

## 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 |  |
|------------------------------------|---------|------------------|--|
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## 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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## 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

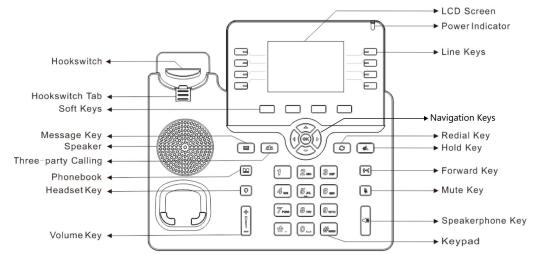
- SIP V1(RFC2543), V2(RFC3261)
- Static IP/DHCP/PPPoE for IP configuration
- 3 DTMF modes: In-Band, RFC2833, SIP INFO
- HTTP/HTTPS Web Server for Management
- NTP for Auto Time Setting
- TFTP/FTP/HTTP/HTTPS Protocols
- 802.1Q VLAN

#### 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

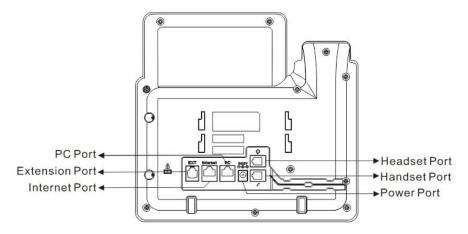




| Name   | Description   |  |
|--|---|--|
| LCD Screen Shows information about calls, messages, soft keys, time, and so on |   |  |
| Power LED<br>Indicator   | The power indicator indicates the call, message and phone's<br>system status:<br>Solid blue: The phone is idle.<br>Fast-flashing blue: The phone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

| Name                | Description   |
|---------------------|---|
| Line Keys           | When used as a programmable key or activated account, multiple<br>functions can be configured.<br>Line keys LED:<br>Solid green: The line is registered successfully<br>Fast-flashing green: The line receives an incoming call<br>Solid red : The line is in a call or calling out<br>Fast-flashing red : The line is on hold<br>Slow-flashing red : The line is registered failed<br>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<br>are displayed on the LCD screen.<br>The labels include: History, Favorites, Redial, Call Return, Hot<br>Desking, XML Browser, DND, Menu, MSG, Status, Book,<br>FWD, Pickup, Intercom, Speed Dial, and so on.   |
| Navigation Keys     | Assists you in selecting an item that you want to process under the<br>menu by pressing the Up, Down, Right or Left key. Press the OK<br>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          | <ul> <li>Picking up the handset from the handset cradle, the hookswitch bounces and the phone connects to the line.</li> <li>Put the handset down on the handset cradle, the phone disconnects from the line.</li> </ul>  |

## 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:



| Icons    | Description           | Icons             | Description       |
|----------|-----------------------|-------------------|-------------------|
| 5        | Registered            |                   | muted             |
| <b>S</b> | Register failed       |                   | Headset mode      |
| <b>6</b> | Registering           | ((                | Speakerphone mode |
| 6        | Register Disabled     | C)                | Handset mode      |
| A        | Auto answer           | $\mathbf{\times}$ | New text message  |
| •        | Do Not Disturb        | <b>_</b> ))       | New voice message |
| (→       | Forward               | $\sim$            | Miss calls        |
| ×        | Network Disconnection |                   | Keypad Lock       |

The icons displayed on the screen are as follows:

# **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

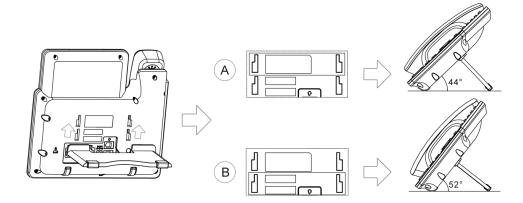
Power Adapter

| 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

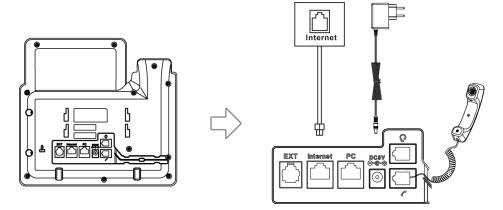
#### Step 1: Installing the stand

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

- 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...".
- 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.
- 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.

- Handset mode: Pick up the handset, the Sicon will be displayed in the upper left corner of the screen. And then enter a number or select a contact.
- 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.
- 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
- 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.
- 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

- Select History soft key or navigate to *Menu> History*, all call records will be displayed on the screen.
- 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

- 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.

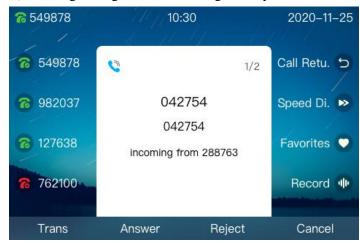
#### Procedure

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  $\bigotimes$  is displayed on the LCD screen, and the mute key lights up in red.

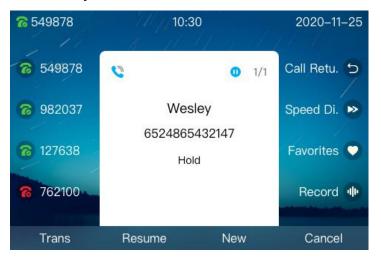
2) Press the **Mute Key** again to disable the mute mode.

## 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

 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.



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  $\bigcirc$  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.

| nc Feature Code |               |     |
|-----------------|---------------|-----|
| Active          | Disabled      | ~   |
| Mode            | O Phone 🔍 Cus | tom |

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.

| DND                  |                             |  |
|----------------------|-----------------------------|--|
| Account              | Account 1                   |  |
| DND                  | Enabled ~                   |  |
| Return Code When DND | 486 (Busy Here) Y           |  |
| DND On Code          |                             |  |
| DND Off Code         |                             |  |
| DND Timer Enable     | Enabled ~                   |  |
| DND Timer 1          | 0 Hour 0 Min 23 Hour 59 Min |  |
| DND Timer 2          | 0 Hour 0 Min 23 Hour 59 Min |  |
| DND Timer 3          | 0 Hour 0 Min 23 Hour 59 Min |  |

#### **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  $\bigcirc$  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:
```

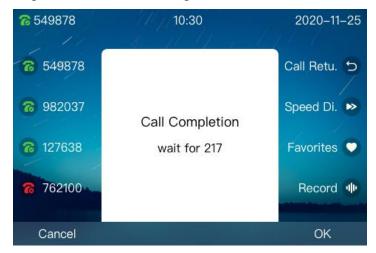
Not all servers support the call completion. Please consult your system administrator for further information.

#### 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.

| ync Feature Code |                  |  |
|------------------|------------------|--|
| Active           | Disabled 🗸       |  |
| Mode             | O Phone 🔘 Custom |  |

#### **(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  $\mathbf{G}$  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  $\bigcirc$ .

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

## 2. Using the forward button

- 1) When the phone rings, select the call forward key  $\mathbf{\mathbf{\mathcal{K}}}$ .
- 2) Enter the number to be forwarded or select a number from the book.



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.

- 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** OF 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 OF** or **Send** soft key.
- 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

- 1) Call the first party.
- 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.

 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.
- 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

- 1) Call the first party.
- 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.
- 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.

- Navigate to Menu> Features> Programmable Keys> Line Keys/ Soft Keys/ Function Keys
- (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

- Navigate to Menu> Features> Programmable Keys> Line Keys/ Soft Keys/ Function Keys and select the soft key Enter.
- (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

- Navigate to Menu> Features> Programmable Keys> Line Keys/ Soft Keys/ Function Keys and select the soft key Enter.
- (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

- Navigate to Menu> Features> Programmable Keys> Line Keys / Soft Keys / Function Keys.
- (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.

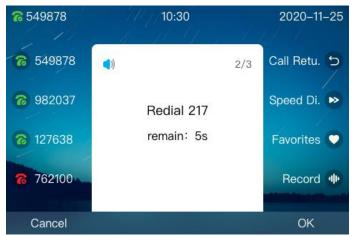
```
Note:
```

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 or 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

- Navigate to Menu> Features> Intercom. 1)
- 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  $\bigotimes$  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 pre-   | esses the Hot Desking key, the phone screen will prompts "Whether to                               |
| clear all accou | int configurations", select Clear to enter the account configuration. For                          |
| further inform  | ation, please refer to <i>Menu</i> > <i>Settings</i> > <i>Advanced Settings</i> > <i>Account</i> . |

## 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

- Navigate to Menu> Features> Programmable Keys> Line Keys / Soft Keys / Function Keys.
- (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.

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.

| Keypad Lock         |              |          |  |
|---------------------|--------------|----------|--|
| Keypad Lock Type    | Function Key | ~        |  |
| Keypad Unlock PIN   | •••••        | (0~15)   |  |
| Keypad Lock Timeout | 0            | (0~3600s |  |

**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

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

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

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

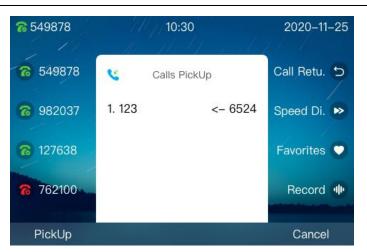
- 1) Navigate to *Menu> Features> Programmable Keys> Line Keys*.
- 2) Select the type of BLF in the type bar: BLF/New Call. BLF/BXFER. BLF/AXFER.
- 3) (Optional) Enter the information displayed on the screen in the label bar.
- 4) Enter the number to be monitored in the value bar.
- 5) (Optional) Select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

- 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.

- 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.<br>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.

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

- (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

 Navigate to Menu> Settings> Basic Settings> Date & Time> SNTP Settings.

- Press the left / Pright 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.
- (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

- Navigate to Menu> Settings> Basic Settings> Date & Time> Manual Settings.
- 2) Enter the date and time.
- 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

- Navigate to Menu> Settings> Basic Settings> Date & Time> Format Settings.
- Press the left / right key or the Switch soft key to select the time format (12-hour system or 24-hour system).

Press the left / Pright 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

- Navigate to Menu >Settings > Basic Setting >Date & Time >Display Mode Setting.
- Press Left X / 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:

- 1) Navigate to *Menu ->Settings ->Basic Setting ->Ring Tones*.
- 2) Press the Up Down key to select the desired ring tone.
- 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 (1, 2) 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*.
- Press the left Y 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 **u** 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.

will use the ring tone assigned.

- 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
- 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:**

- 1) Press **Phonebook** key **U** or navigate to *Menu* > *Book*.
- 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 **V** / **P** 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

- Press Phonebook key or navigate to Menu > Book >Local phone book.
- 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.
- 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.
- Press the Option soft key and then select Add to Contacts from the display list.
- 3) Press **OK** soft key or **OK** key **OS** to enter the Add Contact interface.
- Press the Save soft key to accept the change or the Back soft key to cancel.

## **Searching Contacts**

- 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 **I** 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:

- 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.
- 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

- 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

- 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;
- 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

- 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

- Navigate to Menu > Settings > Advanced Settings (password: admin) > Network > LAN Port > LAN Mode.
- 2) Press the up (4) down keys to select the "IPv4" or "IPv6".



Note:

you need to reboot to take effect after modifying.

## 4.5.2 DHCP Mode

## **Configuring the DHCP Mode:**

#### Procedure

- Navigate to Menu > Settings > Advanced Setting (password: admin) > Network > LAN Port > IPv4 / IPv6.
- Press the Up Down key on the phone keyboard to select DHCP (default is DHCP).
- Press the *Enter* soft key or the OK key interface, it will auto return to last interface after seconds.

## 4.5.3 Static IP Mode

## **Configuring the Static IP Mode:**

## Procedure

- 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  $\bigcirc$  or the Save soft key to save.

## 4.5.4 **PPPoE Mode**

## **Configuring the PPPOE Mode:**

- 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

- Navigate to Menu > Settings > Advanced Setting(password: admin) > Network > VLAN Port > LAN Port.
- Press the Left Right key or Switch soft key to select Enable in the LAN Port activation field.
- 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:**

- Navigate to Menu > Settings > Advanced Setting(password: admin) > Network > VLAN Port > PC Port.
- Press the Left Press the Left Right key or Switch soft key to select Enable in the PC Port activation field.
- Press the Up Down key to enter the VID and Priority in the corresponding fields.

4) Press the **OK** key **OS** 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

- Navigate to Menu > Settings > Advanced Setting (password: admin) > Web Server.
- Press the Left V / 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 **(Solution**) 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

- Navigate to Menu > Settings > Advanced Settings (password: admin) > Password Settings.
- Enter the current password, new password and confirm password in the corresponding area.
- 3) Press **OK** or set.

# 4.9 Auto Provision

Setting automatic update version for phone:

## Procedure

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

## 4.10 **Reboot**

## **Restart the phone:**

- 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 of 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.
- 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**

| User Name |                            |
|-----------|----------------------------|
| Password  |                            |
| Language  | English                    |
|           | Remember Username/Password |
|           | Login                      |

#### 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:

| INSIAR | Status Account Network Phone PhoneBook U  | pgrade Security   | LogOut O Language Eng  |
|--------|---|---|--|
| Basic  | Product Information   |   | Help   |
|        | Model<br>MAC Address<br>SN<br>Firmware Version<br>Hardware Version                        | C64G<br>7c:baxcc:33:00:fa<br>de59-0328-3092-0126<br>2.64.6.2.0<br>64.2.0.0.0.3.6.3        | Description<br>You can click here to get more guides.<br>Warning : |
|        | Network Information   |   | Field Description :  |
|        | LAN Mode (IPv4/IPv6)  | IPv4  |  |
|        | IPv4  |   |  |
|        | LAN fort Type<br>LAN IP Address<br>LAN Subnet Mask<br>LAN Gateway<br>LAN INS1<br>LAN DNS2 | Static 19<br>172.19.66.64<br>255.255.0.0<br>172.19.1.1<br>8.8.8.8                         |  |
|        | Account Information   |   |  |
|        | Account1<br>Account2<br>Account3  | None@None<br>UnRegistered<br>UnRegistered<br>UnRegistered<br>UnRegistered<br>UnRegistered |  |
|        | Account4  | None@None<br>UnRegistered   |  |
|        | Other   |   |  |
|        | LAN Link Status<br>System Uptime<br>Primary NTP<br>Secondary NTP                          | Connected<br>04:05:59<br>0.pool.ntp.org   |  |
|        | VPN Status<br>NMS Status  | 1.pool.ntp.org<br>Disabled<br>Disabled  |  |

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

| Sections | Description                |
|----------|----------------------------|
|          | VPN status and NMS status. |

# 5.3 Account

# 5.3.1 Account->Basic

| DINSTAR    | Status Account Network   | Phone PhoneBook | Upgrade Security  |                          |
|------------|--|-----------------|---|--------------------------|
| L Basic    | SIP Account  |                 |   |                          |
| E Advanced | Status<br>Account<br>Active<br>Display Labe<br>Display Nam<br>Register Nar<br>Username<br>Password | ne              | Registration Failed           Account1: 6002         ✓           Enabled         ✓           6002         ✓           6002         ✓           6002         ✓ |                          |
|            | SIP Server 1<br>Server IP<br>Registration  | Expires         | 172.28.20.120<br>1700   | Port 5060<br>(30~65535s) |
|            | SIP Server 2<br>Server IP<br>Registration<br>Outbound Pro:   |                 | 1800  | Port 5060<br>(30~65535s) |
|            | Active<br>Server IP<br>Backup Serv   |                 | Disabled ~  | Port 5060<br>Port 5060   |
|            | Transport Typ<br>Transport Ty<br>NAT   |                 | UDP ~   |                          |
|            | NAT<br>Stun Server   | Address         | Disabled ~  | Port 3478                |
|            | VPN<br>VPN Preferre  | ed              | Enabled ~   |                          |
|            | Subr   | mit             | Cancel  |                          |

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

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

| 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.                |

| Basic    | SIP Account                                |                          |  |
|----------|--|--------------------------|--|
| Advanced | Account                                    | Account1: 6002 🗸         |  |
| Codecs   | Subscribe                                  |                          |  |
|          | MWI Subscribe                              | Disabled ~               |  |
|          | MWI Subscribe Period                       | 1800 (120~65535s)        |  |
|          | Voice Mail Number                          | *170*2#                  |  |
|          | BLF Expire                                 | 1800 (120~65535s)        |  |
|          | ACD Expire                                 | 1800 (120~65535s)        |  |
|          | DTMF                                       |                          |  |
|          | Туре                                       | RFC2833                  |  |
|          | DTMF Info Type                             | DTMF-Relay ~             |  |
|          | DTMF Payload                               | 101 (96~127)             |  |
|          | Call                                       |                          |  |
|          | Min Local SIP Port                         | 25000 (1024~65535)       |  |
|          | Max Local SIP Port                         | 28299 (1024~65535)       |  |
|          | Use New SIP Port When Registration Fail    | Enabled ~                |  |
|          | Call without Registration                  | Disabled ~               |  |
|          | Caller ID Header                           | PAI-RPID-FROM 🗸          |  |
|          | Auto Answer                                | Disabled ~               |  |
|          | Ringtones                                  | Default ~                |  |
|          | PRACK                                      | Disabled ~               |  |
|          | Invite with user=phone                     | Disabled ~               |  |
|          | Send MAC Info                              | Disabled ~               |  |
|          | PTime                                      | 20 ×                     |  |
|          | Anonymous Call                             | Disabled ~<br>Disabled ~ |  |
|          | Anonymous Call Rejection<br>Privacy Number | None Y                   |  |
|          | Escape non-ASCII characters                | Enabled V                |  |
|          | Missed Call Display on LCD                 | Enabled V                |  |
|          | Trust SIP Server Only                      | Disabled V               |  |
|          | TLS version                                | Adaptive 🗸               |  |
|          | Hotline                                    |                          |  |
|          | Active                                     | Disabled V               |  |
|          | Number                                     | Disabled 🗸               |  |
|          | Delay Time                                 | 4 (0~5s)                 |  |
|          | Delay Time                                 | 4 (0~55)                 |  |
|          | Music Server                               | 1                        |  |
|          | Active 截图(Alt + A)                         | Disabled ~               |  |
|          | Music Server                               |                          |  |
|          | Contra Trans                               |                          |  |
|          | Session Timer                              |                          |  |
|          | Active                                     | Disabled ~               |  |
|          | Session Expire                             | 1800 (90~7200s)          |  |
|          | Session Refresher                          | UAC 🗸                    |  |
|          | BLF List                                   |                          |  |
|          | BLF List URI                               | []                       |  |
|          |  |                          |  |
|          | BLF List Pickup Code                       |                          |  |
|          | BLF List Barge in Code                     |                          |  |
|          |  |                          |  |
|          | Broadsoft                                  |                          |  |
|          | Broadsoft                                  | Disabled ~               |  |
|          |  | Disabled ~               |  |

# 5.3.2 Account->Advanced

| P Keep Alive Messages      | Enabled   | ~  |
|----------------------------|---|--|
| P Alive Msg Interval       | 30  | (5~60s)  |
| ort                        | Disabled  | ~  |
| rence                      |   |  |
| pe                         | Local   | ~  |
| nference URI               |   |  |
| Igent                      |   |  |
| er-Agent                   |   |  |
| Alive                      |   |  |
| tive                       | Disabled  | ~  |
| ep Alive Interval          | 15  | (5~3600s)  |
| ep Alive Error Code        |   | (100~699)  |
| 5                          |   |  |
| nc Time from SIP Server    | Disabled  | -  |
| e IPv6 Stateless Address   | Enabled   | ~  |
| P Registration Retry Timer | 3   | (0~1800s)  |
|                            |   |  |
|                            | IP Alive Msg Interval<br>ort<br>rence<br>pe<br>Inference URI<br>Agent<br>er-Agent<br>Vive<br>er-Agent<br>Vive<br>er Agent<br>Vive<br>ep Alive Interval<br>ep Alive Error Code<br>a<br>nc Time from SIP Server<br>e IPv6 Stateless Address | IP Alive Msg Interval 30<br>ort Disabled<br>pe Local •<br>nference URI •<br>ser-Agent •<br>Nive •<br>Nive •<br>Disabled •<br>pabled •<br>pabled •<br>pable Interval 15<br>pabled •<br>pable Interval 15<br>pable Interval 15<br>pabl |

| Sections    | Description  |
|-------------|--|
| SIP Account | Show you current Account settings or to select which account to display.   |
| Subscribe   | <ul> <li>It configures MWI, BLF, ACD subscription features.</li> <li>MWI Subscribe: Message Waiting Indicator which is used to<br/>indicate whether there is unread new voice message.Enable or<br/>disable a subscription for MWI service.</li> <li>MWI Subscribe Period: the IP phone sends a refresh<br/>SUBSCRIBE request before initial SUBSCRIBE expiration.</li> <li>Voice Mail Number: The IP phone will subscribe to the voice<br/>mail number for MWI service using Subscribe MWI to Voice<br/>Mail.</li> <li>BLF Expire: BLF is short for Busy Lamp Field which is used<br/>to monitor the designated extension status. Configures the<br/>period (in seconds) of the BLF subscription for each account.</li> <li>ACD Expire: Automatic Call Distribution is often used in<br/>offices for customer service, such as call center. The setting<br/>here is to negotiate with the server about expire time of ACD<br/>subscription. Configures the period (in seconds) of ACD<br/>subscription for each account.</li> </ul> |
| DTMF        | It configures DTMF feature.<br>• 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.  |
|          | <b>Note:</b> 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. |
|          | 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.   |
| Call     | • 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.  |
|          | <ul> <li>Anonymous Call: If enabled, all outgoing call for the<br/>designated account will be anonymous number.</li> </ul>   |
|          | • 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   |
|               | 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.  |
| Hotline       | Number: Set the defined hotline number.   |
|               | Delay: Set the interval for automatic outgoing calls after hearing the dial tone.   |
|               | It configures third-party MOH (music-on-hold) server.   |
| Music Server  | • Active: To enable or disable this MOH server, If enabled, the   |
| Address       | IP phone will play MOH from configured server.  |
|               | • Music Server : To configure MOH server address.   |
|               | 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 Timer | • Session Expire: Configure session expire time.  |
|               | • Session Refresher: To configure who should be response for refreshing a session.  |
|               | <b>Note:</b> UAC means User Agent Client, here stands for IP phone.<br>UAS means User Agent Server, here stands for SIP server. |
|               | It configures BLF List URI address.   |
|               | • BLF List URI: BLF List is short for Busy Lamp Field List.   |
| BLF List      | • BLF List PickUp Code: To set the BLF pick up code.  |
|               |   |

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

| Basic    | SIP | Account   |    |  |          |
|----------|-----|---|----|--|----------|
| Advanced |     | Account   |    | Account1   | : 6002 🗸 |
| Codecs   | Aud | lio Codecs  |    |  |          |
|          |     | Disabled Codecs<br>G726-16<br>G726-24<br>G726-32<br>G726-40<br>ILBC_13_3<br>G723_53<br>AMR<br>OPUS<br>OPUS-WB | >> | Enabled Codecs<br>ILBC_15_2 A<br>G723_G3<br>G722<br>G729<br>PCMA<br>PCMU | 1        |

# 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.<br>Codec means coder-decoder which is used to transfer analog<br>signal to digital signal or vice versa. Familiar codecs are<br>PCMU(G711U), PCMA(G711A), G722(wide-bandth codecs),<br>G729, G723_53, G723_63, G726_16, G726_24, G726_32,<br>G726_40. |

# 5.4 Network

| DINSTAR            | Status Account Network Ph | one PhoneBook       | Upgrade | Security      |
|--------------------|---------------------------|---------------------|---------|---------------|
| ) Basic            | LAN Port Mode             |                     |         |               |
| Advanced           | LAN Mode (IPv4/IF         | v6)                 | IPv     | 4 ~           |
| & TR069            |                           |                     |         |               |
| USNMP              | LAN Port IPv4             |                     |         |               |
| ● NMS              | DHCP     Static IP        |                     |         |               |
| ♥ VLAN&Qo5         | IP Add                    |                     |         | .19.151.103   |
| <b>*</b> 802.1X    | Subne                     | : Mask<br>t Gateway |         | .255.0.0      |
| <b>Q</b> Diagnosis | Static                    | DNS                 | 0       | N OFF         |
|                    | LAN D                     |                     | 4.4.    |               |
|                    | Divo                      | <b>V</b> 32         | 0.0.    | 0.0           |
|                    | LAN Port IPv6             |                     |         |               |
|                    | DHCP     Static IP        |                     |         |               |
|                    | IP Add                    | ress                |         |               |
|                    | Prefix                    |                     |         |               |
|                    | Static                    | t Gateway<br>DNS    | o       | N OFF         |
|                    | LAN D                     |                     |         |               |
|                    | LAN D                     | NS2                 |         |               |
|                    | LAN PPPoE                 |                     |         |               |
|                    | O PPPoE<br>Userna         | me                  |         |               |
|                    | Passw                     | ord                 | ••••    | ••••          |
|                    | PC Port                   |                     |         |               |
|                    | As Bridge                 |                     |         |               |
|                    | Speed and Duplex          |                     |         |               |
|                    | LAN port                  |                     | Auto    | o Negotiation |
|                    | PC port                   |                     | Auto    | o Negotiation |
|                    | Submit                    |                     | Cancel  |               |

# 5.4.1 Network->Basic

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

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

# 5.4.2 Network-Advanced

| DINSTAR         | Status Account | Network        | Phone    | PhoneBook | Upgrade | Security             |
|-----------------|----------------|----------------|----------|-----------|---------|----------------------|
| () Basic        | ш              | DP             |          |           |         |                      |
| #Advanced       |                | Active         |          |           |         | Disabled 🗸           |
| Ø TR069         |                | Packet Interve | al       |           |         | <b>30</b> (10~3600s) |
| U SNMP          | Lo             | cal RTP        |          |           |         |                      |
| ● NMS           |                | Min RTP Port   |          |           | [       | 11800 (1024~65535)   |
| ♥ VLAN&QoS      |                | Max RTP Port   |          |           |         | 12000 (1024~65535)   |
| <b>*</b> 802.1X | Dł             | ICP Option     |          |           |         |                      |
| Q Diagnosis     |                | Option 12 (Ho  | ostname) |           |         |                      |
|                 | SS             | н              |          |           |         |                      |
|                 |                | Active         |          |           | [       | Enabled 🗸            |
|                 | Op             | enVPN          |          |           |         |                      |
|                 |                | Active         |          |           |         | Disabled V           |
|                 |                | Upload(<50K)   | )        |           | [       | Browse not selected  |
|                 |                |                |          |           |         | Upload               |

| Sections | Description  |
|----------|--|
| LLDP     | <ul> <li>It configures LLDP feature.</li> <li>Active: To enable or disable LLDP feature.</li> <li>Packet Interval: To configure the interval for LLDP admin message.</li> <li>Note: LLDP stands for Link Layer Discovery Protocol, it's</li> </ul> |

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

# 5.4.3 Network ->TR069

| DINSTAR         | Status Accour | nt Network      | Phone PhoneBook   | Upgrade Security |   |              |
|-----------------|---------------|-----------------|-------------------|------------------|---|--------------|
| <b>b</b> Basic  |               | TR069           |                   |                  |   |              |
| Advanced        |               |                 | Active            | Disabled         | ~ | 1            |
| & TR069         |               |                 | Version           | 1.0              | ~ | ]            |
| USNMP           |               | ACS             | URL<br>Username   |                  |   | ]            |
| MMS             |               |                 | Password          | •••••            |   | 1            |
| ♥ VLAN&QoS      |               | Periodic Inform | Active            | Disabled         | ~ | ]            |
| ▼ VLANAQUS      |               |                 | Periodic Interval | 1800             |   | (3~24x3600s) |
| <b>*</b> 802.1X |               | CPE             | URL               |                  |   |              |
| Q Diagnosis     |               |                 | Username          |                  |   | ]            |
|                 |               |                 | Password          | •••••            |   | ]            |
|                 |               | Submit          |                   | Cancel           |   |              |

| Sections | Description  |  |  |  |  |  |
|----------|--|--|--|--|--|--|
| TR069    | <ul> <li>TR069 settings.</li> <li>Active: To enable or disable TR069 feature.</li> <li>Version: To select supported TR069 version (version 1.0 or 1.1).</li> </ul> |  |  |  |  |  |

- 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

| DINSTAR         | Status | Account | Network    | Phone | PhoneBook | Upgrade | Security |   |
|-----------------|--------|---------|------------|-------|-----------|---------|----------|---|
| <b>i</b> Basic  |        | SN      | мр         |       |           |         |          |   |
| Advanced        |        |         | Active     |       |           |         | Disabled | ~ |
| & TR069         |        |         | Version    |       |           |         | v1/v2c   | ~ |
| USNMP           |        |         | Trusted IP |       |           |         |          |   |
| ● NMS           |        |         | Subr       | nit   |           | Cancel  |          |   |
| ♥ VLAN&QoS      |        |         |            |       |           |         |          |   |
| <b>*</b> 802.1X |        |         |            |       |           |         |          |   |
| Q Diagnosis     |        |         |            |       |           |         |          |   |

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

# 5.4.5 Network ->NMS

| Basic       | NMS | 3              |        |                |   |
|-------------|-----|----------------|--------|----------------|---|
| Advanced    |     | Active         | (      | Enabled        | ~ |
| Ø TR069     |     | Server Address | [      | 146.56.194.252 | 2 |
| U SNMP      |     | Server Port    | [      | 20006          |   |
| U SMMP      |     | Interface      | [      | Default        | ~ |
| ► NMS       |     |                |        |                |   |
| VLAN&QoS    |     | Submit         | Cancel |                |   |
| ₩ 802.1X    |     |                |        |                |   |
| Q Diagnosis |     |                |        |                |   |

| Sections | Description   |
|----------|---|
| NMS      | <ul> <li>It configures NMS feature.</li> <li>Active: Enable or disable NMS function.</li> <li>Server Address: The address of the NMS server.</li> <li>Server Port: The port of the NMS server.</li> <li>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</li> </ul> |

# 5.4.6 Network ->VLAN&QoS

| 100 m           |          |               |          |          |
|-----------------|----------|---------------|----------|----------|
| Basic           | VLAN     |               |          |          |
| Advanced        | LAN Port | Active        | Disabled | ~        |
| Ø TR069         |          | VID           | 1        | (1~4094) |
| U SNMP          |          | Priority      | 0        | ~        |
|                 | PC Port  | Active<br>VID | Disabled | ✓        |
| MMS             |          |               | 1        | (1~4094) |
| ♥ VLAN&QoS      |          | Priority      | U        | •        |
| <b>*</b> 802.1X | QoS      |               |          |          |
| Q Diagnosis     |          | SIP QoS       | 40       | (0~63)   |
|                 |          | Voice QoS     | 40       | (0~63)   |

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

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

# 5.4.7 Network ->802.1X

| DINSTAR         | Status Account Network Phone PhoneBook Upgrade Security |
|-----------------|---|
| () Basic        | 802.1X  |
| Advanced        | 802.1X Mode Disabled                                    |
| Ø TR069         | Provisioning Mode Unauthenticated Pr v                  |
| USNMP           | Anonymous ID  |
|                 | Identity  |
| ● NMS           | Password  |
| ♥ VLAN&QoS      | Submit Cancel   |
| <b>*</b> 802.1X | CA Certificate  |
| Q Diagnosis     |   |
|                 | Index Issue To Issuer Expire Time                       |
|                 | 1   |
|                 | 3   |
|                 | 4<br>5  |
|                 |   |
|                 | Delete  |
|                 | CA Certificate index Select                             |
|                 | Index 1 🗸   |
|                 | CA Certificate Upload Index Auto >                      |
|                 |   |
|                 | Browse not selected Submit Cancel                       |
|                 | Device Certificate                                      |
|                 | Index Issue To Issuer Expire Time                       |
|                 | 1 2   |
|                 | 3 4   |
|                 | 5   |
|                 | Delete  |
|                 | Device Certificate index Select                         |
|                 | Index 1 v   |
|                 | Device Certificate Upload                               |
|                 | Index Auto ~  |
|                 | Browse not selected Submit Cancel                       |
|                 |   |
|                 | Submit Cancel   |

| Sections | Description  |
|----------|--|
|          | It configures 802.1X feature.  |
| 802.1X   | <ul> <li>802.1X Mode: To enable or disable 802.1X.</li> <li>Anonymous ID: Configure the anonymous ID used to hide the real 802.1X user.</li> </ul> |
|          | • 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<br>Upload | Upload the file that will be used as the device certificate.   |

### 5.4.8 Network ->Diagnosis

| DINSTAR         | Status | Account | Network     | Phone   | PhoneBook | Upgrade | Security |
|-----------------|--------|---------|-------------|---------|-----------|---------|----------|
| () Basic        |        | Di      | agnosis     |         |           |         |          |
| Advanced        |        |         | Command     |         |           | F       | Ping ~   |
| 8 TR069         |        |         | Destination | Address |           |         |          |
| <b>U</b> SNMP   |        |         |             |         |           |         |          |
| ● NMS           |        |         |             |         |           |         |          |
| ♥ VLAN&QoS      |        |         |             |         |           |         |          |
| <b>*</b> 802.1X |        |         |             |         |           |         |          |
| @ Diagnosis     |        |         |             |         |           |         |          |
|                 |        |         |             |         |           |         |          |
|                 |        |         |             |         |           |         |          |
|                 |        |         | Sta         | rt      |           | Stop    |          |

| Sections  | Description                         |
|-----------|-------------------------------------|
| Diagnosis | Used to detect network connectivity |

#### 5.5 Phone

| DINSTAR                   | Status Accou         | t Network     | Phone | PhoneBook | Upgrade | Security    |  |  |
|---------------------------|----------------------|---------------|-------|-----------|---------|-------------|--|--|
| ₽Basic                    |                      | LCD Language  |       |           |         |             |  |  |
| © Time&Date               | LCD Language English |               |       |           |         |             |  |  |
| Call Feature              |                      | Headset Mode  |       |           |         |             |  |  |
| 📼 Voice                   |                      | Ringing from  |       |           |         | Speaker V   |  |  |
| ● Key                     |                      |               |       |           |         |             |  |  |
| A Ringtones               |                      | Key Tone      |       |           |         |             |  |  |
| <ul> <li>Tones</li> </ul> | Volume               |               |       |           | 5       | 5 (0~10)    |  |  |
| 🖬 Dial Plan               |                      | Ringtone Volu | me    |           |         |             |  |  |
| Action URL                |                      | Volume        |       |           | 3       |             |  |  |
| Multicast                 |                      | Display       |       |           |         |             |  |  |
| Forward&DND               |                      | Backlight Lev | /el   |           | 1       | ~           |  |  |
| # Intercom                | Backlight Time       |               |       |           |         | Always On ~ |  |  |
| © ACD                     |                      | Screensaver   | Time  |           | 3       | 30 ~        |  |  |
|                           |                      | Subr          | nit   |           | Cancel  |             |  |  |

| 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        | <ul> <li>Adjust the sound volume for key press.</li> <li>Volume: The valid volume range is from 0~10, by default it's 5.</li> </ul>   |  |  |  |  |  |
| Ringtone Volume | <ul> <li>Adjust the sound volume for ringtone.</li> <li>Volume: The valid volume range is from 0~10, by default it's 5</li> </ul>   |  |  |  |  |  |
| Display         | <ul> <li>Backlight Level: Adjust the backlight intensity of the phone interface.</li> <li>Backlight Time: Adjust the backlight timer, once it expires, the backlight on the phone interface will dim.</li> <li>Screensaver Time: Adjust the standby time of the screen saver on.</li> <li>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.</li> </ul> |  |  |  |  |  |

#### 5.5.1 Phone->Basic

| DINSTAF      | <b>R</b> Status Account | Network Phone               | PhoneBook | Upgrade | Security               |        |          |           |
|--------------|-------------------------|-----------------------------|-----------|---------|------------------------|--------|----------|-----------|
| € Basic      | For                     | mat Setting                 |           |         |                        |        |          |           |
| ) Time&Date  |                         | Time Format                 |           | 12      | Hour                   | ×      |          |           |
| Call Feature | Date Format             |                             |           |         | /MM/YYYY               | *<br>* |          |           |
| D Voice      |                         | Display Mode                |           | Da      | le                     | •      |          |           |
| ОКеу         | Tim                     | ne&Date                     |           |         |                        |        |          |           |
| Ringtones    |                         | O Manual                    |           |         |                        |        |          |           |
| NT           |                         | Date                        |           |         | Year                   |        | Mon      | Day       |
| D Tones      |                         | Time                        |           |         | Hour                   |        | Min      | Sec       |
| Dial Plan    |                         | ● NTP                       |           |         |                        |        |          |           |
|              |                         | Time Zone                   |           | +8      | +8 China(Beijing)      |        |          |           |
| Action URL   |                         | Primary Server              |           |         | ool.ntp.org            |        |          |           |
| Multicast    |                         | Secondary Server            |           |         | ool.ntp.org            |        |          |           |
|              | Update Interval         |                             |           |         | <b>3600</b> (>= 3600s) |        |          | )c)       |
| Forward&DND  |                         | opute interval              |           | 500     |                        |        | (>= 5000 | 15)       |
| ≓ Intercom   | Day                     | light Saving Time           |           |         |                        |        |          |           |
| ACD          |                         | Active                      |           | Aut     | to                     | ×      |          |           |
|              |                         | OffSet                      |           | 60      |                        |        | (-300~30 | 0Minutes) |
|              |                         | By Date                     |           |         |                        |        |          |           |
|              |                         | Start Time                  |           |         | 1 Mon                  | 1      | Day      | 0 Hour    |
|              |                         | End Time                    |           |         | 12 Mon                 | 31     | Day      | 23 Hour   |
|              |                         | By Week                     |           |         |                        |        |          |           |
|              |                         | Start Month                 |           | Jai     |                        | ~      |          |           |
|              |                         | Start Week Of Month         |           | Fir     | st In Month            | ~      |          |           |
|              |                         | Start Day Of Week           |           |         | onday                  | ~      |          |           |
|              |                         | Start Hour                  |           | 0       |                        |        | (0~23)   |           |
|              |                         | End Month                   |           | De      |                        | ~      |          |           |
|              |                         | End Week Of Month           |           |         | urth In Montl          |        |          |           |
|              |                         |                             |           | Su      | nday                   | ~      |          |           |
|              |                         | End Day Of Week             |           |         |                        |        |          |           |
|              |                         | End Day Of Week<br>End Hour |           | 23      |                        |        | (0~23)   |           |
|              | Dai                     |                             |           | 23      |                        |        | (0~23)   |           |
|              | Dai                     | End Hour                    |           |         | sabled                 | ~      | (0~23)   |           |

#### 5.5.2 Phone-Time&Date

| Sections       | Description   |
|----------------|---|
| Format Setting | <ul> <li>Time and date format settings.</li> <li>Time Format: Determine what format to display on Phone UI(12 hour/24 hour).</li> <li>Date Format: Determine what format to display on Phone UI for Date.</li> <li>Display Mode: Determine what mode to display Time&amp;Date on Phone UI.</li> </ul> |
| 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.  |
|                         | <b>Note:</b> 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.  |
|                         | <b>Note:</b> 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.  |
|                         | DST settings.   |
| Daylight Saving<br>Time | <b>Note:</b> 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). |
|                         | administrator for focal DST details).   |

|            | ⊁ Basic           |                                     |              |
|------------|-------------------|-------------------------------------|--------------|
| ~          | Enabled ~         | Active                              | Time&Date    |
| ~          | Enabled ~         | CallWaiting Tone                    | Call Feature |
|            |                   | On Code<br>Off Code                 | • Voice      |
|            |                   |                                     | ● Key        |
|            |                   | Auto Redial                         | A Ringtones  |
| ✓ (1~300s) | Disabled ~        | Auto Redial<br>Auto Redial Interval | n Tones      |
| (1~100)    | 3                 | Auto Redial Times                   | 🗐 Dial Plan  |
|            | Action URL        |                                     |              |
|            |                   | BLF Pickup Alert                    | 😭 Multicast  |
| ~          | Disabled ~        | BLF Pickup Alert                    | Forward&DND  |
|            |                   | Remote Control                      | ≓ Intercom   |
|            | any               | Allowed Access IP List              | © ACD        |
|            |                   | Others                              |              |
| y Here) 🗸  | 486 (Busy Here) 🗸 | Reject Response Code                |              |
| (0~5s)     | 0                 | Auto Answer Delay                   |              |
| (1~30s)    | 2                 | Auto Hangup Time                    |              |
| *          | Disabled 🗸        | Early DTMF                          |              |
|            | 2                 | Auto Hangup Time                    |              |

#### 5.5.3 Phone- Call Feature

| Sections           | Description  |  |  |  |
|--------------------|--|--|--|--|
| Call Waiting       | <ul> <li>It enables or disables Call Waiting.</li> <li>Active: If enabled, it allows IP phones to receive a new incoming call when there is already an active call.</li> <li>Call Waiting Tone: If enabled, it allows IP phones to play the call waiting tone to the waiting callee.</li> </ul>  |  |  |  |
| Auto Redial        | <ul> <li>Auto redial allows IP phones to redial an unsuccessful call<br/>for designated times within designated interval.</li> <li>Auto Redial: To enable or disable auto redial feature.</li> <li>Auto Redial Interval: Determine the interval between two<br/>consecutive attempts.</li> <li>Auto Redial Times: Determine how many times to redial.</li> </ul> |  |  |  |
| 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.   |  |  |  |  |  |  |
|          | <b>Note:</b> 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

| DINSTAR        | Status Account Network P  | hone PhoneBook | Upgrade Security |                          |
|----------------|---------------------------|----------------|------------------|--------------------------|
| <b>⊁</b> Basic | Echo Canceller            |                |                  |                          |
| () Time&Date   | Echo Canceller            |                | Disabled         | ~                        |
| Call Feature   | VAD                       |                | Disabled         | ~                        |
| Voice          | CNG                       |                | Enabled          | ~                        |
| <b>©</b> Кеу   | Jitter Buffer             |                |                  |                          |
| A Ringtones    | Jitter Type               |                | Adaptive         | ~                        |
| ■® Tones       | Min Delay<br>Normal Delay |                | 0                | (0~1000ms)<br>(0~1000ms) |
| Dial Plan      | Max Delay                 |                | 300              | (0~1000ms)               |
| Action URL     | Mic Volume                |                |                  |                          |
| 11 Multicast   | Handset Volume            |                | 5                | (1~10)                   |
| Forward&DND    | Headset Volume            |                | 5                | (1~10)                   |
| ≓ Intercom     | Handsfree Volum           | ne             | 5                | (1~10)                   |
| © ACD          | Submit                    | ]              | Cancel           |                          |

| 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  |
|---------------|--|
|               | <ul> <li>the presence or absence of human speech during a call.<br/>When detecting period of "silence", VAD replaces that<br/>silence efficiently with special packets that indicate silence<br/>is occurring. It can facilitate speech processing, and<br/>deactivate some processes during non-speech section of an<br/>audio session. It can avoid unnecessary coding or<br/>transmission of silence packets in VoIP applications,<br/>saving on computation and network bandwidth.</li> <li>CNG (Comfort Noise Generation): Allow IP phone to<br/>generate comfortable background noise for voice<br/>communications during periods of silence in a<br/>conversation. It is a part of the silence suppression or VAD<br/>handling for VoIP technology. CNG, in conjunction with<br/>VAD algorithms, quickly responds when periods of silence<br/>occur and inserts artificial noise until voice activity<br/>resumes. The insertion of artificial noise gives the illusion<br/>of a constant transmission stream, so that background<br/>sound is consistent throughout the call and the listener<br/>does not think the line has released.</li> </ul> |
| Jitter Buffer | <ul> <li>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.</li> <li>Fixed: Add the fixed delay to voice packets. You can configure the delay time for the static jitter buffer on IP phones.</li> <li>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.</li> <li>Min Delay: Set the minimum delay time</li> </ul>   |

| 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

| DINSTAR      | Status | Account | Network   | Phone              | Phon             | eBook | upgrade | Security        |       |                        |       |           |  |
|--------------|--------|---------|-----------|--------------------|------------------|-------|---------|-----------------|-------|------------------------|-------|-----------|--|
| Basic        |        |         | Line Key  |                    |                  |       |         |                 |       |                        |       |           |  |
| 9 Time&Date  |        |         |           | Key                | Туре             | 2     | Label   | Val             | le    | Accour                 | nt    | Extension |  |
| Call Feature |        |         | Lin       | e Key 1            | Record           | ~     |         |                 |       | Account 1              |       |           |  |
|              |        |         | Lin       | e Key 2            | Account          | ~     |         |                 |       | Account 2              | 2 🗸   |           |  |
| Voice        |        |         |           | e Key 3            | Account          | ~     |         |                 |       | Account 3              | _     |           |  |
| Кеу          |        |         |           | e Key 4            | Account          | ~     |         |                 |       | Account 4              |       |           |  |
| Ringtones    |        |         |           | e Key 5            | N/A              | ~     |         |                 |       | Account 1<br>Account 1 |       |           |  |
| Tones        |        |         |           | e Key 6<br>e Key 7 | N/A<br>Favorites |       |         |                 |       | Account 1              |       |           |  |
|              |        |         |           |                    | Voice Me         |       |         |                 |       | Account 1              |       |           |  |
| Dial Plan    |        |         |           | ,.                 |                  |       | ·       |                 |       |                        |       |           |  |
| Action URL   |        |         | Soft Key  |                    |                  |       |         |                 |       |                        |       |           |  |
| Multicast    |        |         |           | Key                | Туре             |       | Label   | Val             | le    | Accour                 | nt    |           |  |
| Forward&DND  |        |         | Sof       | ft Key 1           | History          | ~     |         |                 |       | Auto                   | ~     |           |  |
|              |        |         | Sof       | ft Key 2           | Book             | ~     |         | All             | ~     | Auto                   | ~     |           |  |
| Intercom     |        |         | Sof       | ft Key 3           | DND              | ~     |         |                 |       | Auto                   | ~     |           |  |
| ACD          |        |         | Sof       | ft Key 4           | Menu             | ~     |         |                 |       | Auto                   | ~     |           |  |
|              |        |         | Function  | Key                |                  |       |         |                 |       |                        |       |           |  |
|              |        |         |           | Key                | Туре             |       | Value   | Accou           | int   |                        |       |           |  |
|              |        |         |           | ОК                 | Status           | ~     |         | Auto            | ~     |                        |       |           |  |
|              |        |         |           | orward             | Fwd              | ~     |         | Auto            | ~     |                        |       |           |  |
|              |        |         |           | Book               | Book<br>Redial   |       | All 🗸   | Auto            | ~     |                        |       |           |  |
|              |        |         |           | ReDial<br>Aute     |                  | ~     |         | Auto            | ~     |                        |       |           |  |
|              |        |         |           |                    | N/A<br>Voice Me  | ×     |         | Auto<br>Account |       |                        |       |           |  |
|              |        |         | Voice     | Message            | VOICE ME         | 55 •  |         | Account         | . 1 🗸 |                        |       |           |  |
|              |        |         | Keypad L  | .ock               |                  |       |         |                 |       |                        |       |           |  |
|              |        |         | Keypa     | d Lock Ty          | pe               |       |         | Disabl          | ed    | ~                      |       |           |  |
|              |        |         | Кеура     | d Unlock           | PIN              |       |         | •••••           | ••    | (                      | 0~15) |           |  |
|              |        |         | Кеура     | id Lock Tir        | neout            |       |         | 0               |       | k                      | 0~360 | 0s)       |  |
|              |        |         | Key As Se | end                |                  |       |         |                 |       |                        |       |           |  |
|              |        |         | Key A     | s Send             |                  |       |         | #               |       | ~                      |       |           |  |
|              |        |         |           |                    | _                |       |         |                 | _     |                        |       |           |  |
|              |        |         |           | Submi              |                  |       |         | Cancel          |       |                        |       |           |  |

| Sections | Description   |
|----------|---|
|          | Allows user to assign specific feature to the designated line key.<br>For line key, the available feature list:   |
| Line Key | <ul> <li>DND, Menu, MSG, Status, Book, Fwd, PickUp, Group PickUp,</li> <li>Intercom, Speed Dial, History, Favorites, Redial, Account,</li> <li>ACD, BLF, BLFList, Call Return, Hot Desking, Record, XML</li> <li>Browser, DTMF, Multicast Paging, Voice Message, Transfer,</li> <li>Call Park, XML History, XML PhoneBook.</li> </ul> |
| 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,<br>Intercom, Speed Dial, History, Favorites, Redial, Call Return,<br>Hot Desking, XML Browser, simple Menu, Voice Message,<br>XML History, XML PhoneBook, ACD.                          |
|              | Allows user to assign specific feature to the designated function keys. For function keys, the available features are as follows:  |
| Function Key | <ul><li>DND, Menu, MSG, Status, Book, Fwd, PickUp, Group PickUp,</li><li>Intercom, Speed Dial, History, Favorites, Redial, Call Return,</li><li>Hot Desking, XML Browser, Voice Message, Transfer, XML</li><li>History, XML PhoneBook.</li></ul> |
|              | Keypad lock can temporarily lock the phone keypad when not<br>in use. This feature helps prevent unauthorized use of the<br>phone.   |
| Keypad Lock  | • 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

| DINSTAR        | Status Account Networ                            | k Phone Phone | Book Upgrade S | Security   |  |  |
|----------------|--|---------------|----------------|------------|--|--|
| Basic          | Ringtones  |               |                |            |  |  |
| Time&Date      |  |               |                |            |  |  |
| , Call Feature | Upload(Max Total Size: 100K) Browse not selected |               |                |            |  |  |
| Voice          |  |               | Sub            | mit Cancel |  |  |
| ЭКеу           | Uploaded Ringtones                               |               |                |            |  |  |
| Ringtones      |  |               | Del            | ete        |  |  |
| N Tones        | Ring Tones Ring1.wav V                           |               |                |            |  |  |
| Dial Plan      | Ringing from Disabled V                          |               |                |            |  |  |
| Action URL     | Distinctive Ringers                              |               |                |            |  |  |
| 11 Multicast   | Index  | Keyword       | Ringtone       |            |  |  |
| Forward&DND    | 0  |               | Ring1.wav      | ~          |  |  |
| FOIWard&DND    | 1  |               | Ring1.wav      | ~          |  |  |
| Intercom       | 2  |               | Ring1.wav      | ~          |  |  |
| ACD            | 3  |               | Ring1.wav      | ~          |  |  |
| 311C0          | 4  |               | Ring1.wav      | ~          |  |  |
|                | 5  |               | Ring1.wav      | ~          |  |  |
|                | 6  |               | Ring1.wav      | ~          |  |  |
|                | 7  |               | Ring1.wav      | ~          |  |  |
|                | 8  |               | Ring1.wav      | ~          |  |  |

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

#### 5.5.7 Phone-Tones

| Select Country or Region | Default ~           |
|--------------------------|---------------------|
| Busy Tone                | 480+620/500,0/500   |
| RingBack Tone            | 440+480/2000,0/4000 |
| Dial Tone                | 350+440             |

| 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

| DINSTAR      | Status Account | Network Phone            | PhoneBook | Jpgrade | Security |         |        |
|--------------|----------------|--------------------------|-----------|---------|----------|---------|--------|
| ≁Basic       | Rules          | Replace R                | tule 🗸    |         |          |         |        |
| ©Time        | Index          | Account                  |           | Prefix  |          | Replace |        |
| Call Feature | 1              |                          |           |         |          |         |        |
| Confectore   | 2              |                          |           |         |          |         |        |
| Voice        | 4              |                          |           |         |          |         |        |
| ⊙Кеу         | 5              |                          |           |         |          |         |        |
|              | 6              |                          |           |         |          |         |        |
| A Ringtones  | 7              |                          |           |         |          |         |        |
| (I) Tones    | 8              |                          |           |         |          |         |        |
|              | 9              |                          |           |         |          |         |        |
| 🗉 Dial Plan  | 10             |                          |           |         |          |         |        |
| Action URL   | Page 1 🗸       | Prev                     | Nex       | t       | Add      | Edit    | Delete |
| Multicast    |                | Area Code                |           |         |          |         |        |
| Forward&DND  |                | Code                     |           |         |          |         |        |
| #Intercom    |                | Min Length<br>Max Length |           |         | 1        | (1~15)  |        |
| © ACD        |                | Account                  |           |         | Auto     | ×       |        |
|              |                | Submit                   |           |         | Cancel   |         |        |

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

#### b) Phone-Dial Plan-Dial Now

| DINSTAR      | Status Account | Network Phone PhoneBo                       | ook Upgrade Security           |        |
|--------------|----------------|---|--------------------------------|--------|
|              | Rules          | Dial Now 🗸                                  |                                |        |
| ©Time        | Index          | Account                                     | Dial Now Rule                  |        |
| Call Feature | 1 2            |   |                                |        |
| • Voice      | 3              |   |                                |        |
| ⊙Кеу         | 5              |   |                                |        |
| A Ringtones  | 7              |   |                                |        |
| ■)) Tones    | 8              |   |                                |        |
| Dial Plan    | 10             |   |                                |        |
| Action URL   |                | Add   | Edit                           | Delete |
| # Multicast  |                | Dial Now Delay                              |                                |        |
| Forward&DND  |                | All Dial Delay<br>Dial Now Delay            | Disabled v (0~15s)             |        |
| #Intercom    |                | Dial NOW Delay                              | 1 (0*155)                      |        |
| @ACD         |                | Area Code                                   |                                |        |
|              |                | Code<br>Min Length<br>Max Length<br>Account | 1 (1~15)<br>1 (1~15)<br>Auto ~ |        |
|              |                | Submit                                      | Cancel                         |        |

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

| Basic        | Action URL   |  |
|--------------|--|--|
| ) Time&Date  | Active Enabled ~   |  |
| Call Feature | Setup Completed  |  |
| Voice        | Registered   |  |
| ) Key        | Unregistered Registered Failed                             |  |
|              | Off Hook http://172.19.151.161:8080//?action=offhook&ip=\$ |  |
| Ringtones    | On Hook  |  |
| Tones        | Incoming Call  |  |
| Dial Plan    | Outgoing Call  |  |
| Action URL   | Established  |  |
| Multicast    | Open DND   |  |
| Forward&DND  | Close DND  |  |
|              | Open Always FWD  |  |
| Intercom     | Close Always FWD   |  |
| ACD          | Open Busy FWD Close Busy FWD                               |  |
|              | Open No Answered FWD                                       |  |
|              | Close No Answered FWD                                      |  |
|              | Transfer Call  |  |
|              | Blind Transfer   |  |
|              | Attended Transfer  |  |
|              | Hold   |  |
|              | UnHold   |  |
|              | Mute   |  |
|              | UnMute   |  |
|              | Missed Call  |  |
|              | IP Changed   |  |
|              | FWD Incoming Call  |  |
|              | Reject Incoming Call                                       |  |
|              | Answer New Call  |  |
|              | Transfer Finished  |  |
|              | Transfer Failed  |  |
|              | Idle To Busy   |  |
|              | Busy To Idle   |  |

#### 5.5.9 Phone-Action URL

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

| 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

| ✓ Basic      | Multicast Setting      |                   |       |          |
|--------------|------------------------|-------------------|-------|----------|
| ©Time        | Paging Barge           | Disabled ~        |       |          |
| Call Feature | Paging Priority Active |                   |       |          |
| ■ Voice      | Priority List          |                   |       |          |
| ⊙Key         | Phoney Lise            |                   |       |          |
| A Ringtones  | IP Address             | Listening Address | Label | Priority |
| •0) Tones    | 1 IP Address           |                   |       | 1        |
| Dial Plan    | 2 IP Address           |                   |       | 2        |
| ▲ Action URL | 3 IP Address           |                   |       | 3        |
|              | 4 IP Address           |                   |       | 4        |
| Multicast    | 5 IP Address           |                   |       | 5        |
| Forward&DND  | 6 IP Address           |                   |       | 6        |
| ≓ Intercom   | 7 IP Address           |                   |       | 7        |
| GACD         | 8 IP Address           |                   |       | 8        |
|              | 9 IP Address           |                   |       | 9        |
|              | 10 IP Address          |                   |       | 10       |

| Sections          | Description  |  |
|-------------------|--|--|
| Multicast Setting | <ul> <li>Multicast setting.</li> <li>Paging Barge: Choose the multicast number ,the range is 1-10.</li> <li>Paging priority Active: Enable o disable the multicast.</li> </ul> |  |

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

#### 5.5.11 Phone->Forward & DND

| Basic        | Sync Feature Code           |                                |
|--------------|-----------------------------|--------------------------------|
| 3 Time&Date  | Active                      | Disabled ~                     |
| Call Feature | Mode                        | Phone      Custom              |
| Voice        | Forward Transfer            |                                |
| € Key        | Account                     | All Account                    |
| Ringtones    | Always Forward              | Disabled ~                     |
| © Tones      | Target Number<br>On Code    |                                |
| Dial Plan    | Off Code                    |                                |
|              | Busy Forward                | Disabled ~                     |
| Action URL   | Target Number               |                                |
| Multicast    | On Code<br>Off Code         |                                |
| Forward&DND  | No Answer Forward           | Disabled                       |
| # Intercom   | No Answer Ring Time         | 30 ~                           |
| 3 ACD        | Target Number               |                                |
|              | On Code<br>Off Code         |                                |
|              | DND                         |                                |
|              |                             |                                |
|              | Account                     | All Account                    |
|              | DND<br>Return Code When DND | Enabled V<br>486 (Busy Here) V |
|              | DND On Code                 | 466 (busy here)                |
|              | DND Off Code                |                                |
|              | DND Timer Enable            | Disabled                       |
|              | DND Timer 1                 | 0 Hour 0 Min 8 Hour 30 1       |
|              | DND Timer 2                 | 12 Hour 10 Min 16 Hour 44 M    |
|              | DND Timer 3                 | 16 Hour 45 Min 16 Hour 55 I    |

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

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

| Sections | Description  |
|----------|--|
|          | <ul> <li>code should be sent back to the server when Do not disturb is turned on and there is an incoming call.</li> <li>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 .</li> <li>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.</li> <li>DND Timer Enable: Enable or disable DND timer. The DND timer can make DND take effect in a specified time period.</li> <li>Note: The DND timer can only be enabled when DND is turned on.</li> </ul> |

#### 5.5.12 Phone->Intercom

| Enabled  | ~ |
|----------|---|
| Disabled | ~ |
|          |   |

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

#### 5.5.13 **Phone->ACD**

| ACD Activated Auto       | Disabled 🗸 |         |
|--------------------------|------------|---------|
| ACD Activated Auto Timer | 90         | (0~180s |
|                          |            |         |

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

#### 5.6 PhoneBook

| DINSTAR      | Status Account Network Phone         | PhoneBook <b>Upgrade</b>  | Security                        |                                |            |
|--------------|--------------------------------------|---------------------------|---------------------------------|--------------------------------|------------|
| Local Book   | Contact All Con                      | tacts 🗸                   |                                 |                                |            |
| Remote Book  | Search                               |                           | Search Reset                    |                                |            |
| Call History | Dial                                 | Auto 🗸                    |                                 |                                |            |
| ≣ LDAP       | Index Name Office Number             | er Mobile Number          | Other Number                    | Group Ring                     |            |
| I Broadsoft  | 1 ada <u>818</u><br>2 kit <u>669</u> |                           |                                 | Default Auto<br>Default Auto   |            |
|              | 3 test1 <u>8888</u>                  |                           |                                 | Default Auto                   | Auto       |
|              | 5                                    |                           |                                 |                                |            |
|              | 6                                    |                           |                                 |                                |            |
|              | 8                                    |                           |                                 |                                |            |
|              | 9                                    |                           |                                 |                                |            |
|              | Page 1 V Prev                        | Next                      | ove To All Contacts 🗸           | Delete                         | Delete All |
|              | Contact Setting                      |                           |                                 |                                |            |
|              | Name<br>Mobile Number                |                           | Office Number<br>Other Number   |                                |            |
|              | Group                                | Default 🗸                 | Ring                            | Auto                           | ~          |
|              | Account                              | Auto 🗸                    |                                 |                                |            |
|              |                                      | Add                       | lit                             | ancel                          |            |
|              |                                      |                           |                                 |                                |            |
|              | Group                                |                           |                                 |                                |            |
|              | Index Name                           | Ring                      | C                               | Description                    |            |
|              | 2                                    |                           |                                 |                                |            |
|              | 3                                    |                           |                                 |                                |            |
|              | 4                                    |                           |                                 |                                |            |
|              | 6                                    |                           |                                 |                                |            |
|              | 7                                    |                           |                                 |                                |            |
|              | 8                                    |                           |                                 |                                |            |
|              | 10                                   |                           |                                 |                                |            |
|              | Delete                               |                           |                                 | Delete All                     |            |
|              | Group Setting                        |                           |                                 |                                |            |
|              | Name                                 | Auto                      | <b>v</b>                        |                                |            |
|              | Description                          |                           |                                 |                                |            |
|              |                                      | Add                       | lit                             | Cancel                         |            |
|              | _                                    |                           |                                 |                                |            |
|              | Import/Export                        |                           |                                 |                                |            |
|              |                                      |                           |                                 |                                |            |
|              | Export Format                        | YMI                       | V                               |                                |            |
|              | Export Format                        | .XML                      | ~                               |                                |            |
|              | Export Format<br>Contact             |                           | not selected                    | (.XML/.CSV/.V                  | /CF)       |
|              |                                      | Browse                    | not selected                    | (.XML/.CSV/.V                  | /CF)       |
|              |                                      |                           | not selected                    | (.XML/.CSV/.V                  | /CF)       |
|              |                                      | Browse                    | not selected                    | ( XML/.CSV/.\<br>( XML/.CSV/.\ |            |
|              | Contact                              | Browse<br>Impor           | not selected<br>t Export Cancel |                                |            |
|              | Contact                              | Browse                    | not selected<br>t Export Cancel | (XML).CSV/.X                   | /CF)       |
|              | Contact                              | Browse<br>Impor<br>Browse | not selected<br>t Export Cancel |                                | /CF)       |

#### 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**

| INSTAR      | Frances of second second |                             |           |                |
|-------------|--------------------------|-----------------------------|-----------|----------------|
| Local Book  | Ren                      | 10te Book                   |           |                |
| Remote Book |                          | Index R                     | emote URL | Display Name   |
| Call Log    |                          | 1                           |           |                |
| LDAP        |                          | 2                           |           |                |
| Broadsoft   |                          | 4                           |           |                |
|             |                          | Search Remote Phonebook Nam | Enabled   | ~              |
|             |                          | Refresh Interval            | 3600      | (120~2592000s) |
|             |                          | Submit                      | Cancel    |                |

| Sections    | Description  |
|-------------|--|
| Remote Book | <ul> <li>Remote Book settings.</li> <li>Index: To select desired Remote Book item to display and configure.</li> <li>Remote URL: To configure remote book server address.</li> <li>Display Name: To configure display remote book name on Phone UI.</li> </ul> |

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**

| Local Book   | Ca    | ll History |                        | All 🗸          | Hand Up      |                             |                  |         |             |   |             |                |   |   |
|--------------|-------|------------|------------------------|----------------|--------------|-----------------------------|------------------|---------|-------------|---|-------------|----------------|---|---|
| Remote Book  | Index | Туре       | Time                   | Local Identity | Name         | Number                      | Call<br>Duration | Account | RTP<br>Send |   | Lost<br>(%) | Jitter<br>(ms) |   |   |
| Call History | 1     | Missed     | 2021-03-02<br>17:49:02 | 606            | 10000        | 25884995@172.16.0.8         | 00:00:00         | 2       | 0           | 0 | 0           | 0              | 0 | ( |
| LDAP         | 2     | Missed     | 2021-03-02<br>13:54:46 | 606            | 10000        | 13093008510@<br>172.16.0.8  | 00:00:00         | 2       | 0           | 0 | 0           | 0              | 0 |   |
| Broadsoft    | 3     | Missed     | 2021-03-02<br>09:53:55 | 606            | 037189910044 | 037189910044<br>@172.16.0.8 | 00:00:00         | 2       | 0           | 0 | 0           | 0              | 0 | ( |
|              | 4     | Missed     | 2021-03-02<br>09:53:21 | 606            | 037189910044 | 037189910044<br>@172.16.0.8 | 00:00:00         | 2       | 0           | 0 | 0           | 0              | 0 |   |
|              | 5     | Missed     | 2021-03-02<br>09:43:31 | 606            | 02136509998  | 02136509998@<br>172.16.0.8  | 00:00:00         | 2       | 0           | 0 | 0           | 0              | 0 | ( |
|              | 6     | Missed     | 2021-03-02<br>09:40:01 | 606            | 02136509998  | 02136509998@<br>172.16.0.8  | 00:00:00         | 2       | 0           | 0 | 0           | 0              | 0 |   |
|              | 7     | Missed     | 2021-03-02<br>09:38:04 | 606            | 02136509998  | 02136509998@<br>172.16.0.8  | 00:00:00         | 2       | 0           | 0 | 0           | 0              | 0 | ( |
|              | 8     | Missed     | 2021-03-02<br>09:37:22 | 606            | 02136509998  | 02136509998@<br>172.16.0.8  | 00:00:00         | 2       | 0           | 0 | 0           | 0              | 0 |   |
|              | 9     | Missed     | 2021-03-02<br>09:04:58 | 606            | 10000        | 18642252666@<br>172.16.0.8  | 00:00:00         | 2       | 0           | 0 | 0           | 0              | 0 | ( |
|              | 10    | Dialed     | 2020-12-31<br>15:22:50 | 6002           | 123456       | 123456@172.28.20.120        | 00:00:00         | 0       | 0           | 0 | 0           | 0              | 0 |   |
|              | 11    | Missed     | 2020-12-31<br>14:25:40 | 606            | 15641953334  | 15641953334@<br>172.16.0.8  | 00:00:00         | 0       | 0           | 0 | 0           | 0              | 0 | ( |
|              | 12    | Missed     | 2020-12-31<br>14:25:10 | 606            | 15641953334  | 15641953334@<br>172.16.0.8  | 00:00:00         | 0       | 0           | 0 | 0           | 0              | 0 |   |
|              | 13    | Missed     | 2020-12-31<br>13:41:06 | 606            | 17604887197  | 17604887197@<br>172.16.0.8  | 00:00:00         | 0       | 0           | 0 | 0           | 0              | 0 | ( |
|              | 14    | Missed     | 2020-12-31<br>13:40:46 | 606            | 17604887197  | 17604887197@<br>172.16.0.8  | 00:00:00         | 0       | 0           | 0 | 0           | 0              | 0 |   |
|              | 15    | Missed     | 2020-12-31<br>13:40:16 | 606            | 17604887197  | 17604887197@<br>172.16.0.8  | 00:00:00         | 0       | 0           | 0 | 0           | 0              | 0 | ( |

| Sections     | Description  |
|--------------|--|
| Call History | <ul> <li>Available call history types are All calls, Dialed calls, Received calls, Missed calls, Forwarded calls.</li> <li>Hang Up: To click to hangup ongoing call on the IP phone.</li> <li>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 -&gt; Phone -&gt; Call Feature page.</li> </ul> |

#### 5.6.4 PhoneBook -> LDAP

|              | Status Account Netwo | rk Phone PhoneBoo       | ok Upgrade | Security                     |              |
|--------------|----------------------|-------------------------|------------|------------------------------|--------------|
| Local Book   | LDAI                 |                         |            |                              |              |
| Remote Book  |                      | lame Filter             |            | ( (cn=#)(sn=#))              | 1            |
| Call History | 1                    | lumber Filter           |            | ( (telephoneNumber=#)(mobile |              |
| ≣LDAP        | 3                    | ierver                  |            | 172.16.0.55                  | ]            |
| ELDAP        | 1                    | ort                     |            | 389                          | (1~65535)    |
| Broadsoft    |                      | lase                    |            | ou=#####_dc=dmilar,dc=co     |              |
|              | 1                    | Isername                |            | cn=query,dc=dimin_r,dc=com   | ]            |
|              | 1                    | assword                 |            |                              | ]            |
|              | 1                    | lame Attribute          |            | cn                           | ]            |
|              |                      | lumber Attribute        |            | telephoneNumber mobile home  |              |
|              | i i                  | Display Name            |            | cn                           | ]            |
|              | 1                    | fax Hits                |            | 50                           | (1~500)      |
|              |                      | earch Delay Time        |            | 1000                         | (200~3000)ms |
|              |                      | ookup for Incoming Call |            | Disabled 🗸                   |              |
|              |                      | ookup for Dial          |            | Disabled 🗸                   |              |
|              | 1                    | lierachy View           |            | Disabled 🗸                   |              |
|              |                      | Submit                  |            | Cancel                       |              |

| 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<br>match and display the incoming call information  |
|          | When this function is enabled, the system will automatically<br>match the outgoing number with the LDAP phonebook and<br>display the contact information of the number |
|          | Set LDAP phone book level display  |
|          | • Lookup for Incoming Call: If enabled, the incoming call wi<br>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.                                     |
|          | <b>Note:</b> For setting details, please consult with your system administrator for further information.   |

#### 5.6.5 **PhoneBook->Broadsoft**

| Local Book  | Broadsoft PhoneBook |       |   |           |
|-------------|---------------------|-------|---|-----------|
| Remote Book | PhoneBook Item      | Item1 | ~ |           |
| D Call Log  | Display Name Gro    |       |   |           |
|             | Server Address      |       |   | ]         |
| LDAP        | Server Port         |       |   | (1~65535) |
| Broadsoft   | User Name           |       |   | ]         |
|             | Password            |       |   | ]         |

| Sections               | Description  |
|------------------------|--|
| Broadsoft<br>PhoneBook | <ul> <li>Broadsoft PhoneBook settings.</li> <li>PhoneBook Item: To select specific item to configure.</li> <li>Display Name: The name displayed at IP phone's LCD screen when accessed via Phone UI.</li> <li>Server Address: Broadsoft PhoneBook server's address.</li> <li>Server Port: Broadsoft PhoneBook server's port.</li> <li>User Name: Username used to access Broadsoft PhoneBook server.</li> <li>Password: Password used to access Broadsoft PhoneBook server.</li> <li>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.</li> </ul> |

## 5.7 Upgrade

### 5.7.1 Upgrade->Upgrade

| DINSTAR           | Status  | Account                  | Network | Phone        | PhoneBook | Upgrade             | Security      |
|-------------------|---------|--------------------------|---------|--------------|-----------|---------------------|---------------|
| ⊕ Upgrade         |         |                          |         | ware Versior |           |                     | 2.64.6.2.0    |
| Auto Provision    |         | Hardware Version         |         |              |           | 64.2.0.0.3.6.3      |               |
| ± System log      | Upgrade |                          |         |              |           | Browse not selected |               |
| Network Capture   |         |                          |         |              |           |                     | Submit Cancel |
| Configuration     |         |                          |         |              | C.W       |                     | C. bart       |
| @ PnP             |         | Reset To Factory Setting |         |              |           |                     | Submit        |
| 🛎 Custom language |         |                          | Rebo    | ot           |           |                     | Submit        |
|                   |         |                          |         |              |           |                     |               |
|                   |         |                          |         |              |           |                     |               |

| 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<br>automatically.<br><b>Note:</b> Please make sure it's right file format for right model. |
| Reset to Factory<br>Setting | Allow you to reset IP phone's setting to factory settings.  |
| Reboot                      | To reboot IP phone remotely from Web UI.  |

| ⊕ Upgrade         | DHCP Option                               |                                  |
|-------------------|---|----------------------------------|
| Auto Provision    | Custom Option                             | (128~254)                        |
| ± System log      | (DHCP Option 66/43 is Enabled by Default) | (10 20)                          |
| Network Capture   | Provisioning Server                       |                                  |
| Configuration     | URL                                       | http://172.19.151.161:8080/hfs2/ |
| ♥ PnP             | Username                                  |                                  |
| a Custom language | Password<br>Common AES Key                |                                  |
|                   | AES Key(MAC)                              |                                  |
|                   | Auto Provision                            |                                  |
|                   | Mode                                      | Power On+Repeatedly              |
|                   | Schedule                                  | Sunday                           |
|                   |   | 22 (0~23)                        |
|                   | Clear MD5                                 | 0 Min(0~59)                      |
|                   | Export Configuration Template             | Export                           |
|                   | Auto Provision Now                        |                                  |
|                   |   | Auto Provision Now               |
|                   |   | Auto Fronsion Now                |
|                   | Submit                                    | Cancel                           |

## 5.7.2 Upgrade -> Auto Provision

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

| Sections              | Description   |  |  |  |  |
|-----------------------|---|--|--|--|--|
|                       | only configure filed is ciphered with AES, otherwise left blank.  |  |  |  |  |
| Auto Provision        | <ul> <li>Auto Provisioning mode settings.</li> <li>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.</li> <li>Schedule: Set automatic update time.</li> <li>Clear MD5: Used to clear MD5 of configuration fil</li> <li>Export Configuration Template: Export Autoprovisioning configuration template file.</li> </ul> |  |  |  |  |
| Auto Provision<br>Now | Auto upgrade now  |  |  |  |  |

## 5.7.3 Upgrade->System Log

|                   | s Account Network Phone PhoneBook U | pyruite Utaanny |
|-------------------|-------------------------------------|-----------------|
| ● Upgrade         |                                     |                 |
| Auto Provision —  | System Log                          |                 |
| ± System log      | Log Level<br>Export Log             | Z     Export    |
| Network Capture   | Remote Syslog                       | Disabled 🗸      |
| Configuration     | Remote Syslog Server                |                 |
| @ PnP             | Screenshot                          |                 |
| a Custom language | Phone Screen                        | Save BMP        |
|                   | Phone Screen                        | Save DMP        |
|                   | Submit                              | Cancel          |

| Sections   | Description   |
|------------|---|
| System Log | <ul> <li>To display system log level and export log .</li> <li>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.</li> <li>Export Log: Click to export temporary syslog file to local PC.</li> <li>Remote System Log: To enable or disable Remote System Log.</li> <li>Remote System Log Server: To input the syslog server address.</li> </ul> |

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

#### 5.7.4 Upgrade->Network Capture

| DINSTAR           | atus Account Network Phone PhoneBook Upgrade Security |  |
|-------------------|---|--|
| Upgrade           |   |  |
| Auto Provision    | Network Capture                                       |  |
| A System log      | Interface eth0 v Network Capture Start Stop           |  |
| Avetwork Capture  |   |  |
| Configuration     | Mirror  |  |
| @ PnP             | Ethernet Port Mirror Disabled 🛩                       |  |
| 🛎 Custom language |   |  |

| 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.   |
|                 | <b>Note:</b> 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**

| DINSTAR         | Status | Account | Network  | Phone        | PhoneBook             | Upgrade | Security            |
|-----------------|--------|---------|----------|--------------|-----------------------|---------|---------------------|
| Upgrade         |        |         | Configur | ation        |                       |         |                     |
| Auto Provision  |        |         | Impo     | rt Configura | ation File(.tgz/.conf | /.cfg)  | Browse not selected |
| ± System log    |        |         |          |              |                       |         | Import Cancel       |
| Network Capture |        |         | Expo     | rt Configura | tion File             |         | Export              |
| Configuration   |        |         |          |              |                       |         |                     |
| @ PnP           |        |         |          |              |                       |         |                     |
| Custom language |        |         |          |              |                       |         |                     |

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

#### 5.7.6 Upgrade->PnP

| DINSTAR           | Status Account Network Phone PhoneBook Upgrade Security      |
|-------------------|--|
| Upgrade           | PnP  |
| Auto Provision    | Active Disabled V  |
| Ł System log      | Server Address 224.0.1.75                                    |
| A Network Capture | Server Port         5060           Update Interval         1 |
| Configuration     |  |
| @ PnP             | Submit Cancel  |
| A Custom language |  |

| Sections | Description  |
|----------|--|
| PnP      | <ul> <li>PnP setting for Auto Provisioning.</li> <li>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.</li> <li>Server Address: The address of the PNP server.</li> <li>Server Port: The port of the PNP server.</li> <li>Update Interval: Check whether the PNP server has an update interval.</li> </ul> |

#### 5.7.7 Upgrade->Custom Language

| Upgrade           | Resource Files |                     |
|-------------------|----------------|---------------------|
| Provision         |                |                     |
| Ł System log      | Web (.js)      | Browse not selected |
| Network Capture   |                | Upload Cancel       |
| Configuration     | Web Help (.js) | Browse not selected |
| @ PnP             |                | Upload Cancel       |
| 🛎 Custom language | LCD (.txt)     | Browse not selected |
|                   |                | Upload Cancel       |

| Sections       | De | scription   |
|----------------|----|---|
|                | •  | Web: Upload and set Web language other than help information. |
| Resource Files | •  | 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

| <b>B</b> asic | Web Password Modify              |                   |
|---------------|----------------------------------|-------------------|
| Advanced      | Username                         | admin 🗸           |
|               | Current Password                 |                   |
|               | New Password<br>Confirm Password |                   |
|               | Session Timeout                  |                   |
|               | Session Timeout                  | 10000 (60~14400s) |

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

| Sections        | Description  |
|-----------------|--|
|                 | <ul><li>New Password: Input new password you intend to use.</li><li>Confirm Password: Repeat the new password.</li></ul>                 |
| Session Timeout | <ul> <li>It configures session timeout.</li> <li>Session Timeout: The value specifies the timeout for login retry in seconds.</li> </ul> |

#### 5.8.2 Security->Advanced

| 1        |                             |                                   |                      |                            |
|----------|-----------------------------|-----------------------------------|----------------------|----------------------------|
| Basic    | Web Serv                    | ver Certificate                   |                      |                            |
| Advanced | Index                       | Issue To                          | Issuer               | Expire Time Delete         |
| irewall  | 1                           | IPphone                           |                      | Oct 9 16:00:00 2034 Delete |
|          | v                           | Veb Server Certificate            | e Upload             |                            |
|          |                             |                                   |                      |                            |
|          |                             | Browse not selected               |                      | Submit Cancel              |
|          |                             |                                   |                      |                            |
|          |                             |                                   |                      |                            |
|          | Client Ce                   | rtificate                         |                      |                            |
|          | Index                       | Issue To                          | Issuer               | Expire Time                |
|          | 1                           | thawte Primary Root CA            | Thawte Consulting cc | Sun Dec 30 23:59:59 2020   |
|          | 2                           |                                   |                      |                            |
|          | 3                           |                                   |                      |                            |
|          |                             |                                   |                      |                            |
|          | 4                           |                                   |                      |                            |
|          | 4 5 6                       |                                   |                      |                            |
|          | 5                           |                                   |                      |                            |
|          | 5                           |                                   |                      |                            |
|          | 5<br>6<br>7<br>8<br>9       |                                   |                      |                            |
|          | 5<br>6<br>7<br>8            |                                   |                      |                            |
|          | 5<br>6<br>7<br>8<br>9       |                                   |                      |                            |
|          | 5<br>6<br>7<br>8<br>9<br>10 | Delete                            | Cancel               |                            |
|          | 5<br>6<br>7<br>8<br>9<br>10 | Delete<br>Jlient Certificate Uplo |                      |                            |
|          | 5<br>6<br>7<br>8<br>9<br>10 |                                   |                      |                            |
|          | 5<br>6<br>7<br>8<br>9<br>10 | Client Certificate Uplo           |                      | Auto Y                     |
|          | 5<br>6<br>7<br>8<br>9<br>10 | lient Certificate Uplo            |                      |                            |
|          | 5<br>6<br>7<br>8<br>9<br>10 | Client Certificate Uplo           | ad                   | Auto Y                     |

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

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

#### 5.8.3 Security->Firewall

|          | Status Acc | ount Ne | twork    | Phone      | PhoneBook    | Upgra  | ue so    | scurity   |            |                |                |                    |     |
|----------|------------|---------|----------|------------|--------------|--------|----------|-----------|------------|----------------|----------------|--------------------|-----|
| Basic    |            | E       | rewall   |            |              |        |          |           |            |                |                |                    |     |
| Advanced |            |         | Active   |            |              |        |          | Disabled  | ~          |                |                |                    |     |
| Firewall |            |         |          |            |              |        |          |           |            |                |                |                    |     |
|          |            |         |          | Submit     |              |        | - 1      | Cancel    |            |                |                |                    |     |
|          |            | F       | rewall F | Rule       |              |        |          |           |            |                |                |                    |     |
|          |            |         | Index    | Rule Name  | Input/Output | Action | Protocol | Source IP | Source MAC | Source<br>Port | Destination IP | Destinatio<br>Port | n 🗌 |
|          |            |         | 1 2      | rule0      | Input        | REJECT |          |           |            |                |                | 20                 |     |
|          |            |         | 3        |            |              |        |          |           |            |                |                |                    |     |
|          |            |         | 4        |            |              |        |          |           |            |                |                |                    |     |
|          |            |         | 5        |            |              |        |          |           |            |                |                |                    |     |
|          |            |         | 7        |            |              |        |          |           |            |                |                |                    |     |
|          |            |         | 8        |            |              |        |          |           |            |                |                |                    |     |
|          |            |         | 10       |            |              |        |          |           |            |                |                |                    |     |
|          |            |         |          | Page 1 🗸   |              | Pre    | ev 🛛     |           | Next       |                | De             | lete               |     |
|          |            |         | irewall  | Rule Set   |              |        |          |           |            |                |                |                    |     |
|          |            |         | Rule I   | Name       |              |        |          |           |            |                |                |                    |     |
|          |            |         | Input    | /Output    |              |        |          | Input     | ~          |                |                |                    |     |
|          |            |         | Sourc    | e IP       |              |        |          |           |            |                |                |                    |     |
|          |            |         | Destin   | nation IP  |              |        |          |           |            |                |                |                    |     |
|          |            |         | Sourc    | e MAC      |              |        |          |           |            |                |                |                    |     |
|          |            |         | Proto    | col        |              |        |          | tcp&udp   | ~          |                |                |                    |     |
|          |            |         | Source   | e Port     |              |        |          |           |            |                |                |                    |     |
|          |            |         |          | ation Port |              |        |          |           |            |                |                |                    |     |
|          |            |         | Action   |            |              |        | J,       | ACCEPT    | ~          |                |                |                    |     |
|          |            |         | _        | Add        |              | Edit   |          |           | Cancel     |                |                |                    |     |

| Sections      | Description  |  |  |  |  |  |
|---------------|--|--|--|--|--|--|
| Firewall      | Active: Enable or disable firewall   |  |  |  |  |  |
|               | • 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   |  |  |  |  |  |
| Firewall Rule | • 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                         |
| РРРоЕ        | point-to-point protocol over Ethernet |
| NTP          | Network Time Protocol                 |
| RTP          | Real Time Protocol                    |
| SIP          | Session Initiation Protocol           |
| ТСР          | 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          |