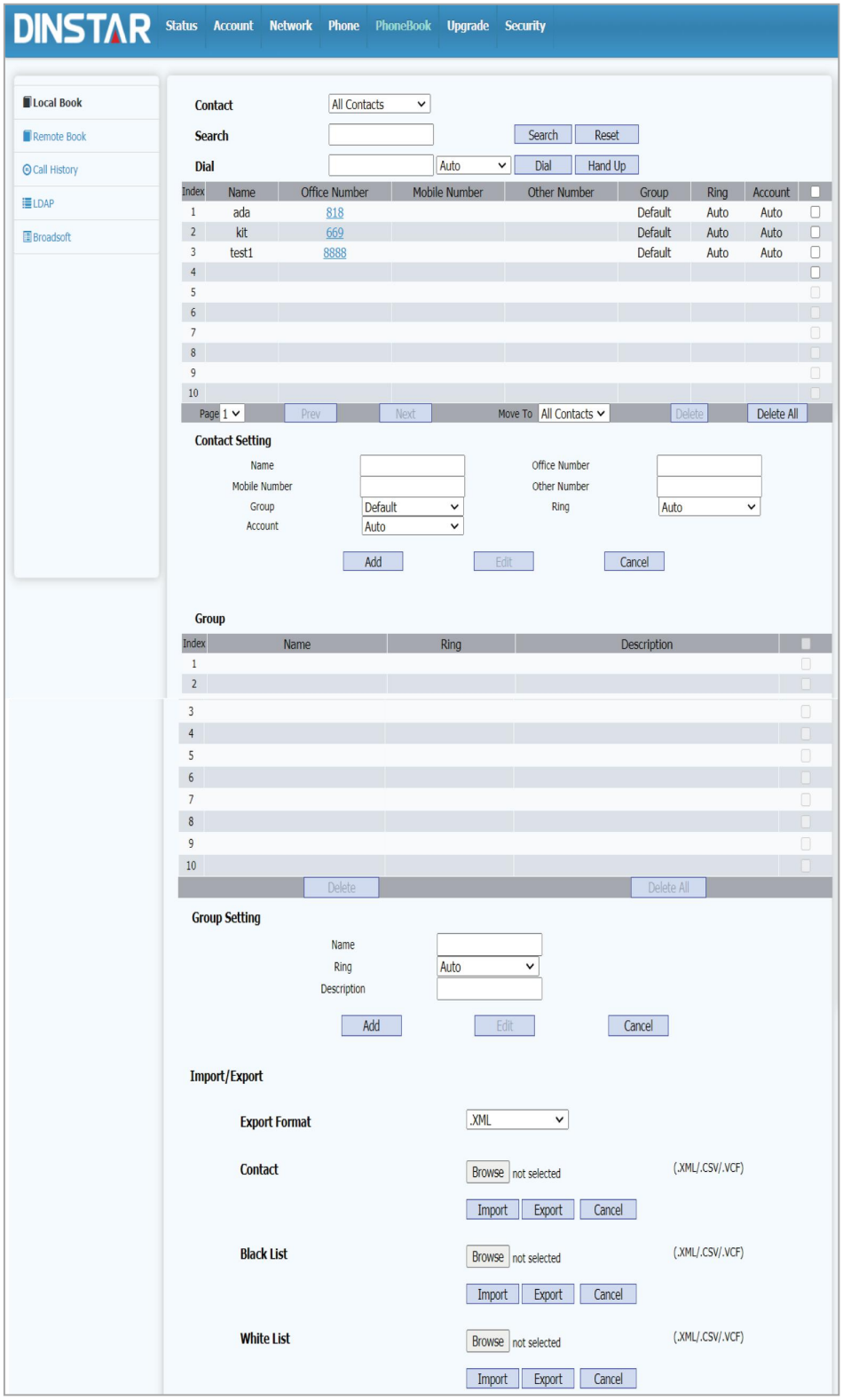
5.5.13 Phone->ACD



Sections	Description
ACD	ACD (Automatic Call Distribution) is the most commonly used in the call center. It allows IP phones to log in to the system in multiple states so that the system can distribute incoming calls to available users or agents. • ACD Vactivated Auto: If activated, the phone will automatically become available within a specified time (determined by the ACD automatic activation time). • ACD Vactivated Auto Timer: Configure the time interval for the phone to automatically become available.

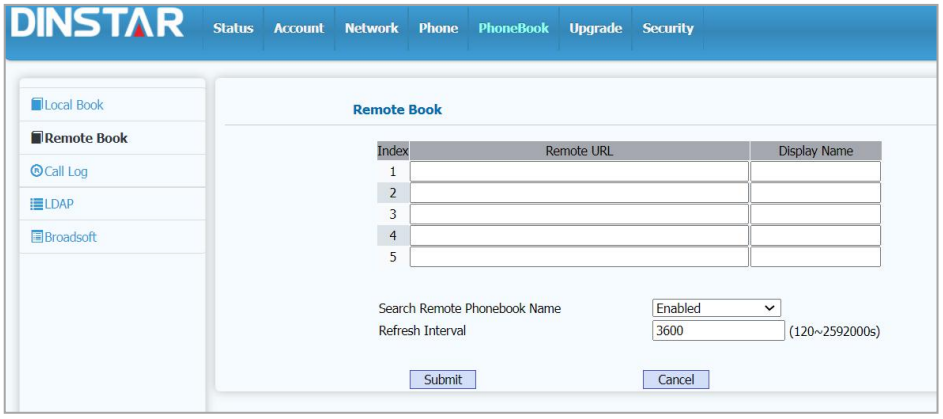
5.6 PhoneBook

5.6.1 PhoneBook->Local Book



Sections	Description
Contact	To select the type for local book. • All Contacts: To display or edit all local contacts. • Favorites: To display or edit favorites contacts. • Black List: To display black list contacts. • White List: To display white list contacts.
Search	To search designated contacts from local phonebook.
Dial	Dial out a call or hangup an ongoing call from Web UI. Note: For this feature, you need to have the remote control privilege to control IP phone via Web UI. Please refer to section "Remote Control" in the Web UI-> Phone -> Call Feature page.
Group Setting	Management group contacts.
Import/Export	Import or export the contact or blacklist file.

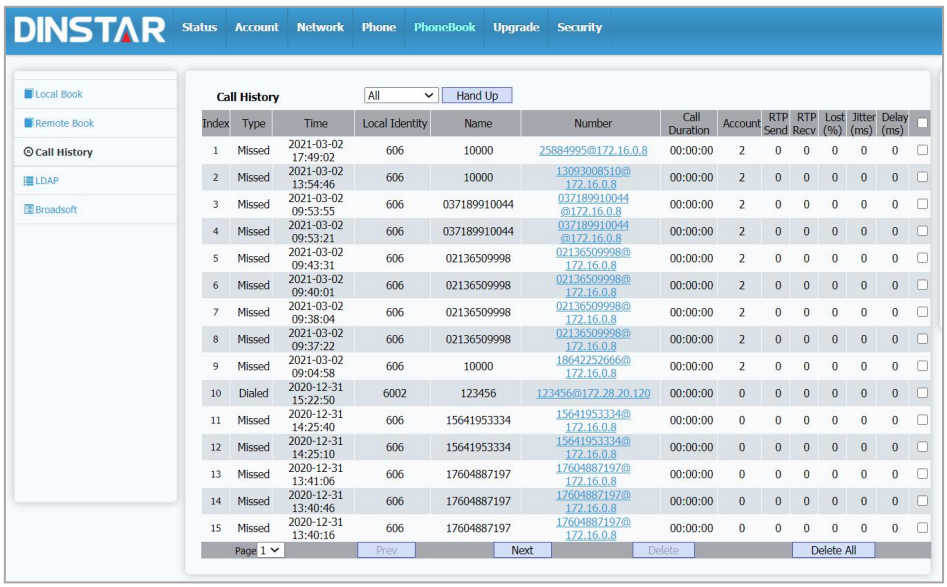
5.6.2 PhoneBook ->Remote Book



Sections	Description
Remote Book	Remote Book settings. • Index: To select desired Remote Book item to display and configure. • Remote URL: To configure remote book server address. • Display Name: To configure display remote book name on Phone UI.

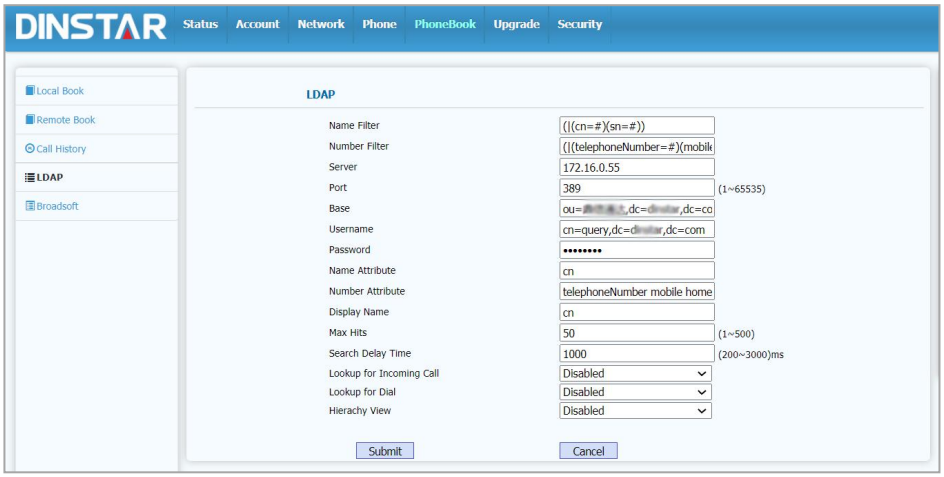
	• Search Remote Phonebook Name: To enable or disable search remote phonebook name. • Reflash Interval: To set interval (Range from 120s to 2592000s). **Note:** IP phone support at most 5 remote books. Please refer to your administrator for how to establish a remote book server and how to create remote book xml file.

5.6.3 PhoneBook -> Call History



Sections	Description
Call History	Available call history types are All calls, Dialed calls, Received calls, Missed calls, Forwarded calls. • Hang Up: To click to hangup ongoing call on the IP phone. **Note:** For“HangUp”feature, you need to have the remote control privilege to control IP phone via Web UI. Please refer to section “Remote Control”in the Web UI -> Phone -> Call Feature page.

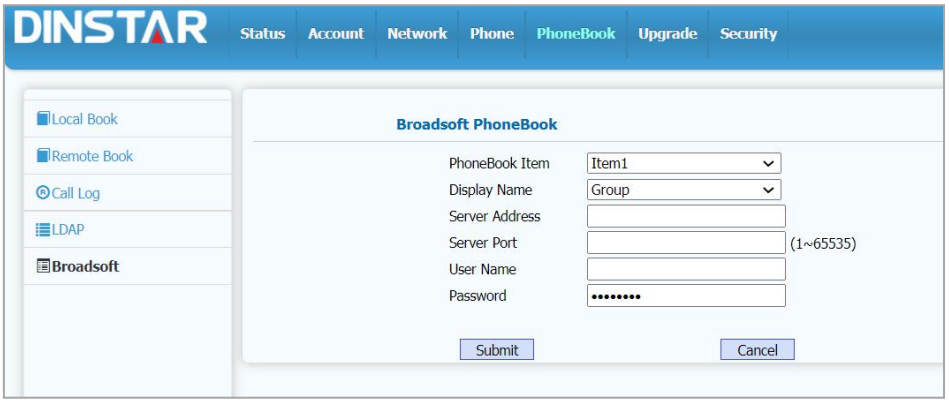
5.6.4 PhoneBook -> LDAP



Sections	Description
LDAP	LDAP phonebook settings. • Name Filter: The settings used to tell LDAP server what name attributes to search. • Number Filter: The settings used to tell LDAP server what number attributes to search. • Server: To configure LDAP server's address. • Port: To configure LDAP server's port. • Base DN: To configure searching base DN on LDAP server. • User Name: To configure user name for accessing LDAP server. • Password: To configure password for accessing LDAP server. • Name Attribute: To configure which name attributes should be feedback from LDAP server. • Number Attribute:To configure which number attributes should be feedback from LDAP server. • Display Name: To configure display name on Phone UI when there is any searching result from LDAP server. • Max Hits: To configure the maximum size of result response from LDAP server. • Search Delay Time: To configure delay time before initiate

Sections	Description
	LDAP searching request after you input a value from Phone UI. • When this function is enabled, the system will automatically match and display the incoming call information • When this function is enabled, the system will automatically match the outgoing number with the LDAP phonebook and display the contact information of the number • Set LDAP phone book level display When this function is enabled, the system will automatically match and display the incoming call information When this function is enabled, the system will automatically match the outgoing number with the LDAP phonebook and display the contact information of the number Set LDAP phone book level display • Lookup for Incoming Call: If enabled, the incoming call will be matched with the LDAP phone book and displayed. • Lookup for Dial: If enabled, it will be matched with the LDAP phonebook and displayed when calling out or replaying. • Hierachy View: If enabled, the LDAP phone book will display hierarchical directories, such as multiple departments of a company. **Note:** For setting details,please consult with your system administrator for further information.

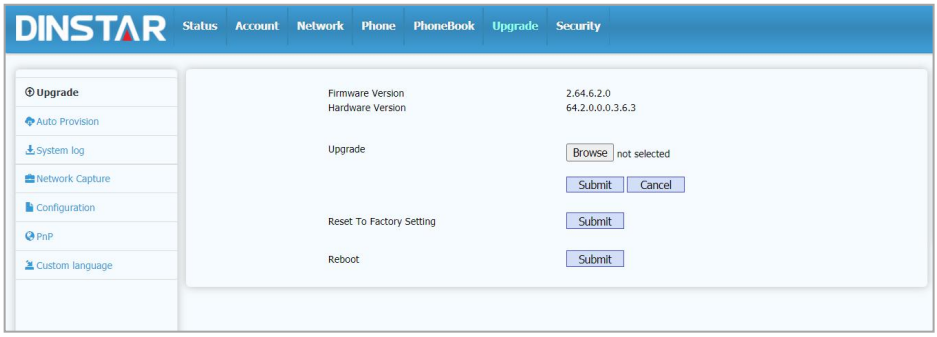
5.6.5 PhoneBook->Broadsoft



Sections	Description
Broadsoft PhoneBook	Broadsoft PhoneBook settings. • PhoneBook Item: To select specific item to configure. • Display Name: The name displayed at IP phone's LCD screen when accessed via Phone UI. • Server Address: Broadsoft PhoneBook server's address. • Server Port: Broadsoft PhoneBook server's port. • User Name: Username used to access Broadsoft PhoneBook server. • Password: Password used to access Broadsoft PhoneBook server. **Note:** IP phone supports at most 5 Broadsoft PhoneBook items. For Broadsoft PhoneBook's server address, port, username and password, you need to consult your Broadsoft service provider for further information.

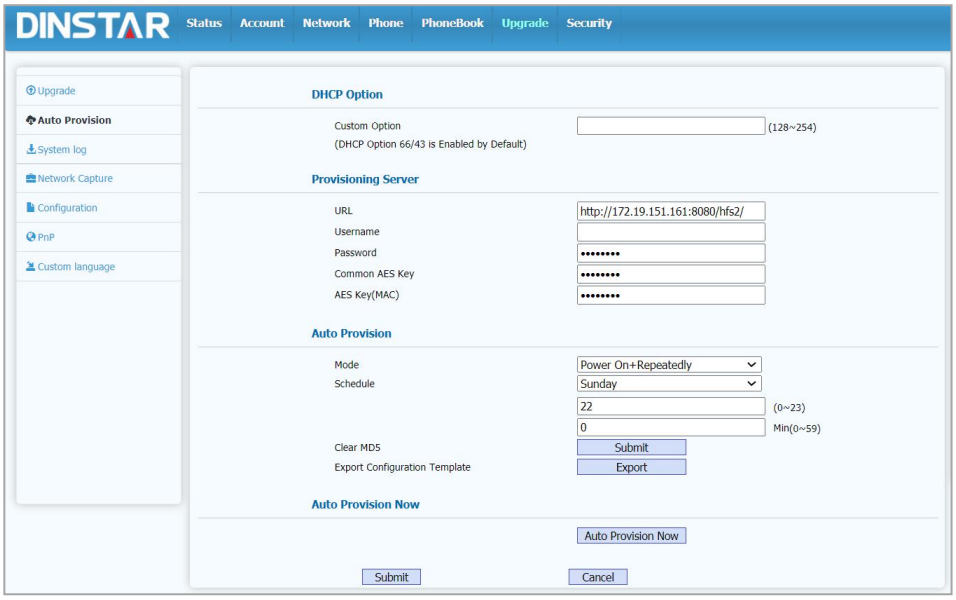
5.7 Upgrade

5.7.1 Upgrade->Upgrade



Sections	Description
Firmware Version	Show you the firmware version
Hardware Version	Show you the Hardware version.
Upgrade	To select upgrading rom file from local or a remote server automatically. **Note:** Please make sure it's right file format for right model.
Reset to Factory Setting	Allow you to reset IP phone's setting to factory settings.
Reboot	To reboot IP phone remotely from Web UI.

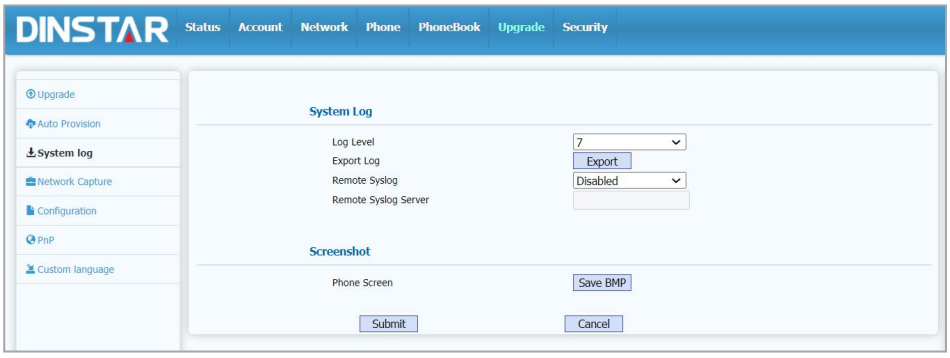
5.7.2 Upgrade -> Auto Provision



Sections	Description
DHCP Option	It configures custom DHCP option. • DHCP Option: If configured, IP Phone will use designated DHCP option to get Auto Provisioning server's address via DHCP. This setting require DHCP server to support corresponding option.
Provisioning Server	Update server settings. • URL: Auto provisioning server address. • User name: Configure if server needs an username to access, otherwise left blank. • Password: Configure if server needs a password to access, otherwise left blank. • Common AES Key: Used for IP phone to decipher common Auto Provisioning configuration file. • AES Key(MAC): Used for IP phone to decipher MAC-oriented auto provisioning configuration file(for example, file name could be 0c1105888888.conf if IP phone's MAC address is 0c1105888888). **Note:** AES is one of many encryption, it should be configure

Sections	Description
	only configure filed is ciphered with AES, otherwise left blank.
Auto Provision	Auto Provisioning mode settings. This Auto Provisioning mode is actually self-explanatory. For example, mode “Power on” means IP phone will go to do Provisioning every time it powers on. • Schedule: Set automatic update time. • Clear MD5: Used to clear MD5 of configuration fil • Export Configuration Template: Export Autoprovisioning configuration template file.
Auto Provision Now	Auto upgrade now

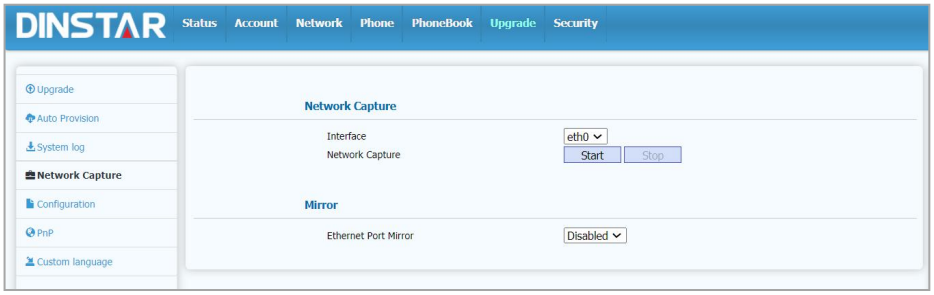
5.7.3 Upgrade->System Log



Sections	Description
System Log	To display system log level and export log . • Log Level:From level 0~7.The higher level means the more specific syslog is saved to a temporary file. By default, it's level 3. • Export Log: Click to export temporary syslog file to local PC. • Remote System Log: To enable or disable Remote System Log. • Remote System Log Server: To input the syslog server address.

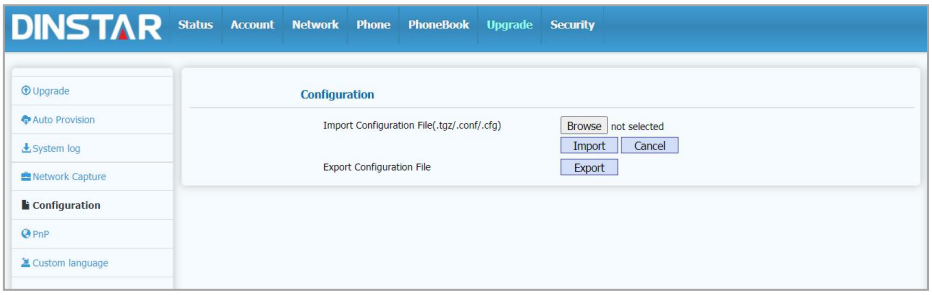
Sections	Description
Screenshot	Phone Screen: To capture and save the phone screen

5.7.4 Upgrade->Network Capture



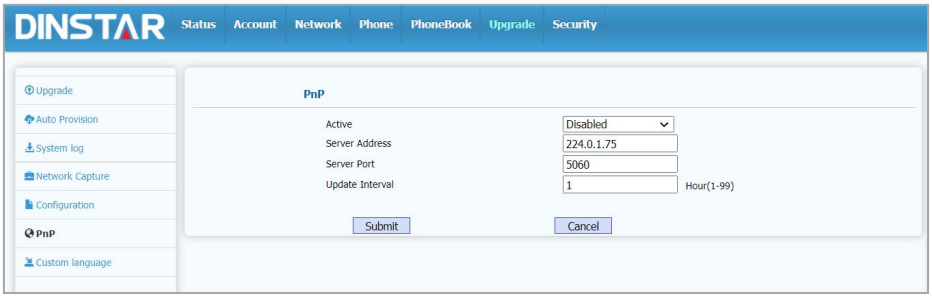
Sections	Description
Network Capture	Network packet capture settings and export data packet : • Interface: select the interface for network packet capture (eth0/vpn). • Start: To start capturing all the packets file sent or received from IP phone. • Stop: To stop capturing packets. **Note:** IP phone will save captured packets file to a temporary file, this file maximum size is 1M(mega bytes), and will top capturing once reaching this maximum size.
Mirror	Network port mirror settings: • Ethernet Port Mirror: If enabled, the PC port can mirror the packets of the Ethernet port.

5.7.5 Upgrade->Configuration



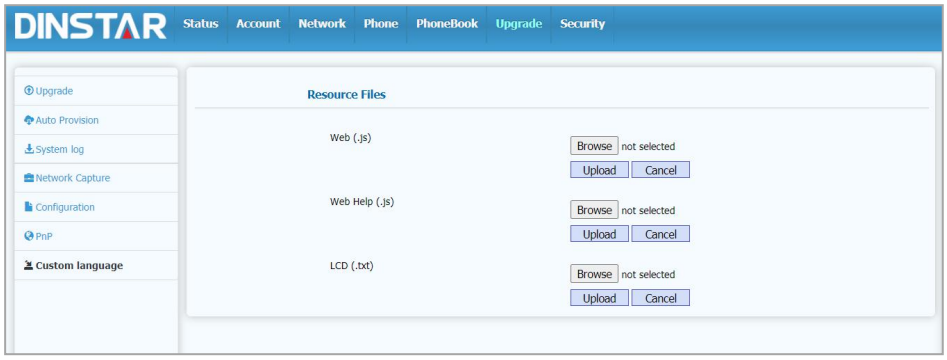
Sections	Description
Configuration	Export or import the configuration file of the IP phone

5.7.6 Upgrade->PnP



Sections	Description
PnP	PnP setting for Auto Provisioning. • Active: Once PNP is enabled, the phone will send SIP subscription message to PNP server automatically to get Auto Provisioning server's address.By default, this SIP message is sent to multicast address 224.0.1.75. • Server Address: The address of the PNP server. • Server Port: The port of the PNP server. • Update Interval: Check whether the PNP server has an update interval.

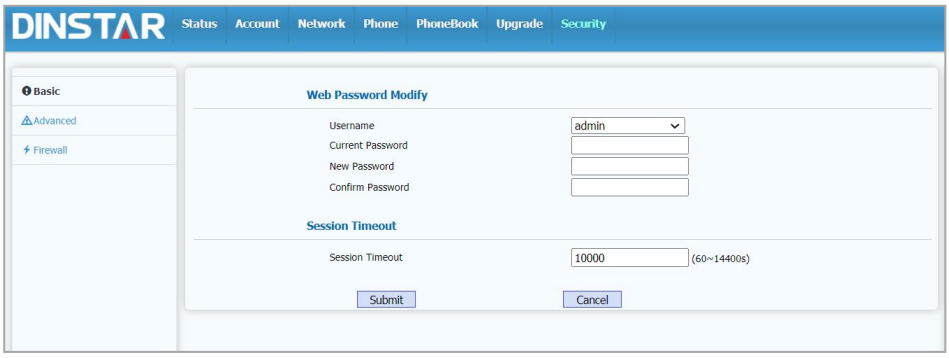
5.7.7 Upgrade->Custom Language



Sections	Description
Resource Files	• Web: Upload and set Web language other than help information. • Web Help: Upload and set Web help information language. • LCD: Upload and set the system language of the phone.

5.8 Security

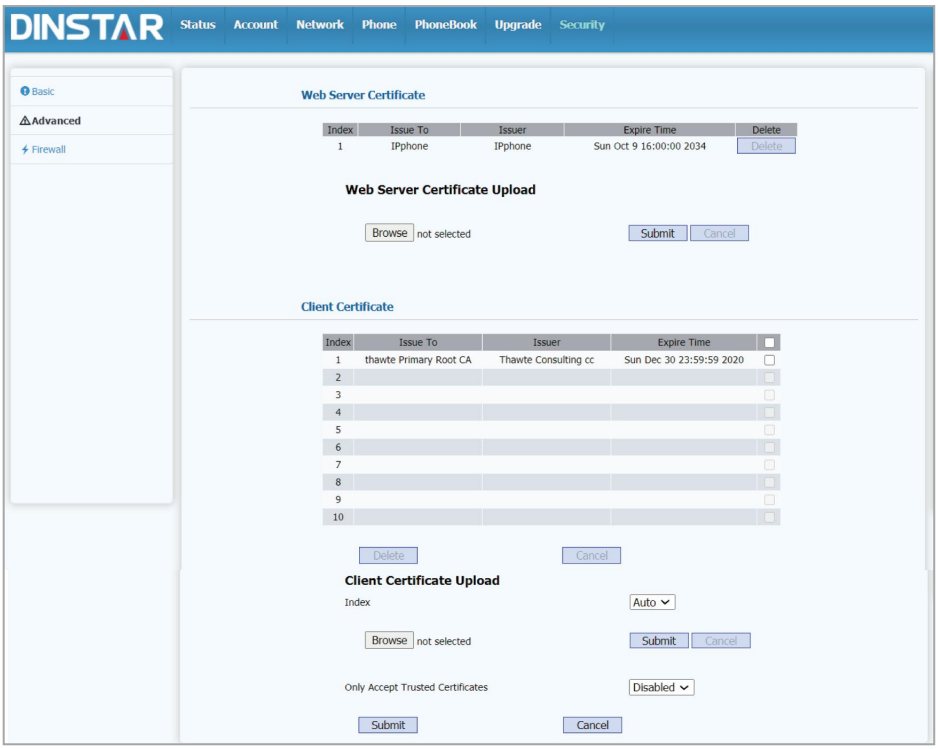
5.8.1 Security->Basic



Sections	Description
Web Password Modify	To modify Web password. • User Name: Select the user name (administrator or user) that needs to be modified • Current Password: The current password you used.

Sections	Description
	• New Password: Input new password you intend to use. • Confirm Password: Repeat the new password.
Session Timeout	It configures session timeout. • Session Timeout: The value specifies the timeout for login retry in seconds.

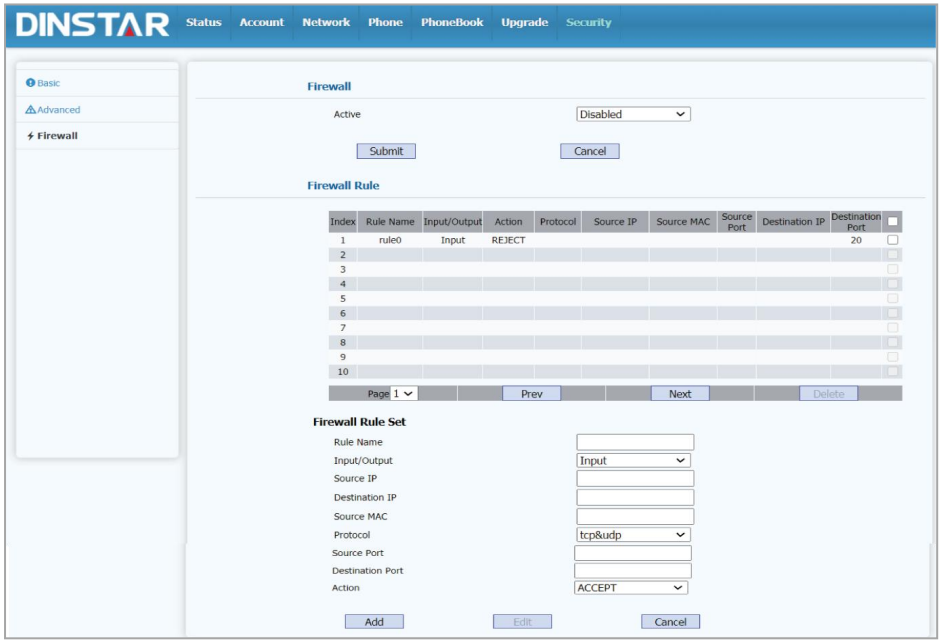
5.8.2 Security->Advanced



Sections	Description
Web Server Certificate	To display or delete Certificate which is used when IP phone is connected from any incoming HTTPs request. **Note:** The default certificate could not be deleted.
Web Server Certificate Upload	Upload certificate file which will be used as server certificate.
Client Certificate	To display or delete Certificates which is used when IP phone is connecting to any HTTPs server.

Client Certificate Upload	Upload certificate files which will be used as client certificate. • Only Accept trusted Certificates: If this option is enabled, only trusted certificates will be accepted.

5.8.3 Security->Firewall



Sections	Description
Firewall	Active: Enable or disable firewall
Firewall Rule	• Input/Output: Select the direction of the input and output of the network packet • Source IP: Set source IP • Destination IP: Set the destination IP • Source MAC: Set network source MAC • Protocol: Select the transmission protocol of the network packet • Source Port: Set the network source port • Destination Port: Set the network destination port • Action: To accept or reject network packets to pass

6 Troubleshooting

Issue 1: The LCD does not light up

- Check the AC power adapter. Make sure it is the one provided in your package.
- Check the power outlet. Make sure that the power that outlet you are plugging your device into is working. Try to plug a different device into the socket to make sure it has power.

Issue 2: No tone heard from the handset

- Check the connection cord between the handset and the phone. Make sure it is connected properly.

Issue 3: Cannot access the web system

- Check the connection between the PC port of the device and the network port of the computer. Make sure it is fine.
- Check whether the IP address of the device is correct.
- If it is LAN, please make sure there is no IP address conflict with other devices on the network.

Issue 4: Cannot call out

- Please see the network connection status of device, if it is exception, and then check the connection of network.
- If the network connection is normal, please check whether the device has registered successfully.
- If the network connection and the registered are both normal, please confirm whether the dial rule is correct, or please communicate with the service operator.

7 Appendix

7.1 Abbreviations

Abbreviation	Explanation
ACD	Automatic Call Distribution
BLF	Busy Lamp Field
CID	Caller Identity
DND	Do NOT Disturb
DTMF	Dual Tone Multi Frequency
DNS	Domain Name System
DHCP	Dynamic Host Configuration Protocol
NAT	Network Address Translation
LDAP	Lightweight Directory Access Protocol
LLDP	Link Layer Discovery Protocol
SNMP	Simple Network Management Protocol
TR069	Technical Report - 069
NMS	Network management system
PNP	Plug-and-Play
PPPoE	point-to-point protocol over Ethernet
NTP	Network Time Protocol
RTP	Real Time Protocol
SIP	Session Initiation Protocol
TCP	Transmission Control Protocol
UDP	User Datagram Protocol
802.1X	IEEE 802.1X
VPN	Virtual Private Network
WLAN	Wireless Local Area Network

7.2 Time Zones

Time Zone	Time Zone Name
-11	Samoa
-10	United States-Hawaii-Aleutian
-10	United States-Alaska-Aleutian
-9	United States-Alaska Time
-8	Canada(Vancouver,Whitehorse)
-8	Mexico(Tijuana,Mexicali)
-8	United States-Pacific Time
-7	Canada(Edmonton,Calgary)
-7	Mexico(Mazatlan,Chihuahua)
-7	United States-Mountain Time
-7	United States-MST no DST
-6	Canada-Manitoba(Winnipeg)
-6	Chile(Easter Islands)
-6	Mexico(Mexico City,Acapulco)
-6	United States-Central Time
-5	Bahamas(Nassau)
-5	Canada(Montreal,Ottawa,Quebec)
-5	Cuba(Havana)
-5	United States-Eastern Time
-4:30	Venezuela(Caracas)
-4	Canada(Halifax,Saint John)
-4	Chile(Santiago)
-4	Paraguay(Asuncion)
-4	United Kingdom-Bermuda(Bermuda)
-4	United Kingdom(Falkland Islands)
-4	Trinidad&Tobago
-4	Curaçao

Time Zone	Time Zone Name
-3:30	Canada-New Foundland(St.Johns)
-3	Denmark-Greenland(Nuuk)
-3	Argentina(Buenos Aires)
-3	Brazil(no DST)
-3	Brazil(DST)
-2	Brazil(no DST)
-1	Portugal(Azores)
0	GMT
0	Greenland
0	Denmark-Faroe Islands(Torshaven)
0	Ireland(Dublin)0 Portugal(Lisboa,Porto,Funchal)
0	Spain-Canary Islands(Las Palmas)
0	United Kingdom(London)
0	Morocco
+1	Poland(Warsaw)
+1	Albania(Tirane)
+1	Austria(Vienna)
+1	Belgium(Brussels)
+1	Caicos
+1	Chatham
+1	Croatia(Zagreb)
+1	Czech Republic(Prague)
+1	Denmark(Copenhagen)
+1	France(Paris)
+1	Germany(Berlin)
+1	Hungary(Budapest)
+1	Italy(Rome)
+1	Luxembourg(Luxembourg)
+1	Makedonia(Skopje)

Time Zone	Time Zone Name
+1	Netherlands(Amsterdam)
+1	Namibia(Windhoek)
+2	Estonia(Tallinn)
+2	Finland(Helsinki)
+2	Gaza Strip(Gaza)
+2	Greece(Athens)
+2	Israel(Tel Aviv)
+2	Jordan(Amman)
+2	Latvia(Riga)
+2	Lebanon(Beirut)
+2	Moldova(Kishinev)
+2	Russia(Kaliningrad)
+2	Romania(Bucharest)
+2	Syria(Damascus)
+2	Turkey(Ankara)
+2	Ukraine(Kyiv,Odessa)
+3	East Africa Time
+3	Iraq(Baghdad)
+3	Russia(Moscow)
+3	30 Iran(Teheran)
+4	Armenia(Yerevan)
+4	Azerbaijan(Baku)
+4	Georgia(Tbilisi)
+4	Kazakstan(Aqtau)
+4	Russia(Samara)
+5	Kazakstan(Aqtobe)
+5	Kyrgyzstan(Bishkek)
+5	Pakistan(Islamabad)
+5	Russia(Chelyabinsk)

Time Zone	Time Zone Name
+5	Russia(Yekaterinburg)
+5:30	India(Calcutta)
+6	Kazakstan(Astana,Almaty)
+6	Russia(Novosibirsk,Omsk)
+7	Russia(Krasnoyarsk)
+7	Thailand(Bangkok)
+8	China(Beijing)
+8	Singapore(Singapore)
+8	Australia(Perth)
+9	Korea(Seoul)
+9	Japan(Tokyo)
+9:30	Australia(Adelaide)
+9:30	Australia(Darwin)
+10	Australia(Sydney,Melbourne,Canberra)
+10	Australia(Brisbane)
+10	Australia(Hobart)
+10	Russia(Vladivostok)
+10:30	Australia(Lord Howe Islands)
+11	New Caledonia(Noumea)
+12	New Zealand(Wellington,Auckland)
+12:45	New Zealand(Chatham Islands)
+13	Tonga(Nukualofa)
-7	United States-Mountain Time