

Yealink



Yealink Ultra-elegant Gigabit IP Phone SIP-T48S User Guide

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The original GPL license, source code of components licensed under GPL and used in Yealink products can be downloaded online:

<http://www.yealink.com/GPLOpenSource.aspx?BaseInfoCateId=293&NewsCateId=293&CateId=293>.

About This Guide

Thank you for choosing the SIP-T48S IP phone, an ultra-elegant Gigabit IP phone which is exquisitely designed to provide business telephony features, such as Call Hold, Call Transfer, Busy Lamp Field, Call Recording, Multicast Paging and Conference over an IP network. It also features an enhanced user experience and newly developed industrial designs, with a large touch screen for easy and efficient use.

This guide provides everything you need to quickly use your new phone. First, verify with your system administrator that the IP network is ready for phone configuration. Also be sure to read the Packaging Contents in this guide before you set up and use the SIP-T46S IP phone.

See the [Yealink Products Regulatory Notices guide](#) for all regulatory and safety guidance.

In This Guide

Topics provided in this guide include:

- Chapter 1 [Overview](#)
- Chapter 2 [Getting Started](#)
- Chapter 3 [Customizing Your Phone](#)
- Chapter 4 [Basic Call Features](#)
- Chapter 5 [Advanced Phone Features](#)

Summary of Changes

This section describes the changes to this guide for each release and guide version.

Changes for Release 81, Guide Version 81.90

The following sections are new:

- [Mobile Contacts](#) on page 90
- [Pairing and Connecting the Bluetooth-Enabled Mobile Phone](#) on page 105
- [Syncing the Mobile Contacts to the IP Phone](#) on page 106

Major updates have occurred to the following sections:

- [Volume](#) on page 63
- [Bluetooth](#) on page 102

Changes for Release 81, Guide Version 81.70

Major updates have occurred to the following sections:

- [Entering Data and Editing Fields](#) on page 38
- [Configuring an Access URL](#) on page 92
- [DSS Keys](#) on page 110
- [Auto Answer](#) on page 140
- [Do Not Disturb \(DND\)](#) on page 150
- [Call Forward](#) on page 155
- [Call Park/Retrieve](#) on page 171
- [Picking up an Incoming Call of the Monitored User](#) on page 191
- [Receiving RTP Stream](#) on page 214

BLF Ring Type is moved to [Configuring Visual and Audio Alert for BLF Pickup](#) on page 186.

Changes for Release 81, Guide Version 81.20

Major updates have occurred to the following sections:

- [Wallpaper](#) on page 43
- [Screen Saver](#) on page 47

Table of Contents

About This Guide v

In This Guide	v
Summary of Changes	v
Changes for Release 81, Guide Version 81.90	v
Changes for Release 81, Guide Version 81.70	vi
Changes for Release 81, Guide Version 81.20	vi

Table of Contents..... vii

Overview 1

Hardware Component Instructions	1
Icon Instructions.....	3
Feature Status Icons.....	3
Line Key Icons.....	4
Other Icons.....	8
LED Instructions.....	9
User Interfaces	10
Phone User Interface.....	10
Web User Interface.....	10
Documentations	13

Getting Started..... 15

Packaging Contents.....	15
Optional Accessories.....	16
Phone Installation	18
Network Connection.....	21
Connecting to the Wired Network.....	22
Connecting to the Wireless Network.....	22
Phone Initialization.....	22
Phone Status.....	23
Basic Network Settings.....	24
Wireless Network Settings	26
Activating the Wi-Fi Mode.....	27
Connecting to the Wireless Network.....	27
Viewing the Wireless Network Information	31
Managing the Saved Wireless Network.....	32

Disconnecting the Wireless Network Connection	33
Deactivating the Wi-Fi Mode.....	34
Registration	34
Touch Screen Display	35
Navigating Menus and Fields.....	37
Entering Data and Editing Fields.....	38
Customizing Your Phone.....	43
General Settings	43
Wallpaper.....	43
Transparency	46
Screen Saver.....	47
Power Saving	50
Backlight	53
Contrast	54
Language.....	55
Time & Date.....	56
Administrator Password	59
Key As Send	59
Phone Lock.....	60
Audio Settings.....	63
Volume.....	63
Ring Tones.....	65
Key Tone.....	67
Contact Management	68
Directory.....	68
Local Directory	70
Blacklist	88
Mobile Contacts	90
Remote Phone Book.....	92
Call History Management	94
Viewing History Records.....	94
Placing a Call from History Records	94
Adding a Contact to the Local Directory/Blacklist.....	95
Deleting History Records.....	96
Disabling History Record	97
Search Source List in Dialing	98
System Customizations.....	100
Headset Use.....	100
Bluetooth.....	102
DSS Keys.....	110
Account Management	122
Dial Plan.....	125
Emergency Number	131

Live Dialpad.....	132
Hotline.....	132
Basic Call Features.....	135
Placing Calls	136
Answering Calls.....	138
Auto Answer	140
Ending Calls.....	141
Redialing Numbers.....	141
Recent Call In Dialing	141
Auto Redial	143
Call Completion	144
Recall.....	146
Call Mute	147
Muting a Call	148
Muting While Dialing	149
Call Hold/Resume	149
Do Not Disturb (DND).....	150
Call Forward	155
Static Forwarding	155
Dynamic Forwarding	164
Call Transfer.....	165
Blind Transfer.....	165
Semi-attended Transfer.....	166
Attended Transfer.....	167
Call Waiting	167
Conference	168
Local Conference	168
Network Conference.....	170
Call Park/Retrieve.....	171
FAC Mode	173
Transfer Mode.....	176
Call Pickup	178
Directed Call Pickup.....	178
Group Call Pickup	180
Anonymous Call	182
Anonymous Call Rejection	183
Advanced Phone Features.....	185
Busy Lamp Field (BLF).....	185
Configuring the BLF Feature on the IP Phone.....	185
Using BLF Feature on the IP Phone	190
BLF List	192

Call Recording	194
Recording Using a USB Flash Drive	195
Recording Using a Record Key	202
Hot Desking	205
Intercom	207
Configuring the Intercom Feature on the IP Phone	207
Using Intercom	209
Multicast Paging	210
Sending RTP Stream	211
Receiving RTP Stream	214
Using Multicast Paging	216
Music on Hold (MoH)	217
Automatic Call Distribution (ACD)	218
Shared Call Appearance (SCA)	221
Configuring SCA Feature on the IP Phone	222
Using SCA Feature on the IP Phone	228
Bridged Line Appearance (BLA)	235
Configuring BLA Feature on the IP Phone	236
Using BLA Feature on the IP Phone	239
Messages	240
Short Message Service (SMS)	240
Voice Mail	244
Message Waiting Indicator (MWI)	246
Appendix	249
Appendix A - Time Zones	249
Appendix B - Menu Structure	251
Index	253

Overview

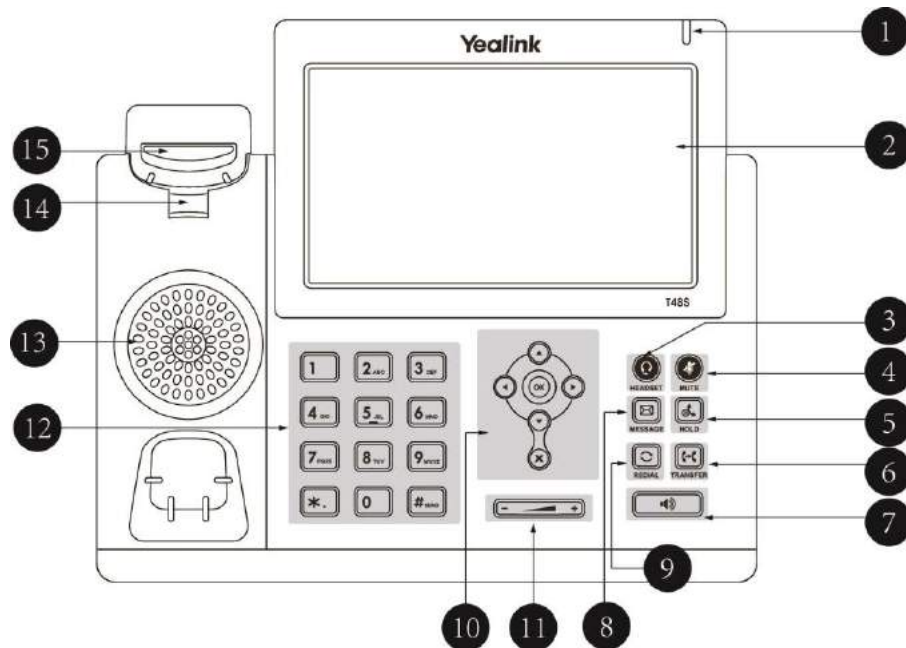
This chapter provides the overview of the SIP-T48S IP phone. Topics include:

- [Hardware Component Instructions](#)
- [Icon Instructions](#)
- [LED Instructions](#)
- [User Interfaces](#)
- [Documentations](#)








If you require additional information or assistance with your new phone, contact your system administrator.

Hardware Component Instructions

The main hardware components of the SIP-T48S IP phone are the touch screen and the keypad.



Hardware component instructions of the SIP-T48S IP phone are:















	Item	Description
①	Power Indicator LED	Indicates call status, message status and phone's system status. <ul style="list-style-type: none"> • Receives an incoming call—Fast-flashing • Receives a voice mail or text message—Slow-flashing
②	Touch Screen	The screen is touch-sensitive. Tap to select and highlight screen items. Shows information about calls, messages, soft keys, time, date and other relevant data: <ul style="list-style-type: none"> • Default account • Call information—caller ID, call duration • Icons (for example, ) • Missed call text or second incoming caller information • Prompt text (for example, "Saving config file!") • Time and date
③	HEADSET Key	Toggles and indicates the headset mode.
④	MUTE Key	Toggles and indicates mute feature.
⑤	HOLD Key	Places a call on hold or resumes a held call.
⑥	TRANSFER Key	Transfers a call to another party.
⑦	Speakerphone Key	Toggles and indicates the hands-free (speakerphone) mode. The key LED illuminates solid green when hands-free (speakerphone) mode is activated.
⑧	MESSAGE Key	Accesses voice messages.
⑨	REDIAL Key	Redials a previously dialed number.
⑩	 	<ul style="list-style-type: none"> • Position the cursor within text you're updating. • Enable or disable fields.
	 	<ul style="list-style-type: none"> • Turn pages or scroll through values for a field. • Scroll through items. • Access History and Directory respectively.
		Confirms actions or answers incoming calls.
		Cancels actions or rejects incoming calls.
⑪	Volume Key	Adjusts the volume of the handset, headset, speaker, ringer or media.
⑫	Keypad	Provides the digits, letters and special characters in context-sensitive applications.
⑬	Speaker	Provides hands-free (speakerphone) audio output.
⑭	Reversible Tab	Secures the handset in the handset cradle when the IP phone is mounted vertically. For more information on how to adjust the reversible tab, refer to Yealink Wall Mount Quick







	Item	Description
		<i>Installation Guide for Yealink IP Phones.</i>
⑮	Hookswitch	<ul style="list-style-type: none"> Picking up the handset from the handset cradle, the hookswitch bounces and the phone connects to the line. Laying the handset down on the handset cradle, the phone disconnects from the line.

Icon Instructions

Feature Status Icons

Icons appearing on the status bar are described in the following table:












Icons	Description
	Wired network is unavailable
	Hands-free (speakerphone) mode
	Handset mode
	Headset mode
	Voice Mail
	Text Message
	Auto Answer
	Do Not Disturb (DND)
	Keep Mute
	Ringer volume is 0
	Phone Lock
	Missed Calls
	Call Forward
	Recording starts successfully (Using a USB flash drive)












Icons	Description
	Recording is paused (Using a USB flash drive)
	Bluetooth mode is on
	Bluetooth headset is both paired and connected
	Bluetooth-Enabled mobile phone is both paired and connected
	Wi-Fi connection is successful
	Wi-Fi connection fails

Line Key Icons







Icons appearing on the line key label are described in the following tables:

Icon indicator (associated with line key features):





Icons	Description
	Hold/Public Hold Private Hold
	DND
	Voice Mail
	SMS
	Direct Pickup
	Group Pickup
	DTMF Prefix
	LDAP Local Group XML Group
	XML Browser
	Conference
	Forward

Icons	Description
	Transfer
	ReCall
	Record URL Record
	Recording starts successfully (Record/URL Record)
	Multicast Paging Group Listening Paging List
	Hot Desking
	Zero Touch
	URL
	Phone Lock
	Directory
	Speed Dial








Icon indicator (associated with line)

Icons	Description
	The private line registers successfully
	The shared/bridged line registers successfully
	Register failed
 (Flashing)	Registering
	DND is enabled on this line
	Call forward is enabled on this line

Icon indicator (associated with call park/retrieve park)

Icons	Description
	Call Park (Park successfully; Call park idle state)
	Call Park (Park failed)
	Call Park (Call park ringing state)
	Retrieve Park




Icon indicator (associated with BLF/BLF List)



Icons	Description
	BLF/BLF List idle state
 (Flashing)	BLF/BLF list ringing state
 (Flashing)	BLF/BLF list callout state
	BLF/BLF list talking state
	BLF hold state
	BLF list call park state
	BLF/BLF List failed state

Note






You can also customize the BLF key LED status and BLF key behavior. Please contact your system administrator for more information

Icon indicator (associated with intercom)

Icons	Description
	Intercom idle state
	Intercom ringing state
 Callout	Intercom callout state








Icons	Description
 Talking	Intercom talking state
	Intercom failed state




Icon indicator (associated with ACD)

Icon	Description
	Log in the ACD system
	The ACD status is available
	The ACD state is Wrap up
	The ACD status is unavailable
	Log out of the ACD system

Icon indicator (associated with a shared line)







The local SCA phone indicates the phone is involved in an SCA call, while the monitoring SCA phone indicates the phone is not involved in the SCA call.

Icon	Description
	The shared line is idle.
 (for monitoring SCA phone)	The shared line is seized.
 (Flashing)	The shared line receives an incoming call.
 (Flashing)	The shared line is dialing.
	The shared line is in conversation.
	The shared line conversation is placed on public hold.
	The shared line conversation is placed on private hold.

Icon	Description
(for local SCA phone)  (for monitoring SCA phone)	
	The shared line conversation is barged in by the other shared line party.
	For a multi-party call, all the shared line parties participating in this call place the shared line conversation on hold.

Icon indicator (associated with a bridged line)






The local BLA phone indicates the phone is involved in a BLA call, while the monitoring BLA phone indicates the phone is not involved in the BLA call.

Icon	Description
	The bridged line is idle.
 (for monitoring BLA phone)	The bridged line is seized.
 (Flashing)	The bridged line receives an incoming call.
 (Flashing)	The bridged line is dialing.
	The bridged line is in conversation.
	The bridged line conversation is placed on hold.





Other Icons

Icons appearing when accessing features are described in the following tables:


Icon indicator (associated with call recording)

Icon	Description
	Recording box is full (Using a record key)
	A call cannot be recorded (Using a record key)
	Recording starts successfully (Using a record key)
	Recording cannot be started (Using a record key)
	Recording cannot be stopped (Using a record key)

Icon indicator (associated with call history)

Icon	Description
	Received Calls
	Placed Calls
	Missed Calls
	Forwarded Calls

Icon indicator (associated with contact)

Icon	Description
	The default caller photo and contact icon

LED Instructions

Power Indicator LED

LED Status	Description
Solid red	The phone is initializing.
Fast-flashing red	The phone is ringing.
Slow-flashing red	The phone receives a voice mail or text message.
Off	The phone is powered off. The phone is idle. The phone is busy.

LED Status	Description
	The call is placed on hold or is held. The call is muted.

Note

The above introduces the default LED status. The status of the power indicator LED is configurable via web user interface. For more information, contact your system administrator.


User Interfaces

Two ways to customize configurations of your SIP-T48S IP phone:

- The user interface on the IP phone.
- The user interface in a web browser on your PC.

The hardware components keypad and touch screen constitute the phone user interface, which allows the user to execute all call operation tasks and basic configuration changes directly on the phone. In addition, you can use the web user interface to access all configuration settings. In many cases, it is possible to use either the phone user interface and/or the web user interface interchangeably. However, in some cases, it is only possible to use one or the other interface to operate the phone and change settings.

Phone User Interface

You can customize your phone by tapping  to access the phone user interface. The Advanced option is only accessible to the administrator, and the default administrator password is "admin" (case-sensitive). For more information on customizing your phone with the available options from the phone user interface, refer to [Customizing Your Phone](#) on page 43.

Note

For a better understanding of the menu structure, please refer to [Appendix B - Menu Structure](#) on page 251.

Web User Interface

In addition to the phone user interface, you can also customize your phone via web user interface. In order to access the web user interface, you need to know the IP address of your new phone. To obtain the IP address, press the OK key on the phone when the phone is idle. Enter the IP address (e.g., <http://192.168.0.10> or 192.168.0.10 for IPv4; [http://\[2005:1:1:1:215:65ff:fe64:6e0a\]](http://[2005:1:1:1:215:65ff:fe64:6e0a]) or [\[2005:1:1:1:215:65ff:fe64:6e0a\]](http://[2005:1:1:1:215:65ff:fe64:6e0a]) for IPv6) in the address bar of a web browser on your PC. The default administrator user name and password are both "admin" (case-sensitive).

Note

The access to the Advanced settings of the Account or Network via web user interface may be blocked by the web browser (e.g., Chrome, Firefox) if you have installed "Adblock Plus plugin".

The main options you can use to customize the IP phone via phone user interface and/or via web user interface are listed in the following table:

Options	Phone User Interface	Web User Interface
Status	√	√
--IPv4		
--MAC		
--Firmware		
--Network		
--Phone		
--Accounts		
Basic Phone Settings		
--Wallpaper		√
--Wallpaper on the Idle Screen	√	
--Wallpaper with Dsskey Unfold	√	
--Transparency	√	
--Screen Saver	√	
--Power Saving	x	
--Backlight	√	
--Contrast	√	x
--Language	√	√
--Time & Date	√	
--Administrator Password	√	
--Key As Send	√	
--Phone Lock	√	
--Audio Settings		
--Ring Tones	√	
--Key Tone	√	
--Contact Management		
--Directory	x	
--Local Directory	√	
--Blacklist	√	
--Mobile Contact	√	x
--Remote Phone Book	x	√
--Call History Management	√	
--Search Source List in Dialing	x	
--Headset Use	√	
--Bluetooth	√	
--DSS Keys	√	
--Account Registration	√	
--Dial Plan	x	
--Emergency Number	x	
--Live Dialpad	x	

Options	Phone User Interface	Web User Interface
--Hotline	√	
Basic Call Features		√
--Recent Call In Dialing	x	
--Auto Answer	√	
--Auto Redial	√	
--Call Completion	√	
--ReCall	√	
--Do Not Disturb (DND)	√	
--Call Forward	√	
--Call Transfer	√	
--Call Waiting	√	
--Conference	x	
--Call Park/Retrieve	√	
--Call Pickup	√	
--Anonymous Call	√	
--Anonymous Call Rejection	√	
Advanced Phone Features		√
--Busy Lamp Field (BLF)	√	
--BLF List	x	
--Call Recording	√	
--Hot Desking	√	
--Intercom	√	
--Multicast Paging	√	
--Music on Hold	x	
--Automatic Call Distribution (ACD)	x	
--Shared Call Appearance (SCA)	x	
--Bridged Line Appearance (BLA)	x	
--Messages	√	
SIP Account		√
--User Options		
--Activation	√	
--Label	√	
--Display Name	√	
--Register Name	√	
--User Name	√	
--Password	√	
--Server Options		
--SIP Server 1/2	√	
--Register Port	x	
--Outbound Status	√	
--Outbound Proxy1/2	√	

Options	Phone User Interface	Web User Interface
--Proxy Fallback Interval	✓	
--NAT Status	✓	

Note

The table above lists most of the feature options. Please refer to the relevant sections for more information.

Documentations

The following table shows documentations available for the SIP-T48S IP phone.

Name	Contents	Where found	Language
Quick Start Guide	Basic call features and phone customizations	In the package	English
		On the website	English
User Guide	Phone/Web user interface settings Basic call features and advanced phone features	On the website	English

Note

You can also download the latest documentations online:

<http://support.yealink.com/documentFront/forwardToDocumentDetailPage?documentId=142>.

Getting Started

This chapter provides the following basic installation instructions and information for obtaining the best performance with the SIP-T48S IP phone. Topics include:

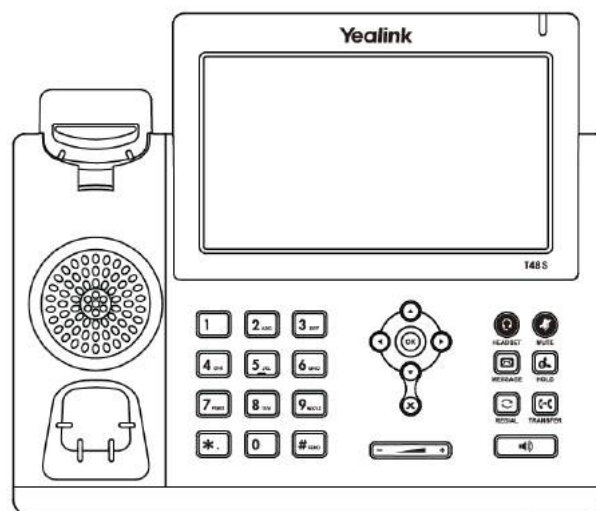
- [Packaging Contents](#)
- [Phone Installation](#)
- [Network Connection](#)
- [Phone Initialization](#)
- [Phone Status](#)
- [Basic Network Settings](#)
- [Wireless Network Settings](#)
- [Registration](#)
- [Touch Screen Display](#)
- [Navigating Menus and Fields](#)
- [Entering Data and Editing Fields](#)

If you require additional information or assistance with your new phone, contact your system administrator.

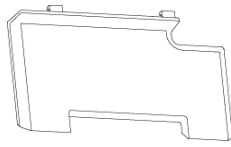
Packaging Contents

The following components are included in your SIP-T48S IP phone package:

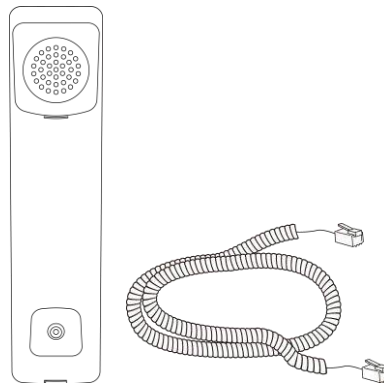
- **SIP-T48S IP Phone**



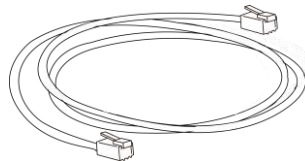
- **Phone Stand**



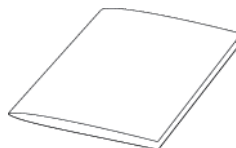
- **Handset & Handset Cord**



- **Ethernet Cable**



- **Quick Start Guide**

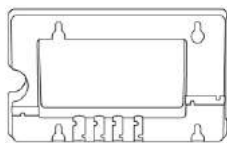


Check the list before installation. If you find anything missing, contact your system administrator.

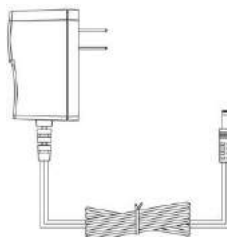
Optional Accessories

The following items are optional accessories for your SIP-T48S IP phone. You need to purchase them separately if required.

- **Wall Mount Bracket**



- **Power Adapter (5.5mm DC plug)**



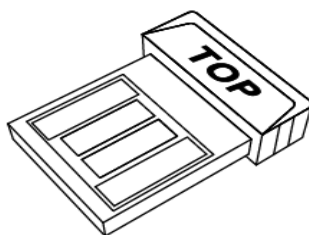
- **Headset YHS32/YHS33**



- **Wireless Headset Adapter EHS36**



- **Bluetooth USB Dongle BT40**



- **Wi-Fi USB Dongle WF40**



Note

We recommend that you use the accessories provided or approved by Yealink. The use of unapproved third-party accessories may result in reduced performance.

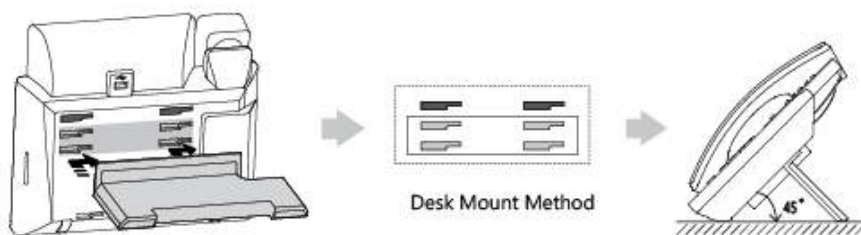
Phone Installation

If your phone is already installed, proceed to [Phone Initialization](#) on page 22.

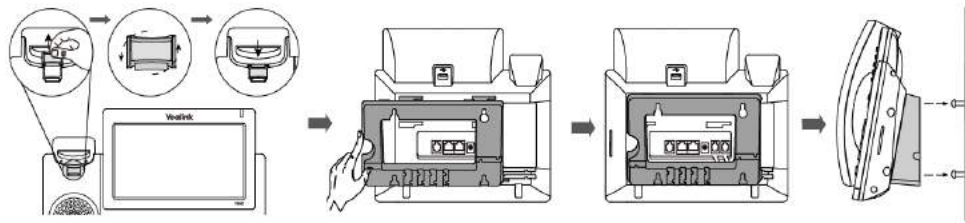
This section introduces how to install the phone:

- 1) Attach the stand or the optional wall mount bracket
 - 2) Connect the handset and optional headset
 - 3) Connect the optional USB flash drive
 - 4) Connect the power
- 1) **Attach the stand or the optional wall mount bracket**

Desk Mount Method



Wall Mount Method (Optional)

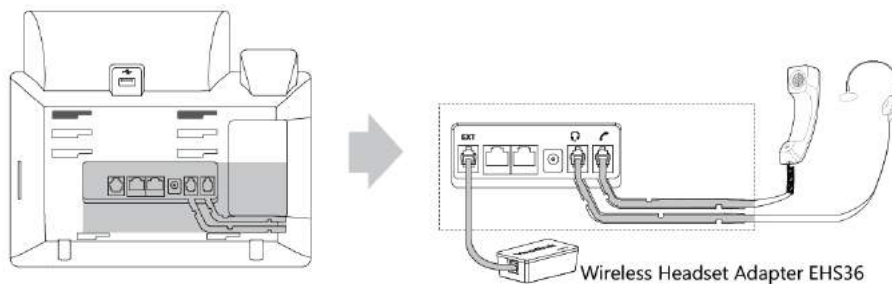


Note

The reversible tab has a lip which allows the handset to stay on-hook when the IP phone is mounted vertically.

The top two slots are plugged up by silica gel. You need to pull out silica gel before attaching the wall mount bracket. For more information on how to attach the wall mount bracket, refer to [Yealink Wall Mount Quick Installation Guide for Yealink IP Phones](#).

2) Connect the handset and optional headset

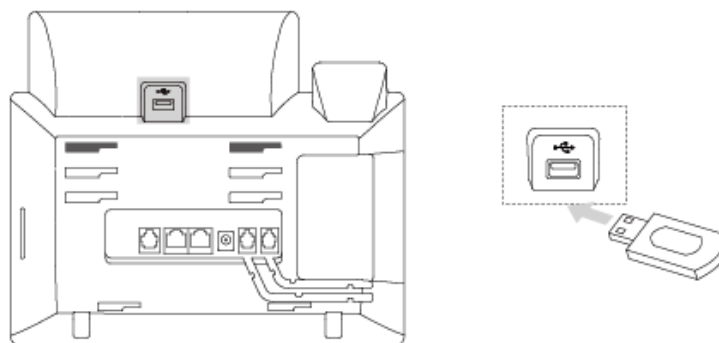


Note

The EXT port can also be used to connect an expansion module EXP40.

For more information on how to use EHS36 and EXP40, refer to [Yealink EHS36 User Guide](#) and [Yealink EXP40 User Guide](#).

3) Connect the optional USB flash drive



Note

The USB flash drive should be purchased separately if required.

The USB port can also be used to connect the Bluetooth USB dongle BT40 or Wi-Fi USB dongle WF40. The Bluetooth USB dongle BT40 and Wi-Fi USB dongle WF40 should be purchased separately. For more information on how to use the BT40 and WF40, refer to [Yealink Bluetooth USB Dongle BT40 User Guide](#) and [Yealink Wi-Fi USB Dongle WF40 User Guide](#).

4) Connect the power

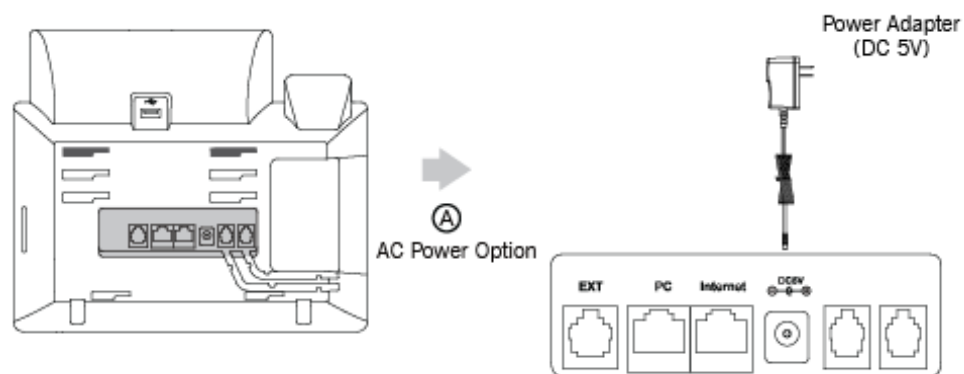
You have two options for power connections. Your system administrator will advise you which one to use.

- AC power (Optional)
- Power over Ethernet (PoE)

AC Power (Optional)

To connect the AC power:

1. Connect the DC plug on the power adapter to the DC5V port on the phone and connect the other end of the power adapter into an electrical power outlet.



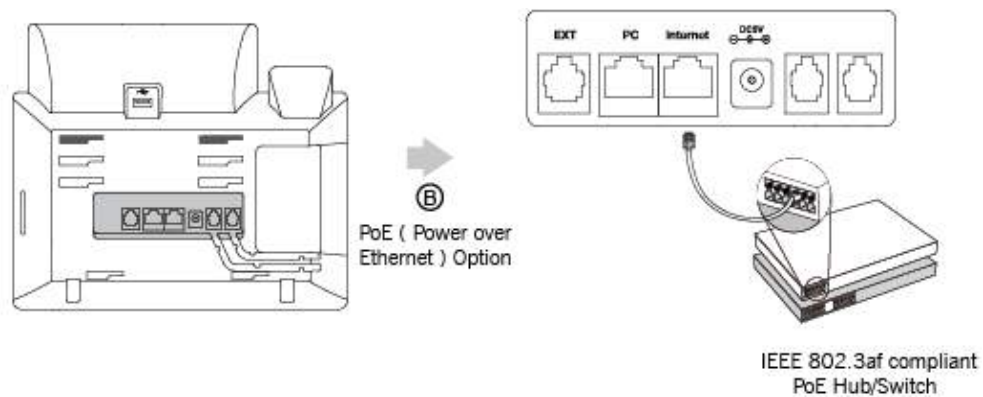
Note The IP phone should be used with Yealink original power adapter (5V/2A) only. The use of the third-party power adapter may cause the damage to the phone.

Power over Ethernet

With the included or a regular Ethernet cable, the SIP-T48S IP phone can be powered from a PoE-compliant switch or hub.

To connect the PoE:

1. Connect the Ethernet cable between the Internet port on the phone and an available port on the in-line power switch/hub.

**Note**

If in-line power is provided, you don't need to connect the phone to the power adapter. Make sure the switch/hub is PoE-compliant.

Important! Do not remove power to the phone while it is updating firmware and configurations.

Network Connection

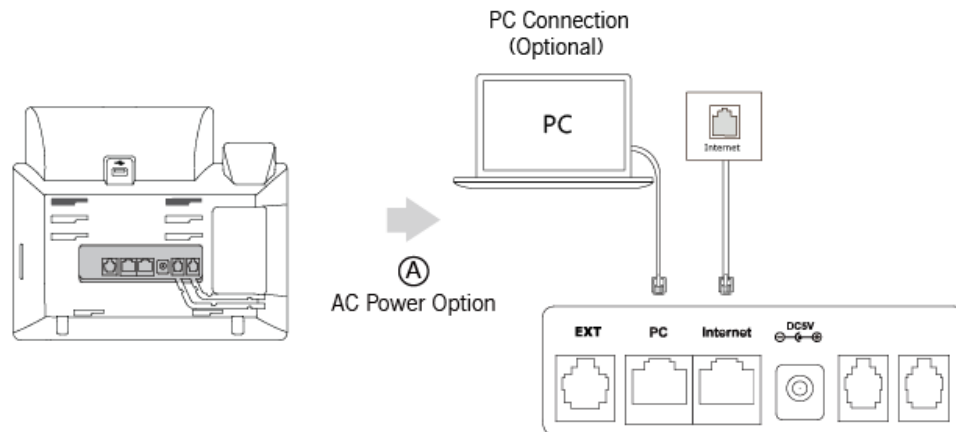
You have two options for network connection. You can select one of them according to the current office environment.

- Connecting to the wired network
- Connecting to the wireless network

Connecting to the Wired Network

You can connect your phone to a wired network.

Before connecting your phone to the wired network, it is important to note that the Wi-Fi feature should be disabled. For more information, refer to [Connecting to the Wireless Network](#) on page 22.



Note

The phone can also share the network with another network device such as a PC (personal computer). This is an optional connection. We recommend that you use the Ethernet cable provided by Yealink. The PC port may be disabled, contact your system administrator for more information.

Connecting to the Wireless Network

Yealink SIP-T48S IP phone supports Wi-Fi feature. You can connect your phone to a wireless network. The wireless network is more convenient and cost-effective than wired network. The PC port is unavailable when using wireless network. For more information on how to connect to a wireless network, refer to [Wireless Network Settings](#) on page 26.

Phone Initialization

After your phone is powered on, the system boots up and performs the following steps:

Automatic Phone Initialization

The phone finishes the initialization by loading the saved configuration. The touch screen displays "Welcome Initializing...Please wait" during the initialization.

DHCP (Dynamic Host Configuration Protocol)

The phone attempts to contact a DHCP server in your network to obtain valid IPv4 network settings (e.g., IP address, subnet mask, default gateway address and DNS address) by default.

Note

If your network does not use DHCP, proceed to [Basic Network Settings](#) on page 24.



Phone Status

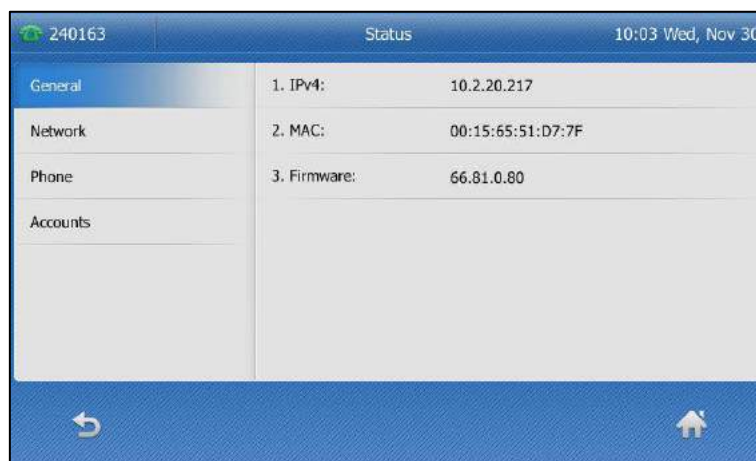
You can view phone status via phone user interface or web user interface.

Available information of phone status includes:

- General information (IPv4 address or IPv6 address, MAC address and firmware version).
 - IPv4 uses a 32-bit address.
 - IPv6 is an updated version of the current Internet Protocol to meet the increased demands for unique IP addresses, using a 128-bit address.
- Network status (IPv4 status or IPv6 status, IP mode and MAC address).
- Phone status (product name, hardware version, firmware version, product ID, MAC address and device certificate status).
- Account status (register status of SIP accounts).

To view the phone status via phone user interface:

1. Press , or tap  -> **Status**.



2. Tap the desired item to view the specific information.

To view the phone status via web user interface:

1. Open a web browser on your computer.
2. Enter the IP address in the browser's address bar, and then press the **Enter** key.
(e.g., "http://192.168.0.10" for IPv4 or "http://[2005:1:1:215:65ff:fe64:6e0a]" for IPv6).

3. Enter the user name (admin) and password (admin) in the login page.

4. Click **Login** to login.

The phone status is displayed on the first page of the web user interface.


Note

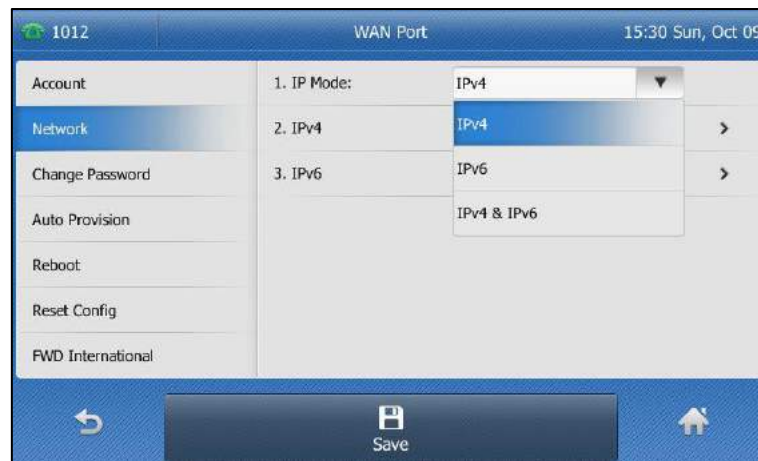
If IP mode of the phone is configured as **IPv4 & IPv6**, you can enter either of them in the browser's address bar to view the phone status. IPv6 is not available on all servers. Contact your system administrator for more information.

Basic Network Settings

If your phone cannot contact a DHCP server for any reason, you need to configure network settings manually. The IP phone can support either or both IPv4 and IPv6 addresses.

To configure the IP mode via phone user interface:


1. Tap  -> **Advanced** (default password: admin) -> **Network**-> **WAN Port**.
2. Tap the gray box of the **IP Mode** field, and then select the desired value (**IPv4**, **IPv6** or **IPv4 & IPv6**) from the pull-down list.




3. Tap the **Save** soft key to accept the change or  to cancel.

You can configure a static IPv4 address for the IP phone. Before configuring it, make sure that the IP mode is configured as **IPv4** or **IPv4 & IPv6**.

To configure a static IPv4 address via phone user interface:


1. Tap  -> **Advanced** (default password: admin) -> **Network**-> **WAN Port**-> **IPv4**.
2. Tap the gray box of the **Type** field, and then select **Static IP** from the pull-down list.
3. Enter the desired value in the **IP Address**, **Subnet Mask**, **Default Gateway**, **Pri. DNS** and **Sec.DNS** field respectively.

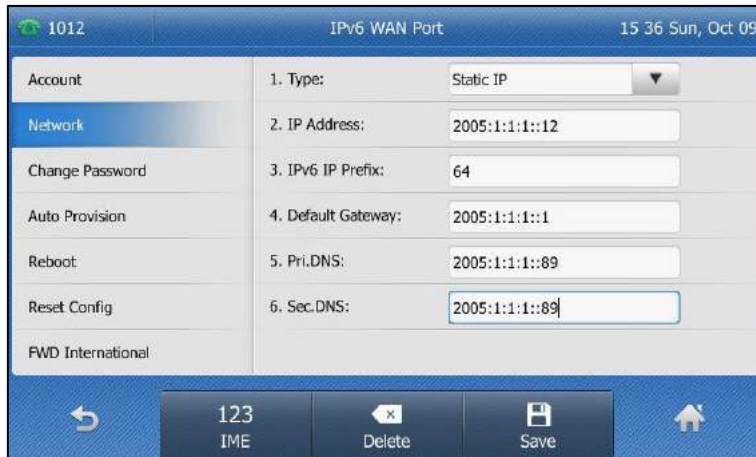



4. Tap the **Save** soft key to accept the change or  to cancel.

You can configure a static IPv6 address for the IP phone. Before configuring it, make sure that the IP mode is configured as **IPv6** or **IPv4 & IPv6**.

To configure a static IPv6 address via phone user interface:

1. Tap  -> **Advanced** (default password: admin) -> **Network**-> **WAN Port**-> **IPv6**.
2. Tap the gray box of the **Type** field, and then select **Static IP** from the pull-down list.
3. Enter the desired value in the **IP Address**, **IPv6 IP Prefix**, **Default Gateway**, **Pri. DNS** and **Sec.DNS** field respectively.



4. Tap the **Save** soft key to accept the change or  to cancel.

Note

The wrong network settings may result in inaccessibility of your phone and may also have an impact on your network performance. For more information on these parameters, contact your system administrator.

Wireless Network Settings

Wi-Fi is a popular wireless networking technology that uses radio waves to provide wireless high-speed Internet and network connections. You can activate/deactivate the Wi-Fi mode on the IP phone, and then connect your phone to the desired wireless network.

Note


Ensure that the Wi-Fi USB Dongle WF40 is properly connected to the USB port at the back of the IP phone. For more information, refer to [Phone Installation](#) on page 18.

Activating the Wi-Fi Mode

When Wi-Fi USB dongle WF40 is connected to the USB port at the back of the IP phone, the screen will prompt "Wi-Fi adapter is added, scanning available wireless networks right now?". You can tap **OK** to activate Wi-Fi mode directly and scan Wi-Fi devices automatically.



To activate the Wi-Fi mode via phone user interface:

1. Tap  -> **Basic**-> **Wi-Fi**.
2. Tap the **On** radio box of the **Wi-Fi** field.

The IP phone scans the available wireless networks in your area.





Connecting to the Wireless Network

Three ways to connect IP phone to the wireless network:

- Manually connect to an available wireless network
- Wi-Fi Protected Setup (WPS)
- Manually add a wireless network

Manually Connect to an Available Wireless Network

To manually connect to a wireless network via phone user interface:

1. Tap  -> **Basic**-> **Wi-Fi**.
2. Tap the **On** radio box of the **Wi-Fi** field.
The IP phone scans the available wireless networks in your area.
3. (Optional.) To re-search the available network, tap the **Scan** soft key.
4. Tap the desired wireless network to connect to your IP phone.
You can also tap  after the desired wireless network, and then tap **Connect**.



5. If the network is secure, enter its password in the **PIN** field.



6. Tap **OK**.

Once the connection has completed successfully, the prompt “**Connect Successfully.**” appears at the end of the wireless network.



The Wi-Fi icon  appears on the touch screen.



Note

For more information on the password of the wireless network, contact your system administrator.

Wi-Fi Protected Setup (WPS)


Wi-Fi Protected Setup (WPS) provides simplified mechanisms to configure secure wireless networks. WPS can automatically configure a wireless network with a network name (SSID) and strong WPA data encryption and authentication.

Two methods supported by Yealink IP phones in the Wi-Fi protected setup:

- **Push Button Configuration (PBC):** The user simply has to press WPS key on both the IP phone and gateway/router to connect.
- **Personal Identification Number (PIN):** The user has to enter a PIN generated randomly by the IP phone on the gateway/router to connect.


Push Button Configuration (PBC)

To connect to the wireless network using PBC method:

1. Tap  -> **Basic**-> **Wi-Fi**.
2. Tap the **On** radio box of the **Wi-Fi** field.
The IP phone scans the available wireless networks in your area.
3. Tap the **WPS** soft key.
The touch screen prompts "WPS has been activated, connect in 120s!".
4. Long press the WPS key on your gateway/router.
Once WPS setup has completed successfully, the touch screen will prompt "Connect Success."

Personal Identification Number (PIN)

To connect to the wireless network using PIN method:

1. Tap  -> **Basic**-> **Wi-Fi**.
2. Tap the **On** radio box of the **Wi-Fi** field.
The IP phone scans the available wireless networks in your area.
3. Tap the **WPS-PIN** soft key.
The touch screen pops up a prompt containing a randomly generated PIN.
4. Tap **OK**.
The touch screen prompts "Please input below PIN code on your Wi-Fi router and press OK to connect: xxx".
5. Log into your gateway/router's web interface, and configure it to search the clients. For more information, refer to the documentation from the gateway/router manufacturer.
Once WPS-PIN setup has completed successfully, the gateway/router's web interface will prompt success.


Note

Contact your gateway/router provider for more information.


Manually Add a Wireless Network

If your gateway/router has SSID broadcast disabled, it might not appear in the scanning results. In that case, you must manually add a wireless network.

To add a wireless network:

1. Tap  -> **Basic**-> **Wi-Fi**.
2. Tap the **On** radio box of the **Wi-Fi** field.
The IP phone scans the available wireless networks in your area.
3. Tap the **Add** soft key.
4. Use the WLAN settings obtained from your gateway/router to configure this WLAN Profile



on the IP phone. Do the following:

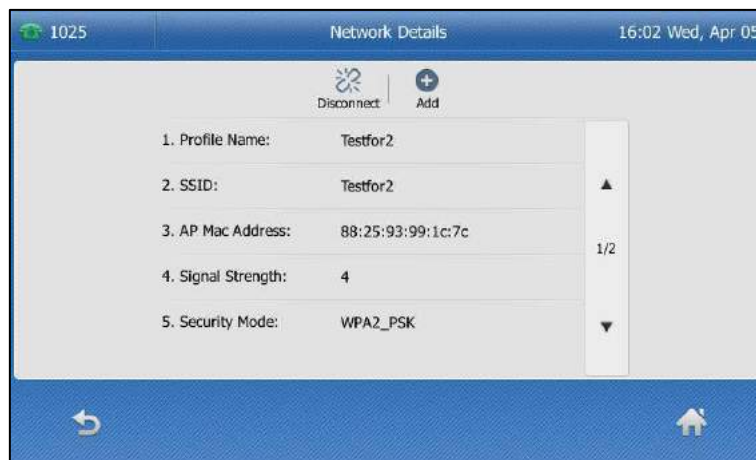
- a) If you select **None** or **WEP** from the pull-down list of **Security Mode**:
Enter the profile name, SSID and WPA shared key in the corresponding fields.
 - b) If you select **WPA-PSK** or **WPA2-PSK** from the pull-down list of **Security Mode**:
Select the desired Cipher type (**TKIP**, **AES** or **TKIP AES**) from the pull-down list of **Cipher Type**.
Enter the profile name, SSID and WPA shared key in the corresponding fields.
5. Tap the **Save** soft key to accept the change or  to cancel.

The connected wireless networks will be saved to **Known Network(s)** list. The **Known Network(s)** list can store up to 5 wireless networks, you can specify the priority to connect to the corresponding wireless network.

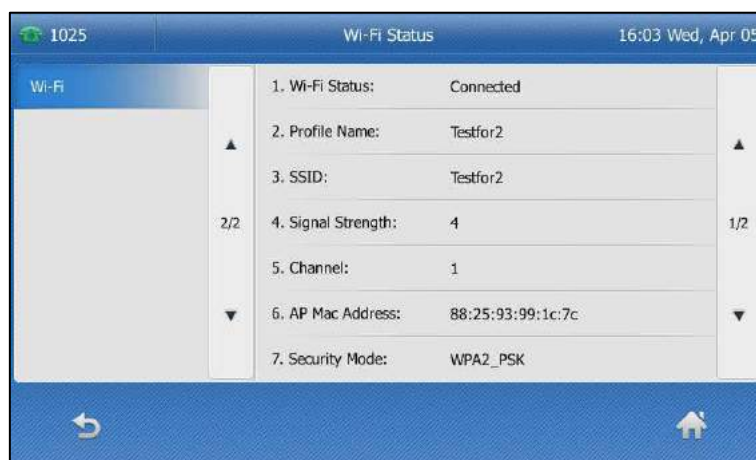
Viewing the Wireless Network Information

To view the wireless network information via phone user interface:

1. Tap  -> **Basic**-> **Wi-Fi**.
2. Tap  after the desired wireless network to view the detailed wireless network information (e.g., Profile Name, SSID or Signal Strength).




If the IP phone is connected to a wireless network successfully, you can also tap **Wi-Fi Status** to view the connected wireless network information.



Managing the Saved Wireless Network

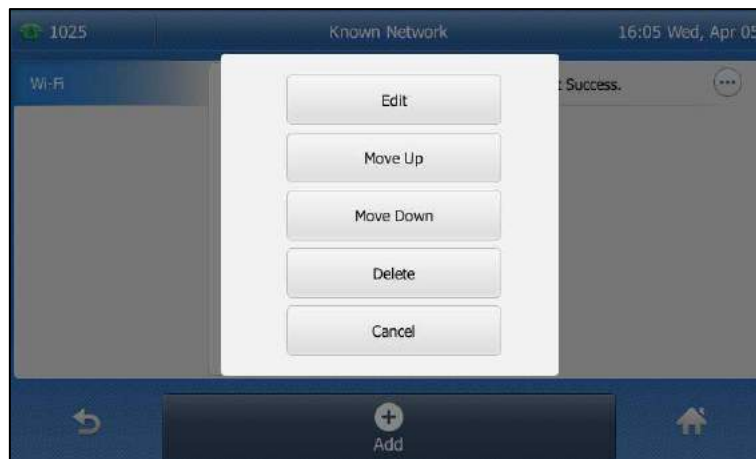
Once the IP phone has ever been connected to a wireless network successfully, the wireless network profile will be saved in **Known Network(s)** list. The next time you enable Wi-Fi feature, the IP phone will be automatically connected to the wireless network which has the highest priority (the top one). Up to 5 wireless network profiles can be saved in **Known Network(s)** list. If you want to add a new one when the IP phone has already saved 5 wireless network profiles, please delete the older saved profile before adding.

To manage the known network(s) via phone user interface:

1. Tap  -> **Basic**-> **Wi-Fi**.
2. Tap **Known Network(s)** to view the saved wireless networks.



3. Tap  .





4. Do one of the following:
- To edit the wireless network profile:
 - 1) Tap **Edit**.
 - 2) Edit the desired wireless network information.
 - 3) Tap the **Save** soft key.
 - To change the priority of the wireless network:
 - 1) Tap **Move Up** or **Move Down** to improve or lower the priority of the wireless network that the IP phone automatically connects to.
 - To delete the saved wireless network profile:
 - 1) Tap **Delete**.

If you delete your wireless network profile from your phone, you need to manually connect to it next time.

Disconnecting the Wireless Network Connection

To disconnect wireless network via phone user interface:


1. Tap  -> **Basic**-> **Wi-Fi**.
2. Do one of the following:
 - Tap the connected wireless network.
 - Tap  after the connected wireless network.
Tap **Disconnect**.
 - Tap **Known Network(s)**.
Tap the connected wireless network.

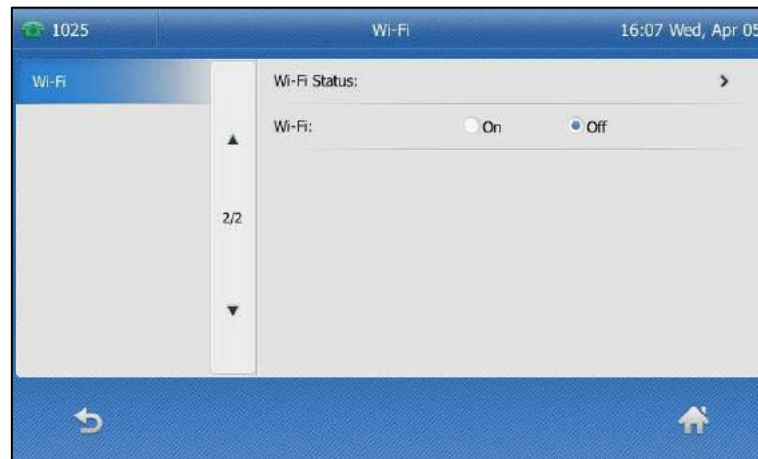
The wireless network is disconnected. To connect it to your IP phone again, tap the

wireless network again.

Deactivating the Wi-Fi Mode

To deactivate the Wi-Fi mode via phone user interface:

1. Tap  -> **Basic**-> **Wi-Fi**.
2. Tap the **Off** radio box of the **Wi-Fi** field.



The Wi-Fi icon  disappears from the touch screen.

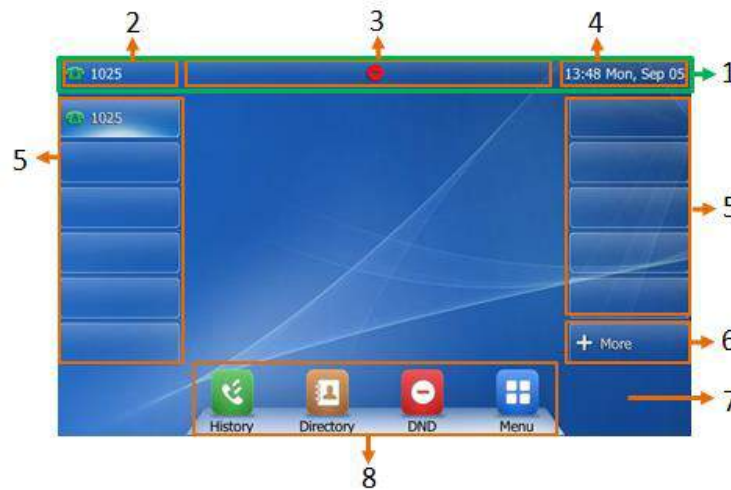
Registration

Generally, your phone will be deployed with multiple other phones. In this case, your system administrator will configure the phone parameters beforehand, so that after you start up your phone, the phone will be registered and ready for use. The SIP-T48S IP phone supports up to 16 accounts. If your phone is not registered, you may have to register it. For more information on how to register your phone, refer to [Account Management](#) on page 122.





Touch Screen Display

Idle Screen Display

If the phone has successfully started up, the idle screen will be displayed. The following figure is an example of what is displayed on the touch screen.



No.	Name	Description
1	Status Bar	Displays the phone's default account, icons and the time and date.
2	Default Account	<p>The label of the default account is displayed on the left of the status bar.</p> <p>If multiple accounts are already registered, tap and select the desired default account.</p> <p>For more information, refer to Default Account on page 123.</p> <p>Note: You can configure the IP phone not to display the default account. Contact your system administrator for more information.</p>
3	Icons	<p>Icons are displayed in the middle of the status bar.</p> <p>For more information, refer to Icon Instructions on page 3.</p>
4	Time and Date	<p>The phone's time and date are displayed on the right of the status bar.</p> <p>For more information, refer to Time & Date on page 56.</p>
5	Line Keys (1-11)	<p>The idle screen displays line keys 1-11. The line keys 1-6 on the left and the line keys 7-11 on the right can be used to activate up to 11 lines.</p> <p>Various features can be assigned to line keys.</p> <p>Each line key can display the label and indicate the</p>

No.	Name	Description
		status of the assigned feature. For more information, refer to Line Keys on page 111.
6	More	Tap to unfold the DSS key list. You can tap or long tap the desired line key to configure it. The DSS key unfold wallpaper can be customized. For more information, refer to Wallpaper with Dsskey Unfold on page 45.
7	Wallpaper	Shows the specified wallpaper, which can be customized. For more information, refer to Wallpaper on the Idle Screen on page 44.
8	Shortcut Keys	 : tap this shortcut key to enter the History screen and view call history.  : tap this shortcut key to enter the Directory screen and view contacts.  : tap this shortcut key to toggle the DND mode or enter the custom DND configuration screen.  : tap this shortcut key to enter the main menu.

Configuration Screen Display



No.	Name	Description
1	Screen Title Area	Displays the title of the current menu screen.
2	Operation Option Area	Displays various operation options for different menu screens.
3	Menu Tree Area	Displays menu items. Tap the desired menu item to enter the corresponding feature configuration screen.
4	Configuration Area	Displays configuration items of the highlighted menu item in the menu tree area. You can configure feature settings in this area.
5	Soft Keys	Label automatically to identify their context-sensitive features.

Navigating Menus and Fields














To navigate menus and fields, you can:

- Tap soft keys on the touch screen.
- Tap menu items, fields, and arrows on the touch screen.
- Press keys on the phone keypad.

Note

The menu system will automatically exit to the idle screen after 60 seconds of inactivity.

To operate your phone, follow these tips:



If you want to	Action
Enter the main menu.	Tap  .
Return to the idle screen.	Tap  .
Go back to the previous menu.	Tap  or press  .
Select an item.	Tap the item. Scroll to the item by pressing  or  .
Scroll through items page by page.	Tap  or  .
Scroll through values for a field.	Tap the field's highlighted gray box. From the pull-down list, tap  or  to scroll through values page by page, or press  or  to scroll values one by one.
Select a value for a field.	From the pull-down list, tap the value or scroll to the value and then press  .

Entering Data and Editing Fields

You can enter data and edit fields using the phone keypad.

Keypad on the phone provides different characters (or numbers) when using the **2aB**, **abc**, **Abc**, **ABC** or **123** input mode. You can change the following input modes to enter data and edit fields on your phone. When your phone keypad matches the input mode, you can press the keypad repeatedly to view the character (or number) options and stop to select. When the character (or number) you want to enter displays in the field, wait for one second, and enter the next character (or number).

The following table lists the input modes and character (or number) options for the keypad:












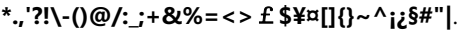
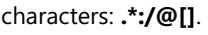




Input Mode Keypad	2aB	abc	Abc (initials in capitals)	ABC	123
	1				1
	2abcABC	abc2äæåååå ååç	abc2äæåååå ååç	ABC2ÄÆÅ ÀÁÃÄÇ	2

Input Mode Keypad	2aB	abc	Abc (initials in capitals)	ABC	123
	3defDEF	def3èèèèëð	def3èèèèëð	DEF3ÈÈÈÈËÐ	3
	4ghiGHI	ghi4ïïï	ghi4ïïï	GHI4ÏÏÏ	4
	5jklJKL	jkl5£	jkl5£	JKL5£	5
	6mnoMNO	mno6öøòó ôõñ	mno6öøòó ôõñ	MNO6ÖØÒÓ ÔÕÑ	6
	7pqrsPQRS	pqrs7ßS	pqrs7ßS	PQRS7S	7
	8tuvTUV	tuv8ùúûü	tuv8ùúûü	TUV8ÙÚÛÜ Û	8
	9wxyzWXY Z	wxyz9ýþ	wxyz9ýþ	WXYZ9ÝÞ	9
	0	space	space	space	0
	*, '?! \-()@/: ;+&%=<> £ \$¥¤[]{}~ ^_`~\$#"	*, '?! \-()@/: ;+&%=<> £ \$¥¤[]{}~ ^_`~\$#"	*, '?! \-()@/: ;+&%=<> £ \$¥¤[]{}~ ^_`~\$#"	*, '?! \-()@/: ;+&%=<> £ \$¥¤[]{}~ ^_`~\$#"	*, '?! \-()@/: ;+&%=<> £ \$¥¤[]{}~ ^_`~\$#"
	#	#	#	#	#

To enter or edit data:

1. Tap the field.
2. Do one of the following:

If you want to	Then you can
Enter only digits (1), uppercase (A) characters, lowercase (a) characters, or alphanumeric (2aB) characters.	<p>Press a keypad key one or more times (depending on what input mode you're in) to enter the characters that is displayed on the keypad key.</p> <p>You can tap or abc one or more times to switch among uppercase (ABC), numeric (123), alphanumeric (2aB), uppercase and lowercase (Abc) and lowercase (abc) input modes.</p> <p>For example, if the input mode is ABC:</p>

If you want to	Then you can
	<ul style="list-style-type: none"> - To enter "A", press  once. - To enter "B", press  twice quickly. - To enter "C", press  three times quickly. - To enter "2ÄËÄÄÄÄÇ", press  more than three times quickly. <p>Note: When you are in the uppercase (ABC), uppercase and lowercase (Abc) or lowercase (abc) input mode,  is not available.</p>
Enter special characters.	<p>Press the keypad key  or , or press .</p> <p>For  Key:</p> <ul style="list-style-type: none"> - If it is in the uppercase (ABC), uppercase and lowercase (Abc) or lowercase (abc soft key) input mode, it will provide the space character. - If it is in the numeric (123) or alphanumeric (2aB) input mode, it will only provide the digit 0. - If it is in the numeric (123) or alphanumeric (2aB) input mode, it will provide the special character + by long pressing about 2 seconds on the dialing/pre-dialing screen. <p>For  key:</p> <ul style="list-style-type: none"> - It only provides the pound character #. <p>For  key:</p> <ul style="list-style-type: none"> - If it is in the uppercase (ABC), lowercase (abc), uppercase and lowercase (Abc) or alphanumeric (2aB) input mode, it will provide the following special characters:  - If it is in the numeric (123) input mode, it will provide the following special characters: .
Delete text you entered.	<p>Press  or  to position the cursor to the right of the text you want to delete, and then tap Delete or  to delete one character at a time.</p>
Delete an entire field of data.	<p>Swipe your finger to the left or right to select the entire field of data, so that the data is highlighted, and then tap the Delete or .</p>

3. Press  .

Note

When the phone is on the pre-dialing/dialing screen, characters can also be entered using the on-screen keypad.

Customizing Your Phone

You can customize your SIP-T48S IP phone by personally configuring certain settings, for example, wallpaper, time & date and ring tones. You can add contacts to the phone's local directory manually or from call history. You can also personalize different ring tones for different callers.

This chapter provides basic operating instructions for customizing your phone. Topics include:

- [General Settings](#)
- [Audio Settings](#)
- [Contact Management](#)
- [Call History Management](#)
- [Search Source List in Dialing](#)
- [System Customizations](#)

If you require additional information or assistance with your new phone, contact your system administrator.

General Settings

Wallpaper

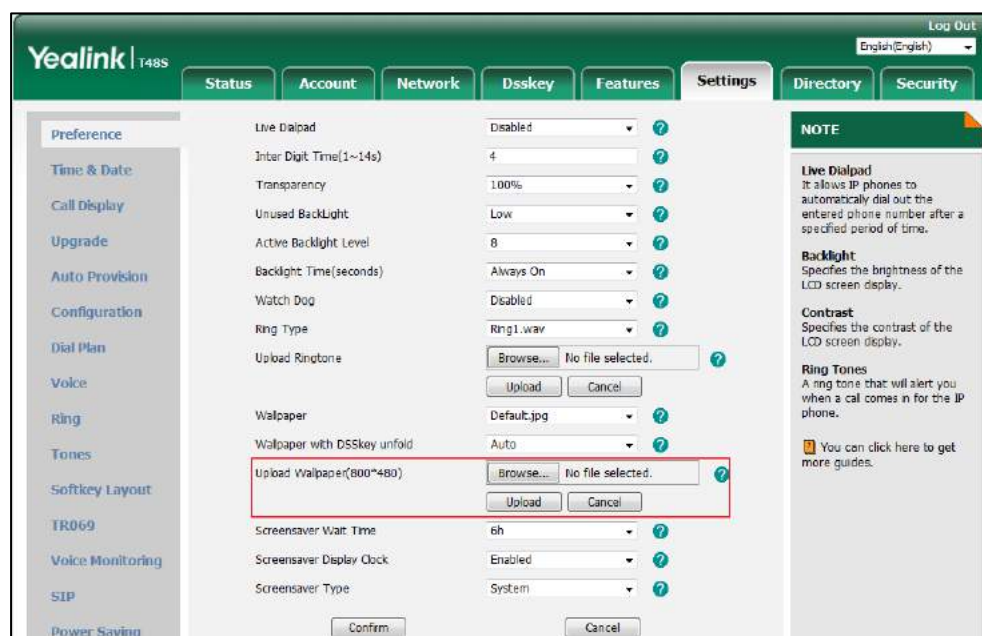
You can customize the wallpaper of the SIP-T48S IP phone, and can change the wallpaper image via phone user interface or web user interface. You can also upload custom pictures as wallpaper images via web user interface.

The SIP-T48S IP phone supports the file format of pictures in the following table:

Format	Resolution	Note
.jpg/.png/*.bmp/*.jpeg	≤2.0 megapixels	2MB of space should be reserved for the phone

To upload the custom picture via web user interface:

1. Click on **Settings->Preference**.
2. In the **Upload Wallpaper(800*480)** field, click **Browse** to locate the desired picture from your local system.



3. Click **Upload** to upload the file.

The custom picture appears in the pull-down lists of **Wallpaper** and **Wallpaper with DSSkey unfold**.

You can only delete the custom wallpaper by clicking **Del** when selecting the desired custom wallpaper in the **Wallpaper** or **Wallpaper with DSSkey unfold** field.

Note

The SIP-T48S IP phone screen size is 7 inches (Resolution: 800x480). If the size of the custom wallpaper doesn't meet the IP phone screen size, the wallpaper will be stretched or/and zoomed out according to the IP phone screen size.

Wallpaper on the Idle Screen

You can change the wallpaper to display when the phone is idle.

To change the wallpaper on the idle screen via phone user interface:

1. Tap  -> **Basic**-> **Display**-> **Wallpaper**.

2. Tap ◀ or ▶, or press ⬅ or ➡ to select the desired wallpaper image.



3. Tap the **Save** soft key to accept the change or ↶ to cancel.






Wallpaper on the idle screen is configurable via web user interface at the path **Settings->Preference->Wallpaper**.

Wallpaper with Dsskey Unfold

You can change the wallpaper to display when unfolding the DSS key list. Tap **More** when the phone is idle to unfold the DSS key list.



To change the DSS key wallpaper via phone user interface:

1. Tap  -> **Basic**-> **Display**-> **Dsskey Wallpaper**.
2. Tap  or  , or press  or  to select the desired wallpaper image.



3. Tap the **Save** soft key to accept the change or  to cancel.

Wallpaper with Dsskey unfold is configurable via web user interface at the path **Settings->Preference->Wallpaper with DSSkey unfold**.


Transparency

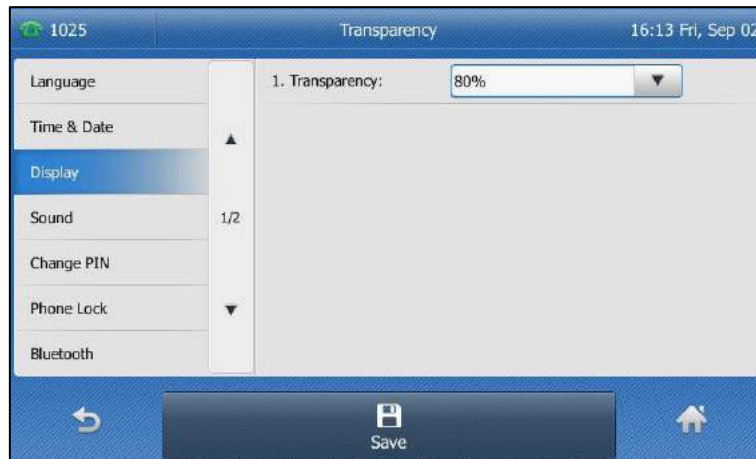
If you are using a custom picture with a single color or complex background as the wallpaper (refer to [Wallpaper](#)), it may affect your experience of the idle screen display. You can choose an appropriate transparency for DSS key labels and status bar on the idle screen as required.


The transparency can be configured from the following options:

- **0%:** The DSS key labels and status bar are non-transparent.
- **20%, 40%, 60% or 80%:** The DSS key labels and status bar are translucent.
- **100%:** The DSS key labels and status bar are transparent.

To change the transparency via phone user interface:

1. Tap  -> **Basic**->**Display**->**Transparency**.
2. Tap the gray box of the **Transparency** field, and then select the desired value from the pull-down list.



3. Tap the **Save** soft key to accept the change or  to cancel.

Transparency is configurable via web user interface at the path **Settings->Preference**.

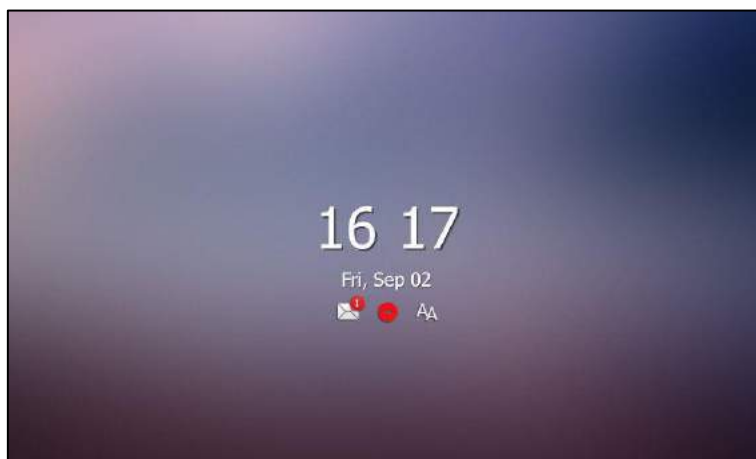
Screen Saver

The screen saver will automatically start when the IP phone is idle for the preset waiting time. The screen saver is used to blank the screen or fill it with moving images or patterns.

The screen saver will be stopped if one of the following phone events occurs:

- Press any key.
- Tap the touch screen.
- Pick up/hang up the handset.
- There is an incoming call.
- A new prompt (e.g., missed call, new voice mail or forwarded call).
- The status of BLF key changes.

If your phone is idle again for a specified period of time, the screen saver will start again. The time & date and certain feature status icons (e.g., a new text message, DND, auto answer) will also display on the screen saver. For more information on the icons, refer to [Icon Instructions](#) on page 3. You can configure the phone whether to display the time & date on the screen saver or not.



You can configure the screen saver of SIP-T48S IP phone, and upload custom pictures to set up a screen saver of your picture via web user interface. You can configure the screen saver wait time, screen saver type and screen saver display clock via phone user interface or web user interface.

The SIP-T48S IP phone supports the file format of custom pictures in the following table:

Format	Resolution	Note
.jpg/.png/*.bmp/*.jpeg	≤2.0 megapixels	2MB of space should be reserved for the phone

Uploading the Custom Picture

To upload a custom picture via web user interface:

1. Click on **Settings->Preference**.
2. Select **Custom** from the pull-down list of **Screensaver Type**.
3. In the **Upload Screensaver** field, click **Browse** to locate the custom picture from your local system, and then click **Upload**.


This field appears only if **Screensaver Type** is set to **Custom**.

The custom picture appears in **Screensaver** list. You can only delete the custom picture by clicking **Del** in the **Screensaver** field.

Note You can only upload one custom image at a time via web user interface.

Configuring the Screen Saver

To configure the screen saver via phone user interface:


1. Tap  -> **Basic**-> **Display**-> **Screensaver**.
2. Tap the gray box of the **Wait Time** field, and then select the desired wait time from the pull-down list.
3. Tap the **On** or **Off** radio box of the **Display Clock** field.
4. Tap the gray box of the **Screensaver Type** field and then select the desired screen saver type from the pull-down list.

This field is configurable only if you have uploaded a custom picture via web user interface.

- If you select **System**.
The IP phone will automatically set the built-in picture as the screen saver.
- If you select **Custom**.

The IP phone will automatically set the custom pictures you upload as the screen saver, and display these pictures alternately.



5. Tap the **Save** soft key to accept the change or  to cancel.

Screen saver is configurable via web user interface at the path **Settings->Preference**.

Power Saving

The power saving feature is used to turn off the backlight and screen to conserve energy. The IP phone enters power-saving mode after it has been idle for a certain period of time.

The IP phone will exit power-saving mode if one of the following phone events occurs:

- Press any key.
- Tap the touch screen.
- Pick up/hang up the handset.
- There is an incoming call.
- A new prompt (e.g., missed call, new voice mail or forwarded call).
- The status of BLF key changes.

If the screen saver is enabled on your phone, power-saving mode will still occur.

You can configure the following power-saving settings:

- Office Hour
- Idle Timeout (minutes)

The office hour and idle timeout (minutes) settings work only if the power saving feature is enabled.

Note Power saving is configurable via web user interface only.

Enabling the Power Saving

To enable the power saving feature via web user interface:

1. Click on **Settings->Power Saving**.
2. Select **Enabled** from the pull-down list of **Power Saving**.

The screenshot shows the Yealink T49S web interface. The top navigation bar includes 'Status', 'Account', 'Network', 'Dsskey', 'Features', 'Settings', 'Directory', and 'Security'. The 'Settings' tab is active. On the left sidebar, 'Power Saving' is selected under the 'Voice' category. The main content area shows the 'Power Saving' settings. At the top, a dropdown menu is set to 'Enabled'. Below this is the 'Office Hour' section, which includes a table for configuring office hours for each day of the week. The table has columns for the day and a time range (start and end time). The 'Idle TimeOut (minutes)' section contains three input fields: 'Office Hour Idle TimeOut' (set to 960), 'Off Hour Idle TimeOut' (set to 10), and 'User Input Extension Idle TimeOut' (set to 10). Each input field has a help icon. At the bottom, there are 'Confirm' and 'Cancel' buttons. A 'NOTE' box on the right side of the page states: 'Settings Powersaving. You can click here to get more guides.'

Day	Start Time	End Time
Monday	07	19
Tuesday	07	19
Wednesday	07	19
Thursday	07	19
Friday	07	19
Saturday	07	07
Sunday	07	07

3. Click **Confirm** to accept the change.

Configuring the Office Hour

Office Hour specifies the starting time and ending time in the office each day.

To configure the office hour via web user interface:

1. Click on **Settings->Power Saving**.

3. Enter the starting time and ending time respectively in the desired day field.

The screenshot shows the Yealink T48S web interface. The 'Settings' tab is selected, and the 'Power Saving' section is active. The 'Office Hour' table is highlighted with a red box. Below it, the 'Idle TimeOut (minutes)' section has three input fields: 'Office Hour Idle TimeOut' (960), 'Off Hour Idle TimeOut' (10), and 'User Input Extension Idle TimeOut' (10). A 'Confirm' button is visible at the bottom.

Day	Start Time	End Time
Monday	07	19
Tuesday	07	19
Wednesday	07	19
Thursday	07	19
Friday	07	19
Saturday	07	07
Sunday	07	07

Idle TimeOut (minutes)

Office Hour Idle TimeOut: 960

Off Hour Idle TimeOut: 10

User Input Extension Idle TimeOut: 10

Confirm Cancel

4. Click **Confirm** to accept the change.

Configuring the Idle Timeout

Idle Timeout specifies the period of time before the IP phone enters power-saving mode. The following three types of idle timeout you can configure:

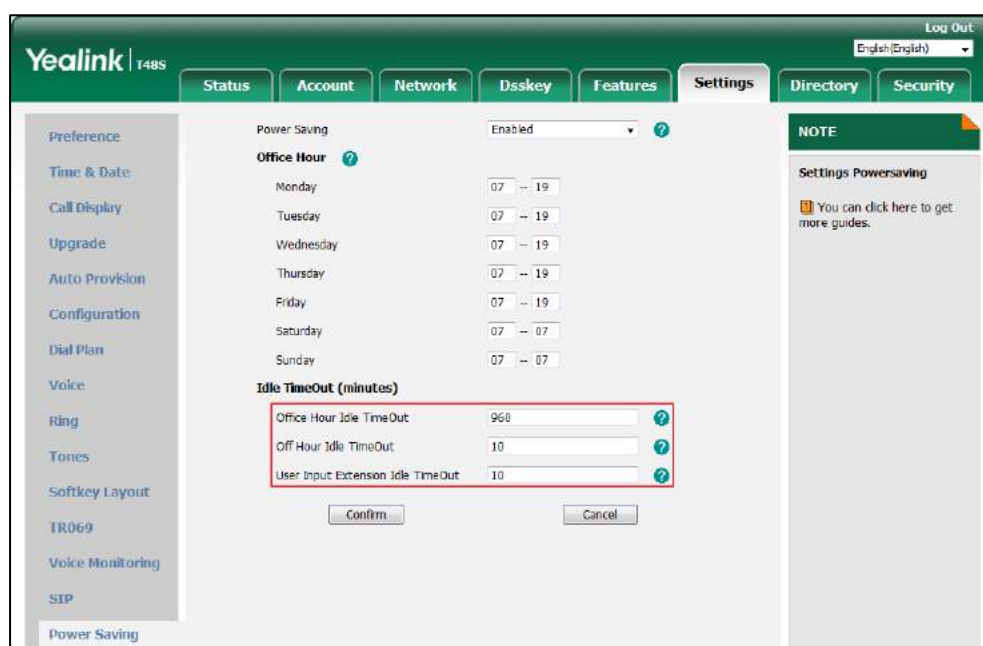
- **Office Hours Idle TimeOut:** Configures the idle timeout for office hours.
- **Off Hours Idle TimeOut:** Configures the idle timeout for non-office hours.
- **User Input Extension Idle TimeOut:** Configures idle timeout that applies after you use the IP phone (for example, press a key on the phone, pick up/hang up the handset or tap the touch screen).

By default, the Office Hours Idle Timeout is much longer than the Off Hours Idle TimeOut. If you use the IP phone, the idle timeout that applies (User Input Extension Idle Timeout or Office Hours/Off Hours Idle TimeOut) is the timeout with the highest value. If the phone has an incoming call or new message, the User Input Extension Idle TimeOut is ignored.

To configure the idle timeout via web user interface:

1. Click on **Settings->Power Saving**.
2. Enter the desired value in the **Office Hours Idle TimeOut** field.
The default value is 960, you can set to 1-960.
3. Enter the desired value in the **Off Hours Idle TimeOut** field.
The default value is 10, you can set to 1-10.
4. Enter the desired value in the **User Input Extension Idle TimeOut** field.

The default value is 10, you can set to 1-30.



5. Click **Confirm** to accept the change.

Backlight

Backlight has three options:

Active Level: The intensity of the touch screen when the phone is active. You can change the intensity of the touch screen. Digits (1-10) represent different intensities. 10 is the highest intensity.


Inactive Level: The intensity of the touch screen when the phone is inactive. You can select a low intensity or turn off the backlight.

Backlight Time: The delay time to change the intensity of the touch screen when the phone is inactive. You can select a desired time to change the intensity or turn on the backlight permanently.

- **Always On:** Backlight is on permanently.
- **15s, 30s, 1min, 2min, 5min, 10min or 30min:** Backlight is changed when the phone is inactive after the designated time (in seconds).

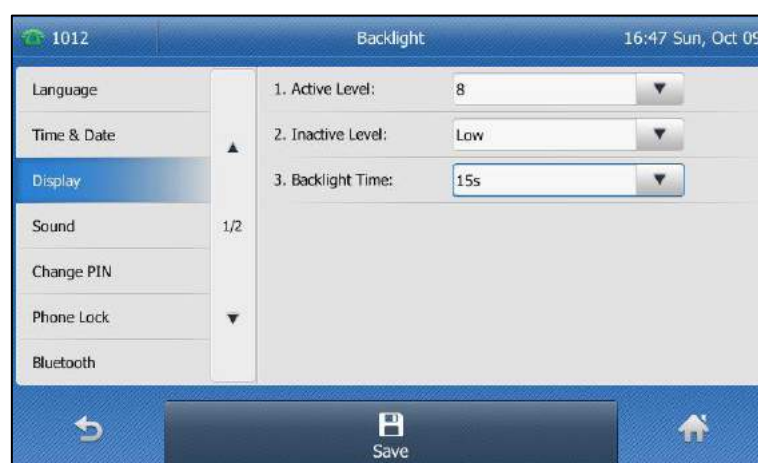
You can also change the intensity of the LCD screen of EXP40 connected to the SIP-T48S IP phone.

To configure the backlight via phone user interface:

1. Tap  -> **Basic**-> **Display**-> **Backlight**.
2. Tap the gray box of the **Active Level** field, and then select the desired level from the pull-down list.
3. Tap the gray box of the **Inactive Level** field, and then select the desired value from the

pull-down list.

4. Tap the gray box of the **Backlight Time** field, and then select the desired time from the pull-down list.



5. Tap the **Save** soft key to accept the change or  to cancel.

Backlight is configurable via web user interface at the path **Settings->Preference**.

Contrast

You can only configure the contrast of the expansion module EXP40 connected to the SIP-T48S IP phone to a comfortable level on the phone. Ensure that the expansion module has been connected to the phone before configuration. The intensity of contrast ranges from 1 to 10 and the highest intensity is 10.

To configure the contrast via phone user interface:

1. Tap  -> **Basic**-> **Display**-> **Contrast**.

If EXP40 is not connected to the phone, the Contrast screen displays "No EXP".

2. Tap the gray box of the **Contrast** field, and then select the desired value from the pull-down list.

The default contrast level is "6".




3. Tap the **Save** soft key to accept the change or  to cancel.

Language

The default language of the phone user interface is English. If the language of your web browser is not supported by the phone, the web user interface will use English by default. You can change the language for the phone user interface and the web user interface respectively.

To change the language for the phone user interface:

1. Tap  -> **Basic**-> **Language**.
2. Tap ▲ or ▼ to scroll through the list of available languages.
3. Tap the desired language.



4. Tap the **Save** soft key to accept the change.

Text displayed on the phone user interface will change to the selected language.

To change the language for the web user interface:

1. Select the desired language from the pull-down list at the top-right corner of web user interface.




Text displayed on the web user interface will change to the selected language.

Time & Date

The time and date are displayed on the right of the status bar. You can configure the phone to obtain the time and date from the SNTP server automatically, or configure the time and date manually. If the phone cannot obtain the time and date from the Simple Network Time Protocol (SNTP) server, contact your system administrator for more information.

To configure the SNTP setting via phone user interface:

1. Tap  -> **Basic**-> **Time & Date**-> **General**.
2. Tap the gray box of the **Type** field, and then select **SNTP Settings** from the pull-down list.
3. Tap the gray box of the **Time Zone** field, and then select the time zone that applies to your area from the pull-down list.
The default time zone is "+8".
4. Enter the domain name or IP address of SNTP server in the **NTP Server1** and **NTP Server2** field respectively.
5. Tap the gray box of the **Daylight Saving** field, and then select the desired value from the pull-down list.
6. Tap the gray box of the **Location** field, and then select the desired time zone name from the pull-down list.

This field appears only if **Daylight Saving** field is selected to **Automatic**, and the default time zone name is "China(Beijing)".



7. Tap the **Save** soft key to accept the change or to cancel.

Note

Please refer to [Appendix A - Time Zones](#) on page 249 for the list of available time zones on the IP phone.


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

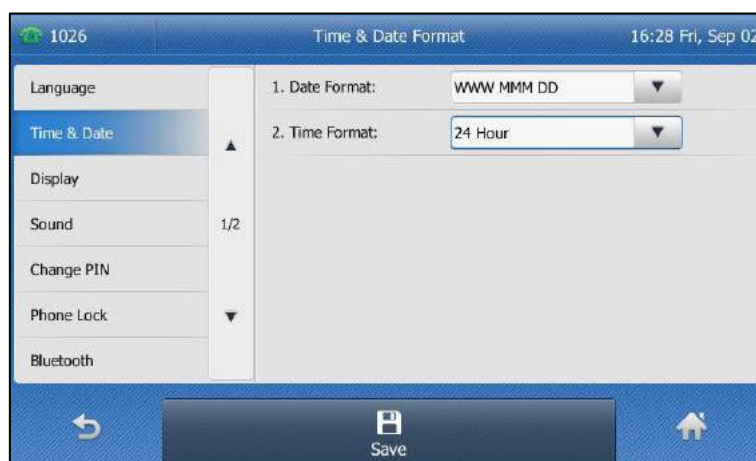
1. Tap -> **Basic**->**Time & Date**->**General**.
2. Tap the gray box of the **Type** field, and then select **Manual Settings** from the pull-down list.
3. Enter the specific date and time in the corresponding fields.



4. Tap the **Save** soft key to accept the change.
The time and date displayed on the touch screen will change accordingly.

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

1. Tap  -> **Basic**->**Time & Date**->**Time & Date Format**.
2. Tap the gray box of the **Date Format** field, and then select the desired date format from the pull-down list.
3. Tap the gray box of the **Time Format** field, and then select the desired time format (**12 Hour** or **24 Hour**) from the pull-down list.



4. Tap the **Save** soft key to accept the change or  to cancel.

Time and date are configurable via web user interface at the path **Settings->Time & Date**.

There are 7 available date formats. For example, for the date format "WWW DD MMM", "WWW" represents the abbreviation of the weekday, "DD" represents the two-digit day, and "MMM" represents the first three letters of the month.

The date formats available:

Date Format	Example (2016-09-02)
WWW MMM DD	Fri, Sep 02
DD-MMM-YY	02-Sep-16
YYYY-MM-DD	2016-09-02
DD/MM/YYYY	02/09/2016
MM/DD/YY	09/02/16
DD MMM YYYY	02 Sep, 2016
WWW DD MMM	Fri, 02 Sep


Note

You can also customize the date format. Contact your system administrator for more information.

Administrator Password

The Advanced option is only accessible to the administrator. The default administrator password is "admin". For security reasons, you should change the default administrator password as soon as possible.

To change the administrator password via phone user interface:

1. Tap  -> **Advanced** (default password: admin) -> **Change Password**.
2. Enter the old password in the **Old PWD** field.
3. Enter the new password in the **New PWD** field.
4. Re-enter the new password in the **Confirm PWD** field.



5. Tap the **Save** soft key to accept the change or  to cancel.

Administrator password is configurable via web user interface at the path **Security->Password**.

Key As Send

You can set the "*" key or "#" key to perform as a send key while dialing.

To configure key as send via phone user interface:

1. Tap  -> **Features->General**.

2. Tap the gray box of the **Key As Send** field, and then select **#** or ***** from the pull-down list, or select **Disabled** to disable this feature.



3. Tap the **Save** soft key to accept the change or  to cancel.

Key as send is configurable via web user interface at the path **Features->General Information**.

Phone Lock

You can lock your phone temporarily when you are not using it. This feature helps to protect your phone from unauthorized use.


When the phone is locked, the following you needed to know:


LCD screen and all keys are locked except the Volume key, digit keys, # key, * key, HEADSET key and Speakerphone key. You are only allowed to dial emergency numbers, reject incoming calls by pressing the X key or tapping the **Reject** soft key, answer incoming calls by lifting the handset, pressing the Speakerphone key, the HEADSET key, the OK key or tapping the **Answer** soft key, and end the call by hanging up the handset, pressing the Speakerphone key, X key or tapping the **End Call** soft key.

Note

The emergency number setting, if desired, must be made before lock activation. For more information, refer to [Emergency Number](#) on page 131.

To activate the phone lock via phone user interface:


1. Tap  -> **Basic->Phone Lock**.
2. Enter the desired PIN (default PIN: 123) in the **Unlock PIN** field, and then tap the **Save** soft key or press **OK**.
3. Tap the gray box of the **Lock Enable** field, and then select **Enabled** from the pull-down list.
4. Enter the desired interval of automatic phone lock in the **Auto Lock** field.

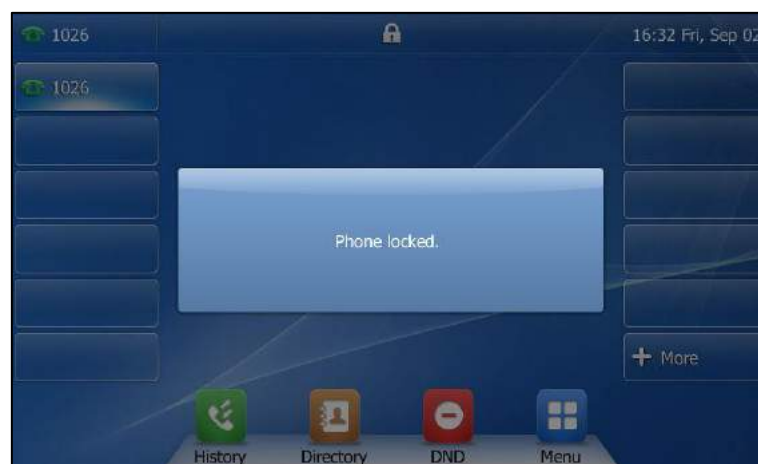
The default timeout is 0. It means the phone will not be automatically locked. You need to long press  to lock it immediately when the phone is idle.

If it is set to other values except 0 (e.g., 5), the phone will be locked when the phone is inactive in idle screen for the designated time (in seconds).



5. Tap the **Save** soft key to accept the change.

When the phone is locked, the touch screen prompts "Phone locked." and displays the icon .



To change the phone unlock PIN via phone user interface:

1. Tap  -> **Basic**-> **Change PIN**.

2. Enter the desired value in the **Old PIN**, **New PIN** and **Confirm PIN** field respectively.



3. Tap the **Save** soft key to accept the change or  to cancel.


Note The unlock PIN length must be within 15 digits.


To unlock the phone via phone user interface:

1. Tap the locked key, the touch screen prompts "Unlock PIN".
2. Enter the desired PIN in the **Unlock PIN** field.




3. Tap **OK** to unlock the phone.

The icon  disappears from the touch screen.

You can long press  or wait for a period of time (if configured) to lock the phone again.

Note You can also unlock the phone by administrator password. When you enter the administrator password to unlock the phone, the phone will turn to the Change PIN screen.

To deactivate the phone lock via phone user interface:

1. Tap  -> **Basic**-> **Phone Lock**.
2. Enter the desired PIN (default PIN: 123) in the **Unlock PIN** field, and then tap the **Save** soft key or press **OK**.
3. Tap the gray box of the **Lock Enable** field, and then select **Disabled** from the pull-down list.



4. Tap the **Save** soft key to accept the change.

Phone lock is configurable via web user interface at the path **Features**->**Phone Lock**.

Audio Settings


Volume

You can press the Volume key to adjust the ringer volume when the phone is idle or ringing. You can also press the Volume key to adjust the receiver volume of currently engaged audio devices (handset, speakerphone or headset) when the phone is in use.

Note


Your system administrator can disable you to adjust the ringer volume. Contact your system administrator for more information.

To adjust the ringer volume when the phone is idle:


1. Press  to adjust the ringer volume.




To adjust the ringer volume when the phone is ringing:

1. Press  to adjust the ringer volume.




You can also press  to adjust the ringer volume when selecting a ring tone. For more information, refer to [Ring Tones](#) on page 65.


Note

If ringer volume is adjusted to minimum, the icon  will appear on the LCD screen.

To adjust the volume when the phone is during a call:

1. Press  to adjust the volume of currently engaged audio device (handset, speakerphone or headset).

**Note**

You can also press  to adjust the volume when playing back the recording calls. For more information, refer to [Playing Back Recorded Calls](#) on page 199.


Ring Tones

Ring tones are used to indicate incoming calls. You can select different ring tones to distinguish different accounts registered on your phone, or to distinguish your phone from your neighbor's.

The ring tone format must meet the following:

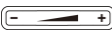

Format	Single File Size	Note
.wav	<=8MB	2MB of space should be reserved for the phone

To select a ring tone for the phone via phone user interface:

1. Tap  -> **Basic**->**Sound**->**Ring Tones**->**Common**.
2. Tap ▲ or ▼ to scroll through the list of available ring tones.


3. Tap the desired ring tone.



4. (Optional.) Press  to adjust the ringer volume.
5. Tap the **Save** soft key to accept the change or  to cancel.



A ring tone for the phone is configurable via web user interface at the path **Settings->Preference->Ring Type**.

To select a ring tone for the account via phone user interface:

1. Tap  -> **Basic**->**Sound**->**Ring Tones**.
2. Tap the desired account.
3. Tap ▲ or ▼ to scroll through the list of available ring tones.
4. Tap the desired ring tone.

If **Common** is selected, this account will use the ring tone selected for the phone.

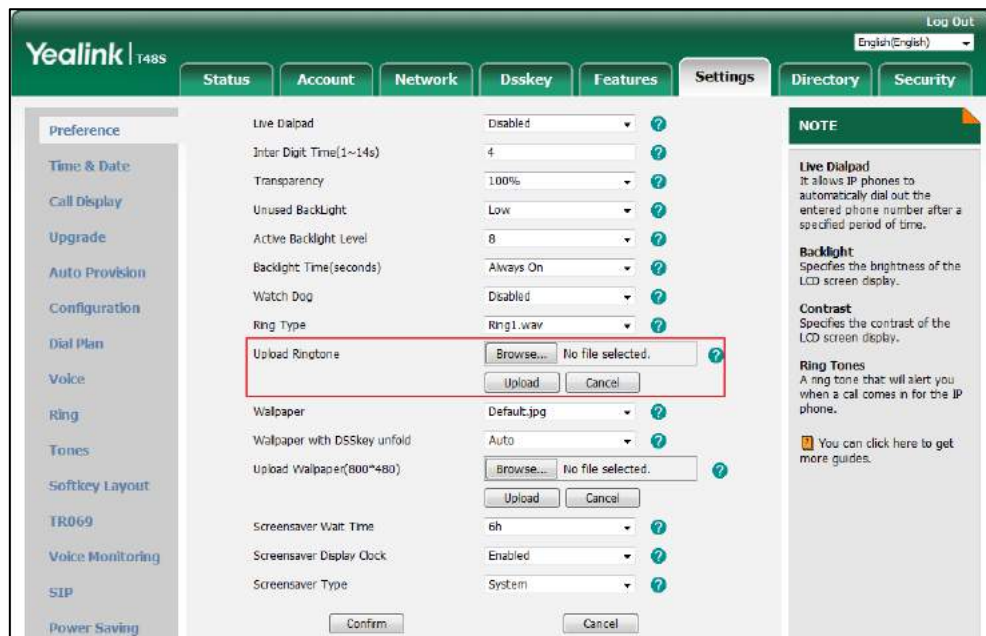


5. (Optional.) Press  to adjust the ringer volume.
6. Tap the **Save** soft key to accept the change or  to cancel.

A ring tone for the account is configurable via web user interface at the path **Account->Basic->Ring Type**.

To upload a custom ring tone for your phone via web user interface:

1. Click on **Settings->Preference**.
2. In the **Upload Ringtone** field, click **Browse** to locate a ring tone file (the file format must be *.wav) from your local system.



3. Click **Upload** to upload the file.

The custom ring tone appears in the pull-down list of **Ring Type**.

You can only delete the custom ring tone by clicking **Del** when selecting the desired custom ring tone in the **Ring Type** field.

Note

The priority of ring tone for an incoming call on the phone is as follows:
Contact ring tone (refer to [Adding Groups](#)) > Group ring tone (refer to [Adding Groups](#)) > Account ring tone > Phone ring tone.

Uploading custom ring tones for your phone is configurable via web user interface only.

Key Tone


If you enable key tone, the phone will produce a sound when you press the keypad.

To configure key tone via phone user interface:

1. Tap  -> **Basic**->**Sound**->**Key Tone**.

2. Tap the **On** or **Off** radio box of the **Key Tone** field.



3. Tap the **Save** soft key to accept the change or  to cancel.

Key tone is configurable via web user interface at the path **Features->Audio**.

Contact Management

This section provides the operating instructions for managing contacts. Topics include:

- [Directory](#)
- [Local Directory](#)
- [Blacklist](#)
- [Mobile Contacts](#)
- [Remote Phone Book](#)


Directory

Directory provides an easy access to the frequently used lists. The lists may contain Local Directory, History, Remote Phone Book and LDAP. You can configure the list(s) to be accessed for the **Directory** soft key.

Note




LDAP is disabled by default. For more information, contact your system administrator.

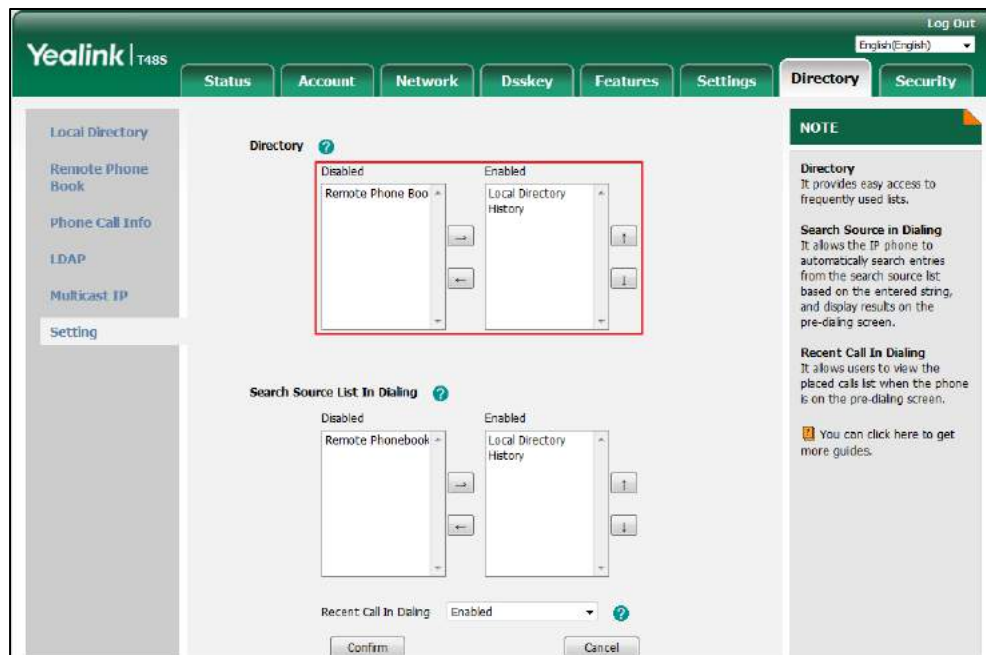
To configure the list(s) to access for the Directory soft key via web user interface:

1. Click on **Directory->Setting**.
2. In the **Directory** block, select the desired list from the **Disabled** column and then click .

The selected list appears in the **Enabled** column.

3. Repeat the step 2 to add more lists to the **Enabled** column.

4. To remove a list from the **Enabled** column, select the desired list and then click .
5. To adjust the display order of the enabled lists, select the desired list and then click  or .





6. Click **Confirm** to accept the change.

Note

The list(s) to access for the **Directory** soft key is configurable via web user interface only.

To view the directory list(s) via phone user interface:

1. Tap  when the phone is idle.
 - If only one list is enabled for the directory, tap  to view the list directly.

- If more than one list is enabled for the directory, tap the desired list you want to view, and then tap **OK**.



Note

If the remote phone book and LDAP are not configured in advance, you cannot view remote phone book and LDAP lists on the phone user interface. For more information on remote phone book, refer to [Remote Phone Book](#) on page 92. For more information on LDAP, contact your system administrator.

Local Directory

The built-in phone directory can store the names and phone numbers of your contacts. You can store up to 1000 contacts and 48 groups in your phone's local directory. You can add new groups and contacts, edit, delete or search for a contact, or simply dial a contact number from the local directory.

Note

Local directory can be backed up to the provisioning server. For more information, contact your system administrator.

Adding Groups

To add a group to the local directory:

1. Tap .

The IP phone enters the local directory directly as there is only Local Directory enabled in the directory by default.





If Local Directory is removed from the directory (refer to [Directory](#) on page 68), tap



-> **Directory**-> **All Contacts** to enter the local directory.

2. Tap **Setting**.
3. Tap **New Group**.
4. Enter the desired group name in the highlighted field.



5. Tap  to accept the change.
6. Tap  to specify a ring tone for the group.

7. Tap ▲ or ▼ to scroll through the list of available ring tones.
8. Tap the desired ring tone.

If **Auto** is selected, this group will use the ring tone according to the priority: Contact ring tone (refer to [Adding Contacts](#)) > Account ring tone (refer to [Ring Tones](#)) > Phone ring tone (refer to [Ring Tones](#)). If a specific ring tone is selected, this group will use the ring tone according to the priority: Contact ring tone (refer to [Adding Contacts](#)) > Group ring tone.

9. Tap **OK** to accept the change.

Editing Groups

To edit a group in the local directory:

1. Tap .


The IP phone enters the local directory directly as there is only Local Directory enabled in the directory by default.

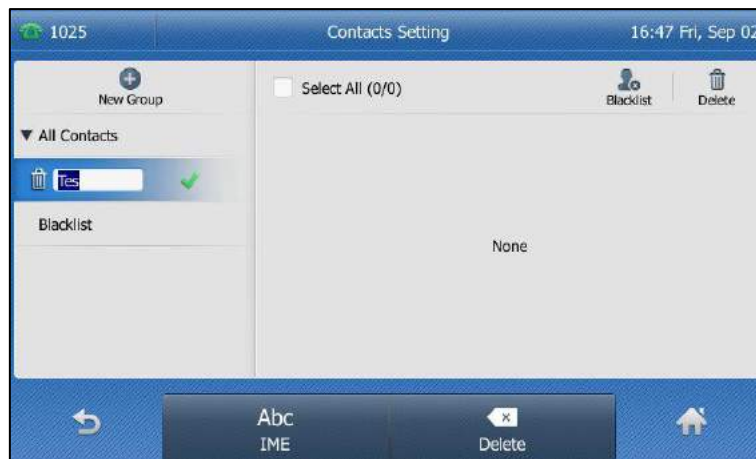



If Local Directory is removed from the directory (refer to [Directory](#) on page 68), tap

 -> **Directory**-> **All Contacts** to enter the local directory.

2. Tap **Setting**.
3. Tap the desired group.

4. Tap  after the group name.



5. Edit the group name in the highlighted field.
6. Tap  to accept the change.

Deleting Groups

To delete a group from the local directory:

1. Tap .


The IP phone enters the local directory directly as there is only Local Directory enabled in the directory by default.



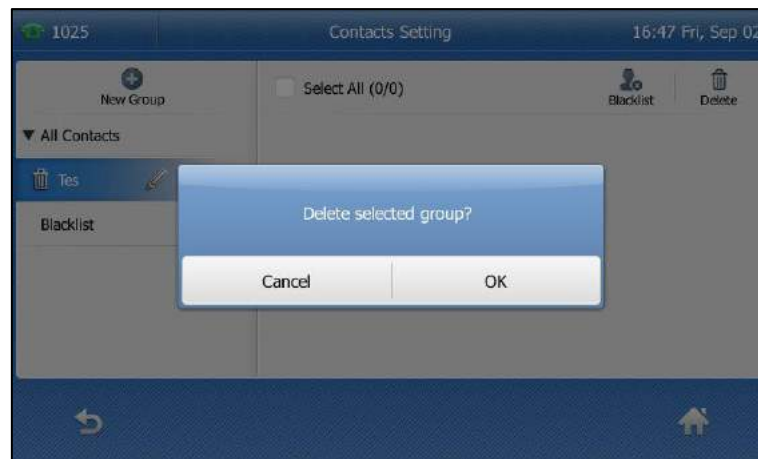
If Local Directory is removed from the directory (refer to [Directory](#) on page 68), tap



-> **Directory**-> **All Contacts** to enter the local directory.

2. Tap **Setting**.
3. Tap the desired group.
4. Tap  before the group name.

The touch screen prompts the following warning:



5. Tap **OK** to confirm the deletion or **Cancel** to cancel.

Adding Contacts

You can add contacts to the local directory in one of the following ways:

- Manually
- From call history
- From a remote phone book

Adding Contacts Manually

To add a contact to the local directory manually:

1. Tap .

The IP phone enters the local directory directly as there is only Local Directory enabled in the directory by default.



If Local Directory is removed from the directory (refer to [Directory](#) on page 68), tap



-> **Directory** -> **All Contacts** to enter the local directory.

2. Tap **Add**.

If you want add a contact to the specified contact group, you can tap the contact group first, and then tap **Add**.

3. Enter the name and the office, mobile or other numbers in the corresponding fields.

4. Tap the gray box of the **Account** field, and then select the desired account from the pull-down list.

If **Auto** is selected, the phone will use the default account when placing calls to the contact from the local directory.

5. Tap the gray box of the **Ring** field, and then select the desired ring tone from the pull-down list.

If **Auto** is selected, this contact will use the ring tone according to the priority: Group ring tone (refer to [Adding Groups](#)) > Account ring tone (refer to [Ring Tones](#)) > Phone ring tone (refer to [Ring Tones](#)).






6. Tap the gray box of the **Photo** field, and then select the desired photo from the pull-down list.
7. Tap the **Save** soft key to accept the change.


Note

If the contact already exists in the directory, the touch screen will prompt "Contact name existed!".

Adding Contacts from Call History

To add a contact to the local directory from call history:

1. Tap .
2. Tap  or  to turn pages.
You can also press  or  to switch pages.

3. Tap  after the desired entry.



4. Tap **Add**.
5. Edit the corresponding fields.



6. Tap the **Save** soft key to accept the change.
The entry is successfully saved to the local directory.

Adding Contacts from Remote Phone Book

To add a contact to the local directory from a remote phone book:

1. Tap  -> **Directory**-> **Remote Phone Book**.

If Remote Phone Book is added to the directory (refer to [Directory](#) on page 68), tap




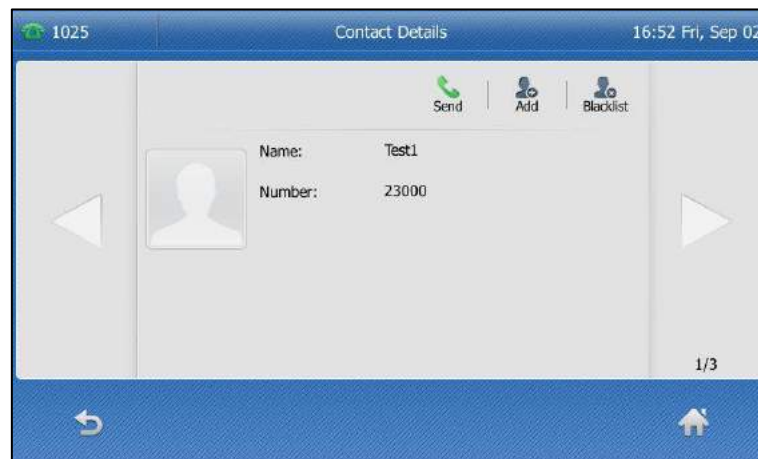
-> **Remote Phone Book** to enter the remote phone book.



2. Tap the desired remote phone book.

The phone then connects to the remote phone book and proceeds to load it. The contacts in the remote phone book are displayed on the touch screen.

3. Tap  after the desired contact in the remote phone book.



4. Tap **Add**.

5. Edit the corresponding fields.



6. Tap the **Save** soft key to save the contact to the local directory.

If the contact already exists in the local directory, the touch screen will prompt "Overwrite the original contact?". Tap **OK** to overwrite the original contact in the local directory or **Cancel** to cancel.

For more information on remote phone book operation, refer to [Remote Phone Book](#) on page 92.

Editing Contacts

To edit a contact in the local directory:

1. Tap .


The IP phone enters the local directory directly as there is only Local Directory enabled in the directory by default.




If Local Directory is removed from the directory (refer to [Directory](#) on page 68), tap



-> **Directory**-> **All Contacts** to enter the local directory.

2. Tap  after the desired contact.

If the contact was added to a specified contact group, you can tap the contact group first, and then tap  after the desired contact.

3. Tap the desired field to edit the contact information.



You can tap  or  to switch the contact you want to edit.

4. Tap the **Save** soft key to accept the change or  to cancel.

Deleting Contacts

To delete a contact from the local directory:

1. Tap .


The IP phone enters the local directory directly as there is only Local Directory enabled in the directory by default.




If Local Directory is removed from the directory (refer to [Directory](#) on page 68), tap



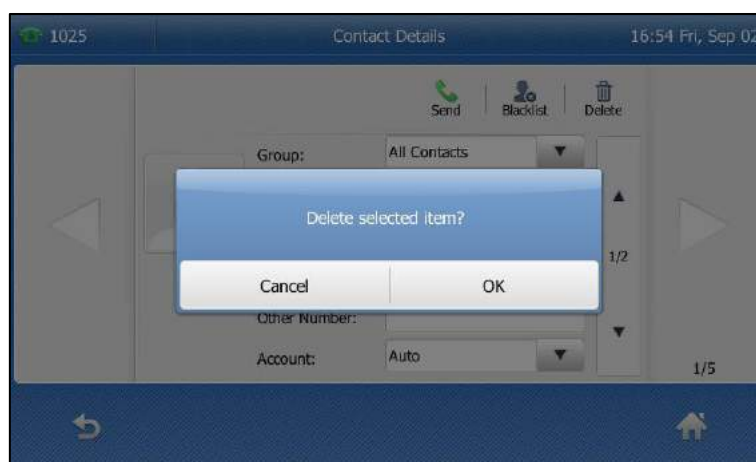
-> **Directory**->**All Contacts** to enter the local directory.

2. Tap  after the desired contact.

If the contact was added to a specified contact group, you can tap the contact group first, and then tap  after the desired contact.

3. Tap **Delete**.

The touch screen prompts the following warning:



4. Tap **OK** to confirm the deletion or **Cancel** to cancel.

To delete all contacts:

1. Tap .

The IP phone enters the local directory directly as there is only Local Directory enabled in the directory by default.



If Local Directory is removed from the directory (refer to [Directory](#) on page 68), tap

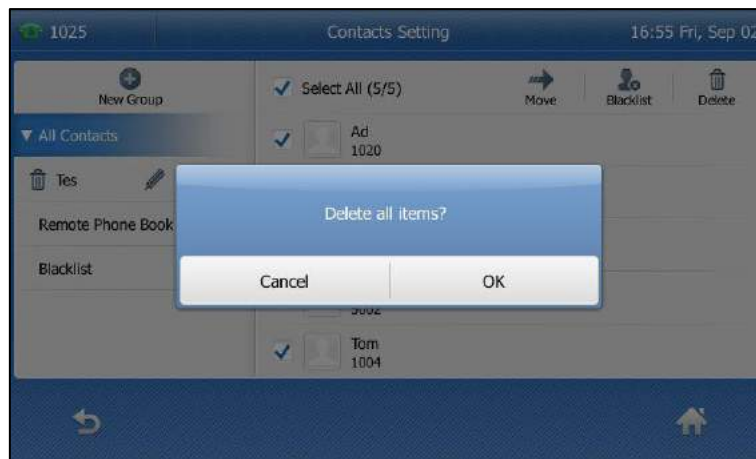
 -> **Directory**-> **All Contacts** to enter the local directory.

2. Tap **Setting**.

3. Tap the checkbox of **Select All**.

4. Tap **Delete**.

The touch screen prompts the following warning:

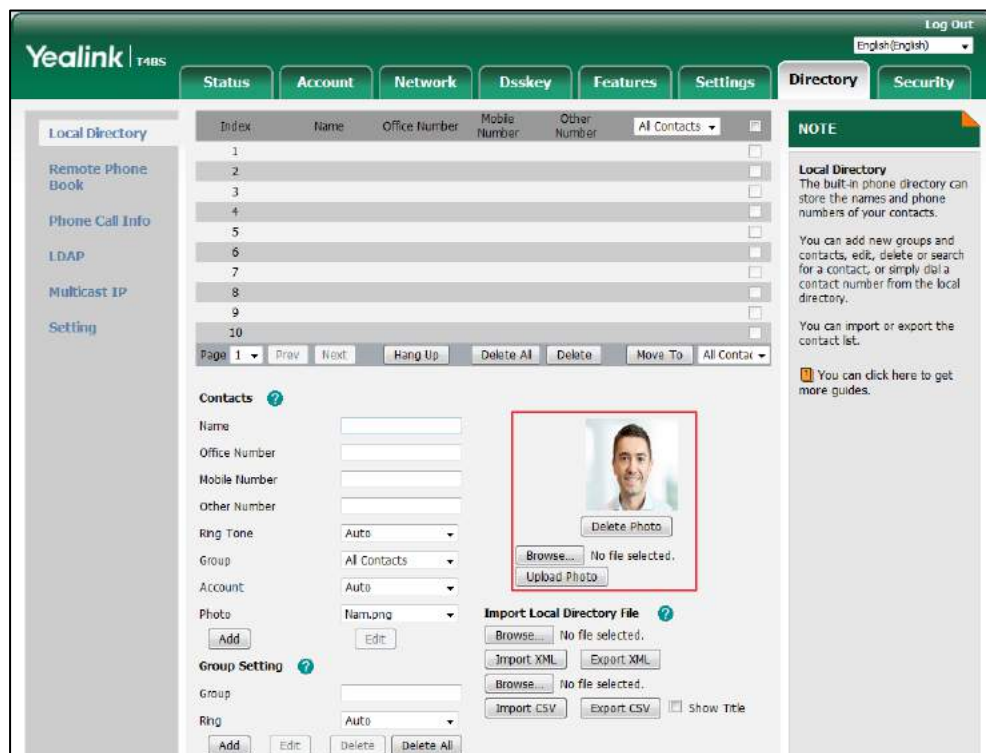


5. Tap **OK** to confirm the deletion or **Cancel** to cancel.

Uploading Contact Photos

To upload a new custom photo for a contact via web user interface:

1. Click on **Directory**->**Local Directory**.
2. Click **Browse**, and then locate a photo file from your local computer.
3. Click **Upload Photo** to upload the photo.



You can click **Delete Photo** to delete the custom photo.

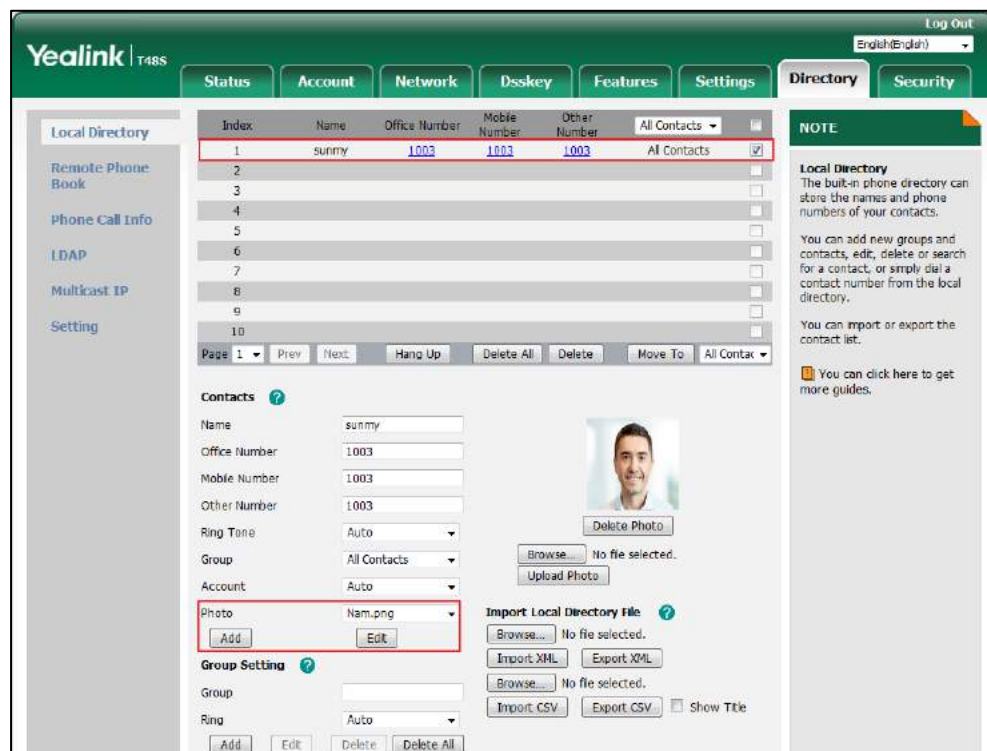
Note

The phone only supports *.png, *.jpg, *.jpeg and .bmp format files.

You can only delete custom photos.

To change the custom photo for the contact via web user interface:

1. Click on **Directory->Local Directory**.
2. Click the desired entry you want to edit.
3. Select the desired photo from the pull-down list of **Photo**.



4. Click **Edit** to accept the change.

When you place a call to the contact or receive a call from the contact, the touch screen will display the contact photo.



Placing Calls to Contacts

To place a call to a contact from the local directory:

1. Tap .

The IP phone enters the local directory directly as there is only Local Directory enabled in the directory by default.



If Local Directory is removed from the directory (refer to [Directory](#) on page 68), tap



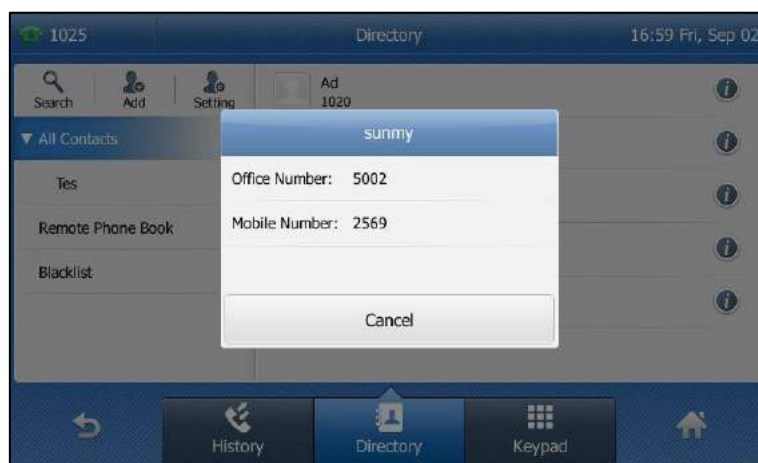
-> **Directory->All Contacts** to enter the local directory.

2. Tap the desired contact.

If the contact was added to a specified contact group, you can tap the contact group first, and then tap the desired contact.

- If only one number for the contact is stored in the local directory, the contact number will be dialed out.

- If multiple numbers for the contact are stored in the local directory, the touch screen will prompt:



Tap the desired number. The selected number will be dialed out.

Searching for Contacts

To search for a contact in the local directory:

1. Tap .

The IP phone enters the local directory directly as there is only Local Directory enabled in the directory by default.



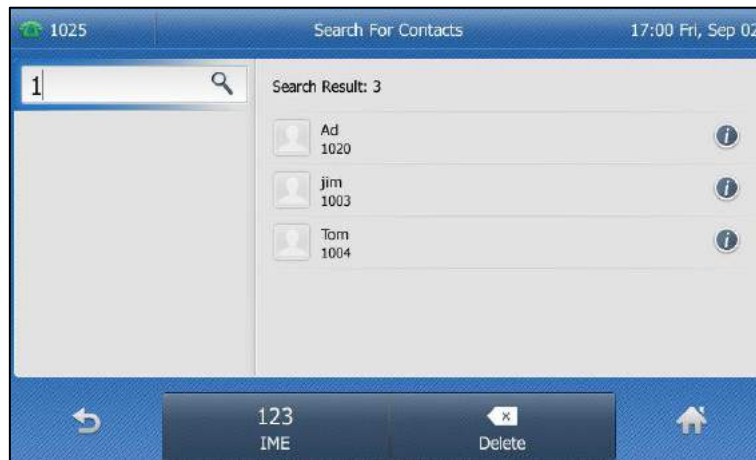
If Local Directory is removed from the directory (refer to [Directory](#) on page 68), tap



-> **Directory**-> **All Contacts** to enter the local directory.

2. Tap **Search**.

3. Enter a few continuous characters of the contact name or continuous numbers of the contact number (office, mobile or other number) using the keypad.



The contacts whose name or phone number matches the characters entered will appear on the touch screen. You can dial from the result list.

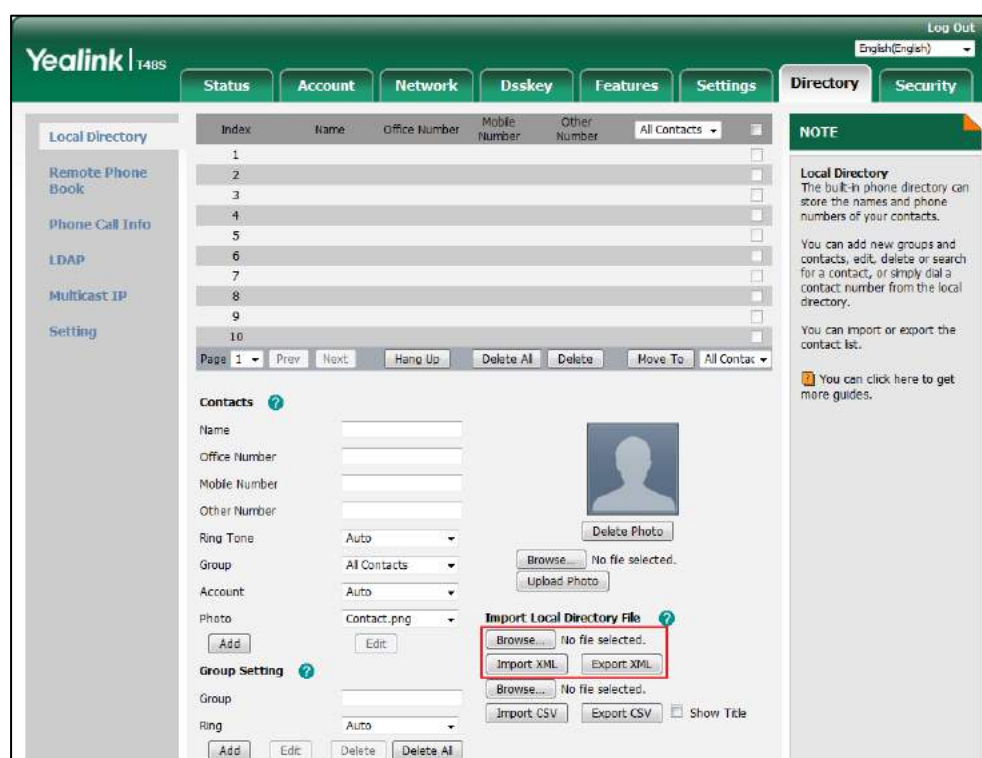
Importing/Exporting Contact Lists

You can manage your phone's local directory via phone user interface or web user interface. But you can only import or export the contact list via web user interface.

To import an XML contact list file via web user interface:

1. Click on **Directory->Local Directory**.
2. Click **Browse** to locate a contact list file (the file format must be *.xml) from your local system.

- Click **Import XML** to import the contact list.



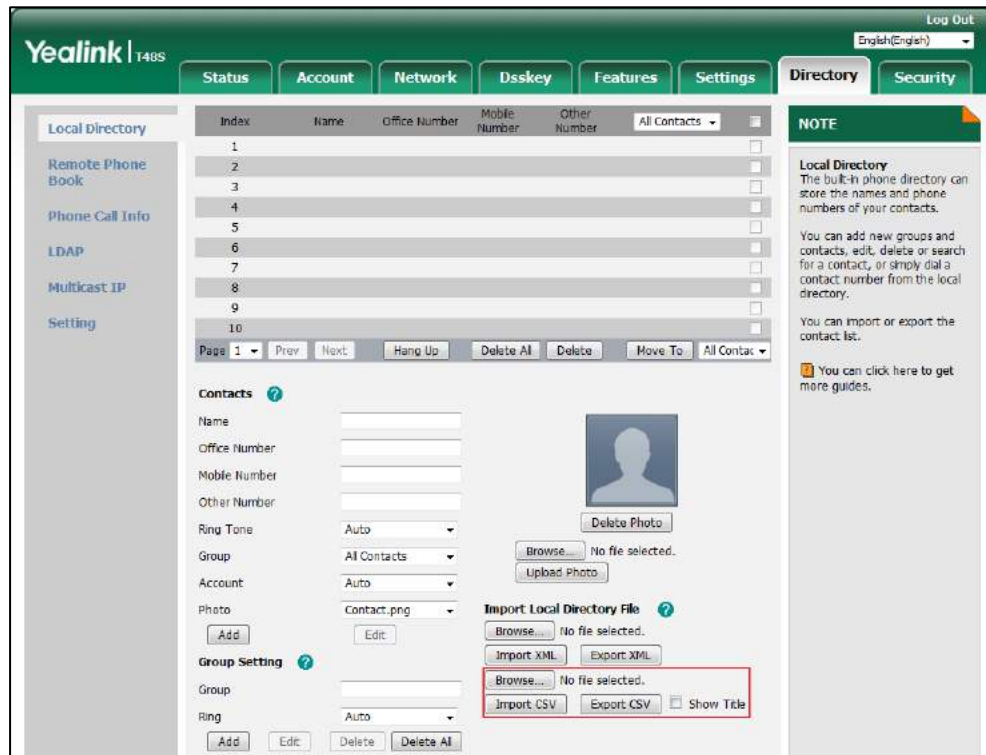
The web user interface prompts "The original contact will be covered, continue?".

- Click **OK** to complete importing the contact list.

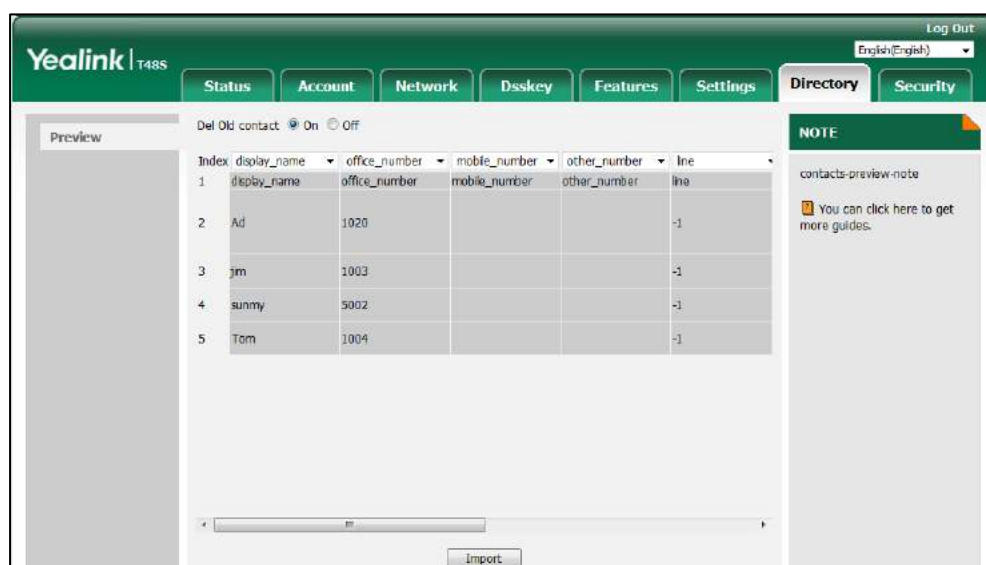
To import a CSV contact list file via web user interface:

- Click on **Directory->Local Directory**.
- Click **Browse** to locate a contact list file (the file format must be *.csv) from your local system.
- (Optional.) Check the **Show Title** checkbox.

It will prevent importing the title of the contact information which is located in the first line of the CSV file.



4. Click **Import CSV** to import the contact list.
5. (Optional.) Mark the **On** radio box in the **Del Old contact** field.
It will delete all existing contacts while importing the contact list.
6. Select the contact information you want to import into the local directory from the pull-down list of **Index**.
At least one item should be imported into the local directory.



7. Click **Import** to complete importing the contact list.

To export a contact list via web user interface:

1. Click on **Directory**->**Local Directory**.
2. Click **Export XML** (or **Export CSV**).
3. Click **Save** to save the contact list to your local system.



Note

Importing/exporting contact lists is available via web user interface only.

Blacklist


The built-in phone directory can store names and phone numbers for a blacklist. You can store up to 30 contacts; add, edit, delete or search for a contact in the blacklist directory, and even call a contact from the blacklist directory. Incoming calls from the blacklist directory contacts will be rejected automatically.

To add a contact to the blacklist directory manually:

1. Tap  -> **Blacklist** or tap  -> **Directory**-> **Blacklist** to enter the blacklist directory.
2. Tap **Add**.
3. Enter the contact's name and the office, mobile or other numbers in the corresponding fields.



The screenshot shows the 'New Contact' screen. At the top, it says '1025' and 'New Contact' with a timestamp '17:00 Fri, Sep 02'. The main area has a 'Group' dropdown set to 'Blacklist', a 'Name' field with 'Ajt', an 'Office Number' field with '123', 'Mobile Number' and 'Other Number' fields, and an 'Account' dropdown set to 'Auto'. The bottom bar has a back arrow, a '123 IME' field, a 'Delete' button, a 'Save' button, and a home icon.

4. Tap the gray box of the **Account** field, and then select the desired account from the pull-down list.
If **Auto** is selected, the phone will use the default account when placing calls to the contact from the blacklist directory.
5. Tap the **Save** soft key to accept the change or  to cancel.

To add a contact to the blacklist directory from the local directory:


1. Tap .


The IP phone enters the local directory directly as there is only Local Directory enabled in the directory by default.



If Local Directory is removed from the directory (refer to [Directory](#) on page 68), tap

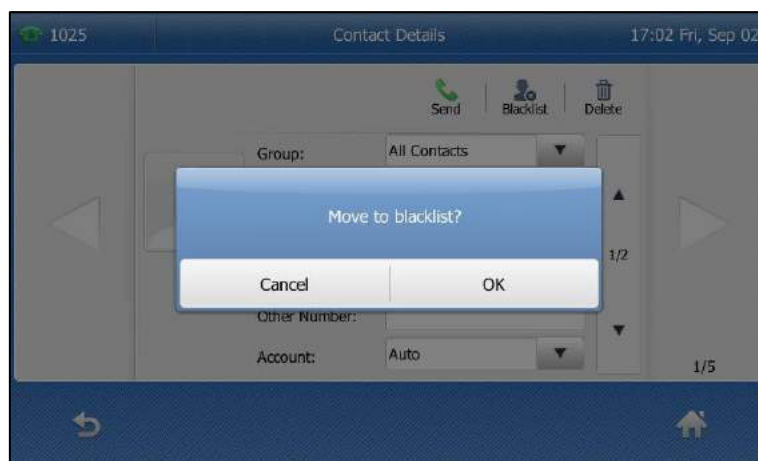
 -> **Directory**->**All Contacts** to enter the local directory.

2. Tap  after the desired contact.

If the contact was added to a specified contact group, you can tap the contact group first, and then tap  after the desired contact.

3. Tap **Blacklist**.

The touch screen prompts the following warning:



4. Tap **OK** to accept the change or **Cancel** to cancel.

For operating instructions on editing, deleting, placing calls to and/or searching for contacts in the blacklist directory, refer to the operating instructions of [Editing Contacts](#) on page 78, [Deleting Contacts](#) on page 79, [Placing Calls to Contacts](#) on page 83 and/or [Searching for Contacts](#) on page 84.

Mobile Contacts



You can sync mobile phone contacts temporarily when pairing and connecting your IP phone to your Bluetooth-enabled mobile phone. The mobile phone contacts will be imported to the mobile contacts directory on your IP phone. You can add a contact to the local directory or blacklist directory from mobile contacts. You cannot add a contact to the mobile contacts directory on your IP phone.

For more information, refer to [Pairing and Connecting the Bluetooth-Enabled Mobile Phone](#) on page 105.

Note

If you disconnect the Bluetooth-enabled mobile phone from IP phone or disable the IP phone to sync phone contacts, the mobile contacts directory will disappear.



To add a contact to the local directory from mobile contacts directory:

1. Tap  -> **Mobile Contacts**.
2. Drag up and down to view the list of mobile contacts.
3. Tap  after the desired entry.
4. Tap **Add**.
5. Edit the corresponding fields.



6. Tap the **Save** soft key to accept the change.
The entry is successfully saved to the local directory.

To add a contact to the blacklist directory from the mobile contacts directory:

1. Tap  -> **Mobile Contacts**.
2. Drag up and down to view the list of mobile contacts.
3. Tap  after the desired contact.
4. Tap **Blacklist**.

5. Edit the corresponding fields.



6. Tap the **Save** soft key to accept the change.

The entry is successfully saved to the blacklist directory.

For operating instructions on placing calls to and/or searching for contacts in the mobile contacts directory, refer to the operating instructions of [Placing Calls to Contacts](#) on page 83 and/or [Searching for Contacts](#) on page 84.

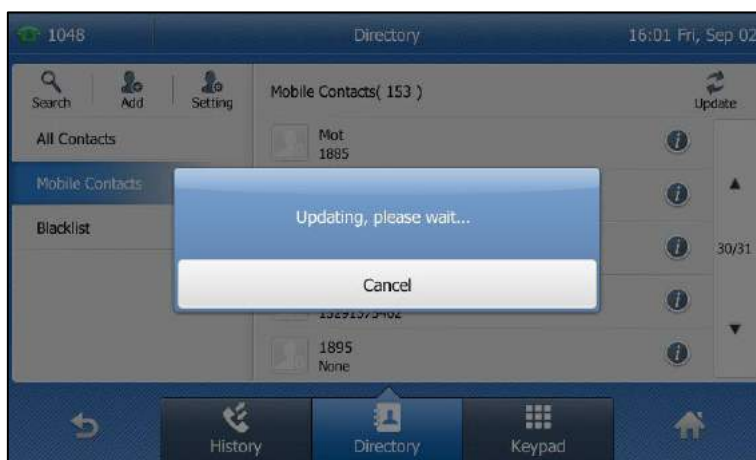
Note

The contact that is added to the local directory or blacklist directory will not disappear, after you disconnect the mobile phone from the IP phone.

To update the mobile contacts directory:

1. Tap  -> **Mobile Contacts**.
2. Tap **Update**.

The touch screen will prompt "Updating, please wait...", you need to authorize the IP phone to sync the contacts temporarily on the mobile phone.



After updating, the contacts you add, edit, delete on the mobile phone will sync to the mobile contacts directory.

Note

If you disconnect the mobile phone from IP phone when the IP phone is updating the mobile phone book, the touch screen will prompt "Fail to download mobile contacts!", and the mobile contacts directory will disappear from the IP phone directory list.

Remote Phone Book

You can add contacts to the local directory, search for a contact, or simply dial a contact number from the remote phone book.

You can configure your new phone to access up to 5 remote phone books. For the access URL of the remote phone book, contact your system administrator.

For operating instructions on placing calls to and/or searching for contacts in the remote phone book, refer to the operating instructions of [Placing Calls to Contacts](#) on page 83 and/or [Searching for Contacts](#) on page 84.

Configuring an Access URL

To configure an access URL for a remote phone book via web user interface:

1. Click on **Directory->Remote Phone Book**.
2. Enter the access URL in the **Remote URL** field.
3. Enter the name in the **Display Name** field.
4. Enter the desired refresh period in the **Update Time Interval(Seconds)** field.

The default value is 21600.

5. Click **Confirm** to accept the change.

Note

An access URL for a remote phone book is configurable via web user interface only.

The size of a remote phone book file should be less than 1.5M. We recommend you to download less than 5000 remote contacts from the remote server.

Accessing the Remote Phone Book

To access your remote phone book via phone user interface:

1. Tap  -> **Directory**-> **Remote Phone Book**.

If Remote Phone Book is added to the directory (refer to [Directory](#) on page 68), tap




-> **Remote Phone Book** to enter the remote phone book.

2. Tap the desired remote phone book.

The phone then connects to the remote phone book and proceeds to load it. The contacts in the remote phone book are displayed on the touch screen.

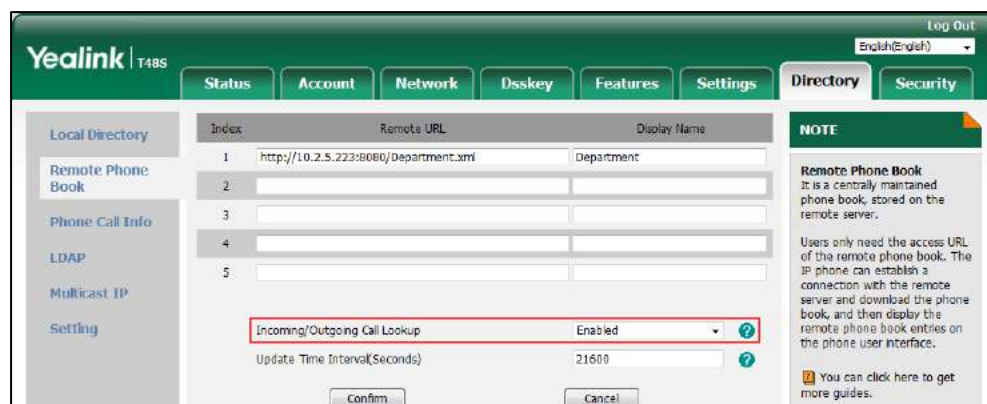


You can tap  to back to the previous interface.

Incoming/Outgoing Call Lookup

To configure incoming/outgoing call lookup and update time interval via web user interface:

1. Click on **Directory**-> **Remote Phone Book**.
2. Select **Enabled** from the pull-down list of **Incoming/Outgoing Call Lookup**.



3. Click **Confirm** to accept the change.

Call History Management

The SIP-T48S IP phone maintains call history lists of Missed Calls, Placed Calls, Received Calls and Forwarded Calls. Each call history list supports up to 100 entries. You can view call history, place a call, add a contact or delete an entry from the call history list.

History record feature is enabled by default, if you don't want to save the call history, you can disable the feature.



Viewing History Records

To view call history:


1. Tap .

The touch screen displays all call records.

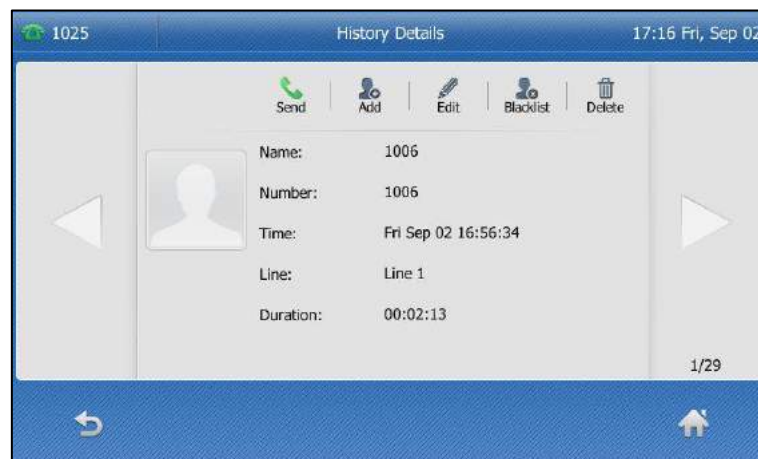
2. Tap ▲ or ▼ to turn pages.

You can also press  or  to switch pages.

You can tap **Missed Calls**, **Placed Calls**, **Received Calls** or **Forwarded Calls** to view entries in each call list directly.

3. Tap  after the desired entry.

The detailed information of the entry appears on the touch screen.




Placing a Call from History Records

To place a call from the call history list:

1. Tap .

The touch screen displays all call records.

2. Tap ▲ or ▼ to turn pages.

You can also press  or  to switch pages.

You can tap **Missed Calls**, **Placed Calls**, **Received Calls** or **Forwarded Calls** to view entries in each call list directly.



3. Tap the desired entry.

Adding a Contact to the Local Directory/Blacklist

To add a contact to the local directory (or blacklist directory) from the call history list:


1. Tap .

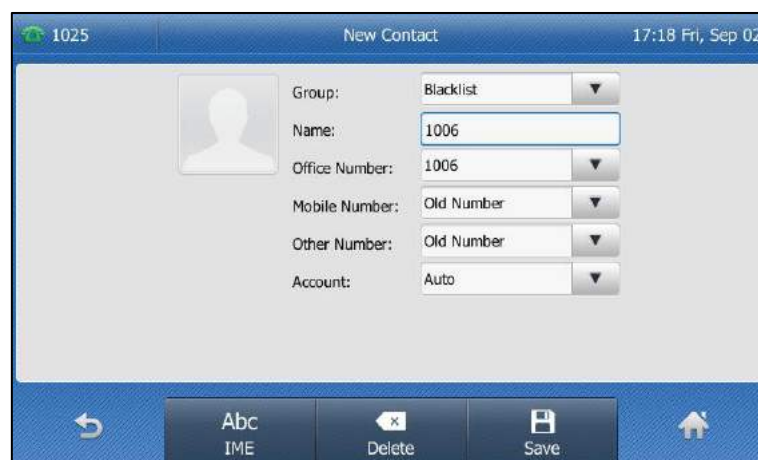
The touch screen displays all call records.

2. Tap ▲ or ▼ to turn pages.

You can also press ▲ or ▼ to switch pages.

You can tap **Missed Calls**, **Placed Calls**, **Received Calls** or **Forwarded Calls** to view entries in each call list directly.

3. Tap  after the desired entry.
4. Tap **Add** (or **Blacklist**).







5. Enter the desired values in the corresponding fields.

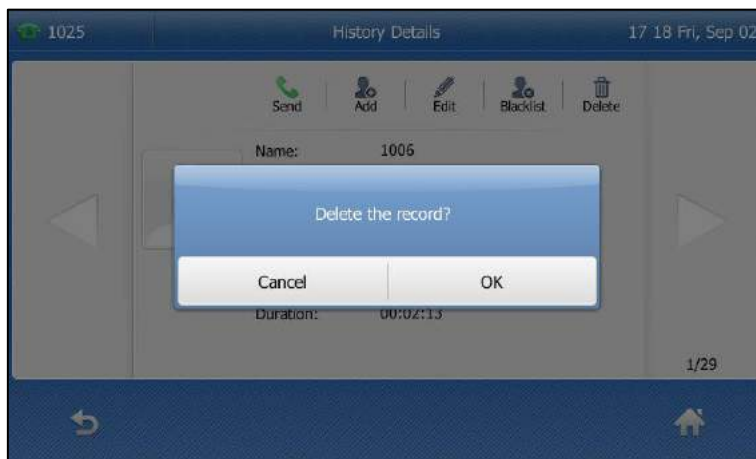
6. Tap the **Save** soft key.

For more information on local directory and/or blacklist, refer to [Local Directory](#) on page 70 and/or [Blacklist](#) on page 88.

Deleting History Records




To delete an entry from the call history list:

1. Tap  .
The touch screen displays all call records.
2. Tap ▲ or ▼ to turn pages.
You can also press  or  to switch pages.
You can tap **Missed Calls**, **Placed Calls**, **Received Calls** or **Forwarded Calls** to view entries in each call list directly.
3. Tap  after the desired entry.
4. Tap **Delete**.
The touch screen prompts "Delete the record?".



5. Tap **OK** to confirm the deletion or **Cancel** to cancel.

To delete all entries from the call history list:

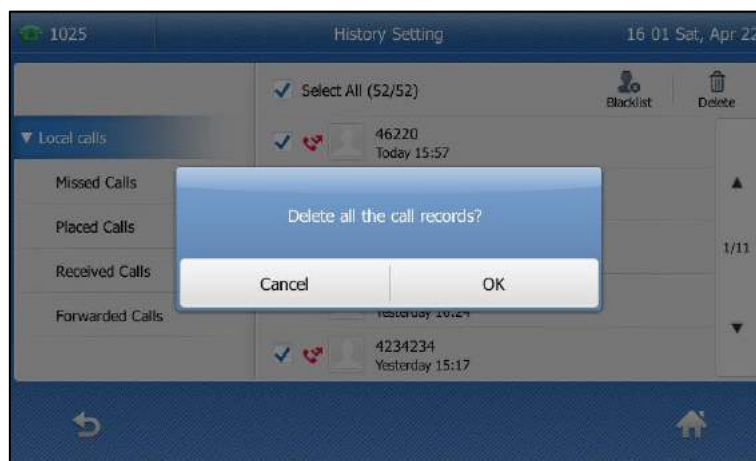
1. Tap  .
The touch screen displays all call records.
2. Tap ▲ or ▼ to turn pages.
You can also press  or  to switch pages.
You can tap **Missed Calls**, **Placed Calls**, **Received Calls** or **Forwarded Calls** to view entries in each call list directly.
3. Tap **Setting**.

4. Tap the checkbox of **Select All**.



5. Tap **Delete**.

The touch screen prompts "Delete all the call records?".



6. Tap **OK** to confirm the deletion or **Cancel** to cancel.

Disabling History Record

To disable history record via phone user interface:

1. Tap  -> **Features**->**General**.

2. Tap the **Off** radio box of the **History Record** field.





3. Tap the **Save** soft key to accept the change or  to cancel.



Search Source List in Dialing

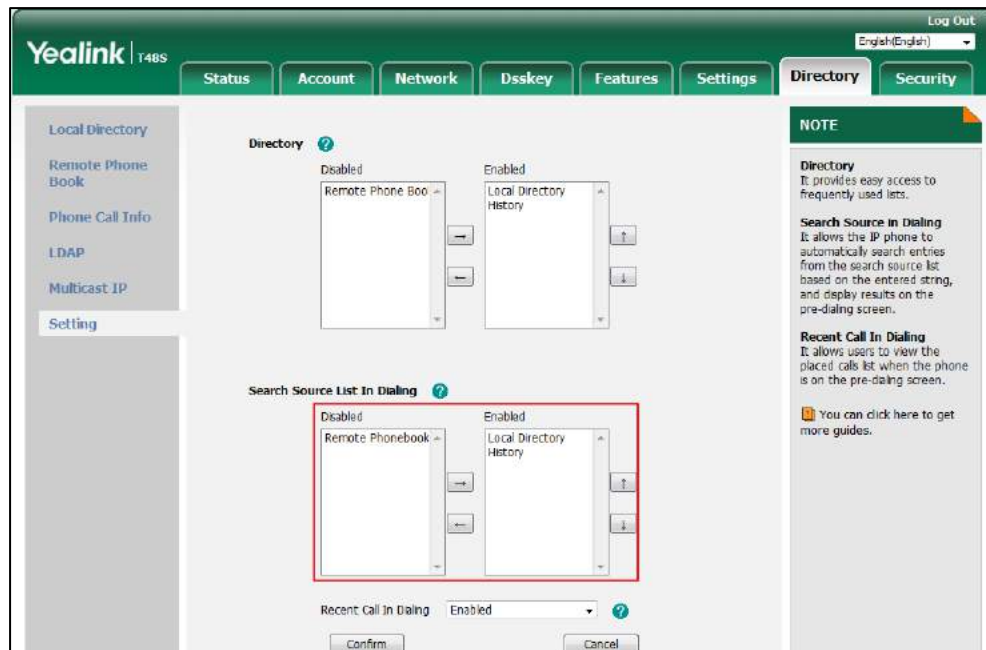
You can search for a contact from the desired lists when the phone is on the dialing screen. The lists can be Local Directory, History, Remote Phone Book and LDAP.

Note LDAP is disabled by default. For more information, contact your system administrator.

To configure search source list in dialing via web user interface:

1. Click on **Directory->Setting**.
2. In the **Search Source List In Dialing** block, select the desired list from the **Disabled** column and click  .
The selected list appears in the **Enabled** column.
3. Repeat the step 2 to add more lists to the **Enabled** column.
4. (Optional.) To remove a list from the **Enabled** column, select the desired list and then click  .

5. To adjust the display order of the enabled list, select the desired list, and click  or .



6. Click **Confirm** to accept the change.
The touch screen will display search results in the adjusted order.

Note

Search source list in dialing is configurable via web user interface only.

To search for an entry in the enabled search source lists:

1. Pick up the handset, press the Speakerphone key or tap the line key.
2. Enter a few continuous characters of the entry's name or continuous numbers of the entry's phone number (office, mobile or other number).

The entries in the enabled search source lists whose name or phone number matches the characters entered will appear on the touch screen.

You can tap the desired entry to place a call to the entry.



System Customizations

Headset Use

If you want to use a wired headset, physically connect your headset to the phone and activate the headset mode for use. For more information on physically connecting a headset, refer to [Phone Installation](#) on page 18.

If you want to use a wireless headset, insert the Bluetooth USB dongle BT40 into the USB port at the back of the IP phone. For more information on using a Bluetooth headset, refer to [Bluetooth](#) on page 102.

This section provides an introduction to wired headset use.

Note


If both a Bluetooth headset and a wired headset are connected, only the Bluetooth headset can be used.

To use headset, make sure the headset mode is enabled. Contact your system administrator for more information.

Headset Mode Activation/Deactivation

To activate the headset mode:


1. Press  on the phone.


The HEADSET key LED illuminates solid green, and the icon  appears on the status bar of the touch screen.

When you tap the line key or the **Answer** soft key to answer an incoming call, the call is connected to your headset automatically. For more information on using the headset to answer a call, refer to [Answering Calls](#) on page 138.

With the handset on-hook, enter the desired number and tap **Send**, the phone will then place a call using the headset automatically. For more information on using the headset to place a call, refer to [Placing Calls](#) on page 136.

To deactivate the headset mode:

1. Press  again on the phone.

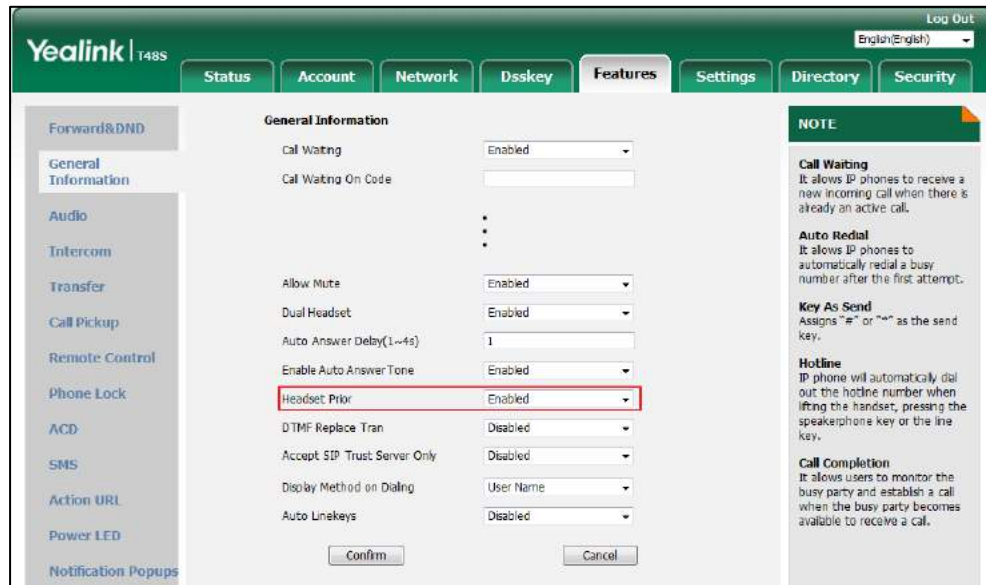
The HEADSET key LED goes out, and the icon  disappears from the touch screen.

Headset Prior

You can use headset in priority when headset prior feature is enabled. This feature is especially useful for permanent or full-time headset users.


To enable headset prior via web user interface:

1. Click on **Features**->**General Information**.
2. Select **Enabled** from the pull-down list of **Headset Prior**.



3. Click **Confirm** to accept the change.

To use headset prior, you should activate the headset mode in advance:

1. Physically connect the headset.
2. Press  to activate the headset mode.

Note

If headset prior is enabled, the headset mode will not be deactivated until you press the **HEADSET** key again.

If headset prior is disabled, the headset mode can be deactivated by pressing the Speakerphone key or the **HEADSET** key.

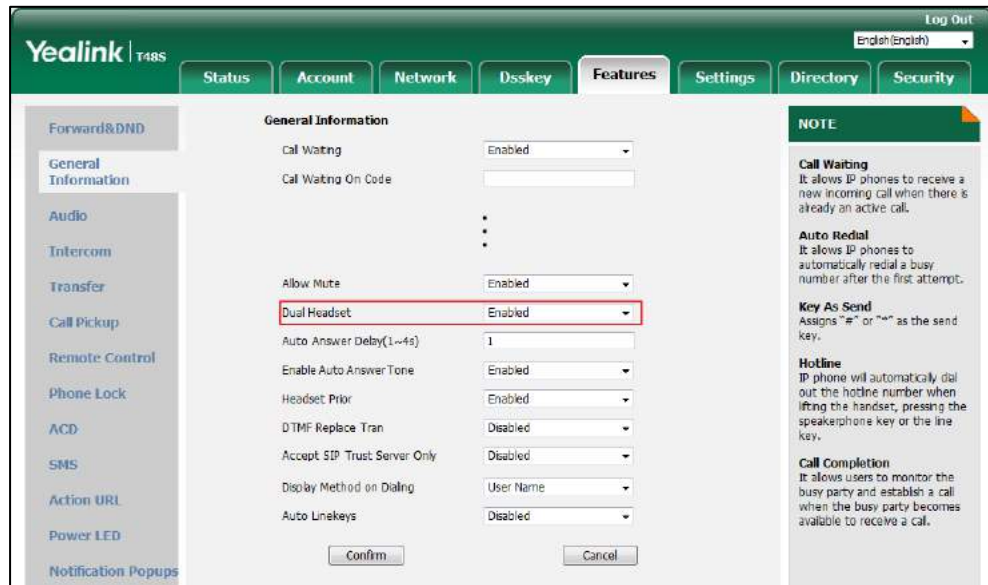
Headset prior is configurable via web user interface only.

Dual Headset

You can use two headsets when dual headset feature is enabled. To use this feature, you must physically connect headsets to the headset jack and handset jack respectively. Once the phone connects to a call, the headset connected to the headset jack will have full-duplex capabilities, while the one connected to the handset jack will only be able to listen.

To enable dual headset via web user interface:

1. Click on **Features->General Information**.
2. Select **Enabled** from the pull-down list of **Dual Headset**.



3. Click **Confirm** to accept the change.

Note Dual headset is configurable via web user interface only.

Bluetooth

The SIP-T48S IP phone supports Bluetooth. Bluetooth enables low-bandwidth wireless connections within a range of 10 meters (32 feet). The best performance is in the 1 to 2 meters (3 to 6 feet) range.

You can activate/deactivate the Bluetooth mode on the phone, and then pair and connect the Bluetooth device (Bluetooth headset or Bluetooth-Enabled mobile phone) with your phone. If you connect your Bluetooth-Enabled mobile phone to the IP phone, you can synchronize the mobile contacts to the IP phone. You can scan and pair up to 60 Bluetooth devices with your phone. However, only one device can be connected at a time. You can also disconnect and delete your Bluetooth device from the phone.

Note Ensure that the Bluetooth USB dongle BT40 is properly connected to the USB port at the back of the IP phone. For more information, refer to [Phone Installation](#) on page 18.

Not all mobile phone supports this function. Contact your system administrator for more information.

The Bluetooth device will disconnect from your phone in the following introduced scenarios:


- Deactivate the Bluetooth mode from the IP phone.
- Connect another Bluetooth device to the IP phone.
- Deactivate the Bluetooth mode from Bluetooth device.
- The distance between Bluetooth device and IP phone is out of the range of 10 meters.

Activating the Bluetooth Mode

When you insert Bluetooth USB dongle BT40 into the USB port at the back of the IP phone, the touch screen prompts "Bluetooth adapter is added, scanning Bluetooth devices right now?". You can tap **OK** to activate Bluetooth mode directly and then scan Bluetooth devices automatically.



To activate the Bluetooth mode via phone user interface:

1. Tap  -> **Basic**-> **Bluetooth**.
2. Tap the **On** radio box of the **Bluetooth** field.

The IP phone scans the available Bluetooth devices automatically and displays the Bluetooth device information (device name and MAC address).




Bluetooth mode is configurable via web user interface at the path **Features->Bluetooth**.

Pairing and Connecting the Bluetooth Headset


Before you pair a Bluetooth headset, check the indicator on the Bluetooth headset to make sure that the Bluetooth headset is discoverable. For more information, refer to the documentation from the Bluetooth headset manufacturer.

To pair and connect your Bluetooth headset to your IP phone:

1. Tap  -> **Basic**-> **Bluetooth**.
2. Activate the Bluetooth mode.
3. Tap the desired Bluetooth headset.

The Bluetooth headset is then automatically connected to your IP phone. The touch screen displays as below:



The Bluetooth icon  appears on the touch screen.




With the Bluetooth headset paired and connected, you can use the Bluetooth headset to place and answer calls. For more information, refer to the documentation from the Bluetooth headset manufacturer.

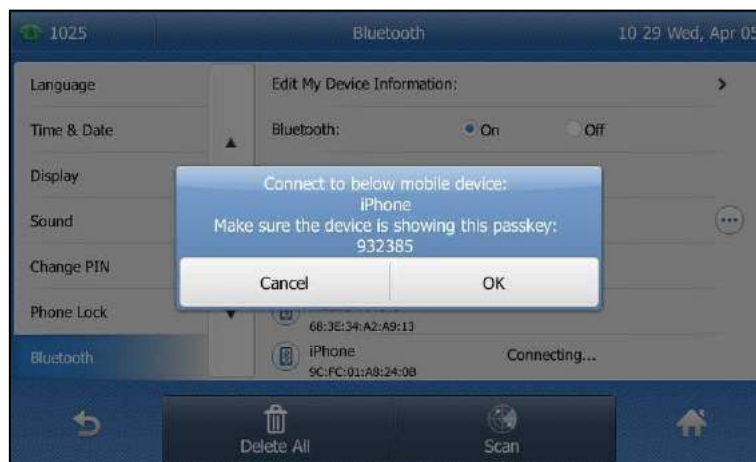
Pairing and Connecting the Bluetooth-Enabled Mobile Phone

Before you pair a Bluetooth-Enabled mobile phone, check the Bluetooth mode on the Bluetooth-Enabled mobile phone to make sure that the Bluetooth-Enabled mobile phone is discoverable.

To pair and connect the Bluetooth-Enabled mobile phone with your phone:

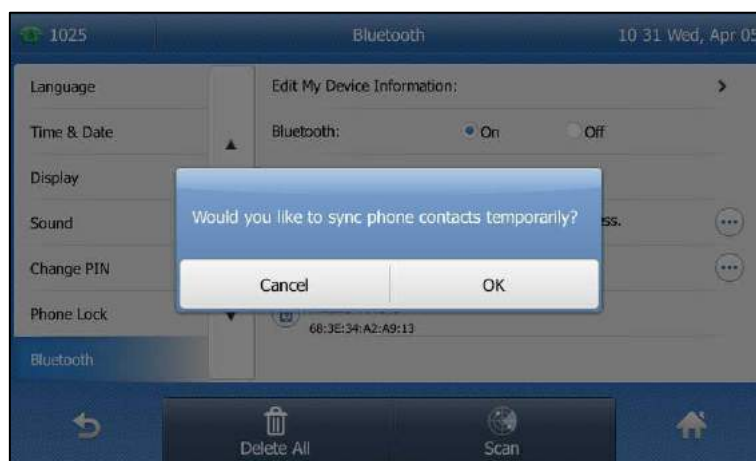
1. Tap  -> **Basic**-> **Bluetooth**.
2. Activate the Bluetooth mode.
3. Tap the desired Bluetooth-Enabled mobile phone.

The IP phone will prompt the connect passkey on the touch screen, as shown below:



4. Make sure your mobile phone is showing the same passkey, and then tap **OK** on both mobile phone and IP phone.

Then the IP phone will prompt "Would you like to sync phone contacts temporarily?".

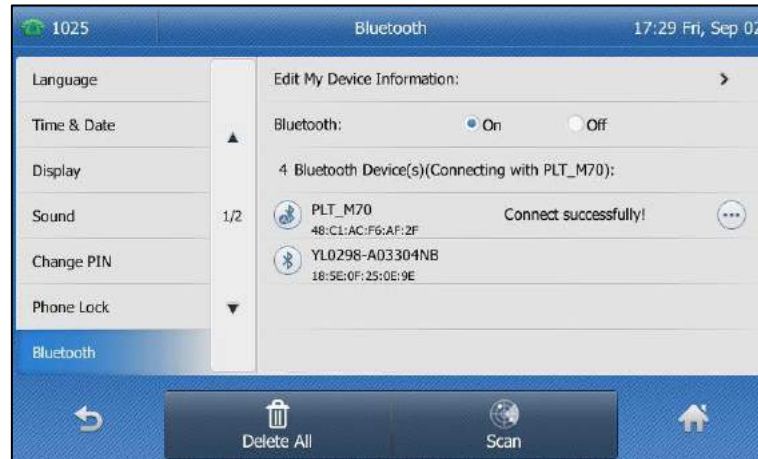


5. (Optional.) Tap **OK** to enable the mobile contacts sync feature and the IP phone will sync the mobile contacts temporarily, or tap **Cancel** to disable mobile contacts sync feature and the IP phone will not sync the mobile contacts. If you tap **Cancel**, you can also manually enable the mobile contacts sync feature on the IP phone. For more information, refer to

[Syncing the Mobile Contacts to the IP Phone](#) on page 106.

If you enable mobile contacts sync feature, you also need to authorize the IP phone to sync the contacts temporarily on the mobile phone.

Once the connection has completed successfully, the touch screen displays as below:





The Bluetooth icon  displays on the status bar.

Syncing the Mobile Contacts to the IP Phone

If you disable the mobile contacts sync feature when you pair and connect the Bluetooth-Enabled mobile phone to the IP phone (refer to [Pairing and Connecting the Bluetooth-Enabled Mobile Phone](#)), you need to enable the mobile contacts sync feature manually when you want to sync the mobile contacts to the IP phone.

Note Not all mobile phones support syncing the mobile contacts to IP phone. For more information, contact your system administrator.

To enable the mobile contacts sync feature manually:

1. Tap  -> **Basic**-> **Bluetooth**.
2. Tap  after the connected Bluetooth-Enabled mobile phone name.

3. Tap the **On** radio box in the **Mobile Contacts Sync** field.



You need to authorize the IP phone to sync the contacts temporarily on the mobile phone first, and then the mobile contacts directory will appear in the IP phone directory list.

To view your mobile contacts on the IP phone:

1. Tap  -> **Directory**-> **Mobile Contacts**.

The contacts in the mobile phone will display in the Mobile Contacts list.




For operating instructions on adding contact to local/blacklist directory from mobile contacts directory, update the mobile contacts directory or placing calls to and searching for contacts in the mobile contacts directory, refer to the operating instructions of [Mobile Contacts](#) on page 90.

Note

If the mobile phone disconnects from the IP phone while the IP phone is loading the mobile contacts, the LCD screen will prompt "Fail to download mobile contacts!", and the mobile contacts directory will not appear in the IP phone directory list.

Viewing the Bluetooth Device Information


To view the Bluetooth device information:

1. Tap  -> **Basic**-> **Bluetooth**.
2. You can view the Bluetooth device information from the **Bluetooth Device(s)** field.
 - **Device Name**: the name of the Bluetooth headset.
 - **MAC**: the MAC address of the Bluetooth headset.
 - **Connection**: the connection status of Bluetooth headset with your phone.



Editing Device Information

To edit device information via phone user interface:

1. Tap  -> **Basic**-> **Bluetooth**.
2. Tap the **Edit My Device Information** field.
The touch screen displays the device name and MAC address. The MAC address cannot be edited.
3. Enter the desired name in the **Device Name** field.

The default device name is "Yealink T48S".




4. Tap the **Save** soft key to accept the change or  to cancel.

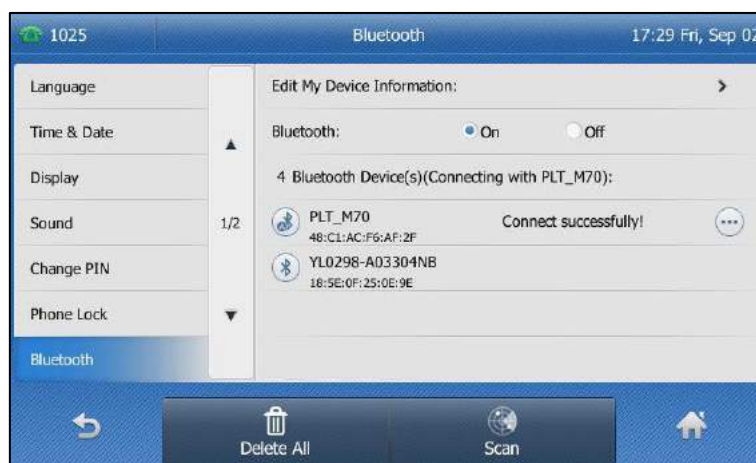
The preconfigured Bluetooth device name will display in scanning list of other devices.

Disconnecting the Bluetooth Device

You can disconnect the Bluetooth device from your phone. After you disconnect the Bluetooth device, it will still remain paired and be displayed in the **Bluetooth Device(s)** list. So you can easily connect it to your IP phone again.

To disconnect your Bluetooth device from your phone:

1. Tap  -> **Basic**-> **Bluetooth**.
2. Tap the connected Bluetooth device.





The Bluetooth device is disconnected. To connect it to your IP phone again, tap the Bluetooth device again.

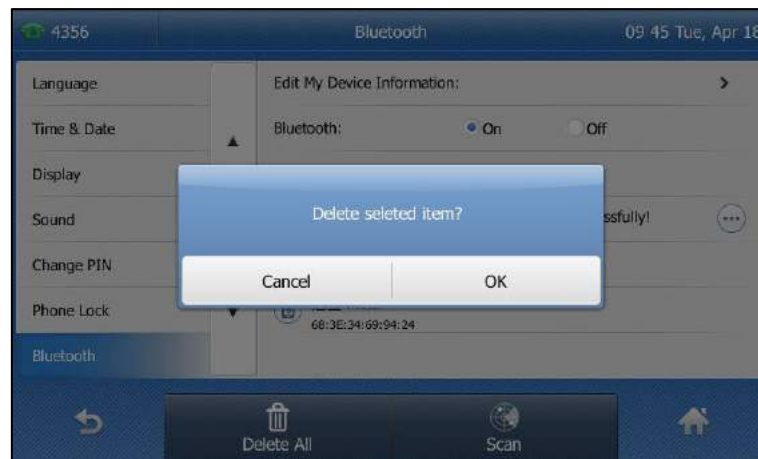
Deleting the Paired Bluetooth Device

You can delete your Bluetooth device from your phone. When you delete the Bluetooth device, it will disappear from the **Bluetooth Device(s)** list. To connect it to your IP phone again, you need to scan it first, and then connect it again.

To delete your Bluetooth device from your phone:

1. Tap  -> **Basic**-> **Bluetooth**.
2. Tap  after the Bluetooth device, and then select **Delete** from the prompt list.

The touch screen prompts the following warning "Delete selected item?".




3. Tap **OK** to confirm the deletion or **Cancel** to cancel.

You can also delete all devices by tapping the **Delete All** soft key.

Deactivating the Bluetooth Mode

To deactivate the Bluetooth mode via phone user interface:

1. Tap  -> **Basic**-> **Bluetooth**.
2. Tap the **Off** radio box of the **Bluetooth** field.



The Bluetooth device won't be connected anymore, but it will still be paired. When you activate the Bluetooth mode again, the paired Bluetooth device will appear in the **Bluetooth Device(s)** list.

Bluetooth mode is configurable via web user interface at the path **Features->Bluetooth**.

DSS Keys



There are three types of DSS keys: Line Keys, Programmable Keys and Ext Keys. Details will be

introduced in the following. The SIP-T48S IP phone supports 29 line keys and 13 programmable keys.

Line Keys

You can assign predefined functionalities to line keys. You can also define a label for a line key feature which will appear on the touch screen. Line keys allow you to quickly access features such as recall and voice mail. The line key can indicate the monitored status when the line keys are assigned with particular features, such as BLF. The default key type of line key 1-16 is Line. The default key type of line key 17-29 is N/A, which indicates that this line key provides no functionality until configuration.

To assign functionality to a line key via phone user interface:

1. Tap  -> **Features**->**DSS Keys**.
2. Tap the desired line key.
3. Select the desired key type from the **Type** field.
4. (Optional.) Select the desired key event type from the **Key Type** field.
5. (Optional.) Select the desired line from the **Account ID** field.
6. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.
7. (Optional.) Enter the corresponding value in the **Value** field.
8. (Optional.) Enter the corresponding value in the **Extension** field.
9. Tap the **Save** soft key to accept the change or  to cancel.

You can also tap **More** on the idle screen, and then tap or long tap the desired line key to assign functionality to it.

Line key is configurable via web user interface at the path **Dsskey**->**Line Key**.

Note

When the phone is idle, you can also long tap the line key to configure it directly on the phone.

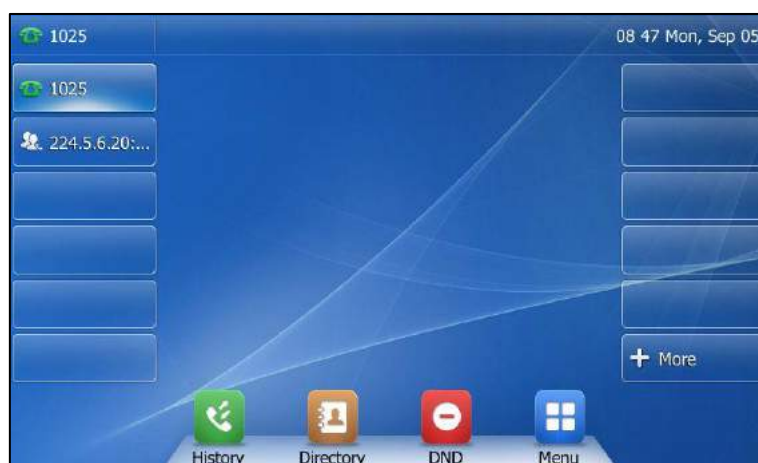
Label Length

You can specify labels for some key features, which will be displayed on the idle touch screen. If the length of the label exceeds the maximum display length, the phone will only display the first few characters. You can configure the phone to display more characters in two lines via label length feature.

The following figure shows an example of label display when the label length feature is set to Extended:



The following figure shows an example of label display when the label length feature is set to Default:



To configure the label length via web user interface:

1. Click on **Dsskey**->**Line Key**.

2. Select the desired value from the pull-down list of **Label Length**.

The screenshot shows the Yealink T48S web interface. The 'Dsskey' tab is selected. A 'Label Length' dropdown menu is highlighted, showing 'Extended' as the selected option. Below this is a table with 11 rows, each representing a line key. The columns are 'Key', 'Type', 'Value', 'Label', 'Line', and 'Extension'. The first row is 'Line Key1' with 'Line' type, '101' value, and 'Line 1' label. The other rows are 'Line Key2' through 'Line Key11', each with a 'Line' type and a corresponding line number label. At the bottom of the table are 'Confirm' and 'Cancel' buttons. On the right side, there is a 'NOTE' box titled 'Line Keys' which states: 'Line keys allow you to quickly access features such as recall and voice mail.'

3. Click **Confirm** to accept the change.

Note Label length feature is configurable via web user interface only.

Line Key Features

Line key features are explained in the following subchapters in detail:

- Line
- Speed Dial
- Voice Mail
- Direct Pickup
- Group Pickup
- DTMF
- Prefix
- Local Group
- XML Group
- XML Browser
- LDAP
- SMS
- Conference
- Forward
- Transfer
- Hold
- DND

- Group Listening
- Zero Touch
- URL
- Phone Lock
- Directory

For the features not listed above, refer to [Basic Call Features](#) on page 135 and [Advanced Phone Features](#) on page 185. For more information, contact your system administrator.

Line

You can use this key feature to accept incoming calls, place active calls on hold or resume a held call. It performs in the same way as a hard line key.

Dependencies: *Type (Line)*

Account ID *(the account this feature will be applied to)*

Label *(key label displayed on the touch screen)*

Usage: When the phone receives an incoming call,

1. Tap the **Line** key to accept the incoming call.
2. Tap the **Line** key to place a new call and the active call is placed on hold.
3. Tap the **Line** key again to resume the held call.

Speed Dial

You can use this key feature to speed up dialing the numbers frequently used or hard to remember.

Dependencies: *Type (SpeedDial)*

Account ID *(the account this feature will be applied to)*

Label *(key label displayed on the touch screen)*

Value *(the number you want to dial out)*

Usage: Tap the **Speed Dial** key to dial out the number specified in the **Value** field, using the account selected from the **Account ID** field.

Voice Mail

You can use this key feature to quickly connect voice mail. For more information, refer to [Voice Mail](#) on page 244.

Dependencies: Type (Key Event)**Key Type (Voice Mail)****Account ID** (the account this feature will be applied to)**Label** (key label displayed on the touch screen)**Value** (the voice mail access code)

Usage: Tap the **Voice Mail** key to dial out the voice mail access code. Then follow the voice prompt to listen to the voice mails.

Direct Pickup

You can use this key feature to answer someone else's incoming call on the phone.

Dependencies: Type (Key Event)**Key Type (Pick Up)****Account ID** (the account this feature will be applied to)**Label** (key label displayed on the touch screen)**Value** (the directed call pickup code followed by the target phone number)

Usage: Tap the **Direct Pickup** key on your phone when the target phone number receives an incoming call. The call is then answered on your phone.

Group Pickup

You can use this key feature to answer incoming calls in a group that is associated with their own group.

Dependencies: Type (Key Event)**Key Type (Group Pick Up)****Account ID** (the account this feature will be applied to)**Label** (key label displayed on the touch screen)**Value** (the group call pickup code)

Usage: Tap the **Group Pickup** key on your phone when a phone number in the group receives an incoming call. The call is answered on your phone.

DTMF

You can use this key feature to send the specification of arbitrary key sequences via DTMF.

Dependencies: Type (Key Event)**Key Type (DTMF)****Label** (key label displayed on the touch screen)**Value** (DTMF sequence)

Usage: Tap the **DTMF** key during an active call to send the key sequence specified in the **Value** field.

Note

DTMF sequence can only contain "0-9", "*", "#", and "A-E".

Prefix

You can use this key feature to add a specified prefix number before the dialing number.

Dependencies: *Type (Key Event)*

Key Type (Prefix)

Label (key label displayed on the touch screen)

Value (the prefix number)

Usage: Tap the **Prefix** key when the phone is idle, the phone will then enter the dialing screen and display the prefix number that you specified in the **Value** field. You can enter the remaining digits and then dial out.

Local Group

You can use this key feature to quickly access a contact group in the local directory. For more information, refer to [Local Directory](#) on page 70.

Dependencies: *Type (Key Event)*

Key Type (Local Group)

Local Group (the contact group name you want to access)

Label (key label displayed on the touch screen)

Usage: Tap the **Local Group** key to access the contact group specified in the **Local Group** field.

XML Group

You can use this key feature to quickly access a remote group in your remote phone book. You should configure a remote phone book in advance. For more information, refer to [Remote Phone Book](#) on page 92.

Dependencies: *Type (Key Event)*

Key Type (XML Group)

PhoneBook Name (the remote group name you want to access if the remote phone book is configured)

Label (key label displayed on the touch screen)

Usage: Tap the **XML Group** key to access the remote group specified in the **PhoneBook Name** field.

XML Browser

You can use this key feature to quickly access an XML browser. The XML browser allows you to create custom services which meet your functional requirements on the server. You can customize practical applications, such as weather report, stock information, Google search, etc.

Dependencies: *Type (Key Event)*

Key Type (XML Browser)

Label (key label displayed on the touch screen)

Value (the access URL for XML browser)

Usage: Tap the **XML Browser** key to access the XML browser specified in the **Value** field.

LDAP

You can use this key feature to quickly access a LDAP search screen.

Dependencies: *Type (Key Event)*

Key Type (LDAP)

Label (key label displayed on the touch screen)

Usage:

1. Tap the **LDAP** key to access the LDAP search screen.
2. Enter a few continuous characters of the contact name or continuous numbers of the contact number using the keypad.
The contacts whose name or phone number matches the characters entered will appear on the touch screen.

Note

LDAP is disabled by default. For more information, contact your system administrator.

SMS

You can use this key feature to quickly access text message. For more information, refer to [Short Message Service \(SMS\)](#) on page 240.

Dependencies: *Type (Key Event)*

Key Type (SMS)

Label (key label displayed on the touch screen)

Usage: Tap the **SMS** key when the phone is idle to access text message.

Conference

You can use this key feature to set up a conference call. For more information, refer to [Conference](#) on page 168.

Dependencies: *Type (Key Event)*

Key Type (Conference)

Label (key label displayed on the touch screen)

Value (the number you want to add to the conference)

Usage: Tap the **Conference** key during an active call to set up a conference with the number specified in the **Value** field.

Note

If the **Value** field is left blank, the **Conference** key performs the same as the **Conference** soft key during a call.

Forward

You can use this key feature to forward an incoming call to someone else. For more information, refer to [Call Forward](#) on page 155.

Dependencies: *Type (Key Event)*

Key Type (Forward)**Label** (key label displayed on the touch screen)**Value** (the number you want to forward to)

Usage: Tap the **Forward** key to forward an incoming call to the number specified in the **Value** field.

Note

If the **Value** field is left blank, the **Forward** key performs the same as **Forward** when receiving an incoming call.

Transfer

When there is an active call on the phone, you can use this key feature to handle the call differently depending on the transfer mode assigned to the DSS key.

Dependencies: *Type (Key Event)*

Key Type (Transfer)**Label** (key label displayed on the touch screen)**Value** (the number you want to transfer to)

Usage:

- When the transfer mode on DSS key is **Blind Transfer**, tap the **Transfer** key to complete the blind transfer to the number specified in the **Value** field.
- When the transfer mode on DSS key is **Attended Transfer**, tap the **Transfer** key to dial out the number specified in the **Value** field, and then perform the attended or semi-attended transfer.
- When the transfer mode on DSS key is **New Call**, tap the **Transfer** key to place a new call to the number specified in the **Value** field.

Note

Transfer mode via DSS key is configurable via web user interface at the path **Features->Transfer->Transfer Mode via Dsskey**.

If the **Value** field is left blank, the **Transfer** key performs the same as the **TRANSFER** key or the **Transfer** soft key during a call. For more information, refer to [Call Transfer](#) on page 165.

Hold

You can use this key feature to place an active call on hold or retrieve a held call.

Dependencies: *Type (Key Event)*

Key Type (Hold)**Label** (key label displayed on the touch screen)

Usage:

1. Tap the **Hold** key during an active call to place the call on hold.
2. Tap the **Hold** key again to retrieve the held call.

DND

You can use this key feature to activate or deactivate DND. You can also use this key feature to access the custom DND screen. For more information, refer to [Do Not Disturb \(DND\)](#) on page 150.

Dependencies: *Type (Key Event)*

Key Type (DND)

Label (key label displayed on the touch screen)

Usage:

When DND is in phone mode:

1. Tap the **DND** key to activate DND.
2. Tap the **DND** key again to deactivate DND.

When DND is in custom mode:

1. Tap the **DND** key to access the custom DND screen. You can activate or deactivate DND for one or all accounts.

Group Listening

You can use this key feature to activate the Speakerphone and Handset/Headset mode at the same time. It is suitable for group conversations which have more than one person at one side. You are able to speak and listen through the handset/headset, while the others nearby can only listen through the speaker.

Dependencies: *Type (Key Event)*

Key Type (Group Listening)

Label (key label displayed on the touch screen)

Usage:

1. During a call, tap the **Group Listening** key to activate the group listening mode.
You can then speak and listen through the handset/headset, while other people at your side can only listen through the speaker at the same time.
2. Tap the **Group Listening** key again to deactivate the group listening mode.

Zero Touch

You can use this key feature to quickly configure auto provision and network parameters.

Dependencies: *Type (Key Event)*

Key Type (Zero Touch)

Label (key label displayed on the touch screen)

Usage:

1. Tap the **Zero Touch** key to access the zero touch screen.
2. Tap the **OK** soft key within a few seconds.
3. Configure the network parameters in the corresponding fields.

4. Tap the **Next** soft key.
5. Configure the auto provision parameters in the corresponding fields.
6. Tap the **Next** soft key.

The phone will reboot to update configurations.

URL

You can use this key feature to trigger the phone to send an HTTP GET request containing a specific URL.


Dependencies: *Type (URL)*

Label (key label displayed on the touch screen)

URL (the URL contained in the HTTP GET request)

Usage: Tap the **URL** key to trigger the phone to send an HTTP GET request containing the URL specified in the **URL** field.


Phone Lock

You can use this key feature to immediately lock your phone instead of long pressing . For more information, refer to [Phone Lock](#) on page 60.

Dependencies: *Type (Key Event)*

Key Type (Phone Lock)

Label (key label displayed on the touch screen)

Usage: When the **Phone Lock** feature is enabled, tap the **Phone Lock** key to immediately lock your phone instead of long pressing .

Directory

You can use this key feature to easily access frequently used lists. For more information, refer to [Directory](#) on page 68.

Dependencies: *Type (Key Event)*

Key Type (Directory)

Label (key label displayed on the touch screen)

Usage: Tap the **Directory** key to immediately access frequently used lists.

Note

The **Directory** key performs the same function as the **Directory** soft key when the phone is idle.

Programmable Keys

You can customize the soft keys, navigation keys and function keys.

To customize programmable keys via web user interface:

1. Click on **Dsskey->Programmable Key**.

2. Customize specific features for these keys.

Key	Type	Line	Value	Label	Extension
SoftKey 1	History	Local History			
SoftKey 2	Directory	N/A			
SoftKey 3	DND	N/A			
SoftKey 4	Menu	N/A			
Up	History	Local History			
Down	Directory	N/A			
Left	Switch Account	N/A			
Right	Switch Account	N/A			
OK	Status	N/A			
Cancel	N/A	N/A			
HOLD	N/A	N/A			
MUTE	N/A	N/A			
TRAN	Forward	N/A			

NOTE
Programmable Keys
 Customizes the soft keys, navigation keys and function keys.

3. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.
 Label is configurable only when customizing SoftKey (1-4).
4. Click **Confirm** to accept the change.

Note

Programable keys are configurable via web user interface only.

The MUTE key cannot be customized when keep mute feature is enabled. For more information, contact your system administrator.

You can click **Reset To Default** to reset custom settings to defaults.

Then you can press the keys on the phone to perform the features you configured.

For example:

Switch Account Up

You can use this key feature to change the default account.

Dependencies: *Type (Switch Account Up)*

Usage: Press the **Switch Account Up** key to scroll up the account list to select the desired default account.

Switch Account Down

You can use this key feature to change the default account.


Dependencies: *Type (Switch Account Down)*

Usage: Press the **Switch Account Down** key to scroll down the account list to select the desired default account.

Ext Keys

If EXP40 is connected to the phone, you can customize features for ext keys.

To customize ext keys via phone user interface:

1. Long press the desired ext key on EXP40.
The IP phone LCD screen will enter the user setting interface of this key.
2. Customize the specific feature for this key on the IP phone.
3. Tap the **Save** soft key to accept the change or  to cancel.

Ext keys are configurable via web user interface at the path **Dsskey->Ext Key**.



For more information, refer to [Yealink EXP40 User Guide](#).

Account Management

You can register one or multiple accounts on the SIP-T48S IP phone. You can also configure each line key to associate with an account or configure multiple line keys to associate with an account.

Account Registration



To register an account via phone user interface:

1. Tap  -> **Advanced** (default password: admin) -> **Account**.
2. Tap the desired account.
3. Tap the gray box of the **Activation** field, and then select **Enabled** from the pull-down list.
4. Enter the desired value in the **Label**, **Display Name**, **Register Name**, **User Name**, **Password** and **SIP Server1/2** field respectively. Contact your system administrator for more information.
5. If you use the outbound proxy servers, do the following:
 - 1) Tap the gray box of the **Outbound Status** field, and then select **Enabled** from the pull-down list.
 - 2) Enter the desired value in the **Outbound Proxy1/2** and **Proxy Fallback Interval** field respectively. Contact your system administrator for more information.
6. Tap the **Save** soft key to accept the change or  to cancel.

You can repeat steps 2 to 6 to register more accounts.

The following figures demonstrate single or multiple accounts registered on the phone:

Single account:**Multiple accounts:****To disable an account via phone user interface:**

1. Tap  -> **Advanced** (default password: admin) -> **Account**.
2. Tap the desired account.
3. Tap the gray box of the **Activation** field, and then select **Disabled** from the pull-down list.
4. Tap the **Save** soft key to accept the change or  to cancel.

Account registration is configurable via web user interface at the path **Account->Register**.

Default Account**To configure the default account via phone user interface:**



1. Tap  -> **Features**-> **Default Account**.

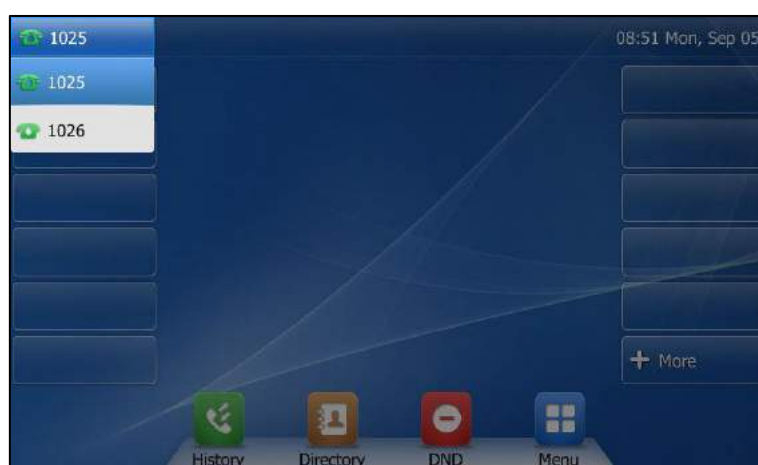
2. Tap the gray box of the **Default Account** field, and then select the desired account from the pull-down list.



3. Tap the **Save** soft key to accept the change or  to cancel.

The label of the default account is displayed on the left of the status bar. The IP phone will use this account by default when dialing out.

You can tap the label of the default account, and then tap the desired account to be the new default account. You can also press  or  to select the desired account as the default account.



Multiple Line Keys per Account

You can configure multiple line keys to associate with an account. This enhances call visualization and simplifies call handling.



If this is the case, the touch screen will resemble the following figure:



Incoming calls to this account will be distributed evenly among the available line keys. Outgoing calls will be distributed similarly.

Your phone can be configured to have a combination of accounts with a single line key and accounts with multiple line keys.

Dial Plan

Dial plan is a string of characters that governs the way your SIP-T48S IP phone processes the inputs received from your phone keypad.

The SIP-T48S IP phone supports the following dial plan features:

- [Replace Rule](#)
- [Dial Now](#)

- [Area Code](#)
- [Block Out](#)

The basic expression syntax you need to know:

.	The dot "." can be used as a placeholder or multiple placeholders for any character. Example: "12." would match "123", "1234", "12345", "12abc", etc.
x	An "x" can be used as a placeholder for any character. Example: "12x" would match "121", "122", "123", "12a", etc.
-	Numeric ranges are allowed within the brackets: Digit "-" Digit. Example: "[5-7]" would match the number "5", "6" or "7".
[]	The square brackets "[]" can be used as a placeholder for a single character which matches any of a set of characters. Example: "91[5-7]1234" would match "9151234", "9161234", "9171234".
()	The parentheses "()" can be used to group together patterns, for instance, to logically combine two or more patterns. Example: "([1-9])([2-7])3" would match "923", "153", "773", etc.
\$	The "\$" should be followed by the sequence number of a parenthesis. The "\$" plus the sequence number means the whole character or characters placed in the parenthesis. The number directs to the right parenthesis when there are more than one. Example: A replace rule configuration, Prefix: "001(xxx)45(xx)", Replace: "9001\$145\$2". When you dial out "0012354599" on your phone, the IP phone will replace the number with "9001 2354599 ". "\$1" means 3 digits in the first parenthesis, that is, "235". "\$2" means 2 digits in the second parenthesis, that is, "99".

Note

The IP phone supports a new dial plan mechanism – digit map. Digit maps are defined by a single string or a list of strings. If a number you dial matches any string of a digit map, the call is automatically placed.

Note that if digit map feature is enabled, the old dial plan rules (described in this chapter) will be ignored. For more information, contact your system administrator.

Replace Rule

You can configure one or more replace rules (up to 100) to remove the specified string and replace it with another string. You can configure a pattern with wildcards (refer to the expression syntax in the table above), so that any string that matches the pattern will be replaced. This feature is convenient for you to dial out a long number. For example, a replace rule is configured as "prefix: 1" and "replace: 1234", when you try to dial out the number "1234", you just need to enter "1" on the phone and then tap **Send**.

To add a replace rule via web user interface:

1. Click on **Settings->Dial Plan->Replace Rule**.

2. Enter the string (e.g., 1) in the **Prefix** field.
3. Enter the string (e.g., 1234) in the **Replace** field.
4. Enter the desired line ID in the **Account** field or leave it blank.

Yealink T48S Log Out English(English)

Status Account Network Dsskey Features **Settings** Directory Security

Preference
Time & Date
Call Display
Upgrade
Auto Provision
Configuration
Dial Plan
Voice
Ring
Tones
Softkey Layout
TR069
Voice Monitoring

Replace Rule Dial Now Area Code Block Out

Index	Prefix	Replace	Account	
1				<input type="checkbox"/>
2				<input type="checkbox"/>
3				<input type="checkbox"/>
4				<input type="checkbox"/>
5				<input type="checkbox"/>
6				<input type="checkbox"/>
7				<input type="checkbox"/>
8				<input type="checkbox"/>
9				<input type="checkbox"/>
10				<input type="checkbox"/>

Prefix: 1 Replace: 1234 Account:

Add Edit Del

NOTE

Replace Rule: An alternative string that replaces the entered numbers.
Dial now: Automatically dial out the entered numbers.
Area Code: Automatically add the area code before the numbers when dialing.
Block Out: prevents users from dialing out specific numbers.

*, "": represents any string.
 *, x: represents any character.
 #, #: match a range of characters within the brackets.
 #, #: separator within the brackets.
 #, #: a character matches any of character sets.
 #, #: combines two or more patterns.
 \$: followed by the sequence number of a parenthesis means the characters placed in the parenthesis.

5. Click **Add** to add the replace rule.

When you enter the number "1" using the keypad and then tap **Send**, the phone will dial out "1234" instead.

Note

The valid values for the **Account** field can be one or more digits among 1-16. Every two digits must be separated by a comma. For example, when you enter the value "1, 2" in the **Account** field, this replace rule will apply to account 1 and account 2.

If you leave the **Account** field blank or enter 0, the replace rule will apply to all accounts.

To edit a replace rule via web user interface:

1. Click on **Settings->Dial Plan->Replace Rule**.
2. Select the desired replace rule by checking the checkbox.
3. Edit the values in the **Prefix** and **Replace** fields.
4. Enter the desired line ID in the **Account** field or leave it blank.
5. Click **Edit** to accept the change.

To delete one or more replace rules via web user interface:

1. Click on **Settings->Dial Plan->Replace Rule**.
2. Select one or more replace rules by checking the checkbox(es).
3. Click **Del** to delete the replace rule(s).

Dial Now

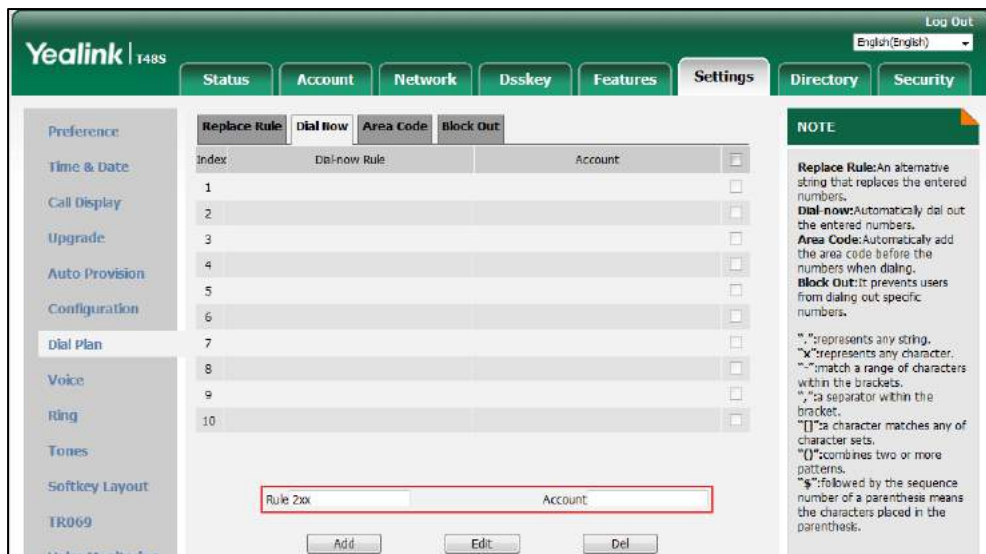
You can configure one or more dial now rules (up to 100) on your phone. When the dialed

number matches the dial now string, the number will be dialed out automatically. For example, a dial now rule is configured as "2xx", any entered three-digit string beginning with 2 will then be dialed out automatically on the phone.

To add a dial now rule via web user interface:

1. Click on **Settings->Dial Plan->Dial Now**.
2. Enter the desired value (e.g., 2xx) in the **Rule** field.
3. Enter the desired line ID in the **Account** field or leave it blank.

For more information on the valid values for the **Account** field, refer to [Replace Rule](#) on page 126.



4. Click **Add** to add the dial now rule.

When you enter the number "234" using the keypad, the phone will dial out "234" automatically without the pressing of any key.

Note

You can also edit or delete the dial now rule, refer to [Replace Rule](#) on page 126 for more information.

Time Out for Dial Now Rule

You can configure the delay time for dial now rules. That is, you can configure your phone to automatically dial out the phone number which matches a dial now rule, after the designated delay time.

To configure the delay time for dial now rule via web user interface:

1. Click on **Features->General Information**.
2. Enter the time between 0 and 14 (seconds) in the **Time Out for Dial Now Rule** field.

The default value is "1".

The screenshot shows the Yealink T48S web interface. The 'Features' tab is selected. On the left, a sidebar lists various features: Forward&DND, General Information, Audio, Intercom, Transfer, Call Pickup, Remote Control, Phone Lock, ACD, SMS, Action URL, Bluetooth, Power LED, and Notification Popups. The 'General Information' section is expanded, showing a list of settings. The 'Time Out for Dial Now Rule' is highlighted with a red box and has a value of '1'. Other settings include Call Waiting (Enabled), Call Waiting On Code, Call Waiting Off Code, Auto Redial (Disabled), Auto Redial Interval (1~300s) set to 10, Auto Redial Times (1~300) set to 10, Key As Send set to #, Reserve # in User Name (Enabled), Hotline Number, Hotline Delay (0~10s) set to 4, Busy Tone Delay (Seconds) set to 0, Return Code When Refuse set to 486 (Busy Here), Return Code When DND set to 480 (Temporarily Unavailable), Call Completion (Disabled), Feature Key Synchronization (Disabled), and RFC 2543 Hold (Disabled). On the right, a 'NOTE' section provides explanations for Call Waiting, Auto Redial, Key As Send, Hotline, and Call Completion.

3. Click **Confirm** to accept the change.

Note

Time out for dial now rule is configurable via web user interface only.

Area Code

Area codes are also known as Numbering Plan Areas (NPAs). They usually indicate geographical areas in a country. This feature is necessary when dialing a phone number outside the code area. For example, an area code is configured as "Code: 0592, Min Length: 1, Max Length: 15". When you dial out the number "56789" (the length of the number is between 1 and 15), the phone will add the area code and dial out the number "059256789". You can only configure one area code rule on your phone.

To configure the area code via web user interface:

1. Click on **Settings->Dial Plan->Area Code**.
2. Enter the desired values in the **Code**, **Min Length (1-15)** and **Max Length (1-15)** fields.
3. Enter the desired line ID in the **Account** field or leave it blank.

For more information on the valid values for the **Account** field, refer to [Replace Rule](#) on page 126.

The screenshot shows the 'Block Out' configuration page in the Yealink T48S web interface. The 'Code' field is set to 0592, 'Min Length (1-15)' is 1, and 'Max Length (1-15)' is 15. The 'Account' field is empty. A red box highlights the 'Code', 'Min Length', and 'Max Length' fields. The 'Confirm' and 'Cancel' buttons are visible at the bottom.

- Click **Confirm** to accept the change.

Note The default value of minimum and maximum length is 1 and 15 respectively.

Block Out

You can block some specific numbers (up to 10) from being dialed on your phone. When you dial a block out number on your phone, the dialing will fail and the touch screen will prompt "Forbidden Number".

To add a block out number via web user interface:

- Click on **Settings->Dial Plan->Block Out**.
- Enter the desired value in the **BlockOut NumberX** field.
- Enter the desired line ID in the **Account** field or leave it blank.

For more information on the valid values for the **Account** field, refer to [Replace Rule](#) on page 126.

The screenshot shows the 'Block Out' configuration page in the Yealink T48S web interface. The 'BlockOut Number1' field is set to 1000, and the 'Account' field is empty. The 'Confirm' and 'Cancel' buttons are visible at the bottom.

- Click **Confirm** to add the block out number.

Note Block out number is configurable via web user interface only.

Emergency Number

Public telephone networks in countries around the world have a single emergency telephone number (emergency services number), that allows a caller to contact local emergency services for assistance when necessary. The emergency telephone number may differ from country to country. It is typically a three-digit number so that it can be easily remembered and dialed quickly. Some countries have a different emergency number for each of the different emergency services.

You can specify the emergency telephone numbers on the IP phone for contacting the emergency services in an emergency situation. You can dial these numbers when the phone is locked. For more information on phone lock, refer to [Phone Lock](#) on page 60.

Note

Contact your local phone service provider for available emergency numbers in your area.

The IP phone also supports the emergency dialplan, which allows users to make emergency calls if the phone is locked or unregistered. For more information, contact your system administrator.

To specify emergency numbers via web user interface:

1. Click on **Features**->**Phone Lock**.
2. Enter the emergency number in the **Emergency** field.

For multiple emergency numbers, enter a comma between every two numbers. The default emergency numbers are 112, 911 and 110.

The screenshot shows the Yealink 148S web interface. The 'Features' tab is selected, and the 'Phone Lock' sub-tab is active. The 'Emergency' field is highlighted with a red border and contains the text '112,911,110'. Below the field are 'Confirm' and 'Cancel' buttons. To the right, a 'NOTE' box titled 'Phone Lock' explains its function: 'It is used to lock the IP phone to prevent it from unauthorized use. Once the IP phone is locked, a user must enter the password to unlock it.' It also mentions that IP phones offer three types of phone locks: Menu Key, Function Keys and All Keys, and that the phone will not be locked immediately after the phone lock type is configured. A link to 'more guides' is provided at the bottom of the note.

3. Click **Confirm** to accept the change.

Note

Emergency number is configurable via web user interface only.

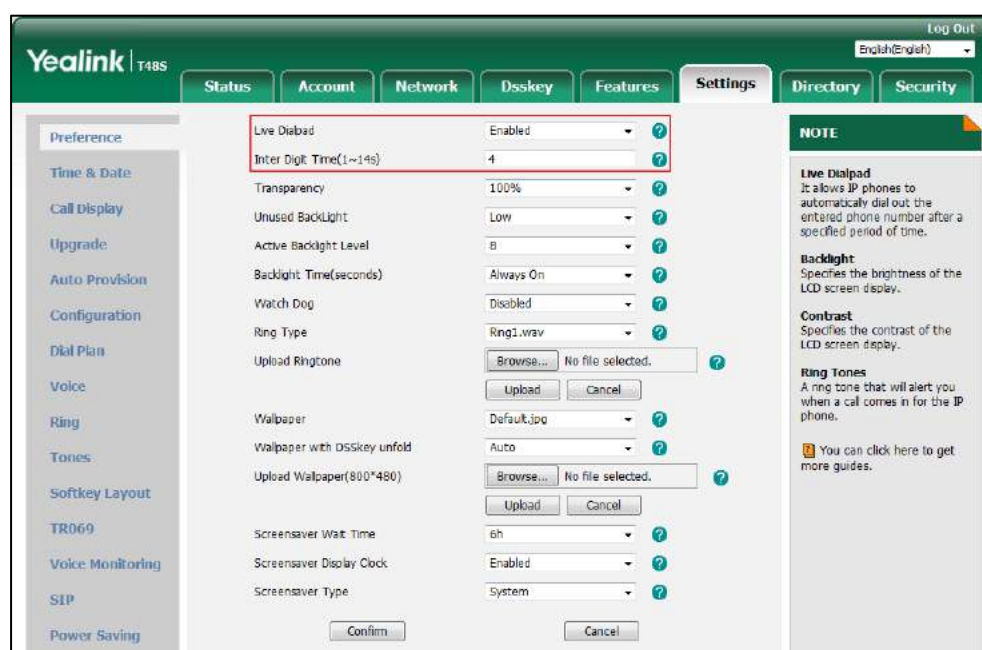
Live Dialpad

You can enable live dialpad feature on the SIP-T48S IP phone, which enables the IP phone to automatically dial out a phone number without pressing the send key. You can also configure a delay, and then the phone will dial out the phone number automatically after the designated period of time.

To enable the live dialpad via web user interface:

1. Click on **Settings->Preference**.
2. Select **Enabled** from the pull-down list of **Live Dialpad**.
3. Enter the desired delay time in the **Inter Digit Time(1~14s)** field.

The default delay time is 4.




4. Click **Confirm** to accept the change.

Note Live dialpad is configurable via web user interface only.

Hotline

You can dial a hotline number immediately upon lifting the handset, pressing the Speakerphone key or tapping the line key. You can also configure a delay, and then the phone will dial out the hotline number automatically after a designated period of time.

To configure the hotline number via phone user interface:

1. Tap  -> **Features->Hot Line**.
2. Enter the desired number in the **Hotline Number** field.

3. Enter the desired delay time in the **Hotline Delay** field.

The valid values range from 0 to 10 (seconds) and the default value is 4.

The screenshot shows a mobile phone interface for configuring a 'Hot Line'. The top status bar displays '1025', 'Hot Line', and '08:54 Mon, Sep 05'. A left-hand menu lists several settings: 'General', 'Hot Line' (which is highlighted), 'Default Account', 'Auto Redial', 'Call Completion', 'Paging List', and 'Diagnostics'. The 'Hot Line' section is active, showing two configuration fields. The first field, '1. Hotline Number:', contains the text '2300'. The second field, '2. Hotline Delay:', contains the text '4'. Below the menu, there is a small '2/2' indicator. At the very bottom of the screen, there is a row of four buttons: a back arrow icon, a button labeled '123 IME', a button labeled 'Delete' with a small 'x' icon, and a button labeled 'Save' with a floppy disk icon.

4. Tap the **Save** soft key to accept the change or  to cancel.

Hotline is configurable via web user interface at the path **Features->General Information**.

Basic Call Features

The SIP-T48S IP phone is designed to be easily used like a regular phone on a public switched telephone network (PSTN). You can place calls, answer calls, transfer a call to someone else, or conduct a conference call.

This chapter provides basic operating instructions for the SIP-T48S IP phone. Topics include:

- [Placing Calls](#)
- [Answering Calls](#)
- [Ending Calls](#)
- [Redialing Numbers](#)
- [Recent Call In Dialing](#)
- [Auto Redial](#)
- [Call Completion](#)
- [Recall](#)
- [Call Mute](#)
- [Call Hold/Resume](#)
- [Do Not Disturb \(DND\)](#)
- [Call Forward](#)
- [Call Transfer](#)
- [Call Waiting](#)
- [Conference](#)
- [Call Park/Retrieve](#)
- [Call Pickup](#)
- [Anonymous Call](#)
- [Anonymous Call Rejection](#)

If you require additional information or assistance with your new phone, contact your system administrator.

Placing Calls

You can place a call in one of three ways using your SIP-T48S IP phone:

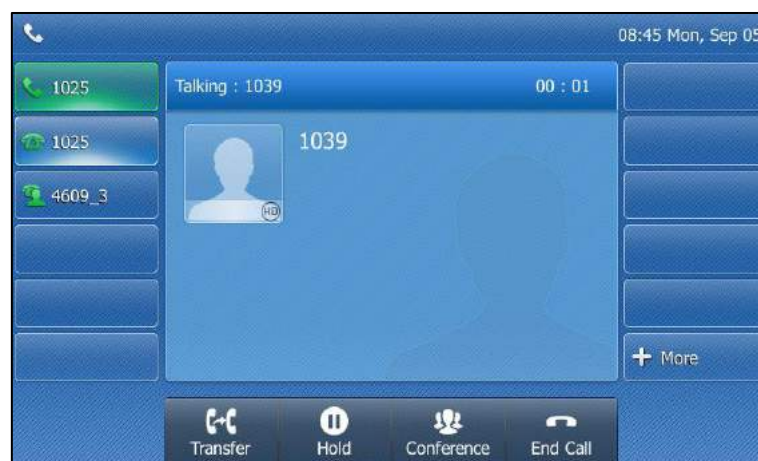
- Using the handset
- Using the speakerphone
- Using the headset

You can also dial the number first, and then choose the way you want to speak to the other party.

You can also dial an entry/contact from local directory, remote phone book or call history. For more information, refer to [Contact Management](#) on page 68 and [Call History Management](#) on page 94.

During a call, you can alternate between Speakerphone, Headset, and Handset modes by pressing the Speakerphone key, the HEADSET key, or by picking up the handset.

The call duration of the call and far-site's information (name or phone number) are visible on the touch screen. In the figure below, the call to "1039" (the phone number: 1039) has lasted 1 second.



To place a call using the handset:

1. Pick up the handset.
2. Enter the desired number using the phone keypad.

You can also enter the number using the on-screen keypad.



3. Press , , or tap **Send**.

The # key is configured as a send key by default. You can also set the * key as the send key, or set neither. For more information, refer to the [Key As Send](#) on page 59.

You can also tap the **History** soft key or the **Directory** soft key to search for an entry or contact after picking up the handset, and then tap the desired entry or contact to place a call.







Note

You can also dial using the SIP URI or IP address. To obtain the IP address of a phone, press the **OK** key when the phone is idle. The maximum SIP URI or IP address length is 32 characters. For example, SIP URI: 3606@sip.com, IP: 192.168.1.15 or 192*168*1*15.

Your phone may not support direct IP dialing. Contact your system administrator for more information.

To place a call using the hands-free (speakerphone) mode:




Do one of the following:

- With the handset on-hook, press  or tap the line key to obtain a dial tone.
Enter the desired number.
Press , , or tap **Send**.
- With the handset on-hook, enter the desired number.
Press , , , or tap **Send**.

To place a call using the headset:

Do one of the following:

- With the optional headset connected, press  to activate the headset mode.
Tap the line key to obtain a dial tone.
Enter the desired number.
Press , , or tap **Send**.

- With the optional headset connected, press  to activate the headset mode.
Enter the desired number.
Press , , or tap **Send**.






Note

To permanently use the headset mode, refer to [Headset Use](#) on page 100.

The SIP-T48S IP phone can handle multiple calls at a time. However, only one active call (the call that has audio associated with it) can be in progress at any time. The SIP-T48S IP phone can handle a maximum of 50 calls at one time.

To place multiple calls:

You can have more than one call on your SIP-T48S IP phone. To place a new call during an active call, do one of the following:

- Tap the line key. The active call is placed on hold.
Enter the desired number.
Press , , or tap **Send**.
- Press  or tap the **Hold** soft key to place the original call on hold.
Tap the **New Call** soft key.
Enter the desired number.
Press , , or tap **Send**.

You can tap the desired call, and then tap the **Resume** soft key to retrieve it.

Note

If multiple accounts are registered on the phone, you can first tap the desired line key on the idle screen or tap the desired line from the status bar on the dialing screen, and then you can use the selected account to place a call.

Answering Calls

When you are not in another call, you can answer a call in one of three ways:

- Using the handset
- Using the speakerphone
- Using the headset

Note

You can reject incoming calls by pressing the **X** key or tapping the **Reject** soft key to stop the phone from playing ring tone. You can also activate the Do Not Disturb mode to reject the incoming calls without ringing on your phone. For more information, refer to [Do Not Disturb \(DND\)](#) on page 150.

You can forward incoming calls to someone else by tapping the **Forward** soft key. For more information, refer to [Call Forward](#) on page 155.

Answering When Not in Another Call


Call duration and destination will always appear on the touch screen for the active call.

To answer a call using the handset:

1. Pick up the handset.


To answer a call using the hands-free (speakerphone) mode:

Do one of the following:

- Press  .
- With the handset on-hook and the headset mode deactivated, tap the **Answer** soft key.
- With the handset on-hook and the headset mode deactivated, tap the line key with the illuminating solid green icon indicator.

To answer a call using the headset:

Do one of the following:

- Press  .
- With the headset mode activated, tap the **Answer** soft key.
- With the headset mode activated, tap the line key with the illuminating solid green icon indicator.

Answering When in Another Call

If you have an active call, and an incoming call arrives on the phone. The incoming call information is displayed on the touch screen.



1. Tap the **Answer** soft key.


The incoming call is answered and the original call is placed on hold.

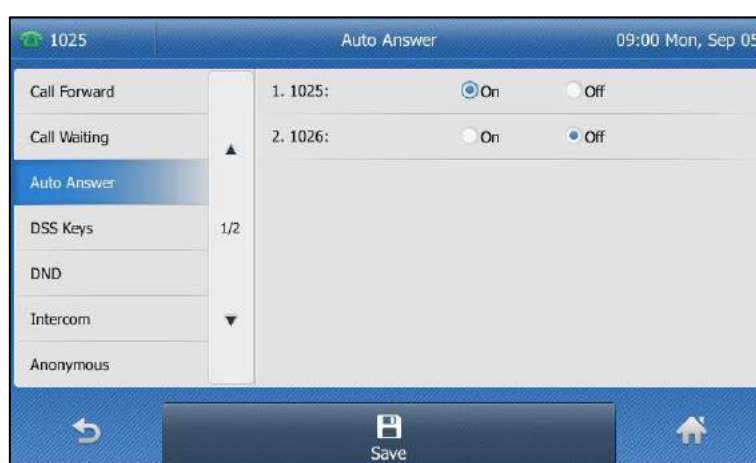
Auto Answer

You can use auto answer feature to automatically answer an incoming call using the speakerphone. Auto answer is configurable on a per-line basis.


You can choose to mute the local microphone when an incoming call is answered automatically.

To configure auto answer via phone user interface:

1. Tap  -> **Features**->**Auto Answer**.
2. Tap the **On** radio box of the desired registered line.



3. Tap the **Save** soft key to accept the change or  to cancel.

The icon  appears on the touch screen only when the auto answer feature is enabled for the default account.



Auto answer is configurable via web user interface at the path **Account->Basic**.





Note

Auto answer only takes effect when there is no other call in progress on the phone. If there is a call in progress, the second incoming call cannot be automatically answered after ending the current call by default. If you want to make the phone automatically answer the incoming call after ending all calls, contact your system administrator for more information.

Ending Calls

To end a call:

Do one of the following:


- If you are using the handset, press , the **End Call** soft key or hang up the handset.
- If you are using the headset, press  or the **End Call** soft key.
- If you are using the speakerphone, press ,  or the **End Call** soft key.

Note


To end a call placed on hold, you can tap the **End Call** soft key to end the call directly, or tap the **Resume** soft key to resume the call before ending it.

Redialing Numbers

To redial the last dialed number from your phone:

1. Press  twice.
A call to your last dialed number is attempted.

To redial a previously dialed number from your phone:

1. Press  when the phone is idle.
2. Tap the desired entry from the placed calls list.

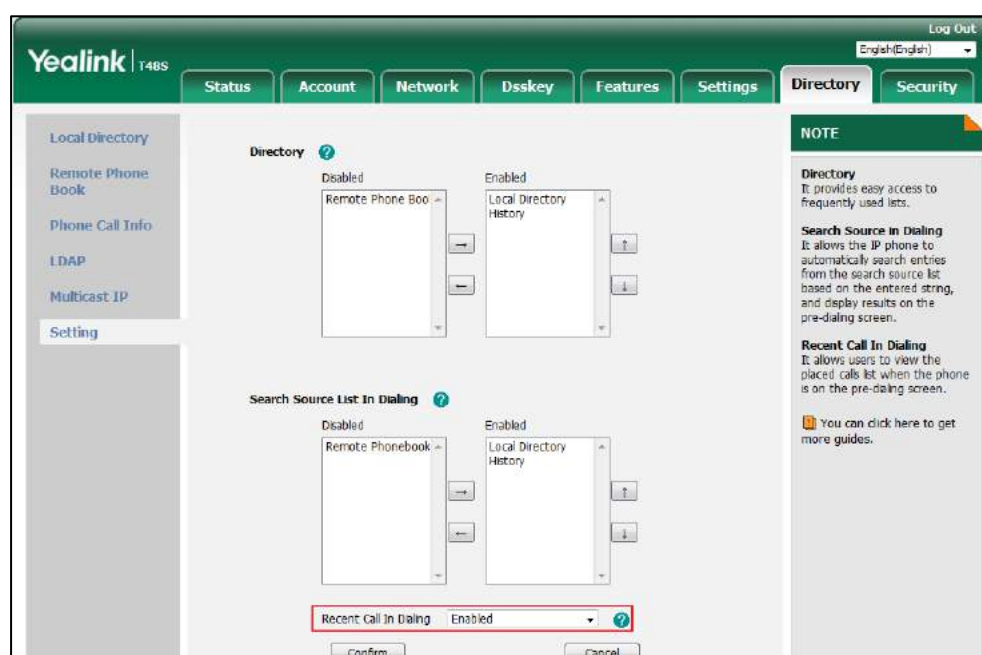
Recent Call In Dialing

To view the placed calls list when the phone is on the dialing interface, you should enable recent call in dialing in advance.

To enable recent call in dialing via web user interface:

1. Click on **Directory->Setting**.

2. Select **Enabled** from the pull-down list of **Recent Call In Dialing**.



3. Click **Confirm** to accept the change.

Note

Recent call in dialing is configurable via web user interface only.

To view placed calls list when the phone is on the dialing interface:

1. Pick up the handset, press the Speakerphone key or tap the line key.
The touch screen displays the placed calls list.



You can tap ▲ or ▼ to scroll through placed calls page by page.


You can also enter a few continuous characters of the contact name or continuous numbers of the contact number (office, mobile or other number) to search from placed calls list.



Auto Redial

You can enable auto redial to automatically redial a phone number when the called party is busy. You can also configure the number of auto redial attempts and the time to wait between redial attempts.

To configure auto redial via phone user interface:

1. Tap  -> **Features**->**Auto Redial**.
2. Tap the **On** radio box of the **Auto Redial** field.
3. Enter the desired time (in seconds) in the **Redial Interval** field.
The default value is 10.
4. Enter the desired number of redial attempts in the **Redial Times** field.
The default value is 10.



5. Tap the **Save** soft key to accept the change or  to cancel.

Auto redial is configurable via web user interface at the path **Features->General Information**.

To use auto redial:

When the called party is busy, the following prompt will appear on the touch screen of the phone:



1. Tap the **OK** soft key to activate auto redial.

The touch screen prompts the following:



2. Wait for the designated period of time or tap the **OK** soft key to redial the phone number.

The phone will retry as many times as configured until the called party is idle.

Call Completion

You can use call completion to notify the caller who failed to reach a desired party when the party becomes available to receive a call.

To enable call completion via phone user interface:

1. Tap  -> **Features->Call Completion**.

2. Tap the **On** radio box of the **Call Completion** field.

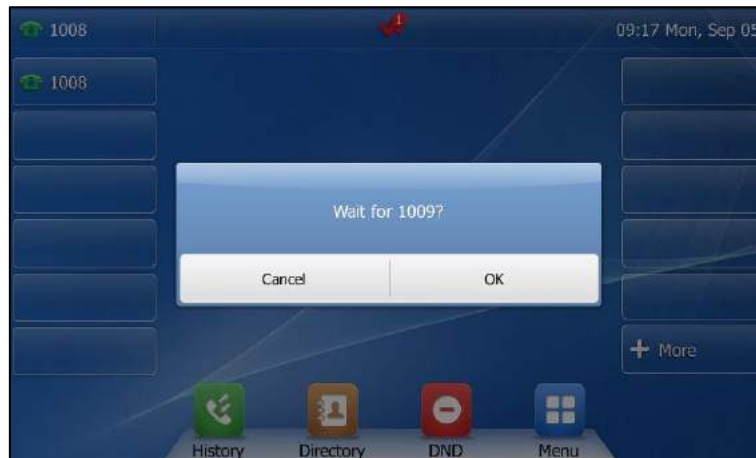


3. Tap the **Save** soft key to accept the change or  to cancel.

Call completion is configurable via web user interface at the path **Features->General Information**.

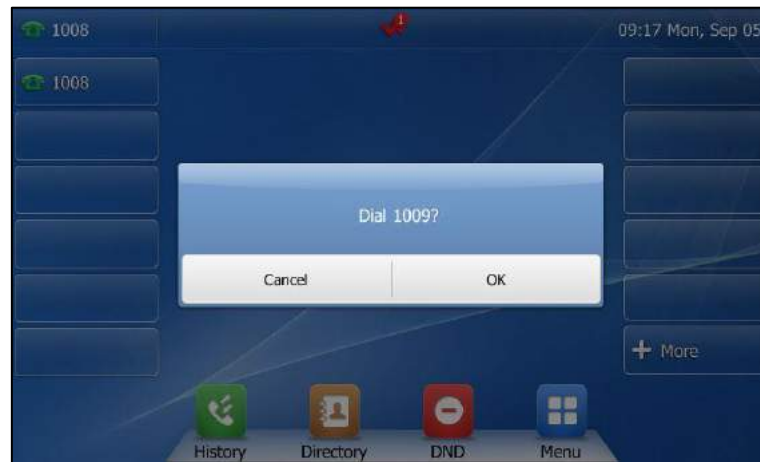
To use call completion:

When the called party is busy, the following prompt will appear on the touch screen of the phone:



1. Tap **OK**, the phone will then returns to the idle screen and call completion will be activated.

When the called party becomes idle, the following prompt will appear on the touch screen of the phone:




1. Tap **OK** to redial the number.

Note Call completion is not available on all servers. For more information, contact your system administrator.

Recall

You can tap a recall key to place a call back to the last incoming call.

To configure a recall key via phone user interface:

1. Tap  -> **Features**-> **DSS Keys**.
2. Tap the desired line key.
3. Tap the gray box of the **Type** field, and then select **Key Event** from the pull-down list.
4. Tap the gray box of the **Key Type** field, and then select **ReCall** from the pull-down list.

5. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.

6. Tap the **Save** soft key to accept the change or  to cancel.


Recall key is configurable via web user interface at the path **Dsskey->Line key**.

Call Mute

You can mute the microphone of the active audio device during an active call so that the other party cannot hear you. You can also mute the microphone while dialing so that the other party cannot hear you when the call is set up. It helps prevent the other party from hearing the informal discussion when auto answer is enabled on his/her phone.

Call mute applies to all modes (Handset, Headset and Speakerphone).

Keep Mute

Normally, the mute feature is deactivated when the active call ends. Keep mute feature enables you to make the mute state of your phone persist across calls. When keep mute is enabled and you press the MUTE key, the phone stays in the mute state until you un-mute the microphone or until the phone restarts. It helps prevent the other party from hearing the noise coming from your room when auto answer is enabled on your phone. When you mute the phone in an idle state or any other states, the mute key LED illuminates solid red and the icon  appears on the status bar.


Note

Keep mute should be pre-configured by your system administrator.

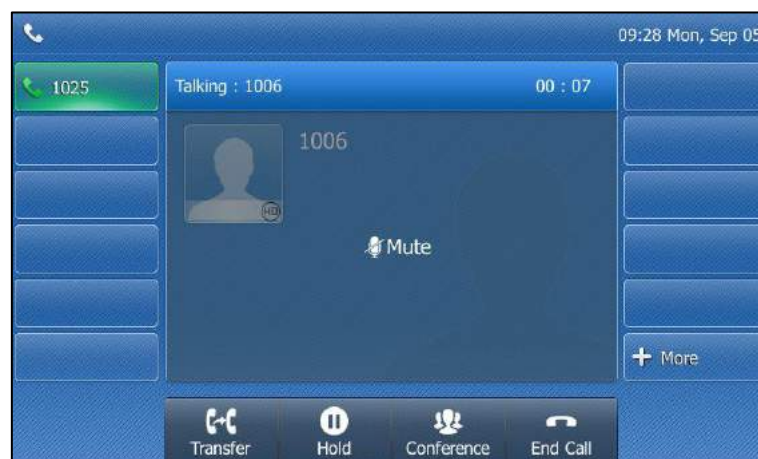


Muting a Call


To mute a call:

1. Press  during an active call.

The mute key LED illuminates solid red. The touch screen indicates that the call is now muted.




To un-mute a call:


1. Press  again to un-mute the call.
The mute key LED goes out.

Muting While Dialing

To mute the microphone while dialing:

1. Press  on the pre-dialing, dialing or calling screen.
The mute key LED illuminates solid red. The call is muted automatically when set up successfully.

To un-mute the microphone while dialing:

1. Press  again on the pre-dialing, dialing or calling screen.


Note

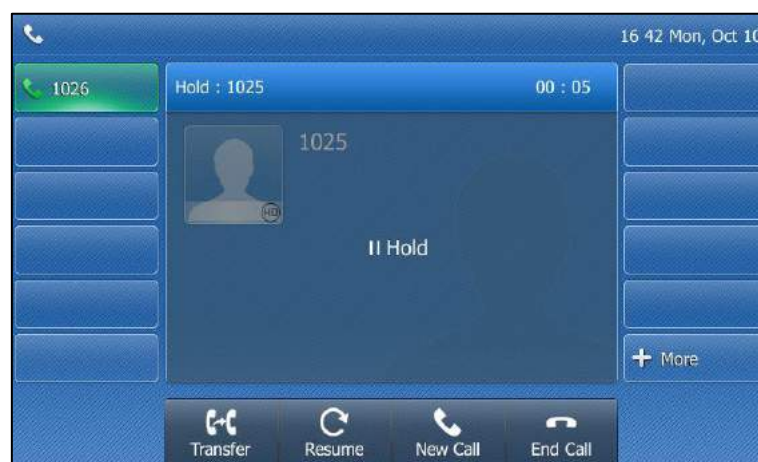
You can also mute the microphone when the IP phone is ringing.

Call Hold/Resume

You can place an active call on hold. Only one active call can be in progress at any time. Other calls can be made and received while placing the original call on hold. When you place a call on hold, your IP PBX may play music to the other party while waiting.


To place a call on hold:

1. Press  or tap the **Hold** soft key during a call.
The touch screen indicates that the call is on hold.

**Note**


The phone will beep softly every 30 seconds to remind you that you still have a call on hold. The phone ignores engaged audio device (handset or headset) and switches to Speakerphone to play the hold tone by default. The Speakerphone key will light up for 1 second.

To resume a held call:

1. Press  or tap the **Resume** soft key.

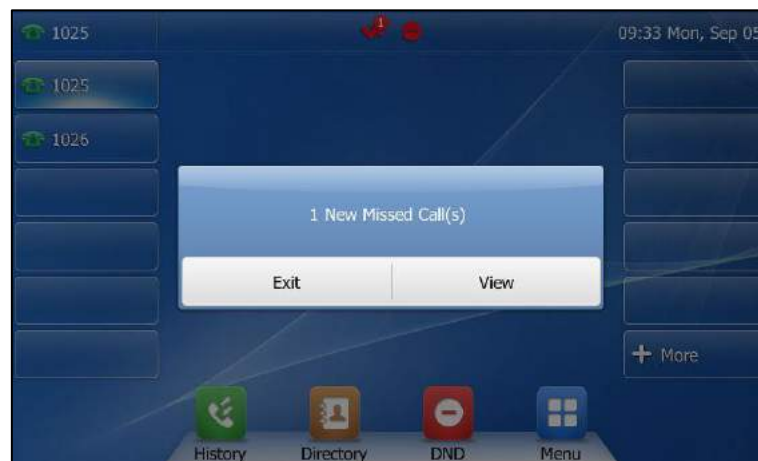
Multiple Calls on Hold:

If multiple calls are placed on hold, do one of the following:

- Tap the desired call, and then press  or tap the **Resume** soft key to retrieve it.
- Tap the desired call, and then tap the corresponding line key to retrieve it.

Do Not Disturb (DND)

You can use DND to reject incoming calls automatically on the phone. The prompt message “**n New Missed Call(s)**” (“n” indicates the number of missed calls, e.g., 1 New Missed Call(s)) will appear on the touch screen, and callers will receive a busy message. All calls you receive while DND is activated are logged to your missed calls list.



Note

The prompt message will display only if Missed Call Log for the line is enabled. Missed call log is configurable via web user interface at the path **Account->Basic**.

You cannot activate or deactivate DND when DND feature is disabled. Contact your system administrator for more information.

When DND feature is activated, the IP phone supports displaying a large DND icon on the idle screen. For more information, contact your system administrator.



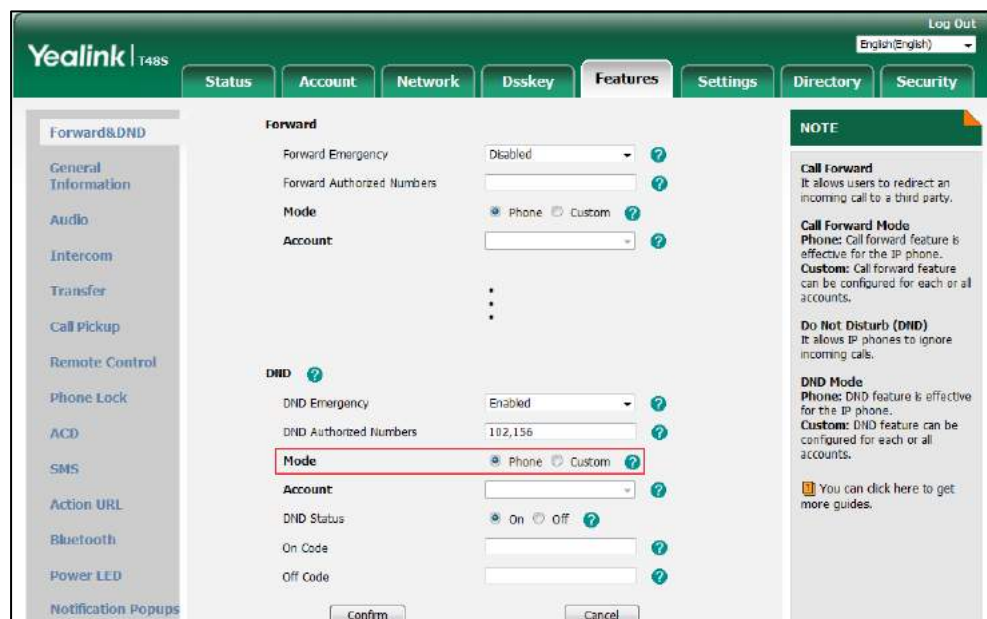
You can activate/deactivate DND for the phone system, or you can customize DND for each or all accounts.

There are two DND modes:

- **Phone** (default): DND is effective for the phone system.
- **Custom**: DND can be configured for each or all accounts.

To configure the DND mode via web user interface:

1. Click on **Features**->**Forward&DND**.
2. In the **DND** block, mark the desired radio box in the **Mode** field.



3. Click **Confirm** to accept the change.

Note

DND mode is configurable via web user interface only.

To activate DND in phone mode:


1. Tap  .
The icon  appears on the status bar.



Note

When DND and busy forward are activated in phone mode, calls will be sent to the configured destination number. For more information on busy forward, refer to [Call Forward](#) on page 155.

To activate DND in custom mode:

1. Tap  .
The touch screen displays a list of accounts registered on the phone.





2. Tap the desired account.
3. Tap the **On** radio box of the **DND Status** field.
4. (Optional.) Enter the DND on code or off code respectively in the **On Code** or **Off Code** field.


If the on code or off code is configured, the IP phone will send the corresponding code to activate or deactivate DND on the server. It is not available on all servers.

5. Tap the **Save** soft key to accept the change.



If you want to activate DND for all accounts, you can press the **All On** soft key.

If you activate DND for the default account, the associated line icon will change to  , and the icon  will appear on the status bar.



If you activate DND for the non-default account, only the associated line icon will change to  .



If you activate DND for all accounts, all line icons will change to  and the icon  will appear on the status bar.



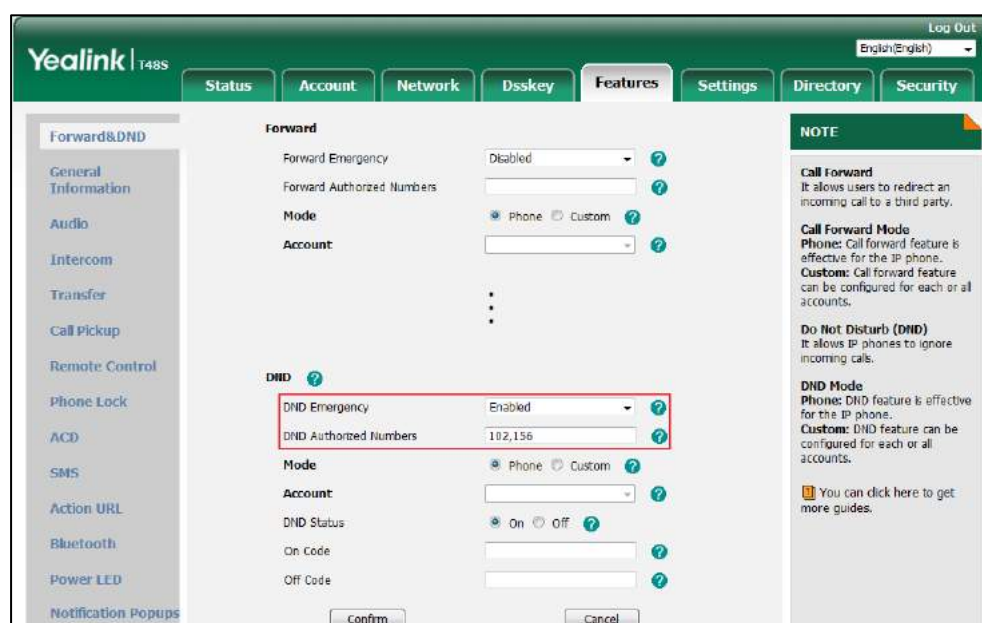
Note When DND and busy forward are activated for a specific account, calls from the specific account will be sent to the configured destination number. For more information on busy forward, refer to [Call Forward](#) on page 155.

You can receive incoming calls from authorized numbers when DND is activated.

To configure the DND authorized numbers via web user interface:

1. Click on **Features->Forward&DND**.
2. Select **Enabled** from the pull-down list of **DND Emergency**.
3. Enter the numbers in the **DND Authorized Numbers** field.

For multiple numbers, enter a comma between every two numbers.



4. Click **Confirm** to accept the change.

When DND is activated on the phone, the phone can still receive incoming calls from the numbers specified in the **DND Authorized Numbers** field.

Note

DND authorized number is configurable via web user interface only.

When the phone misses a call, a prompt window will pop up by default. If you want to disable the feature, contact your system administrator for more information.

To deactivate DND in phone mode:

1. Tap the **DND** soft key when the phone is idle.

To deactivate DND in custom mode:

1. Tap the **DND** soft key when the phone is idle.
2. Tap the desired account.
3. Tap the **Off** radio box of the **DND Status** field.
4. Tap the **Save** soft key to accept the change.

Call Forward

You can configure your phone to forward incoming calls to another party (static forwarding). You can also forward calls while your phone is ringing (dynamic forwarding).

Note

When the phone forwards a call, a prompt window will pop up by default. If you want to disable the feature, contact your system administrator for more information.

You cannot activate or deactivate call forward when call forward feature is disabled. Contact your system administrator for more information.

Static Forwarding

Three types of static forwarding are:

- **Always Forward:** Incoming calls are immediately forwarded.
- **Busy Forward:** Incoming calls are immediately forwarded if the phone is busy.
- **No Answer Forward:** Incoming calls are forwarded if not answered after a period of time.

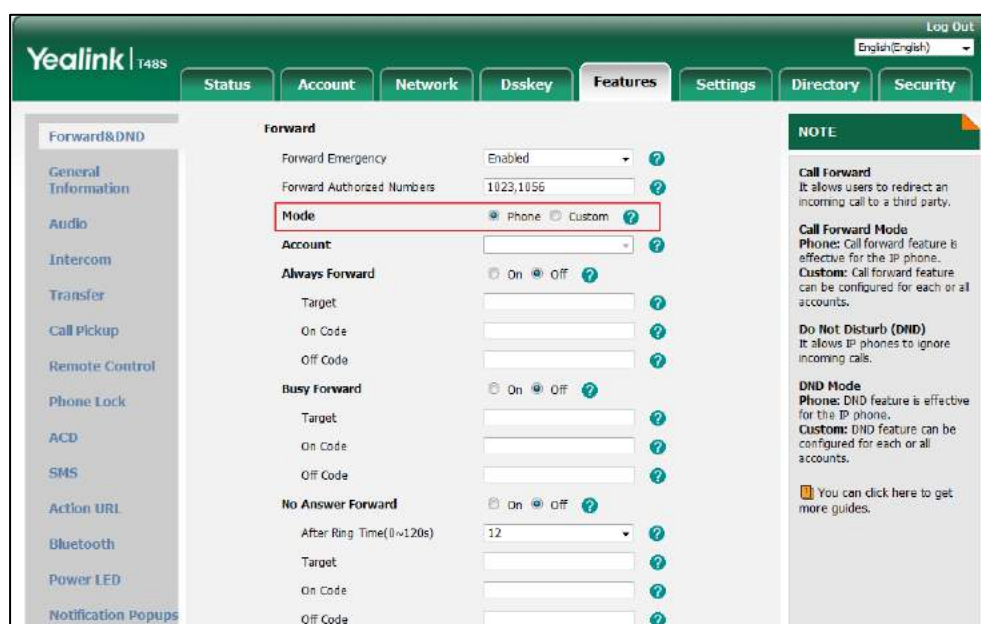
You can activate/deactivate call forward for the phone system, or you can customize call forward for each or all accounts.

There are two call forward modes:

- **Phone** (default): Call forward is effective for the phone system.
- **Custom:** Call forward can be configured for each or all accounts.

To configure the call forward mode via web user interface:

1. Click on **Features**->**Forward&DND**.
2. In the **Forward** block, mark the desired radio box in the **Mode** field.





3. Click **Confirm** to accept the change.

Note

Call forward mode is configurable via web user interface only.

To activate call forward in phone mode:

1. Tap  -> **Features**->**Call Forward** or press  when the phone is idle.
2. Tap the desired forwarding type.
3. Depending on your selection:
 - a) If you tap **Always Forward**:
 - 1) Tap the **On** radio box of the **Always Forward** field.
 - 2) Enter the destination number you want to forward all incoming calls to in the **Forward to** field.

- 3) (Optional.) Enter the always forward on code or off code respectively in the **On Code** or **Off Code** field.

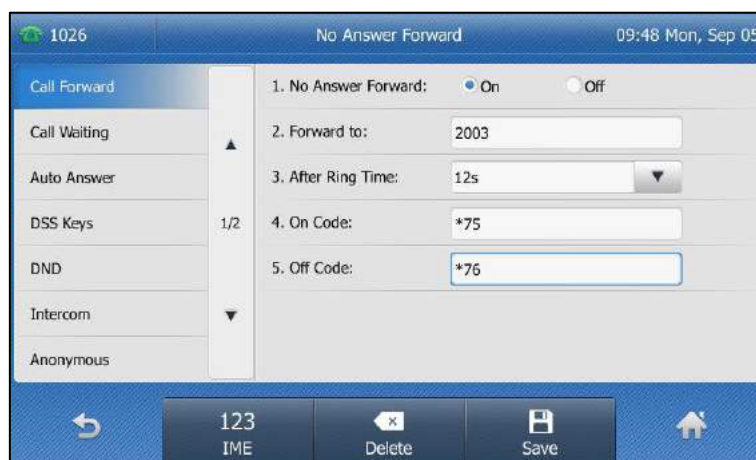
- b) If you tap **Busy Forward**:

- 1) Tap the **On** radio box of the **Busy Forward** field.
- 2) Enter the destination number you want to forward incoming calls to when the phone is busy in the **Forward to** field.
- 3) (Optional.) Enter the busy forward on code or off code respectively in the **On Code** or **Off Code** field.


- c) If you tap **No Answer Forward**:

- 1) Tap the **On** radio box of the **No Answer Forward** field.
- 2) Enter the destination number you want to forward unanswered incoming calls to in the **Forward to** field.
- 3) Tap the gray box of the **After Ring Time** field, and then select the desired ring time to wait before forwarding from the pull-down list.
The default ring time is 12.



- 4) (Optional.) Enter the no answer forward on code or off code respectively in the **On Code** or **Off Code** field.

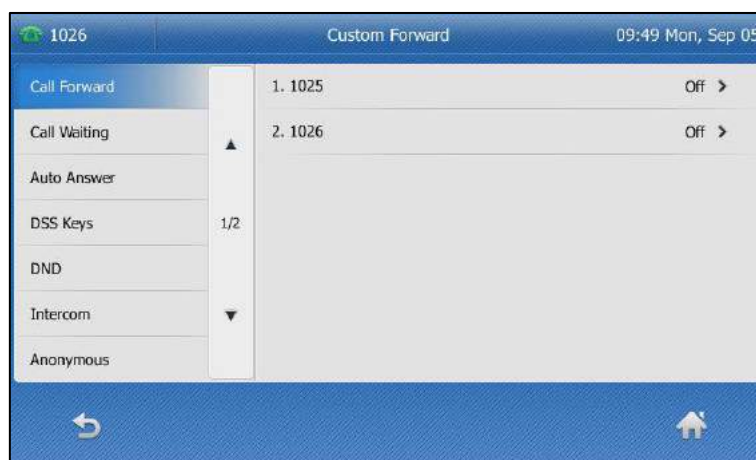


4. Tap the **Save** soft key to accept the change.

The icon  on the idle screen indicates that the call forward is activated.

To activate call forward in custom mode:

1. Tap  -> **Features**->**Call Forward** or press  when the phone is idle.
2. Tap the desired account.



3. Tap the desired forwarding type.
4. Depending on your selection:
 - a) If you tap **Always Forward**:
 - 1) Tap the **On** radio box of the **Always Forward** field.
 - 2) Enter the destination number you want to forward all incoming calls to in the **Forward to** field.

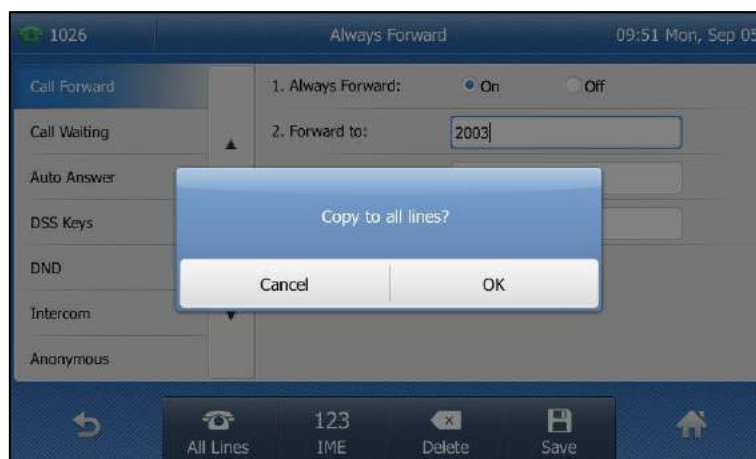
- 3) (Optional.) Enter the always forward on code or off code respectively in the **On Code** or **Off Code** field.



You can also activate always forward for all accounts. Do the following:

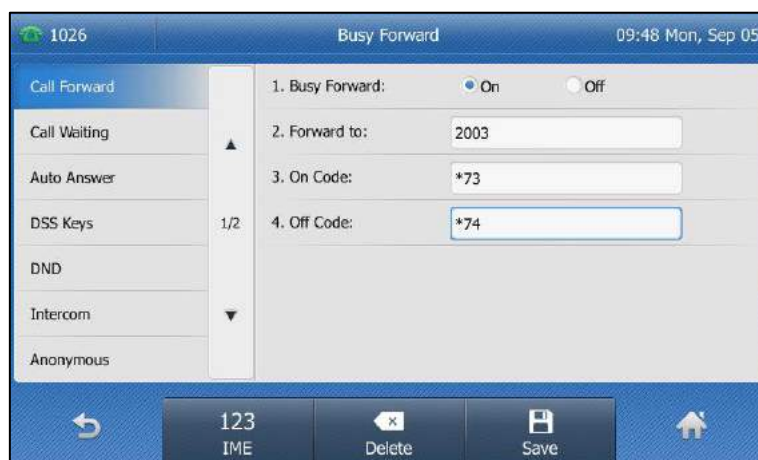
- 1) Tap the **All Lines** soft key.

The touch screen prompts "Copy to all lines?".



- 2) Tap **OK** to accept the change or **Cancel** to cancel.
- b) If you select **Busy Forward**:
- 1) Tap the **On** radio box of the **Busy Forward** field.
 - 2) Enter the destination number you want to forward incoming calls to when the phone is busy in the **Forward to** field.

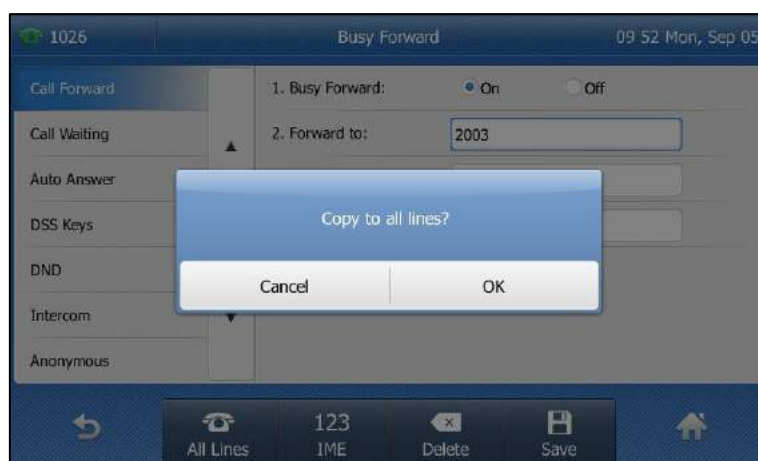
- 3) (Optional.) Enter the busy forward on code or off code respectively in the **On Code** or **Off Code** field.



You can also activate busy forward for all accounts. Do the following:

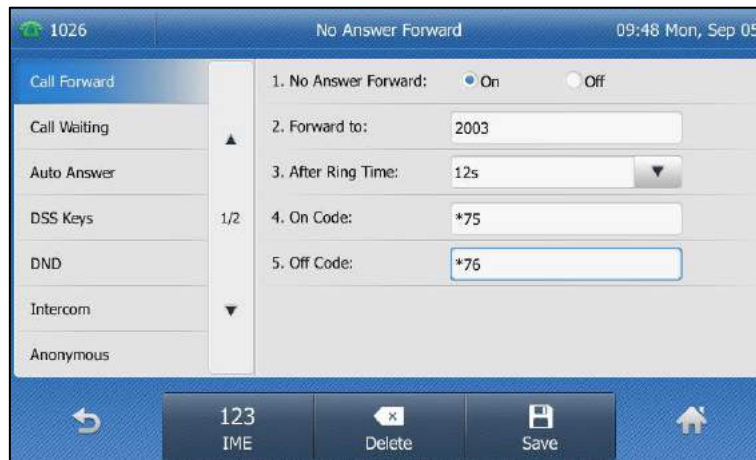
- 1) Tap the **All Lines** soft key.

The touch screen prompts "Copy to all lines?".



- 2) Tap **OK** to accept the change or **Cancel** to cancel.
- c) If you select **No Answer Forward**:
- 1) Tap the **On** radio box of the **No Answer Forward** field.
 - 2) Enter the destination number you want to forward unanswered incoming calls to in the **Forward to** field.
 - 3) Tap the gray box of the **After Ring Time** field, and then select the desired ring time to wait before forwarding from the pull-down list.
- The default ring time is 12.

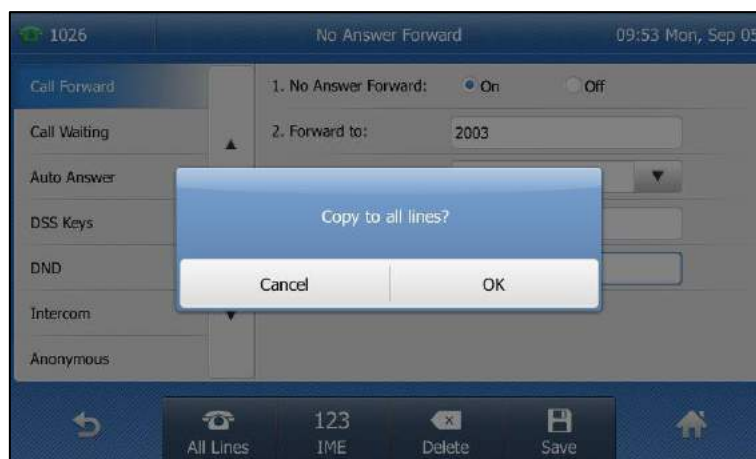
- 4) (Optional.) Enter the no answer forward on code or off code respectively in the **On Code** or **Off Code** field.





You can also activate no answer forward for all accounts. Do the following:

- 1) Tap the **All Lines** soft key.


The touch screen prompts "Copy to all lines?".





- 2) Tap **OK** to accept the change or **Cancel** to cancel.
5. Tap the **Save** soft key to accept the change.

If you activate call forward for the default account, the associated line icon will change to , and the icon  will appear on the status bar.



If you activate call forward for the non-default account, only the associated line icon will change to .



If you activate call forward for all accounts, all line icons will change to , and the icon  will appear on the status bar.



If the forward on code or off code is configured, the IP phone sends the corresponding code to the server when a certain action takes place. For example, if you set the Always Forward on code to be *71 (may vary on different servers), and the target number to be 1234. When you activate Always Forward on the IP phone, the IP phone sends *711234 to the server, and then the server will activate Always Forward feature on the server side, hence being able to get the right status of the extension.

Call forward is configurable via web user interface at the path **Features->Forward&DND**.

Note

You can also enter the SIP URL or IP address in the **Forward to** field. For more information on using the SIP URL or IP address, refer to [Placing Calls](#) on page 136.

Call forward is local to the phone, and may be overridden by the server settings. Call forward on code or off code may be different among servers. For more information, contact your system administrator.

To configure the forward authorized numbers via web user interface:

1. Click on **Features->Forward&DND**.
2. Select **Enabled** from the pull-down list of **Forward Emergency**.
3. Enter the numbers in the **Forward Authorized Numbers** field.
For multiple numbers, enter a comma between every two numbers.

The screenshot shows the Yealink T48S web interface. The top navigation bar includes Status, Account, Network, Dsskey, Features, Settings, Directory, and Security. The 'Features' tab is selected, and the 'Forward&DND' sub-tab is active. The 'forward' section is highlighted with a red box, showing 'Forward Emergency' set to 'Enabled' and 'Forward Authorized Numbers' set to '1023,1056'. Below this, there are sections for 'Mode' (Phone/Custom), 'Always Forward' (On/Off), 'Busy Forward' (On/Off), and 'No Answer Forward' (On/Off). Each section has fields for 'Target', 'On Code', and 'Off Code'. A 'NOTE' sidebar on the right provides additional information about Call Forward and DND Mode.

4. Click **Confirm** to accept the change.



When call forward is activated on the phone, the phone cannot forward incoming calls from the numbers specified in the **Forward Authorized Numbers** field.

Note



Forward authorized number is configurable via web user interface only.

To deactivate call forward in phone mode:

Do one of the following:

- Press  when the phone is idle.
- Tap  -> **Features**->**Call Forward**.
Tap the desired forwarding type.
Tap the **Off** radio box.
Tap the **Save** soft key to accept the change.

To deactivate call forward in custom mode:

1. Tap  -> **Features**->**Call Forward** or press  when the phone is idle.
The touch screen displays a list of accounts registered on the phone.
2. Tap the desired account.
3. Tap the desired forwarding type.
4. Tap the **Off** radio box.
If you want to deactivate call forward for all accounts, tap the **All Lines** soft key.
5. Tap the **Save** soft key to accept the change.



Dynamic Forwarding

You can manually forward a call to another number while your phone rings.

To forward an incoming call to another party:

1. When the phone is ringing, tap the **Forward** soft key.
2. Enter the number you want to forward the incoming call to.



3. Press , , or tap **Forward**.
The touch screen prompts a call forward message.

Call Transfer


You can transfer a call to another party during a call in one of three ways:

- **Blind Transfer:** Transfer a call directly to another party without consulting.
- **Semi-Attended Transfer:** Transfer a call when the target phone is ringing.
- **Attended Transfer (Consultative Transfer):** Transfer a call with prior consulting.

Blind Transfer

Before performing a blind transfer (except you use dial number method), make sure that the transfer mode on DSS key is configured as **Blind Transfer**. For more information on how to configure it, refer to [Configuring Transfer Mode on DSS Key](#) on page 190.

To perform a blind transfer during a call:

1. Press  or tap the **Transfer** soft key during a call.
2. You can do one of the following:
 - Enter the number you want to transfer the call to.




Press  or tap **Transfer** to complete the transfer.

If you are using a handset, the transfer can be completed by hanging up the handset.

- Tap the **Directory** soft key, and then tap **All Contacts**. Search for the contact and tap the desired contact to complete the transfer.
- Tap the **Directory** soft key, and then tap **Remote Phone Book**. Search for the contact and tap the desired contact to complete the transfer. (Remote phone book should be configured in advance. Refer to [Remote Phone Book](#) on page 92 for more information.).
- Tap the **History** soft key, and then tap the desired list. Search for the contact and tap the desired contact to complete the transfer.

To perform a blind transfer to exist call:

1. Press  or tap the **Transfer** soft key during a call.
2. Tap the desired hold call you want to transfer the call to on the left side.







The call is then connected to the call to which you are transferring.

Semi-attended Transfer

Before performing a semi-attended transfer (except you use dial number method), make sure that the transfer mode on DSS key is configured as **New Call** or **Attended Transfer**. For more information on how to configure it, refer to [Configuring Transfer Mode on DSS Key](#) on page 190.

To perform a semi-attended transfer:





1. Press  or tap the **Transfer** soft key during a call.
2. Do one of the following:
 - Enter the number you want to transfer the call to.
Press  or  to dial out.
 - Tap the **Directory** soft key, and then tap **All Contacts**. Search for the contact and tap the desired contact to dial out.
 - Tap the **Directory** soft key, and then tap **Remote Phone Book**. Search for the contact and tap the desired contact to dial out. (Remote phone book should be configured in advance. Refer to [Remote Phone Book](#) on page 92 for more information.)
 - Tap the **History** soft key, and then tap the desired list. Tap the desired entry to dial out.
3. Press  or tap **Transfer** to complete the transfer when receiving ringback.

If you are using a handset, the transfer can be completed by hanging up the handset.

Attended Transfer

Before performing an attended transfer (except you use dial number method), make sure that the transfer mode on DSS key is configured as **New Call** or **Attended Transfer**. For more information on how to configure it, refer to [Configuring Transfer Mode on DSS Key](#) on page 190.


To perform an attended transfer:

1. Press  or tap the **Transfer** soft key during a call.
2. Do one of the following:
 - Enter the number you want to transfer the call to.
Press  or  to dial out.
 - Tap the **Directory** soft key, and then tap **All Contacts**. Search for the contact and tap the desired contact to dial out.
 - Tap the **Directory** soft key, and then tap **Remote Phone Book**. Search for the contact and tap the desired contact to dial out. (Remote phone book should be configured in advance. Refer to [Remote Phone Book](#) on page 92 for more information.)
 - Tap the **History** soft key, and then tap the desired list. Tap the desired entry to dial out.
3. After the party answers the call, press  or tap **Transfer** to complete the transfer.
If you are using a handset, the transfer can be completed by hanging up the handset.

Call Waiting


You can enable or disable call waiting on the phone. If call waiting is enabled, you can receive another call when there is already an active call on the phone. Otherwise, another incoming call is automatically rejected by the phone with a busy message when there is an active call on the phone. You can also enable or disable the phone to play a warning tone when receiving another call.

To configure call waiting via phone user interface:

1. Tap  -> **Features**->**Call Waiting**.
2. Tap the **On** radio box of the **Call Waiting** field.
3. Tap the **On** radio box of the **Play Tone** field.
4. (Optional.) Enter the call waiting on code or off code respectively in the **On Code** or **Off Code** field.

If on code or off code is configured, the IP phone will send the corresponding code to activate or deactivate call waiting on the server. It is not available on all servers.



5. Tap the **Save** soft key to accept the change or  to cancel

Call waiting is configurable via web user interface at the path **Features->General Information**.

Note

If on code or off code is not configured, the call waiting may not take effect. It depends on your server. Contact your server administrator for more information.

Conference

You can use the SIP-T48S IP phone to create a conference with other two parties using the phone's local conference or create a conference with multiple participants which is called network conference.

Note

Network conference is not available on all servers. For more information, contact your system administrator.

Local Conference



The SIP-T48S IP phone supports up to 3 parties (including yourself) in a conference call. This is the default method of conference called Local Conference. You can create a conference between an active call and a call on hold at any time by tapping the **Conference** soft key.

Note

To set up a local conference call, make sure local conference feature is enabled. For more information, contact your system administrator.

To set up a local conference call:

1. Place a call to the first party.

2. When the first party answers the call, tap the **Conference** soft key to place a new call.
The active call is placed on hold.
3. Enter the number of the second party, and then press , , or tap **Conference**.
4. When the second party answers the call, tap the **Conference** soft key again to join all parties in the conference.





To join two calls in a conference:

1. Place two calls using two different accounts on the phone (for example, place the first call using account 1, and then place the second call using account 2).
2. Tap the desired call for conference and ensure that the call is active (for example, tap the call on account 1).
3. Tap the **Conference** soft key to join the two calls in the conference on the selected account.







During the conference call, you can do the following actions:

- Press  or tap the **Hold** soft key to place the conference call on hold.
- Tap the **Split** soft key to split the conference call into two individual calls on hold.
- Tap  to remove the desired party from the conference call.

The touch screen prompts “Are you sure to remove XX?”.

Tap **OK** to remove the party.

- Press  to mute the conference call, all other participants can hear each other, but they cannot hear you.
- Tap  to mute the party. The muted party can hear everyone, but no one can hear the muted party. The icon  changes to .
- Tap the **End Call** soft key to drop the conference call.

Network Conference

You can use network conference feature on the SIP-T48S IP phone to conduct a conference with multiple participants.

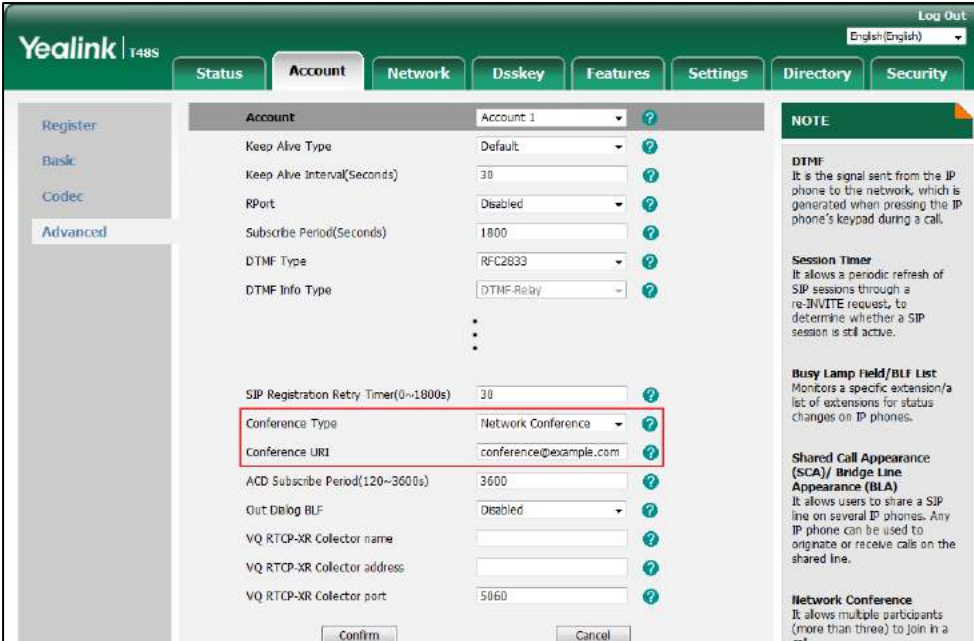
This feature allows you to perform the following:

- Join two calls together into a conference call.
- Invite another party into an active conference call.

To use this feature, contact your system administrator for the network conference URI in advance.

To configure network conference via web user interface:

1. Click on **Account->Advanced**.
2. Select the desired account from the pull-down list of **Account**.
3. Select **Network Conference** from the pull-down list of **Conference Type**.
4. Enter the conference URI (e.g., conference@example.com) in the **Conference URI** field.



The screenshot shows the Yealink T48S web user interface. The top navigation bar includes tabs for Status, Account, Network, Dsskey, Features, Settings, Directory, and Security. The 'Account' tab is selected, and the 'Advanced' sub-tab is active. The main configuration area shows various settings for the selected account (Account 1). The 'Conference Type' is set to 'Network Conference' and the 'Conference URI' is set to 'conference@example.com'. The 'SIP Registration Retry Timer' is set to 30. The 'Confirm' button is highlighted.

Field	Value
Account	Account 1
Keep Alive Type	Default
Keep Alive Interval(Seconds)	30
RPort	Disabled
Subscribe Period(Seconds)	1800
DTMF Type	RFC2833
DTMF Info Type	DTMF-Relay
SIP Registration Retry Timer(0~1800s)	30
Conference Type	Network Conference
Conference URI	conference@example.com
ACD Subscribe Period(120~3600s)	3600
Out Dialing BLF	Disabled
VQ RTPC-XR Collector name	
VQ RTPC-XR Collector address	
VQ RTPC-XR Collector port	5060

NOTE

DTMF
It is the signal sent from the IP phone to the network, which is generated when pressing the IP phone's keypad during a call.

Session Timer
It allows a periodic refresh of SIP sessions through a re-INVITE request, to determine whether a SIP session is still active.

Busy Lamp Field/BLF List
Monitors a specific extension/a list of extensions for status changes on IP phones.

Shared Call Appearance (SCA)/ Bridge Line Appearance (BLA)
It allows users to share a SIP line on several IP phones. Any IP phone can be used to originate or receive calls on the shared line.





Network Conference
It allows multiple participants (more than three) to join in a call.

- Click **Confirm** to accept the change.

Note

Network conference is configurable via web user interface only.

To set up a network conference call:

- Place a call to the first party.
- Tap the **Conference** soft key to place a new call.
The active call is placed on hold.
- Enter the number of the second party and then press , , or tap the **Send** soft key.
- When the second party answers the call, tap the **Conference** soft key to add the second party to the conference.
- Tap the **Conference** soft key to place a new call.
The conference call is placed on hold.
- Enter the number of the new party and then press , , or tap the **Send** soft key.
- When the new party answers the call, tap the **Conference** soft key to add the new party to the conference.
- Repeat steps 5 to 7 until you have added all intended parties.

The procedures to set up a network conference call on specific servers may be different from introduced above. Contact your system administrator for more information.

Call Park/Retrieve

You can use call park feature to place a call on hold, and then retrieve the call from another phone in the system (for example, a phone in another office or conference room). You can park an active call by tapping the **Park** soft key or pressing call park key (if configured) on the phone. If the call is parked successfully, there is a voice prompt confirming that the call was parked. You can retrieve the parked call by pressing the **Retrieve** soft key or the retrieve park key (if configured). If the parked call is not retrieved within a period of time defined by the system, the phone performing call park will receive the call back.

Note

Call park is not available on all servers. Contact your system administrator for more information.

The IP phone supports call park feature under the following modes:

- FAC mode:** park the call to the local extension or a desired extension through dialing the park code.
- Transfer mode:** park the call to shared parking lot through performing a blind transfer to a call park number (call park code).

To configure a call park key via phone user interface:

1. Tap **Menu->Features->DSS Keys**.
2. Tap the desired DSS key.
3. Tap the gray box of the **Type** field, and then select **Key Event** from the pull-down list.
4. Tap the gray box of the **Key Type** field, and then select **Call Park** from the pull-down list.
5. Tap the gray box of the **Account ID** field, and then select the desired line from the pull-down list.
6. (Optional.) Enter the string that will appear on the LCD screen in the **Label** field.
7. Enter the call park code in the **Value** field.




8. Tap the **Save** soft key to accept the change or the  to cancel.

If the call park code is already configured for the **Park** soft key, you don't need to configure it when configuring a call park key.

To configure a retrieve park key via phone user interface:

1. Tap **Menu->Features->DSS Keys**.
2. Tap the desired DSS key.
3. Tap the gray box of the **Type** field, and then select **Retrieve Park** from the pull-down list.

4. Tap the gray box of the **Account ID** field, and then select the desired line from the pull-down list.

5. (Optional.) Enter the string that will appear on the LCD screen in the **Label** field.
6. Enter the park retrieve code in the **Value** field.
7. Tap the **Save** soft key to accept the change or the  to cancel.

If the park retrieve code is already configured for the **Retrieve** key, you don't need to configure it when configuring a retrieve park key.

Call park key and retrieve park key are configurable via web user interface at the path **Dsskey->Line Key**.

Note

The call park code and park retrieve code are predefined on the system server. Contact your system administrator for more information.

FAC Mode

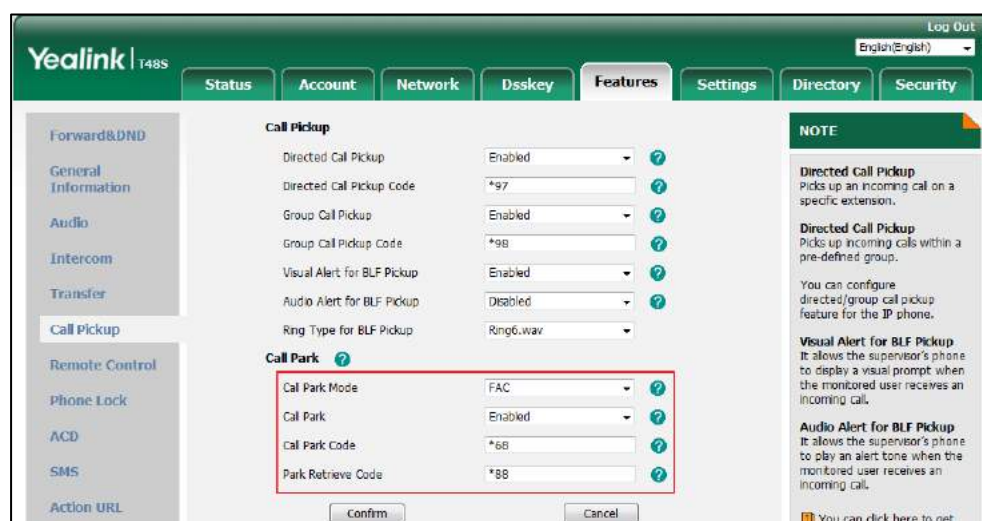
To configure call park feature in FAC mode via web user interface:

1. Click on **Features->Call Pickup**.
2. Select **FAC** from the pull-down list of **Call Park Mode**.
3. Select **Enabled** from the pull-down list of **Call Park**.

If **Enabled** is selected, the **Park** soft key will display on the LCD screen during a call, and the **Retrieve** soft key will display on the dialing screen.

4. (Optional.) Enter the call park code in the **Call Park Code** field.
It is configured for the **Park** soft key. This call park code will also apply to the call park key.
5. (Optional.) Enter the park retrieve code in the **Park Retrieve Code** field

It is configured for the **Retrieve** soft key. This park retrieve code will also apply to the retrieve park key.



6. Click **Confirm** to accept the change.

Note

If the **Park** or **Retrieve** soft key doesn't appear on the LCD screen, please select **Disabled** from the pull-down list of **Custom Softkey** via web user interface at path **Settings->Softkey Layout**.

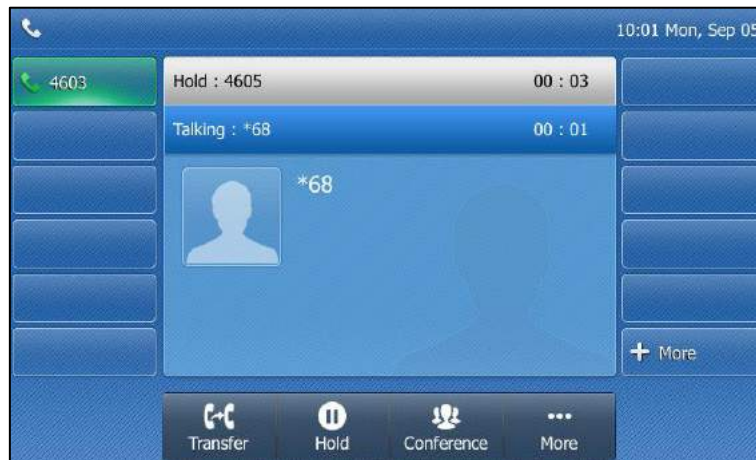
To park a call in FAC mode:

- During a call, tap the **Park** soft key (You may need to tap the **More** soft key to see the **Park** soft key) or press the call park key (if configured).
 - If the call park code is not configured, you need to enter the call park code (e.g., *68).



Press  ,  or tap **Park**.

- If the call park code is configured, the phone will dial the configured call park code shown as below:



2. Do one of the following:

- a) If you want to park the call against the local extension.

1) Press .

If the call is parked successfully, you will hear a voice prompt confirming that the call is parked.

- b) If you want to park the call against desired extension.

1) Enter an extension (e.g., 4606) where you want to park the call.

2) Press  or .

If the call is parked successfully, you will hear a voice prompt confirming that the call is parked. The call is parked against the extension you entered.


To retrieve a parked call in FAC mode:

1. Do one of the following:

- If the park retrieve code is not configured, dial the park retrieve code (e.g., *88).
- If the park retrieve code is configured, tap **Retrieve** on the dialing screen or press retrieve park key (if configured) on the IP phone.

The phone will dial the configured park retrieve code and the Retrieve screen appears as below:



2. Follow the voice prompt, do one of the following:
 - Press  on the phone where the call is parked.
 - Enter the desired extension followed by # (e.g., 4606#) on any phone.

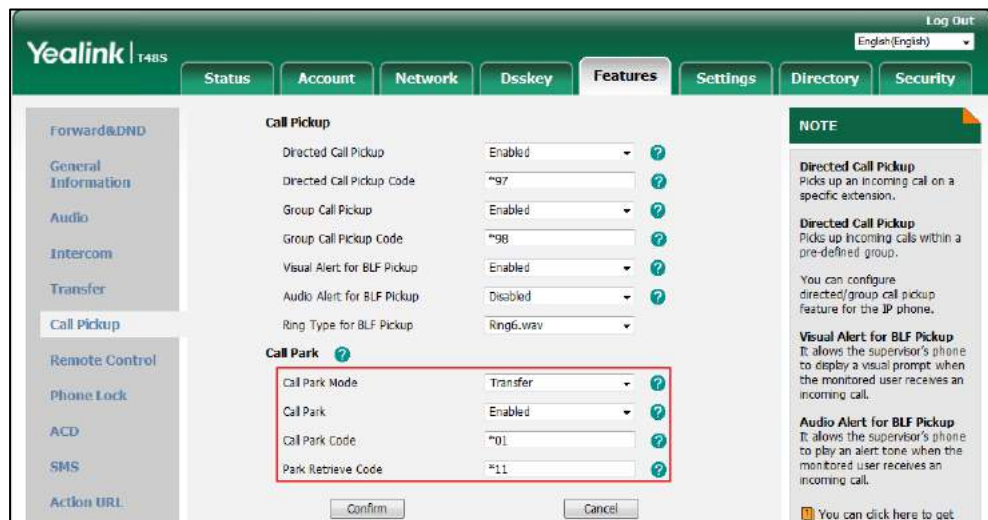
Note You can also press the desired BLF or BLF list key to park a call or retrieve a parked call directly. For more information, refer to [Parking a Call/Retrieving a Parked Call to the Monitored User](#) on page 192.

Transfer Mode

To configure call park feature in transfer mode via web user interface:

1. Click on **Features->Call Pickup**.
2. Select **Transfer** from the pull-down list of **Call Park Mode**.
3. Select **Enabled** from the pull-down list of **Call Park**.
If **Enabled** is selected, the **Park** soft key will display on the LCD screen during a call, and the **Retrieve** soft key will display on the dialing screen.
4. (Optional.) Enter the call park code in the **Call Park Code** field.
It is configured for the **Park** soft key. This call park code will also apply to the call park key.
5. (Optional.) Enter the park retrieve code in the **Park Retrieve Code** field.

It is configured for the **Retrieve** soft key. This park retrieve code will also apply to the retrieve park key.



- Click **Confirm** to accept the change.

Note

If the **Park** or **Retrieve** soft key doesn't appear on the LCD screen, please select **Disabled** from the pull-down list of **Custom Softkey** via web user interface at path **Settings->Softkey Layout**.

To park a call in Transfer mode:

- During a call, tap the **Park** soft key (You may need to tap the **More** soft key to see the **Park** soft key) or the call park key (if configured).
 - If the call park code is not configured, you need to enter the call park code.
Press **OK** , **#SEND** or tap **Park**. The call will be transferred to the shared parking lot.
 - If the call park code is configured, the call will be directly transferred to the shared parking lot.

Note

For some servers, the system will return a specific retrieve park number (park retrieve code) from which the call can be retrieved after parking successfully.

To retrieve a parked call in Transfer mode:

- Do one of the following:
 - If the park retrieve code is not configured, dial the park retrieve code (e.g., *11).
 - If the park retrieve code is configured, tap **Retrieve** on the dialing screen or retrieve park key (if configured) on the IP phone.

The phone will retrieve the parked call from the shared parking lot.

Call Pickup

You can use call pickup to answer someone else's incoming call on your phone. The SIP-T48S IP phone supports directed call pickup and group call pickup. Directed call pickup is used for picking up a call that is ringing at a target phone number. Group call pickup is used for picking up a call that is ringing at any phone number in a certain group. The pickup group should be predefined, contact your system administrator for more information.

You can pick up an incoming call by using **DPickup/GPickup**. To use call pickup, you need to configure the call pickup code beforehand on a global or per-line basis via web user interface. The call pickup code configured on a per-line basis takes precedence over that configured on a global basis.

Note If there are many incoming calls at the same time, tapping **GPickup** on the phone will pick up the call that rings first.

Directed Call Pickup

To enable directed call pickup and configure the directed call pickup code on a global basis via web user interface:

1. Click on **Features->Call Pickup**.
2. Select **Enabled** from the pull-down list of **Directed Call Pickup**.
3. Enter the directed call pickup code in the **Directed Call Pickup Code** field.

The screenshot shows the 'Call Pickup' configuration page in the Yealink T48S web interface. The 'Features' tab is selected. Under 'Call Pickup', the 'Directed Call Pickup' is set to 'Enabled' and the 'Directed Call Pickup Code' is '*97'. The 'Group Call Pickup' is also set to 'Enabled' with code '*98'. The 'Visual Alert for BLF Pickup' is 'Enabled', 'Audio Alert for BLF Pickup' is 'Disabled', and 'Ring Type for BLF Pickup' is 'Ring6.wav'. The 'Call Park' section shows 'Call Park Mode' as 'Transfer', 'Call Park' as 'Disabled', and empty fields for 'Call Park Code' and 'Park Retrieve Code'. A 'NOTE' box on the right explains the features. 'Confirm' and 'Cancel' buttons are at the bottom.

4. Click **Confirm** to accept the change.

To configure the directed call pickup code on a per-line basis via web user interface:

1. Click on **Account->Advanced**.
2. Select the desired account from the pull-down list of **Account**.

- Enter the directed call pickup code in the **Directed Call Pickup Code** field.

The screenshot shows the Yealink T49S web interface. The 'Account' tab is selected. The 'Directed Call Pickup Code' field is highlighted with a red box and contains the value '*97'. Other fields include 'Keep Alive Type' (Default), 'Keep Alive Interval(Seconds)' (30), 'RPort' (Disabled), 'Subscribe Period(Seconds)' (1800), 'SIP Server Type' (Default), 'Music Server URI' (sip:moh@sp.com), 'Group Call Pickup Code' (*98), 'Distinctive Ring Tones' (Enabled), 'Unregister When Reboot' (Disabled), 'Out Dialog BLF' (Disabled), 'VQ RTPC-XR Collector name', 'VQ RTPC-XR Collector address', and 'VQ RTPC-XR Collector port' (5060). A 'NOTE' section on the right provides information about DTMF, Session Timer, Busy Lamp Field/BLF List, Shared Call Appearance (SCA)/ Bridge Line Appearance (BLA), and Network Conference.

- Click **Confirm** to accept the change.

To pick up a call directly:

- Pick up the handset, tap the line key or press the Speakerphone key.

The **DPickup** appears on the on-screen keypad.



- Tap **DPickup** on your phone when the target phone receives an incoming call.
- Enter the phone number which is receiving an incoming call.
- Tap **DPickup** again.

The call is answered on your phone.

You can also configure a DSS key as a direct pickup key via phone user interface or web user interface. Once configured, you can pick up a call by tapping the direct pickup key directly. For more information, refer to [DSS Keys](#) on page 110.

Group Call Pickup

To enable group call pickup and configure the group call pickup code on a global basis via web user interface:

1. Click on **Features**->**Call Pickup**.
2. Select **Enabled** from the pull-down list of **Group Call Pickup**.
3. Enter the group call pickup code in the **Group Call Pickup Code** field.

The screenshot shows the Yealink T48S web interface with the 'Features' tab selected. Under the 'Call Pickup' section, the following settings are visible:

- Directed Call Pickup:** Enabled
- Directed Call Pickup Code:** *97
- Group Call Pickup:** Enabled (highlighted with a red box)
- Group Call Pickup Code:** *98 (highlighted with a red box)
- Visual Alert for BLF Pickup:** Enabled
- Audio Alert for BLF Pickup:** Disabled
- Ring Type for BLF Pickup:** Ring6.wav

Below the 'Call Pickup' section is the 'Call Park' section, which includes:

- Call Park Mode:** Transfer
- Call Park:** Disabled
- Call Park Code:** (empty field)
- Park Retrieve Code:** (empty field)

At the bottom of the configuration area are 'Confirm' and 'Cancel' buttons. On the right side, there is a 'NOTE' section with information about Directed Call Pickup, Visual Alert for BLF Pickup, and Audio Alert for BLF Pickup.

4. Click **Confirm** to accept the change.

To configure the group call pickup code on a per-line basis via web user interface:

1. Click on **Account**->**Advanced**.
2. Select the desired account from the pull-down list of **Account**.

- Enter the group call pickup code in the **Group Call Pickup Code** field.

The screenshot shows the Yealink T49S web interface. The 'Account' tab is selected. In the 'Account' section, the 'Group Call Pickup Code' field is highlighted with a red box and contains the value '*98'. Other fields include 'Keep Alive Type' (Default), 'Keep Alive Interval(Seconds)' (30), 'RPort' (Disabled), 'Subscribe Period(Seconds)' (1800), 'SIP Server Type' (Default), 'Music Server URI' (sip:moh@sp.com), 'Directed Call Pickup Code' (*97), 'Distinctive Ring Tones' (Enabled), 'Unregister When Reboot' (Disabled), 'Out Dialog BLF' (Disabled), 'VQ RTPC-XR Collector name', 'VQ RTPC-XR Collector address', and 'VQ RTPC-XR Collector port' (5060). A 'NOTE' section on the right provides additional information about DTMF, Session Timer, Busy Lamp Field/BLF List, Shared Call Appearance (SCA)/ Bridge Line Appearance (BLA), and Network Conference.

- Click **Confirm** to accept the change.

To pick up a call in the group:

- Pick up the handset, tap the line key or press Speakerphone key.

The **GPickup** appears on the on-screen keypad.



- Tap **GPickup** on your phone when a phone in the group receives an incoming call.
The call is answered on your phone.

You can also configure a DSS key as a group pickup key via phone user interface or web user interface. Once configured, you can pick up a call by tapping the group pickup key directly. For more information, refer to [DSS Keys](#) on page 110.

Note

The directed call pickup code and group call pickup code are predefined on the system server. Contact your system administrator for more information.

The call pickup code configured on a per-line basis takes precedence over that configured on a global basis.


Anonymous Call

You can use anonymous call to block your identity and phone number from appearing to the called party when you call someone. For example, you want to call to consult some of the services, but don't want to be harassed. Anonymous call is configurable on a per-line basis. You can also configure the phone to send anonymous call on/off code to the server to activate/deactivate anonymous call on the server side.

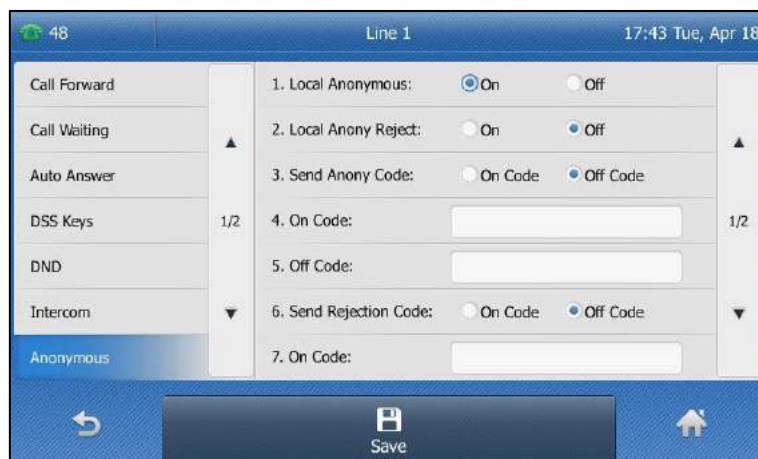
Note

Anonymous call is not available on all servers. Contact your system administrator for the anonymous call on code and off code.

To configure anonymous call via phone user interface:

1. Tap  -> **Features**->**Anonymous**.
2. Tap the desired line.
3. Tap the **On** radio box of the **Local Anonymous** field.
4. (Optional.) Tap the **On Code** or **Off Code** radio box of the **Send Anony Code** field.
5. (Optional.) Enter the anonymous call on code and off code respectively in the **On Code** and **Off Code** field.

The phone will send the configured on code or off code depending on your selection when you enable or disable anonymous call feature on the phone.



6. Tap the **Save** soft key to accept the change or  to cancel.

Anonymous call is configurable via web user interface at the path **Account->Basic**.

To place an anonymous call:

1. Using the specific line on the phone to place a call to phone B.


The touch screen of phone B prompts an incoming call from anonymity.



Anonymous Call Rejection

You can use anonymous call rejection to reject incoming calls from anonymous callers. Anonymous call rejection automatically rejects incoming calls from callers who deliberately block their identities and numbers from being displayed. Anonymous call rejection is configurable on a per-line basis. You can also configure the phone to send anonymous call rejection on/off code to the server to activate/deactivate anonymous call rejection on the server side.

To configure anonymous call rejection via phone user interface:

1. Tap  -> **Features**-> **Anonymous**.
2. Tap the desired line.
3. Tap the **On** radio box of the **Local Anony Reject** field.
4. (Optional.) Tap the **On Code** or **Off Code** radio box of the **Send Rejection Code** field.
5. (Optional.) Enter the anonymous call rejection on code and off code respectively in the **On Code** and **Off Code** field.

The phone will send the configured on code or off code depending on your selection when you enable or disable anonymous call rejection feature on the phone.



6. Tap the **Save** soft key to accept the change or  to cancel.

Anonymous call rejection is configurable via web user interface at the path **Account->Basic**.

If phone B has anonymous call feature enabled and places a call to your IP phone, the call will be rejected, and the touch screen of the phone B will display the following:



Advanced Phone Features

This chapter provides operating instructions for the advanced features of the SIP-T48S IP phone. Topics include:

- [Busy Lamp Field \(BLF\)](#)
- [BLF List](#)
- [Call Recording](#)
- [Hot Desking](#)
- [Intercom](#)
- [Multicast Paging](#)
- [Music on Hold](#)
- [Automatic Call Distribution \(ACD\)](#)
- [Shared Call Appearance \(SCA\)](#)
- [Bridged Line Appearance \(BLA\)](#)
- [Messages](#)

If you require additional information or assistance with your new phone, contact your system administrator.

Busy Lamp Field (BLF)


You can use BLF to monitor a specific line for status changes on the phone. For example, you can configure a BLF key on the phone to monitor the status of a friend's line (busy or idle). The BLF key icon illuminates solid red when the friend's line is in use.

Configuring the BLF Feature on the IP Phone

You need to configure the IP phone to perform BLF monitoring IP phones being monitored do not require any configuration.

Configuring a BLF Key

To configure a BLF key via phone user interface:

1. Tap  -> **Features**-> **DSS Keys**.
2. Tap the desired line key.
3. Tap the gray box of the **Type** field, and then select **BLF** from the pull-down list.
4. Tap the gray box of the **Account ID** field, and then select the desired line from the pull-down list.

5. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.
6. Enter the phone number or extension you want to monitor in the **Value** field.
7. (Optional.) Enter the directed call pickup code in the **Extension** field.

If it is configured, when the monitored user receives an incoming call, the supervisor can tap the BLF key to pick up the call directly.



8. Tap the **Save** soft key to accept the change or to cancel.

BLF key is configurable via web user interface at the path **Dsskey->Line key**.

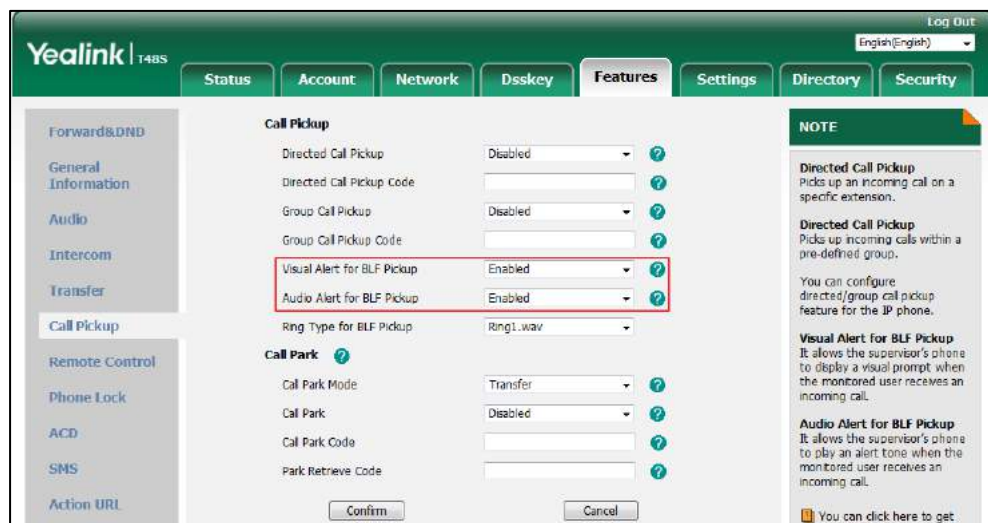
Configuring Visual and Audio Alert for BLF Pickup

You can enable visual alert feature for BLF pickup on the phone. This allows the LCD screen of the monitoring phone to display the caller ID when the monitored line receives an incoming call. You can also enable audio alert feature for BLF pickup on the phone. If audio alert feature for BLF pickup is enabled, you can specify a desired ring tone to play when the monitored line receives an incoming call.

To enable visual and audio alert features via web user interface:

1. Click on **Features->Call Pickup**.
2. Select **Enabled** from the pull-down list of **Visual Alert for BLF Pickup**.

3. Select **Enabled** from the pull-down list of **Audio Alert for BLF Pickup**.



4. Click **Confirm** to accept the change.

Note

Visual and audio alert features are configurable via web user interface only.

To configure BLF ring type via phone user interface:

1. Tap -> **Basic**-> **Sound**-> **BLF Ring Type**.
2. Tap ▲ or ▼ to scroll through the list of available ring tones.
3. Tap the desired ring tone.



4. (Optional.) Press to adjust the ringer volume.
5. Tap the **Save** soft key to accept the change or to cancel.

BLF ring type is configurable via web user interface at the path **Features->Call Pickup**.

When the monitored line receives an incoming call, the following occurs on your phone:

- The phone plays a specific ring tone (if enabled).

- The BLF key icon flashes red.
- The caller ID appears on the touch screen (if enabled).

In the following figure, the touch screen shows an incoming call from 1008 on the monitored line.



You can do the following actions:

- Tap the **Pick Up** soft key to pick up the call.
- Tap the **Send** soft key to dial out the monitored phone number.
- Tap the **New Call** soft key to place a new call.
- Tap the **Cancel** soft key to exit the screen.

Note

If your phone is locked, you cannot use the **Pick Up**, **Send**, **New Call** and **Cancel** soft keys until unlocked. For more information, refer to [Phone Lock](#) on page 60.

Configuring Directed Call Pickup Code

If you configure the directed call pickup code in advance, you can pick up the monitored user's incoming call by tapping the BLF key. You can configure the directed call pickup code when configuring a BLF key. For more information, refer to [Configuring a BLF Key](#) on page 185. You can also configure the directed call pickup code on a global or per-line basis via web user interface.

If you enable visual alert feature, you can also pick up the monitored user's incoming call by tapping the **DPickup** soft key. To use **DPickup** soft key to pick up the call, the call pickup code can only be configured on a global or per-line basis via web user interface.

Note

The pickup code is used in the following order of preference: Extension (**Dsskey**-> **Line Key**)>Directed Call Pickup Code (**Account**-> **Advanced**)>Directed Call Pickup Code (**Features**-> **Call Pickup**). If pickup code is not configured, tapping the BLF key/**DPickup** soft key will directly call the monitored user when he/she receives an incoming call.

To configure the directed call pickup code on a global basis via web user interface:

1. Click on **Features->Call Pickup**.
2. Enter the desired pickup code in the **Directed Call Pickup Code** field.

Yealink T48S Log Out English(English)

Status Account Network Dsskey **Features** Settings Directory Security

Forward&DND
General Information
Audio
Intercom
Transfer
Call Pickup
Remote Control
Phone Lock
ACD
SMS
Action URL

Call Pickup

Directed Call Pickup Enabled ?

Directed Call Pickup Code *97 ?

Group Call Pickup Enabled ?

Group Call Pickup Code *98 ?

Visual Alert for BLF Pickup Enabled ?

Audio Alert for BLF Pickup Disabled ?

Ring Type for BLF Pickup Ring6.wav

Call Park ?

Call Park Mode Transfer ?

Call Park Enabled ?

Call Park Code *01 ?

Park Retrieve Code *11 ?

Confirm Cancel

NOTE

Directed Call Pickup
Picks up an incoming call on a specific extension.

Directed Call Pickup
Picks up incoming calls within a pre-defined group.
You can configure directed/group call pickup feature for the IP phone.

Visual Alert for BLF Pickup
It allows the supervisor's phone to display a visual prompt when the monitored user receives an incoming call.

Audio Alert for BLF Pickup
It allows the supervisor's phone to play an alert tone when the monitored user receives an incoming call.

You can click here to get

3. Click **Confirm** to accept the change.

To configure the directed call pickup code on a per-line basis via web user interface:

1. Click on **Account->Advanced**.
2. Select the desired account from the pull-down list of **Account**.
3. Enter the desired pickup code in the **Directed Call Pickup Code** field.

Yealink T48S Log Out English(English)

Status **Account** Network Dsskey Features Settings Directory Security

Register:
Basic
Codec
Advanced

Account Account 1 ?

Keep Alive Type Default ?

Keep Alive Interval(Seconds) 30 ?

RPort Disabled ?

Subscribe Period(Seconds) 1800 ?

SIP Server Type Default ?

Music Server URI sip:moh@sp.com ?

Directed Call Pickup Code *97 ?

Group Call Pickup Code *98 ?

Distinctive Ring Tones Enabled ?

Unregister When Reboot Disabled ?

Out Dialog BLF Disabled ?

VQ RTPC-XR Collector name

VQ RTPC-XR Collector address

VQ RTPC-XR Collector port 5060 ?

Confirm Cancel

NOTE

DTMF
It is the signal sent from the IP phone to the network, which is generated when pressing the IP phone's keypad during a call.

Session Timer
It allows a periodic refresh of SIP sessions through a re-INVITE request, to determine whether a SIP session is still active.

Busy Lamp Field/BLF List
Monitors a specific extension/a list of extensions for status changes on IP phones.

Shared Call Appearance (SCA)/ Bridge Line Appearance (BLA)
It allows users to share a SIP line on several IP phones. Any IP phone can be used to originate or receive calls on the shared line.

Network Conference
It allows multiple participants (more than three) to join in a call.

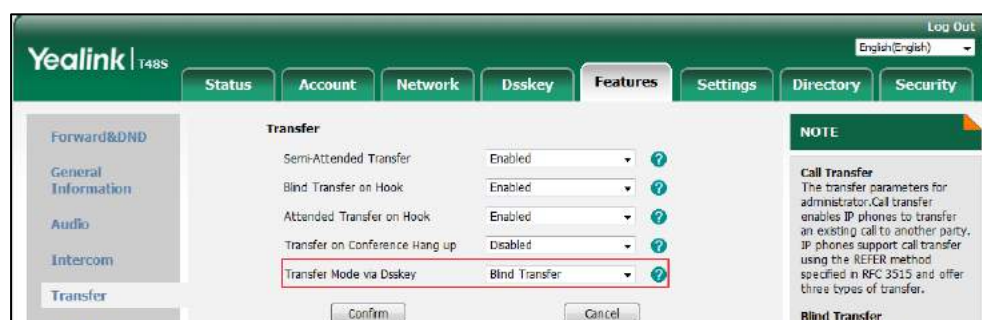
4. Click **Confirm** to accept the change.

Configuring Transfer Mode on DSS Key

When there is an active call on the IP phone, you can handle the active call differently using a BLF key. The phone behavior depends on the configuration of transfer mode via DSS key with the BLF key.

To configure the transfer mode on DSS key via web user interface:

1. Click on **Features->Transfer**.
2. Select the desired transfer mode from the pull-down list of **Transfer Mode via Dsskey**.
 - If you select **Blind Transfer**, tap the BLF key to blind transfer the call to the monitored user.
 - If you select **Attended Transfer**, tap the BLF key to dial out the monitored phone number and then perform an attended or a semi-attended transfer.
 - If you select **New Call**, tap the BLF key to place a new call to the monitored user. The original call is placed on hold.



3. Click **Confirm** to accept the change.

Note Transfer Mode on DSS Key is also applicable to BLF list feature.

Using BLF Feature on the IP Phone

You can use the BLF key in the following ways:

- Place a call to the monitored user.
- Transfer a call to the monitored user.
- Pick up an incoming call of the monitored user.

Placing a Call to the Monitored User

You can tap a BLF key to dial out the monitored phone number when the monitored line is idle.

To place a call to the monitored user when the IP phone is idle:

1. Tap the BLF key.

The IP phone dials out the phone number of the monitored user.

Transferring a Call to the Monitored User

When there is already an active call on the IP phone, you can transfer the active call to the monitored user by tapping the BLF key. The phone handles the active call differently depending on the configuration of transfer mode via DSS key with the BLF key (refer to [Configuring Transfer Mode on DSS Key](#)). The transfer mode on DSS key has the following modes:

- Blind Transfer
- Attended Transfer
- New Call

When the transfer mode on DSS key is set to **Blind Transfer** and there is already an active call on the IP phone, you can do the following:

To perform a blind transfer:

1. Tap the BLF key of the monitored user which you want to transfer this call to.
Then the active call is connected to the number of the monitored user.

When the transfer mode on DSS key is set to **Attended Transfer** and there is already an active call on the IP phone, you can do the following:

To perform a semi-attended transfer:

1. Tap the BLF key of the monitored user which you want to transfer this call to. The phone will dial the number of the monitored user.
2. Tap the BLF key of the monitored user again or the **Transfer** soft key to complete the transfer when receiving ringback.

To perform an attended transfer:


1. Tap the BLF key of the monitored user which you want to transfer this call to. The phone will dial the number of the monitored user.
2. Tap the BLF key of the monitored user again or the **Transfer** soft key to complete the transfer after the monitored user answers the call.

When the transfer mode on DSS key is set to **New Call** and there is already an active call on the IP phone, you can do the following:

To perform a new call:

1. Tap the BLF key of the monitored user you want to call.
The phone will dial the number of the monitored user. The original call is placed on hold.

Picking up an Incoming Call of the Monitored User

When the monitored user receives an incoming call, the BLF key icon indicator of the monitored user will become  and flashing. You can use the BLF key to pick up an incoming call of the monitored user. You can use the BLF key to pick up an incoming call of the monitored user. If you enable visual alert feature on the phone, you can pick up the incoming call using the

DPickup soft key. Before picking up an incoming call, ensure that the directed call pickup code has been configured in advance.

To pick up an incoming call using the BLF key or the DPickup soft key:

1. Tap the BLF key or the **DPickup** soft key.

The incoming call of the monitored user is answered on the IP phone.


Note

If the directed call pickup code is not configured, the phone will place a call to the monitored user instead of picking up an incoming call of the monitored user when you tap the BLF key or the **DPickup** soft key.


Parking a Call/Retrieving a Parked Call to the Monitored User

You can press the desired BLF key to park a call or retrieve a parked call directly in FAC mode. It should be pre-configured by your system administrator.

To park a call in FAC mode:

1. During a call, tap the **Park** soft key (You may need to tap the **More** soft key to see the **Park** soft key).
2. Tap  to back to the idle screen, and then tap the desired BLF key to park the call to the monitored user.

To retrieve a parked call in FAC mode:

1. Tap the **Retrieve** soft key on the dialing screen.
2. Tap  to back to the idle screen, and then tap the desired BLF key to retrieve a call that is parked to the monitored user.

Note

Make sure that the call park code/park retrieve code is configured via web user interface at the path: **Feature->Call Pickup**. For more information, refer to [FAC Mode](#) on page 173.

BLF List

You can use the BLF List feature to monitor a list of users defined by your system administrator. For example, your system administrator enables BLF List, and creates a BLF List URI (e.g., BLFList@example.com) including a list of user1, user2 on the server. The BLF List keys on the IP phone can present the status of user1 and user2. The key icons illuminate flashing or solid depending on the status of those users. For more BLF List key icon indicators, refer to [LED Instructions](#) on page 9.

You can use the BLF List keys in the following ways:

- When the monitored user is idle, tap the BLF list key to dial out the phone number.
- When there is already an active call on the IP phone, you can transfer the active call to the

monitored user by tapping the BLF List key. The phone handles the active call differently depending on the configuration of transfer mode via Dsskey. For more information on the transfer mode on DSS key, refer to [Configuring Transfer Mode on DSS Key](#) on page 190.

- When the monitored user receives an incoming call, tap the BLF list key to pick up the call directly. Before picking up an incoming call, ensure that the BLF List Pickup Code has been configured in advance. If the code is not configured, the phone will place a call to the monitored user instead of picking up the incoming call of the monitored user when you tap the BLF List key.
- When there is a conversation on the monitored user, tap the BLF list key to barge in and set up a conference call. Before barging in an active call, ensure that the BLF List Barge In Code has been configured in advance. If the code is not configured, the phone will place a call to the monitored user instead of barging in an active call of the monitored user when you tap the BLF List key.
- When a call is being parked against the monitored phone, tap the BLF List key to retrieve the parked call from the monitored user. Before retrieving the parked call, ensure that the BLF List Retrieve Call Parked Code has been configured in advance. If the code is not configured, the phone will place a call to the monitored user instead of retrieving the parked call when you tap the BLF List key.

To configure BLF List settings via web user interface:

1. Click on **Account->Advanced**.
2. Select the desired account from the pull-down list of **Account**.
3. Enter the BLF List URI in the **BLF List URI** field.
4. (Optional.) Enter the directed call pickup code in the **BLF List Pickup Code** field.
5. (Optional.) Enter the barge-in code in the **BLF List Barge In Code** field.

6. (Optional.) Enter the park retrieve code in the **BLF List Retrieve Call Parked Code** field.

The screenshot shows the Yealink T48S web interface with the 'Account' tab selected. The 'BLF List' section is highlighted with a red box, showing the following fields:

- BLF List URI: 4609@pbx.yealink.com
- BLF List Pickup Code: *97
- BLF List Barge In Code: *13
- BLF List Retrieve Call Parked Code: *88

Other visible fields include Keep Alive Type (Default), Keep Alive Interval (30), RPort (Disabled), PTime (20), Shared Line (Shared Call Appearance), Call Pull Feature Access Code (*11), Dialog Info Call Pickup (Disabled), VQ RTP-3R Collector name, VQ RTP-3R Collector address, and VQ RTP-3R Collector port (5060).

7. Click **Confirm** to accept the change.

Note

For more information on BLF List URI/BLF List Pickup Code/BLF List Barge In Code/BLF List Retrieve Call Parked Code, contact your system administrator.

According to the response message from the server, the IP phone will automatically configure the BLF List keys beginning from the first unused DSS key (The default order of BLF list keys assigned automatically is Line Key->Ext Key. To customize the assignment order, contact your system administrator.). Once any DSS key is seized, the IP phone will skip to configure the next DSS key.

You can receive a visual or/and an audio alert (if enabled) on your phone when the monitored user receives an incoming call. For more information, refer to [Configuring Visual and Audio Alert for BLF Pickup](#) on page 186.

Note

The pickup code is used in the following order of preference:
 BLF List Pickup Code (**Account->Advanced**)>Directed Call Pickup Code (**Account->Advanced**)>Directed Call Pickup Code (**Features->Call Pickup**). If all of them are not configured, tapping the BLF List key will directly call the monitored user when he/she receives an incoming call. For more information on pickup code, refer to [Call Pickup](#) on page 178.

Call Recording


The SIP-T48S IP phone supports local and server recording. If you insert a USB flash drive into the USB port on your phone, you can record active calls on your phone. The recordings are

saved as *.wav files on your USB flash drive. You can also record active calls by tapping a record key on the phone (refer to [Recording Using a Record Key](#)). The recordings are saved on the server.

Note

Before recording any call, especially those involving PSTN, it is necessary to know about the rules and restrictions of any governing call-recording in the place you are in. It is also very important to have the consent of the person you are calling before recording the conversation.

Recording Using a USB Flash Drive

When the phone is idle, and you insert a USB flash drive into the USB port on your phone, the phone will detect the USB flash drive and display a flashing icon . After detecting the USB flash drive, the icon stops flashing and LCD screen prompts "USB flash drive is connected."



When there is an active call, and you insert a USB flash drive into the USB port on IP phone, the LCD screen will prompt "USB flash drive is connected. Remaining recording time: XX:XX:XX". For more information on the available recording time, refer to [Viewing the Storage Space](#) on page 201.

The following figure shows an example:



Note

Recording using a USB flash drive is not available by default. For more information, contact your system administrator.

The size of a single recording file should be less than 2G.

The Start REC soft key controls the recording function, and is available:

- The free space of USB flash drive is sufficient
- When there are one or more calls connected to your IP phone
- During an active call
- When calls are on hold or muted
- During an attended transfer
- During a conference call

The Start REC soft key is not available when:

- You place a new call
- No free space of USB flash drive
- The phone prompts you to answer an incoming call

Call Recording

You can record active calls or conferences.


To record a call:

1. Tap the **More** soft key, and then tap the **StartREC** soft key during a call.

The LCD screen displays the icon  and recording duration.





During the recording, you can do the following:


- Tap the **More** soft key, and then tap the **PauseREC** soft key. Then  appears on the touch screen and the duration stops counting. The **ResumeREC** soft key appears on the LCD screen. Both you and other parties are not recorded.
Tap the **ResumeREC** soft key to continue recording.
- Tap the **More** soft key, and then tap the **StopREC** soft key. The **StartREC** soft key appears on the LCD screen. Recording stops and the LCD screen prompts "Call has been successfully recorded on USB device".



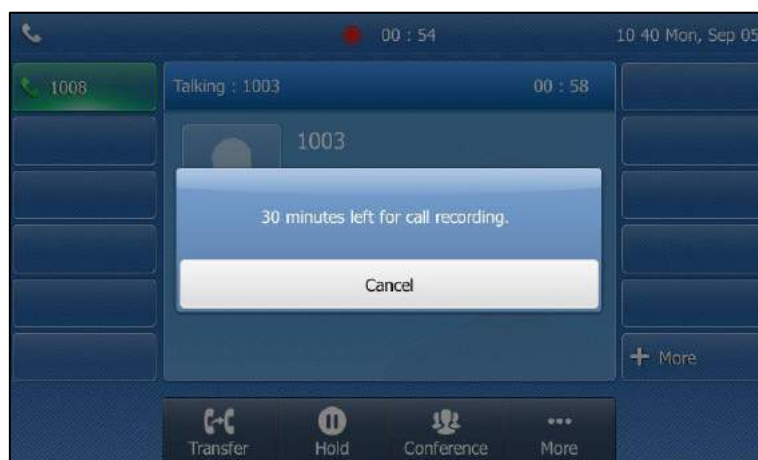
Tap the **StartREC** soft key to start recording again, the recording will be saved as a new ".wav" file.

- Press  or tap the **Hold** soft key while recording, recording is paused. Then  appears on the touch screen and the duration stops counting. Both you and the callee are not recorded.

Tap the **Resume** soft key to resume the call, the recording is continued.

- Press  while recording, the muted party is not recorded.

- If there is insufficient free space (30 minutes left) on the USB flash drive during recording, the LCD screen prompts the following:



Tap **Cancel** to return to the previous screen.

- If there is insufficient free space (10 minutes left) on the USB flash drive during recording, the LCD screen prompts the following:



Tap the **Cancel** soft key to return to the previous screen.

If no free space of the USB flash drive during recording, recording is stopped and saved on the USB flash drive automatically. The related soft keys during recording disappear. You cannot record a call unless the space of your USB flash drive is released.

Note

You can transfer or set up a conference call while recording. All the calls are recorded in the same way and will be saved in as a ".wav" file.

When you end a call while recording, the recording will be stopped and saved as *.wav file on the USB flash drive automatically.

To stop recording while the phone records, do one of the following:

- Tap the **More** soft key, and then tap the **StopREC** soft key.

The LCD screen prompts "Call has been successfully recorded on USB device", the recording icon and recording duration disappear.



- Tap the **More** soft key and then tap the **End Call** soft key.

The LCD screen prompts "Call has been successfully recorded on USB device", the recording icon and recording duration disappear, and the phone returns to the idle screen.



Note Unplugging the USB flash drive during a recording call will stop call recording, the recording will be saved on the USB flash drive automatically.

Playing Back Recorded Calls

You can play back recorded calls on your phone. You can also browse and delete the recorded files on the USB flash drive.


Note Playback can occur on either the phone itself or on a computer using an application capable of playing ".wav" files.

To browse the recorded files:

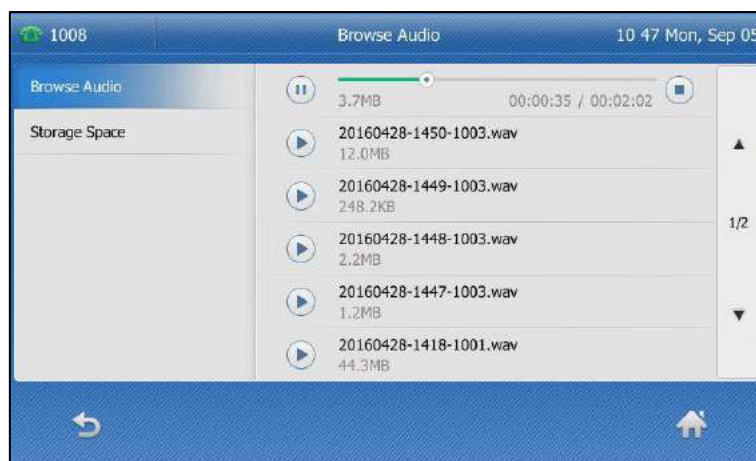
1. Tap  -> **USB->Browse Audio**.

The touch screen shows all recorded audio files in the **Browse Audio** list. The filename consists of the recording time & date, the other party's number/IP address/name (or the first person's number/IP address/name you called).








2. Tap ▲ or ▼ to scroll through the recorded files if required.
3. Tap the desired audio or  to play.


The touch screen shows the recording duration and the size of the recorded file.



During the recording playback, you can do the following:



- Tap  to pause the playback. Then  appears on the touch screen. Tap  to continue the playback.
- Drag the slider to skip forward the playback or rewind the playback.
- Press  to adjust the volume of audio output.
- Tap  to stop the playback.
- Press the Speakerphone key, the HEADSET key, or pick up the handset to alternate among

Speakerphone, Headset and Handset modes.

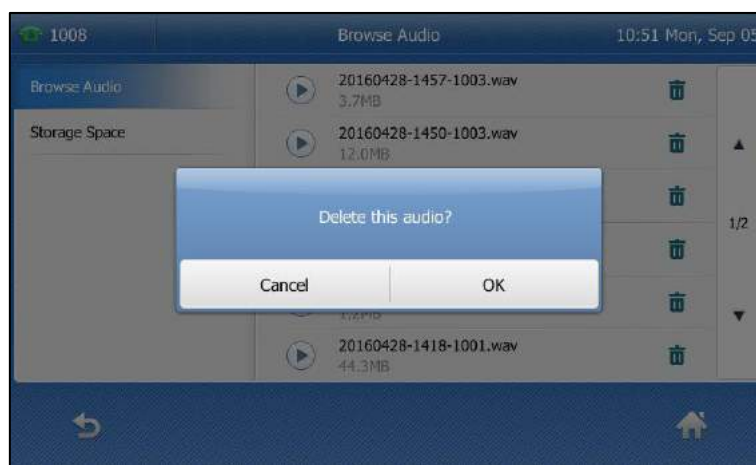
If you are playing back a recorded call and an incoming call arrives on your phone, the playback will be paused and the phone rings. You can tap  again to continue to play the recording when ending the call.

Deleting the Recorded File

To delete a recorded file:

1. Tap  -> **USB**-> **Browse Audio**.
2. Tap  after the desired recording you want to delete.

The LCD screen prompts the following warning:



3. Tap **OK** to confirm the deletion or **Cancel** to cancel.

Viewing the Storage Space

You can view the storage space (e.g., total space, used space, free space) of the USB flash drive on the phone.

To view the storage space:

1. Tap  -> **USB->Storage Space**.



Recording Using a Record Key

You can record calls by tapping a record key on the phone. The SIP-T48S IP phone supports record and URL record.

Two ways of call recording:

- **Record:** The phone sends a SIP INFO message containing a specific header "Record: on/off" to trigger a recording.
- **URL Record:** The phone sends an HTTP URL request to trigger a recording. Contact your system administrator for the predefined URL.

Note

Server recording is not available on all servers. Contact your system administrator for more information.

The Record and URL Record keys control the recording function, and are available:


- During an active call
- When calls are on hold or muted
- During a blind or attended transfer
- During a conference call

The Record and URL Record keys are not available when:

- There are no connected calls on your phone
- You place a new call

Configuring a Record Key

To configure a record key via phone user interface:

1. Tap  -> **Features**->**DSS Keys**.
2. Tap the desired line key.
3. Tap the gray box of the **Type** field, and then select **Key Event** from the pull-down list.
4. Tap the gray box of the **Key Type** field, and then select **Record** from the pull-down list.
5. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.




6. Tap the **Save** soft key to accept the change or  to cancel.

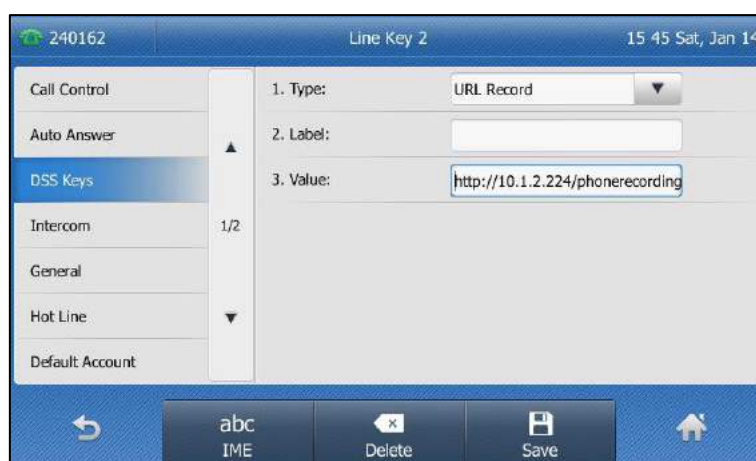
Record key is configurable via web user interface at the path **Dsskey**->**Line Key**.

Configuring a URL Record Key

To configure a URL record key via phone user interface:

1. Tap  -> **Features**->**DSS Keys**.
2. Tap the desired line key.
3. Tap the gray box of the **Type** field, and then select **URL Record** from the pull-down list.
4. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.

5. Enter the URL (e.g., <http://10.1.2.224/phonerecording.cgi>) in the **Value** field.





6. Tap the **Save** soft key to accept the change or  to cancel.






URL record key is configurable via web user interface at the path **Dsskey->Line Key**.

Recording a Call

To record a call:

1. Tap the record key or URL record key during a call.
If the recording starts successfully, the recording icon will appear on the touch screen and the icon of the record key or URL Record key changes to .
2. Tap the record key or URL record key again to stop recording.
The recording icon disappears from the touch screen and the icon of the record key or URL record key changes to .

Recording status indicators you need to know:

Circumstance	Icons on the touch screen
A recording is started	 appears on the touch screen
A recording cannot be started	 appears for 1 second
A recording cannot be stopped	 appears for 1 second, then goes back
The recording box is full	 appears for 1 second
The call cannot be recorded	 appears for 1 second

You can listen to the recordings stored on your server system. For example, you can dial an access code to listen to the recordings.

Note

The way in which you listen to the recordings may be different depending on the server. Contact your system administrator for more information.

Hot Desking


Hot desking originates from the definition of being the temporary physical occupant of a work station or surface by a particular employee. A primary motivation for hot desking is cost reduction. This feature is regularly used in places where not all the employees are in the office at the same time, or not in the office for very long, which means that actual personal offices would be often vacant, consuming valuable space and resources.

You can use hot desking on the SIP-T48S IP phone to log out of existing accounts and then log into a new account. As a result, many users can share the phone resource at different times. To use this feature, you need to configure a hot desking key in advance.

Note

Hot desking is not available on all servers. Contact your system administrator for more information.

To configure a hot desking key via phone user interface:

1. Tap  -> **Features**->**DSS Keys**.
2. Tap the desired line key.
3. Tap the gray box of the **Type** field, and then select **Key Event** from the pull-down list.
4. Tap the gray box of the **Key Type** field, and then select **Hot Desking** from the pull-down list.
5. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.



6. Tap the **Save** soft key to accept the change or  to cancel.

Hot desking key is configurable via web user interface at the path **Dsskey**->**Line Key**.

To use hot desking:

1. Tap the hot desking key when the phone is idle.

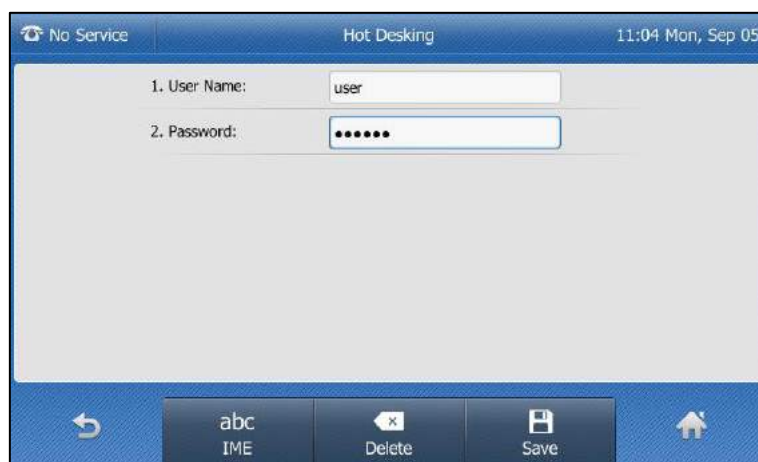
The touch screen prompts the following warning:




2. Tap **OK**.

Registration configurations of all accounts on the phone will be cleared immediately.

The login wizard will be displayed as below:



3. Enter the login information in each field.
4. Tap the **Save** soft key to login or  to cancel.

Intercom


Intercom is a useful feature in an office environment to quickly connect with the operator or the secretary. You can tap the intercom key to automatically connect with a preconfigured target extension for outgoing intercom calls, and the target extension will automatically answer incoming intercom calls by default. You can also use intercom key to monitor a specific line for status changes on the phone.

Note Intercom is not available on all servers. Contact your system administrator for more information.

Configuring the Intercom Feature on the IP Phone

Configuring an Intercom Key

To configure an intercom key via phone user interface:

1. Tap  -> **Features**->**DSS Keys**.
2. Tap the desired line key.
3. Tap the gray box of the **Type** field, and then select **Intercom** from the pull-down list.
4. Tap the gray box of the **Account ID** field, and then select the desired line from the pull-down list.
5. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.
6. Enter the target extension number in the **Value** field.
7. (Optional.) Enter the directed call pickup code in the **Extension** field.

If it is configured, when the target extension receives an incoming call, the supervisor can tap the intercom key to pick up the call directly. Contact your system administrator for more information.



8. Tap the **Save** soft key to accept the change or  to cancel.

Intercom key is configurable via web user interface at the path **Dsskey->Line Key**.

Incoming Intercom Calls

The SIP-T48S IP phone supports to automatically answer an incoming intercom call by default. The phone automatically plays a warning tone when it receives an incoming intercom call. In addition, you can enable the phone to mute the microphone when it automatically answers an incoming intercom call. You can also enable the phone to automatically answer an incoming intercom call while there is already an active call on the phone. The active call is then placed on hold.

Intercom features you need to know:

Intercom Feature	Description
Intercom Allow	Enable or disable the IP phone to automatically answer an incoming intercom call.
Intercom Mute	Enable or disable the IP phone's microphone for intercom calls.
Intercom Tone	Enable or disable the IP phone to play a warning tone when it receives an incoming intercom call.
Intercom Barge	Enable or disable the IP phone to automatically answer an incoming intercom call while there is already an active call on the phone.

Intercom Allow

You can enable or disable the phone to automatically answer an incoming intercom call. If Intercom Allow is enabled, the phone will automatically answer an incoming intercom call. If Intercom Allow is disabled, the phone will handle an incoming intercom call like a normal call instead of directly rejecting it. Intercom Allow is enabled by default.

Note

Your administrator can set a period of delay time before the phone automatically answers intercom calls. Contact your system administrator for more information.

Intercom Mute

You can mute or un-mute the phone's microphone for intercom calls automatically. If Intercom Mute is enabled, the microphone will be muted for intercom calls. If Intercom Mute is disabled, the microphone will work for intercom calls. Intercom Mute is disabled by default.

Intercom Tone

You can enable or disable the phone to play a warning tone when receiving an intercom call. If Intercom Tone is enabled, the phone will play a warning tone before answering the intercom call. If Intercom Tone is disabled, the phone will automatically answer the intercom call without warning. Intercom Tone is enabled by default.


Intercom Barge

You can enable or disable the phone to automatically answer an incoming intercom call while there is already an active call on the phone. If Intercom Barge is enabled, the phone will automatically answer the intercom call and place the active call on hold. If Intercom Barge is disabled, the phone will handle an incoming intercom call like a waiting call. Intercom Barge is disabled by default.

Note

To enable the phone to receive a new incoming call when it has an active call, make sure that call waiting feature is enabled on the phone in advance. For more information, refer to [Call Waiting](#) on page 167.

To configure intercom features via phone user interface:

1. Tap  -> **Features**->**Intercom**.
2. Make the desired changes.



3. Tap the **Save** soft key to accept the change or  to cancel.

Intercom features are configurable via web user interface at the path **Features**->**Intercom**.

Using Intercom

You can use the intercom key in the following ways:

- Place a call to the target extension
- Pick up an incoming call of the target extension

Note

To use the intercom key to pick up an incoming call, make sure the intercom subscription feature is enabled. For more information, contact your system administrator.

Placing an Intercom Call to the Target Extension


To place an intercom call when the target phone is idle:

1. Tap the intercom key.

The target extension plays a warning tone and automatically answers the call in the hands-free (speakerphone) mode by default.

2. To end the intercom call, tap the intercom key again or the **End Call** soft key.

Picking up an Incoming Call of the Target Extension

When the target extension receives an incoming call, the intercom key icon of the target extension will change to . If you configure the directed call pickup code in advance, you can pick up the target extension's incoming call by tapping the intercom key. You can configure the directed call pickup code when configuring an intercom key. For more information, refer to [Configuring an Intercom Key](#) on page 207.

To pick up an incoming call when the target phone is ringing:

1. Tap the intercom key.

The incoming call of the target extension is answered on the IP phone.

Note

If the directed call pickup code is not configured, the phone will place a call to the target extension instead of picking up an incoming call of the target extension when you tap the intercom key.

Multicast Paging

You can use multicast paging to quickly and easily broadcast time sensitive announcements to users who are listening to a specific multicast group and a specific channel. You can configure a multicast paging key or the paging list key on the phone, which allows you to send a Real Time Transport Protocol (RTP) stream to the pre-configured multicast address(es) and channel(s) without involving SIP signaling. You can configure the phone to receive an RTP stream from pre-configured multicast listening address(es) and channel(s) without involving SIP signaling. You can specify up to 31 multicast listening addresses and channels.

The following describes 31 paging channels:


- **0:** You can broadcast audio to channel 0. Note that the Yealink IP phones running old firmware version (old paging mechanism) can be regarded as listening to channel 0. It is the default channel.
- **1 to 25:** You can broadcast audio to a specific channel. We recommend that you specify these channels when broadcasting with Polycom IP phones which have 25 channels you can listen to.
- **26 to 30:** You can broadcast audio to a specific channel. We recommend that you specify these channels when broadcasting with Yealink IP phones running new firmware version

(new paging mechanism).

The IP phones will automatically ignore all incoming multicast paging calls on the different channel.

Sending RTP Stream

To configure a multicast paging key via phone user interface:


1. Tap  -> **Features**->**DSS Keys**.
2. Tap the desired line key.
3. Tap the gray box of the **Type** field, and then select **Key Event** from the pull-down list.
4. Tap the gray box of the **Key Type** field, and then select **Multicast Paging** from the pull-down list.
5. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.
6. Enter the multicast IP address and port number (e.g., 224.5.6.20:10008) in the **Value** field.
The valid multicast IP addresses range from 224.0.0.0 to 239.255.255.255.
7. Enter the desired channel in the **Channel** field.
The valid channel ranges from 0 to 30.



8. Tap the **Save** soft key to accept the change or  to cancel.

Multicast paging key is configurable via web user interface at the path **Dsskey->Line Key**.

To configure a paging list key via phone user interface:


1. Tap  -> **Features**-> **DSS Keys**.
2. Tap the desired line key.
3. Tap the gray box of the **Type** field, and then select **Key Event** from the pull-down list.
4. Tap the gray box of the **Key Type** field, and then select **Paging List** from the pull-down list.
5. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.



6. Tap the **Save** soft key to accept the change or  to cancel.

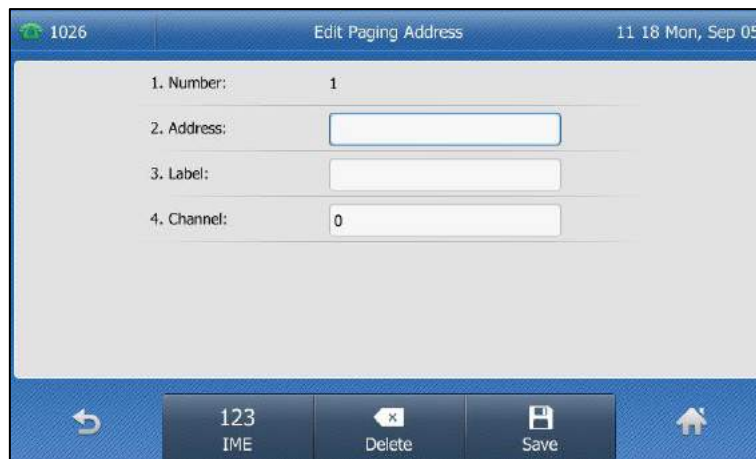
Paging list key is configurable via web user interface at the path **Dsskey->Line Key**.

To configure paging list via phone user interface:

1. Tap the paging list key when the phone is idle.
If the paging list key is not configured, you can also tap  -> **Features**-> **Paging List** to configure the paging list.
2. Tap a desired paging group.
The default tag is Empty if it is not configured before.



3. Tap the **Edit** soft key.



4. Enter the multicast IP address and port number (e.g., 224.5.6.20:10008) in the **Address** field.

The valid multicast IP addresses range from 224.0.0.0 to 239.255.255.255.

5. Enter the string that will appear on the touch screen in the **Label** field
6. Enter the desired channel in the **Channel** field.

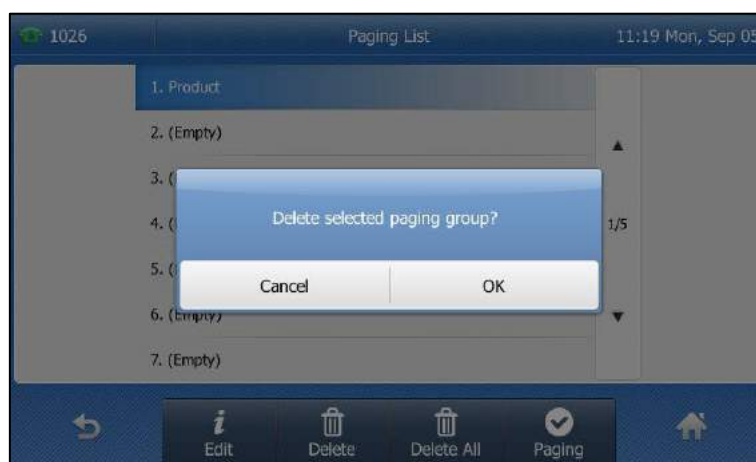
The valid channel ranges from 0 to 30.

7. Tap the **Save** soft key to accept the change.
8. Repeat steps 2 to 7, you can add more paging groups.

Paging list is configurable via web user interface at the path **Directory->Multicast IP**.

To delete a paging group via phone user interface:

1. Tap the paging list key when the phone is idle.
2. Tap a desired paging group.
3. Tap the **Delete** soft key.



4. Tap **OK** to accept the change or **Cancel** to cancel.

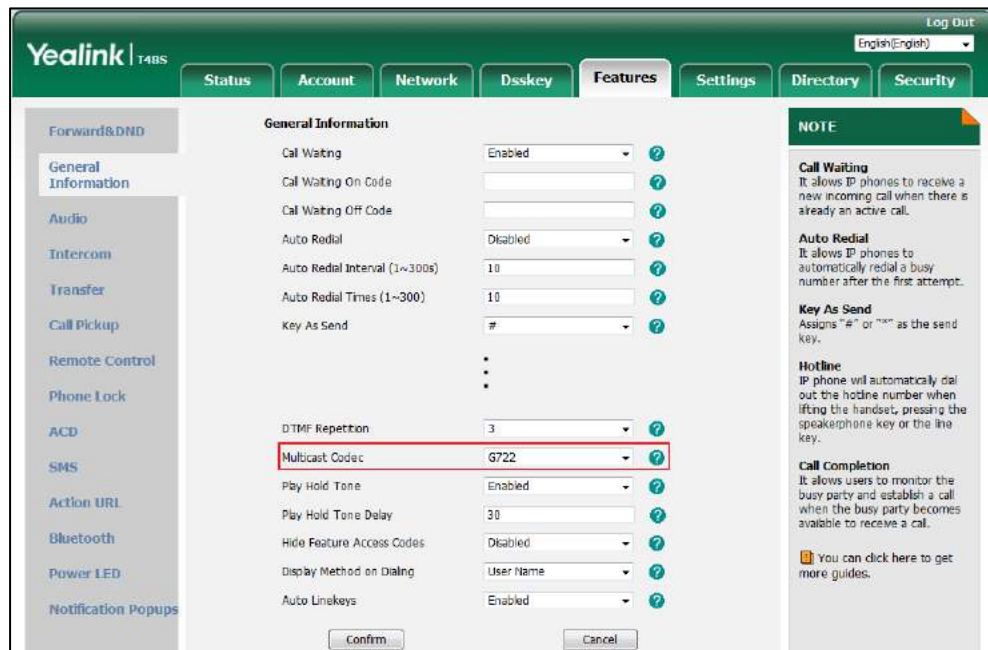
If you want to delete all paging groups, you can tap the **Delete All** soft key.

You can also configure the phone to use a default codec for sending multicast RTP stream via web user interface.

To configure a default codec for multicast paging via web user interface:


1. Click on **Features->General Information**.
2. Select the desired codec from the pull-down list of **Multicast Codec**.

The default codec is G722.



3. Click **Confirm** to accept the change.

Note

If G722 codec is used for multicast paging, the touch screen will display the icon  to indicate that it is providing high definition voice.

Default codec for multicast paging is configurable via web user interface only.

Receiving RTP Stream

You can configure the phone to receive a Real Time Transport Protocol (RTP) stream from the pre-configured multicast address(es) and channel(s) without involving SIP signaling. You can specify up to 31 multicast addresses and channels that the phone listens to on the network.

Note

RTP stream is listened in the hands-free (speakerphone) mode by default. If you want to listen the RTP stream using the engaged audio device (speakerphone, handset or headset), contact your system administrator for more information.

Fixed volume to play RTP stream for specified paging group is configurable by your system administrator.

How the phone handles incoming multicast paging calls depends on Paging Barge, Ignore DND and Paging Priority Active parameters configured via web user interface.

Paging Barge

The paging barge parameter defines the priority of the voice call in progress. If the priority of an incoming multicast paging call is lower than that of the active call, it will be ignored automatically. Valid values in the Paging Barge field:

- **1 to 31:** Define the priority of the active call, 1 with the highest priority, 31 with the lowest.
- **Disabled:** The voice call in progress will take precedence over all incoming paging calls.

Ignore DND

The ignore DND parameter defines the lowest priority of multicast listening address from which the phone can receive an RTP stream when DND is activated. If a priority is selected from the pull-down list of Ignore DND, the phone will ignore incoming multicast paging calls with lower priorities when DND is activated in phone mode. Valid values in the Ignore DND field:

- **1 to 31:** Define the lowest priority of the multicast listening address from which the phone can receive an RTP stream, 1 with the highest priority, 31 with the lowest.
- **Disabled:** All the incoming multicast paging calls will be ignored when DND is activated in phone mode.

The phone will automatically answer all incoming multicast paging calls when DND is activated in custom mode.

Paging Priority Active

The paging priority active parameter decides how the phone handles incoming multicast paging calls when there is already a multicast paging call on the phone. If enabled, the phone will ignore incoming multicast paging calls with lower priorities, otherwise, the phone will answer incoming multicast paging calls automatically and place the previous multicast paging call on hold. If disabled, the phone will automatically ignore all incoming multicast paging calls.

To configure multicast listening addresses via web user interface:

1. Click on **Directory->Multicast IP**.
2. Select the desired value from the pull-down list of **Paging Barge**.
3. Select the desired value from the pull-down list of **Ignore DND**.
4. Select the desired value from the pull-down list of **Paging Priority Active**.
5. Enter the multicast IP address(es) and port number (e.g., 224.5.6.20:10008) which the phone listens to for incoming RTP multicast in the **Listening Address** field.
6. (Optional.) Enter the label in the **Label** field.
Label will appear on the touch screen when receiving the multicast RTP stream.
7. Select the desired channel to listen from the pull-down list of **Channel**.

The default channel is 0.

Multicast Listening

Paging Range: 31

Ignore DND: 31

Paging Priority Active: Enabled

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

NOTE
Multicast Paging
 Multicast paging allows IP phones to send/receive Real-time Transport Protocol (RTP) streams to/from the pre-configured multicast address(es) without involving SIP signaling. Up to 10 listening multicast addresses can be specified on the IP phone.
 You can click here to get more guides.

- Click **Confirm** to accept the change.

Note

The priorities of listening addresses are predefined: 1 with the highest priority, 31 with the lowest. Multicast listening addresses are configurable via web user interface only.

Using Multicast Paging

To send RTP stream via a multicast paging key when the receiver's phone is idle:

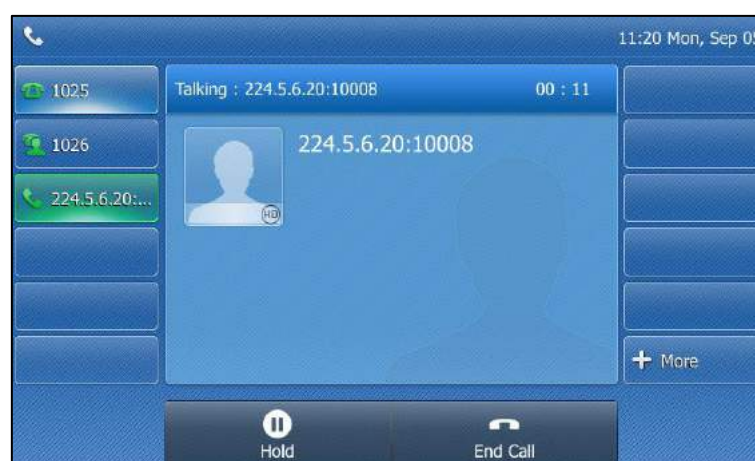
- Tap the multicast paging key when the phone is idle.

The phone sends RTP to a preconfigured multicast address (IP: Port).

Both the sender's and receiver's phones play a warning tone and the receiver automatically answers the multicast RTP session in the hands-free (speakerphone) mode.

The multicast paging key icon indicator will become  and solid.

The following figure shows a multicast RTP session on the phone:



2. You can do the following:

- Tap the **Hold** soft key to place the current multicast RTP session on hold.
The sender's phone places the multicast RTP session on hold and receiver's phone releases the session.
To resume the held multicast RTP session, tap the **Resume** soft key.
The multicast RTP session is established again.
- Tap the **End Call** soft key to end the multicast RTP session.

Note

Multicast RTP is one way only from the sender to the multicast address(es) (receiver). For outgoing RTP multicasts, all other existing calls on the phone will be placed on hold.

To send RTP stream via a paging key list when the receiver's phone is idle:

1. Tap the paging list key when the phone is idle.
2. Tap the desired paging group.



3. Tap the **Paging** soft key to send RTP.
4. You can do the following:
 - Tap the **Hold** soft key to place the current multicast RTP session on hold.
The sender's phone places the multicast RTP session on hold and receiver's phone releases the session.
To resume the held multicast RTP session, tap the **Resume** soft key.
The multicast RTP session is established again.
 - Tap the **End Call** soft key to end the multicast RTP session.

Music on Hold (MoH)

Music on hold (MoH) is the business practice of playing recorded music to fill the silence that

would be heard by the party placed on hold. To use this feature, you should specify a SIP URI pointing to a Music on Hold Server account. When a call is placed on hold, the phone will send a SIP INVITE message to the Music on Hold Server account. The Music on Hold Server account automatically answers the SIP INVITE messages and immediately plays audio from some source located anywhere (LAN, Internet) to the held party. Contact your system administrator for the SIP URI.

Note

If your server supports the MOH feature, you can also upload the custom music file into it directly. For more information, contact your service provider.

To configure music on hold server via web user interface:

1. Click on **Account**->**Advanced**.
2. Select the desired account from the pull-down list of **Account**.
3. Enter the SIP URI (e.g., sip:moh@sip.com) in the **Music Server URI** field.

4. Click **Confirm** to accept the change.

When you place a call on hold, music will be played to the held party.

Note

For this feature to function, all involved parties cannot use encrypted RTP (SRTP). Music on hold server is configurable via web user interface only.

Automatic Call Distribution (ACD)


ACD is often used in offices for customer service, such as call center. The ACD system handles large volumes of incoming calls from callers who have no need to talk to a specific person but who require assistance from any of multiple persons at the earliest opportunity. ACD on the

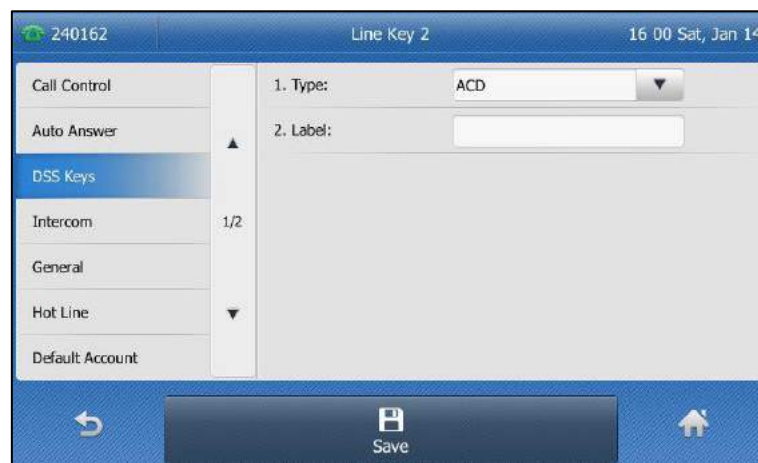
SIP-T48S IP phone allows the ACD system to distribute large volumes of incoming calls to the registered ACD users. To use this feature, you should configure an ACD key in advance. For more information on ACD key icon indicators, refer to [Icon Instructions](#) on page 3.

Note

Make sure ACD is enabled on your IP phone. For more information, contact your system administrator.

To configure an ACD key via phone user interface:

1. Tap  -> **Features**->**DSS Keys**.
2. Tap the desired line key.
3. Tap the gray box of the **Type** field, and then select **ACD** from the pull-down list.
4. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.



5. Tap the **Save** soft key to accept the change or  to cancel.

ACD key is configurable via web user interface at the path **Dsskey**->**Line Key**.

To log into the ACD system:

1. Tap the ACD key when the phone is idle.

The touch screen prompts you the following information:

User ID: the identity used to log into the queue.

Password: the password used to log into the queue.





2. Tap the **Login** soft key to log in.

Note

Contact your system administrator for the User ID and Password to access the ACD system.

After configuring an ACD key, you can tap the ACD key to log into the ACD system. After logging in, you are ready to receive calls from the ACD system. You can tap the ACD key to show your current ACD user status. You can tap the **Available/Unavailable** soft key to change your ACD user status. ACD user status synchronizes on both IP phone and ACD system.

When you set the ACD user status to be available, the ACD key icon indicator will become  and solid, and then the server begins distributing calls to your IP phone.

When you set the ACD user status to be unavailable, the ACD key icon indicator will become  and flashing, and then the server temporarily stops distributing calls to your IP phone. To log out of the ACD system, tap the **Logout** soft key.

Note

It is recommended you configure no more than one ACD key per phone. At any time, at most one ACD key can be in progress on your phone.

Shared Call Appearance (SCA)

You can use SCA feature to share an extension which can be registered on two or more IP phones at the same time. The shared line is indicated by a different line icon.

In the following figure, the first line is private and the second line is shared:

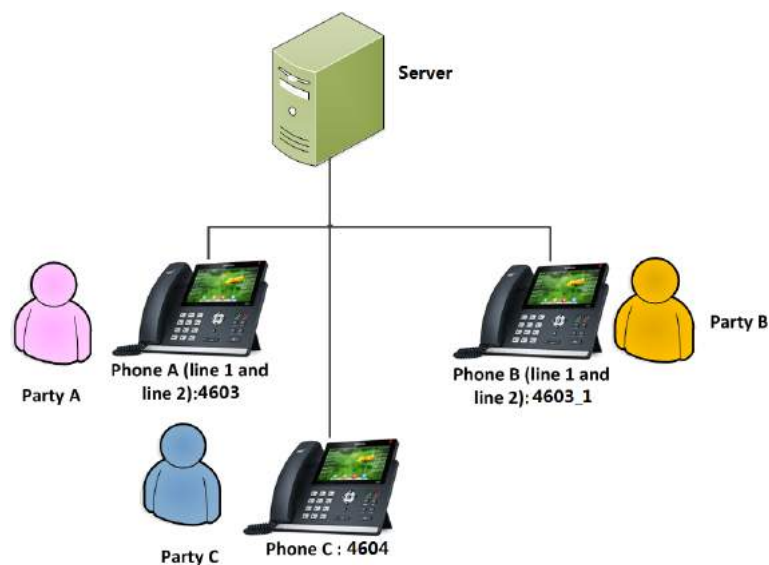


If two phones share a line, an incoming call to this extension will cause both phones to ring simultaneously. The incoming call can be answered on either phone but not both.

This feature is very useful in the boss and secretary scenario. For example, the secretary can share the boss's extension on her phone. When there is an incoming call to the extension of the boss, both the phones of the boss and the secretary will ring simultaneously. Either the boss or the secretary can answer the call. Calls on the shared line can be placed on hold, barged in or retrieved from another shared phone.

Configuring SCA Feature on the IP Phone

You can configure a primary account on the IP phone and other alternate accounts on the other IP phones. In a SCA Hybrid Key System scenario, you can automatically assign multiple DSS keys with Line type for a registered shared line on the phone (If auto linekeys feature is enabled). For example, party A, party B share the account 4603, phone A registers the primary account 4603 and assigns line key 1 and line key 2 for the account 4603, phone B registers the alternate account 4603_1 and assigns line key 1 and line key 2 for the account 4603_1, phone C registers the account 4604.



To configure the auto linekeys feature via web user interface:

1. Click on **Features->General Information**.
2. Select **Enabled** from the pull-down list of **Auto LineKeys**.

If **Auto LineKeys** is enabled, you can automatically assign multiple DSS keys with Line type for a registered shared line on the phone.

Yealink T48S | Log Out | English(English)

Features

General Information

Call Waiting	Enabled
Call Waiting On Code	
Call Waiting Off Code	
Auto Redial	Disabled
Auto Redial Interval (1~300s)	10
Auto Redial Times (1~300)	10
Key As Send	#
DTMF Repetition	3
Multicast Codec	G722
Play Hold Tone	Enabled
Play Hold Tone Delay	30
Hide Feature Access Codes	Disabled
Display Method on Dialing	User Name
Auto Linekeys	Enabled

NOTE

Call Waiting
It allows IP phones to receive a new incoming call when there is already an active call.

Auto Redial
It allows IP phones to automatically redial a busy number after the first attempt.

Key As Send
Assigns "#" or "*" as the send key.

Hotline
IP phone will automatically dial out the hotline number when lifting the handset, pressing the speakerphone key or the line key.

Call Completion
It allows users to monitor the busy party and establish a call when the busy party becomes available to receive a call.

You can click here to get more guides.

- Click **Confirm** to accept the change.

To configure the shared line settings and the number of line key on phone A via web user interface:

- Register the primary account 4603.

Yealink T48S | Log Out | English(English)

Account

Account 1

Register Status: Registered

SIP Server 1

Line Active	Enabled
Label	4603
Display Name	4603
Register Name	4603
User Name	4603
Password	*****
Server Host	pbx.example.com
Port	5060
Transport	UDP
Server Expires	3600
Server Retry Counts	3
Enable Outbound Proxy Server	Enabled
Outbound Proxy Server 1	10.1.8.11
Port	5060
Outbound Proxy Server 2	
Port	5060
Proxy Fallback Interval	3600
NAT	Disabled

SIP Server 2

Server Host	
Port	5060
Transport	UDP
Server Expires	3600
Server Retry Counts	3

NOTE

Account Registration
Registers account(s) for the IP phone.

Server Redundancy
It is often required in VoIP deployments to ensure continuity of phone service, for events where the server needs to be taken offline for maintenance, the server fails, or the connection between the IP phone and the server fails.

NAT Traversal
A general term for techniques that establish and maintain IP connections traversing NAT gateways. STUN is one of the NAT traversal techniques.

You can configure NAT traversal for this account.

You can click here to get more guides.

- Click on **Advanced**, and then select **Shared Call Appearance** from the pull-down list of **Shared Line**.

- Enter the desired number in the **Number of line key** field.

This field appears only if **Auto Linekeys** is enabled.

The default value is 1. In this example, the value is set to 2.

The screenshot shows the Yealink T48S web interface. The 'Account' tab is active, and the 'Advanced' sub-tab is selected. The 'Shared Line' dropdown menu is set to 'Shared Call Appearance'. The 'Number of line key' field is set to 2. The 'Confirm' button is highlighted. The 'NOTE' section on the right contains information about DTMF, Session Timer, Busy Lamp Field/BLF List, Shared Call Appearance (SCA)/ Bridge Line Appearance (BLA), and Network Conference.

- Click **Confirm** to accept the change.

The phone A will automatically configure the line keys from the first unused DSS key, according to the configured number in the **Number of line key** field.

To configure the shared line settings and the number of line key on phone B via web user interface:

- Register the alternate account 4603_1.

(Enter the primary account 4603 in the **Register Name** field.)

Yealink T48S Log Out English(English)

Account Status Network Dsskey Features Settings Directory Security

Register Basic Codec Advanced

Account Account 1 ?

Register Status Registered

SIP Server 1 ?

Line Active Enabled ?

Label 4603_1 ?

Display Name 4603_1 ?

Register Name 4603 ?

User Name 4603_1 ?

Password ***** ?

Server Host pbx.example.com Port 5060 ?

Transport UDP ?

Server Expires 3600 ?

Server Retry Counts 3 ?

SIP Server 2 ?

Server Host Port 5060 ?

Transport UDP ?

Server Expires 3600 ?

Server Retry Counts 3 ?

Enable Outbound Proxy Server Enabled ?

Outbound Proxy Server 1 10.1.8.11 Port 5060 ?

Outbound Proxy Server 2 Port 5060 ?

Proxy Fallback Interval 3600 ?

NAT Disabled ?

Confirm Cancel

NOTE

Account Registration
Registers account(s) for the IP phone.

Server Redundancy
It is often required in VoIP deployments to ensure continuity of phone service, for events where the server needs to be taken offline for maintenance, the server fails, or the connection between the IP phone and the server fails.

NAT Traversal
A general term for techniques that establish and maintain IP connections traversing NAT gateways. STUN is one of the NAT traversal techniques.

You can configure NAT traversal for this account.

You can click here to get more guides.

- Click on **Advanced**, and then select **Shared Call Appearance** from the pull-down list of **Shared Line**.
- Enter the desired number in the **Number of line key** field.
This field appears only if **Auto Linekeys** feature is enabled.
The default value is 1. In this example, the value is set to 2.

Yealink T48S Log Out English(English)

Account Status Network Dsskey Features Settings Directory Security

Register Basic Codec Advanced

Account Account 1 ?

Keep Alive Type Default ?

Keep Alive Interval(Seconds) 30 ?

RPort Disabled ?

BLF List Retrieve Call Parked Code ?

Shared Line Shared Call Appearance ?

Call Pull Feature Access Code *11 ?

Dialog Info Call Pickup Disabled ?

Distinctive Ring Tones Enabled ?

Unregister When Reboot Disabled ?

Out Dialog BLF Disabled ?

VQ RTP-XXR Collector name ?

VQ RTP-XXR Collector address ?

VQ RTP-XXR Collector port 5060 ?

Number of line key 2 ?

Confirm Cancel

NOTE

DTMF
It is the signal sent from the IP phone to the network, which is generated when pressing the IP phone's keypad during a call.

Session Timer
It allows a periodic refresh of SIP sessions through a re-INVITE request, to determine whether a SIP session is still active.

Busy Lamp Field/BLF List
Monitors a specific extension/a list of extensions for status changes on IP phones.

Shared Call Appearance (SCA)/ Bridge Line Appearance (BLA)
It allows users to share a SIP line on several IP phones. Any IP phone can be used to originate or receive calls on the shared line.

Network Conference
It allows multiple participants (more than three) to join in a call.


- Click **Confirm** to accept the change.

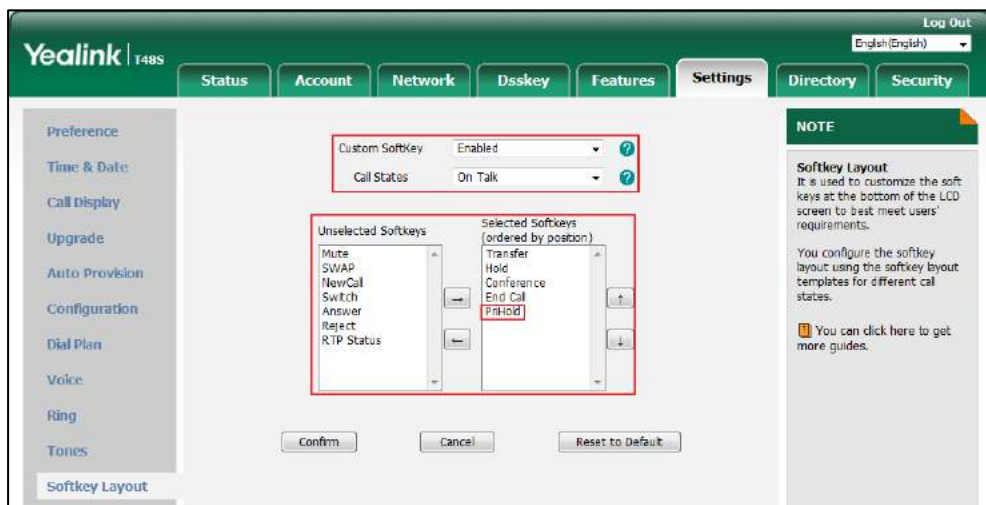
The phone B will automatically configure the line keys from the first unused DSS key, according to the configured number in the **Number of line key** field.

Configuring private hold soft key or private hold key

Public hold allows any shared line to retrieve the held call. Private hold only allows the hold party to retrieve the held call. For example, you can retrieve the held call on either phone A or phone B when you place a call on public hold; you can retrieve the held call only on phone A when you place a call on private hold on phone A. By default, the private hold soft key isn't displayed on the touch screen. You need to configure either the private hold soft key or a private hold key before you place the call on private hold.

To configure the private hold soft key via web user interface:

- Click on **Settings->Softkey Layout**.
- Select **Enabled** from the pull-down list of **Custom Softkey**.
- Select **On Talk** from the pull-down list of **Call States**.
- Select **PriHold** from the **Unselected Softkeys** column and then click  .
The **PriHold** appears in the **Selected Softkeys** column.




- Click **Confirm** to accept the change.

Note

Configuring the private hold soft key may affect the softkey layout in the Talking state. Contact your administrator for more information.

To configure a private hold key via phone user interface:

- Tap  -> **Features->DSS Keys**.
- Tap the desired line key.
- Tap the gray box of the **Type** field, and then select **Key Event** from the pull-down list.

4. Tap the gray box of the **Key Type** field, and then select **Private Hold** from the pull-down list.
5. (Optional.) Enter the string that will appear on the touch screen in the **Label** field.



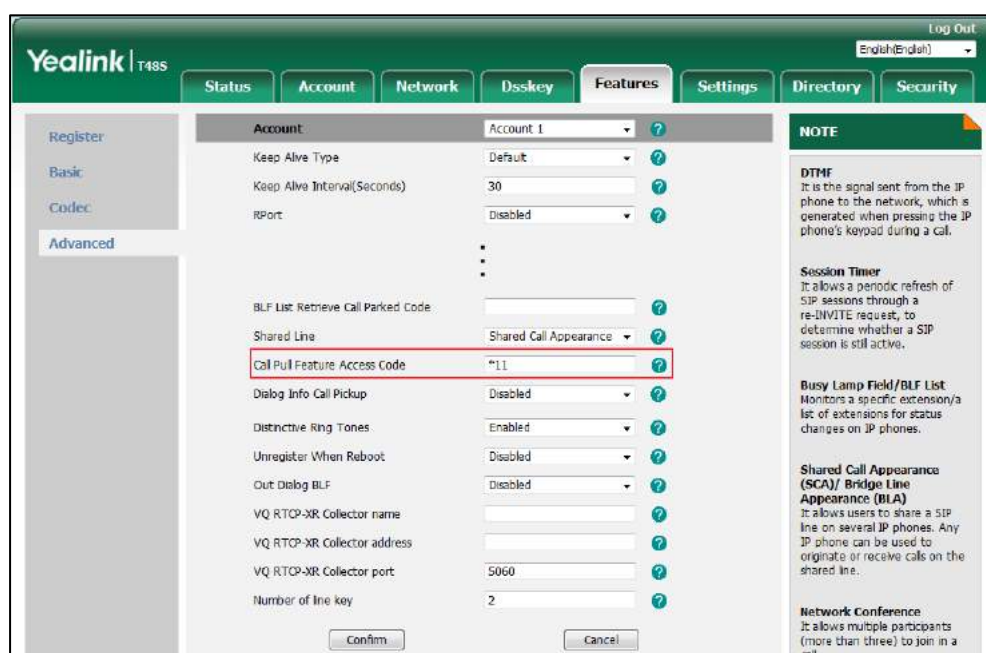
6. Tap the **Save** soft key to accept the change or the back arrow to cancel.

Configuring call pull feature

Call pull feature allows users to retrieve an existing call from another shared phone that is in active or public hold status.

To configure the call pull feature access code via web user interface:

1. Click on **Account->Advanced**.
2. Select the desired account from the pull-down list of **Account**.
3. Enter the call pull feature access code (e.g., *11) in the **Call Pull Feature Access Code** field.



4. Click **Confirm** to accept the change.

The phone will dial out “*11” automatically when you tap the **Call Pull** soft key.

Using SCA Feature on the IP Phone

This section provides you with detailed information on using the SIP-T48S IP phone in a SCA Hybrid Key System scenario. In a SCA Hybrid Key System scenario, the status of the line key icon which associates with a shared line will change. For more information on line key icon indicators, refer to [Line Key Icons](#) on page 4.

You can do the following using the IP phone in a SCA Hybrid Key System scenario:



- Placing calls
- Answering calls
- Placing a call on hold
- Retrieving a held call
- Barging in an active call
- Call Pull

Placing Calls

You can have one call or multiple calls on the shared line.



To place a call on the shared line:

Do one of following:

- Enter the desired number using the keypad when the phone is idle. Press  ,  , or tap **Send**.

The phone will dial the entered number using the first line key.


- Tap the line key when the phone is idle to enter the dialing screen.

Enter the desired number using the keypad and then press  ,  , or tap **Send**.

The phone will dial the entered number using the selected line key.

To place multiple calls on the shared line:

You can have more than one call on the shared line. To place a new call when there is an active call on the line key 1 of phone A, do one of the following on phone A:

- Press  or tap the **Hold** soft key. The original call is placed on hold.

Tap the **New Call** soft key to enter the dialing screen.

Enter the desired number using the keypad.

Press  ,  , or tap **Send**.

Phone A will dial the entered number using the line key 2 automatically.

- Tap the line key. The original call is placed on hold.

Enter the desired number using the keypad.


Press  ,  , or tap **Send**.

Phone A will dial the entered number using the selected line key.







Answering Calls

You can have one call or multiple calls on the shared line. Incoming calls will be distributed evenly among the available line keys.


To answer a call on the shared line:

When an incoming call arrives on the shared line, the phone A and phone B will ring simultaneously, and the icon indicators of the line key 1 on both phone A and phone B will become  and flashing. You can answer the incoming call on either phone A or phone B but not both.

Do one of the following on phone A or phone B:

- Tap the line key 1,  ,  or tap the **Answer** soft key on phone A.
The icon indicators of the line key 1 on phone A and phone B will become  and solid.
- Tap the line key 1,  ,  or tap the **Answer** soft key on phone B.
The icon indicators of the line key 1 on phone A and phone B will become  and solid.

To answer multiple calls on the shared line:

An incoming call arrives on the shared line when there is an active call on phone A's line key 1. The icon indicators of the line key 2 on both phone A and phone B will become  and flashing. You can answer the incoming call on either phone A or phone B. The touch screen of phone A displays the information of the incoming call (e.g., "Incoming Call: pbx.yealink.com").






Note

Make sure call waiting feature is enabled on phone A. For more information, refer to [Call Waiting](#) on page 167.


Do one of the following on phone A:



- Tap the line key 2. Phone B stops ringing.
- Tap the **Answer** soft key. Phone B stops ringing.
- Tap the incoming call item.

Press  or tap the **Answer** soft key. Phone B stops ringing.

The incoming call is answered and the original call is placed on hold. The icon indicators of the line key 1 on phone A and phone B will become  and solid indicating that there is the held call on the line key 1. The icon indicators of the line key 2 on phone A and phone B will become  and solid indicating that there is an active call on the line key 2.

You can also answer the call on phone B. Do one of the following on phone B:

- Tap the line key 2. Phone A stops ringing.
- Press  or tap the **Answer** soft key. Phone A stops ringing.


The icon indicators of the line key 2 on phone A and phone B will become  and solid indicating that there is an active call on the line key 2. Meanwhile, the icon indicators of the line key 1 phone A and phone B will become  and solid indicating that there is the held call on the line key 1.

Note


If the number of incoming calls is greater than the configured line keys, the line keys will be used by sequence circulation.

Placing a Call on Hold

To place a call on public hold:

1. Press  or tap the **Hold** soft key on phone A when party A and party C are talking.




The icon indicators of line key 1 on phone A and phone B will become .

To place a call on private hold:

1. Tap the **PriHold** soft key or private hold key on phone A when there is an active call on the shared line (You may need to tap the **More** soft key to see the **PriHold** soft key).



The icon indicators of line key 1 on phone A will become  when the shared line call is placed on private hold.

Retrieving a Held Call

To retrieve a call placed on public hold:

You can retrieve the public held call on either phone A or phone B.


To retrieve the call on phone A:

1. Tap  , press  or tap the **Resume** soft key.

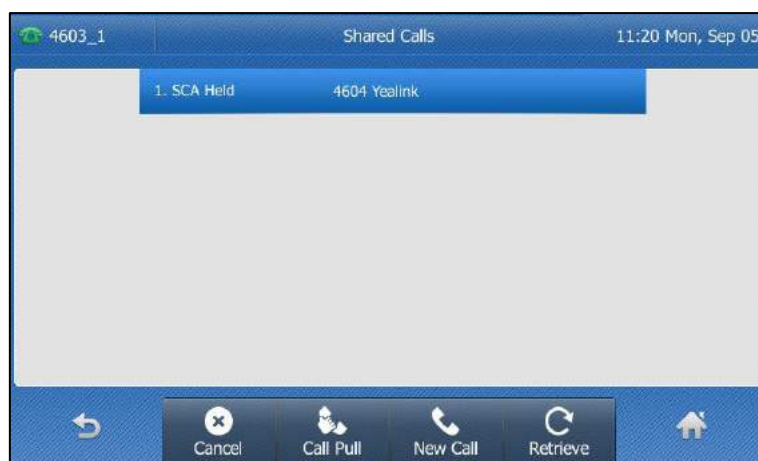
The conversation between phone A and phone C is retrieved.

To retrieve the call on phone B:


Do one of the following:

- Tap  .
- Long tap the desired line key.

The **Cancel**, **Call Pull**, **New Call** and **Retrieve** soft keys appear on the touch screen.





Tap the **Retrieve** soft key to retrieve the call.

The conversation is established between phone B and phone C, phone A disconnects the call. And the line key icon on phone A and phone B will become .

To retrieve a call placed on private hold:

The private held call can be only retrieved by the hold party (party A).

Do the following:

1. Tap , press  or tap the **Resume** soft key on phone A.
The conversation between phone A and phone C is retrieved.

Barging In an Active Call



To interrupt the active call on the shared line:

If phone A has only one active call, do the following:

1. Long tap the desired line key on phone B.

The **Cancel**, **Call Pull**, **New Call** and **Barge In** soft keys appear on the touch screen of phone B.



2. Tap the **Barge In** soft key to interrupt the active call of phone A.
Party B will set up a conference call with the other parties in the active call.
3. Press , tap the **Hold** soft key or the **End Call** soft key.
 - If any party in the conference call presses  or taps the **Hold** soft key, two-way voice can be heard between the remaining parties.
 - If party A or party B taps the **End Call** soft key, the remaining parties are still connected. If the other party (not the shared line party) taps the **End Call** soft key, the conference call is ended.

You can also tap the line key with the solid red icon indicator on phone B to set up a conference call with the other parties in the active call.

If phone A has more than one call, do the following:



1. Long tap the desired line key on phone B.
The list of calls appears on the touch screen of phone B.



2. Tap the item to select the active call.

The **Cancel**, **Call Pull**, **New Call** and **Barge In** soft keys appear when the active call is highlighted.



3. Tap the **Barge In** soft key to interrupt the active call of phone A.
Party B may hear a warning tone and then set up a conference call with the other parties of the active call.
4. Press , tap the **Hold** soft key or the **End Call** soft key.
 - If any party in the conference call presses , taps the **Hold** soft key, two-way voice can be heard between the remaining parties.
 - If party A or party B taps the **End Call** soft key, the remaining parties are still connected. If the other party (not the shared line party) taps the **End Call** soft key, the conference call is ended.

Call Pull

Call pull feature allows users to retrieve an existing call from another shared phone that is in active or hold status. For example, when there is a call between phone A and phone C, you can use call pull feature on phone B to retrieve this call from phone A. Then the call is established between phone B and phone C.

To retrieve a call from another shared phone:

If there is an active call between phone A and phone C, do the following:

1. Long tap the desired line key on phone B.

The **Cancel**, **Call Pull**, **New Call** and **Barge In** soft keys appear on the touch screen of phone B.



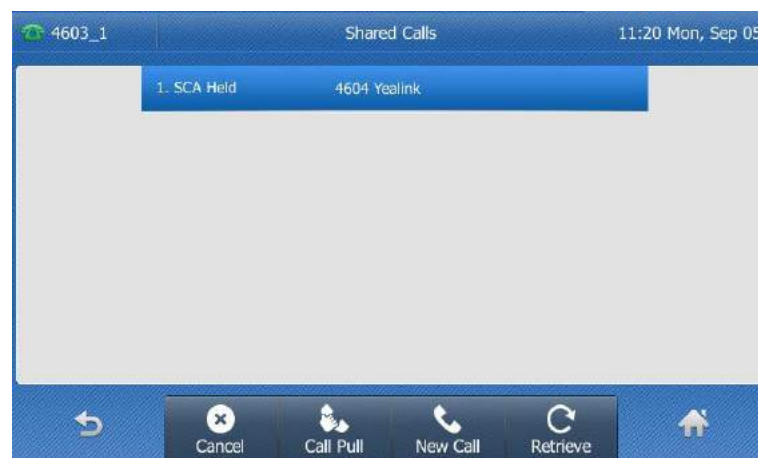
2. Tap the **Call Pull** soft key.

The active call has been retrieved from the phone A successfully.

If there is a held call between phone A and phone C, do the following:

1. Long tap the desired line key on phone B.

The **Cancel**, **Call Pull**, **New Call** and **Retrieve** soft keys appear on the touch screen of phone B.



2. Tap the **Call Pull** soft key.

The held call has been retrieved from the phone A successfully.

Bridged Line Appearance (BLA)

BLA allows users to share a SIP line on two or more IP phones. Users can monitor the specific extension (BLA number) for status changes on each IP phone. To use this feature, a BLA group should be pre-configured on the server and one of them is specified as a BLA number. BLA depends on support from a SIP server.

In the following figure, the first line is private and the second line is shared:



Any IP phone can be used to originate or receive calls on the bridged line. An incoming call to the BLA number can be presented to multiple phones in the group simultaneously. The incoming call can be answered on any IP phone of the group but not all.

Configuring BLA Feature on the IP Phone

You can share a BLA number on two or more phones. For example, phone A registers the account 14019833020 and assigns BLA number, phone B registers the account 10462190020 and assigns BLA number, phone C registers the account 14755608020. Phone A and phone B share the BLA number 14084588327.



To register an account and configure BLA feature on phone A via web user interface:

1. Register the account 14019833020.

The screenshot shows the Yealink T48S web interface with the 'Account' tab selected. The 'Register' section is active, showing fields for Line Active (Enabled), Label (14019833020), Display Name (14019833020), Register Name (14019833020), User Name (14084588327), Password (*****), SIP Server 1 (sip.example.com, Port 5060), SIP Server 2 (Port 5060), Enable Outbound Proxy Server (Enabled), Outbound Proxy Server 1 (sip.example.com, Port 5099), Outbound Proxy Server 2 (Port 5060), Proxy Fallback Interval (3600), and NAT (Disabled). The 'Confirm' button is visible at the bottom.

2. Click on **Advanced**, and then select **Draft BLA** from the pull-down list of **Shared Line**.
3. Enter the desired number in the **BLA Number** field.

The screenshot shows the Yealink T48S web interface with the 'Features' tab selected. The 'Shared Line' field is set to 'Draft BLA' and the 'BLA Number' field is set to '14084588327'. The 'Confirm' button is visible at the bottom.

4. Click **Confirm** to accept the change.

To register an account and configure BLA feature on phone B via web user interface:

1. Register the account 10462190020.

The screenshot shows the Yealink T48S web interface. The 'Account' tab is selected. The 'Register' section on the left has 'Basic' and 'Advanced' options. The 'Account' section shows 'Account 1' with 'Registered' status. Fields for Line Active, Label, Display Name, Register Name, User Name, Password, SIP Server 1, SIP Server 2, and Outbound Proxy Server are visible. The 'BLA Number' field is highlighted with a red box.

2. Click on **Advanced**, and then select **Draft BLA** from the pull-down list of **Shared Line**.
3. Enter the desired number in the **BLA Number** field.

The screenshot shows the Yealink T48S web interface. The 'Features' tab is selected. The 'Shared Line' section is visible, showing 'Draft BLA' selected for 'Shared Line' and '14084588327' entered for 'BLA Number'. The 'BLA Number' field is highlighted with a red box.

4. Click **Confirm** to accept the change.

Using BLA Feature on the IP Phone

This section provides you with detailed information on using the SIP-T48S IP phone in a BLA scenario. In a BLA scenario, the status of the line key icon which associates with a bridged line will change. For more information on line key icon indicators, refer to [Icon indicator \(associated with a bridged line\)](#) on page 8.

You can do the following using the IP phone in a BLA scenario:





- Placing calls
- Answering calls
- Place a call on hold
- Retrieving a held call

Placing Calls

You can have one call or multiple calls on the bridged line.






To place a call on the bridged line:

Do one of following:

- Enter the desired number using the keypad when the phone is idle.
Press  ,  , or tap **Send**.
The phone will dial the entered number.
- Tap the line key when the phone is idle to enter the dialing screen.
Enter the desired number using the keypad and then press  ,  , or tap **Send**.
The phone will dial the entered number.

To place multiple calls on the bridged line:









You can have more than one call on the bridged line. To place a new call when there is an active call on phone A, do one of the following on the phone A:

- Press  or tap the **Hold** soft key. The original call is placed on hold.
Tap the **New Call** soft key to enter the dialing screen.
Enter the desired number using the keypad.
Press  ,  , or tap **Send**.
Phone A will dial the entered number.
- Tap the line key. The original call is placed on hold.
Enter the desired number using the keypad.
Press  ,  , or tap **Send**.
Phone A will dial the entered number.

Answering Calls



When the phone C dials the BLA number "14084588327", an incoming call will arrive on the bridged line. The phone A and phone B ring simultaneously. You can answer the incoming call on either phone A or phone B but not both.

Do one of the following on phone A or phone B:

- Press  ,  or tap the **Answer** soft key on phone A.
Phone B stops ringing. The icon indicator of the line key on the phone A become  and prompts "Talking". At the meanwhile, the icon indicator of the line key on the phone B become  and prompts "Talking" indicating that there is an active call on the phone A.
- Press  ,  or tap the **Answer** soft key on phone B.
Phone A stops ringing. The icon indicator of the line key on the phone B become  and prompts "Talking". At the meanwhile, the icon indicator of the line key on the phone A become  and prompts "Talking" indicating that there is an active call on the phone B.

Placing a Call on Hold



To place a call on hold:

1. Press  or tap the **Hold** soft key on phone A when party A and party C are talking.
The icon indicator of the line key on the phone A and phone B become  and prompt "Public Hold" when the bridged line call is placed on hold.


Retrieving a Held Call

If there is a held call between phone A and phone C, you can retrieve a held call on either phone A or phone B.

To retrieve the held call on phone A:

2. Tap  , press  or tap the **Resume** soft key on the phone A.
The conversation between phone A and phone C is retrieved.


To retrieve the held call on phone B:

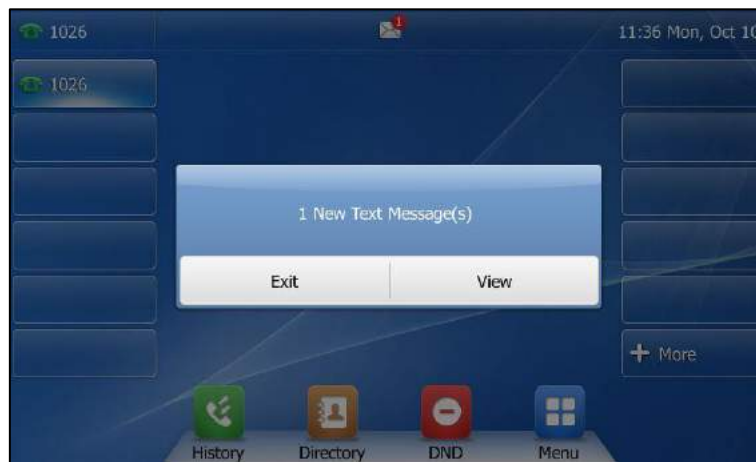
1. Tap  on phone B.
The conversation is established between phone B and phone C, phone A disconnects the call.

Messages

Short Message Service (SMS)

You can send and receive text messages using the SIP-T48S IP phone. New text messages can be indicated both acoustically and visually. When receiving a new text message, the phone will

play a warning tone. The power indicator LED will slowly flash red, and the touch screen will prompt “n New Text Message(s)” (“n” indicates the number of unread text messages. e.g., 1 New Text Message(s)) and an icon  .



Note When the phone receives a text message, the text message prompt window will pop up by default, if you want to disable the feature, contact your system administrator for more information.

You can store text messages in your phone's Inbox, Sentbox, Outbox or Draftbox. Each of the boxes can store up to 100 text messages. If the number of the text messages in one box is more than 100, the phone will directly delete the oldest text message in the box.

Note SMS is not available on all servers. Contact your system administrator for more information.

To read a text message:

1. Tap  -> **Message->Text Message->Inbox.**




2. Tap the desired text message to read.

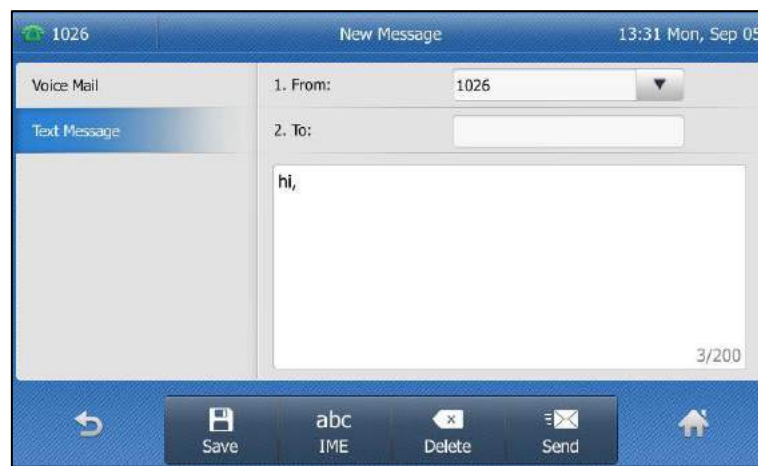
Note


If the phone prompts receiving new text messages, you can also tap **View** to read the new messages directly.

To send a text message:

1. Tap  -> **Message**->**Text Message**->**New Message**.
2. Compose the new text message.

You can tap the **IME** soft key to change the input mode.




3. Tap the gray box of the **From** field, and then select the desired account from the pull-down list.
4. Enter the number you want to send the message to in the **To** field.
5. Tap the **Send** soft key to send message or  to cancel.

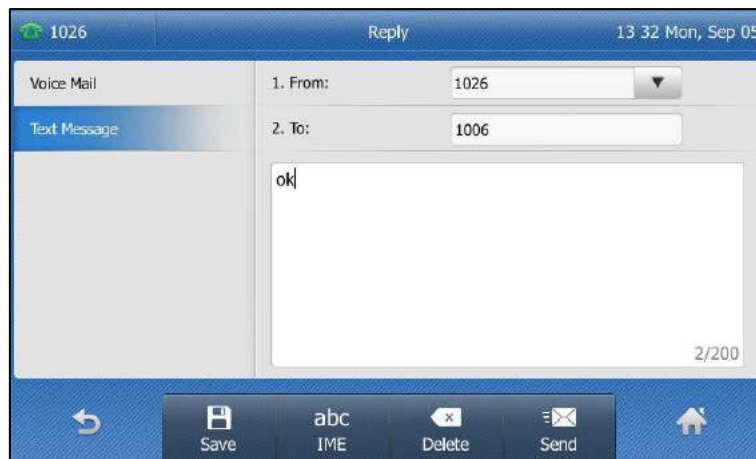
You can also tap the **Save** soft key to save the text message to the draftbox.

Sending a text message is configurable via web user interface at the path **Features**->**SMS**.

To reply a text message:


1. Tap  -> **Message**->**Text Message**->**Inbox**.
2. Select the desired message and then tap the **Reply** soft key.
3. Compose the new text message.

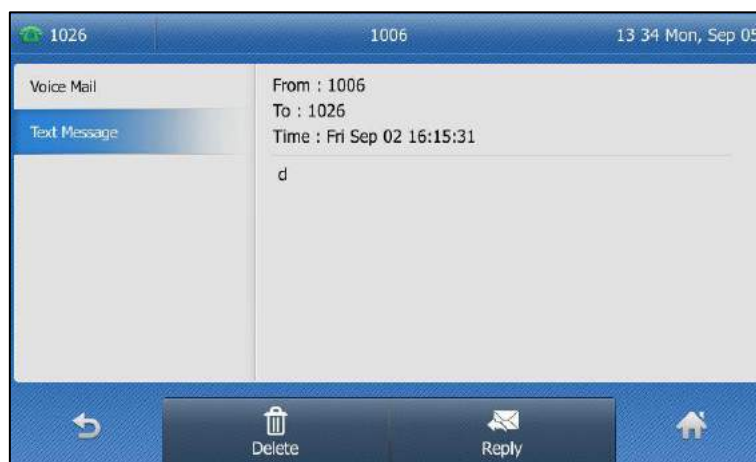
You can tap the **IME** soft key to change the input mode.



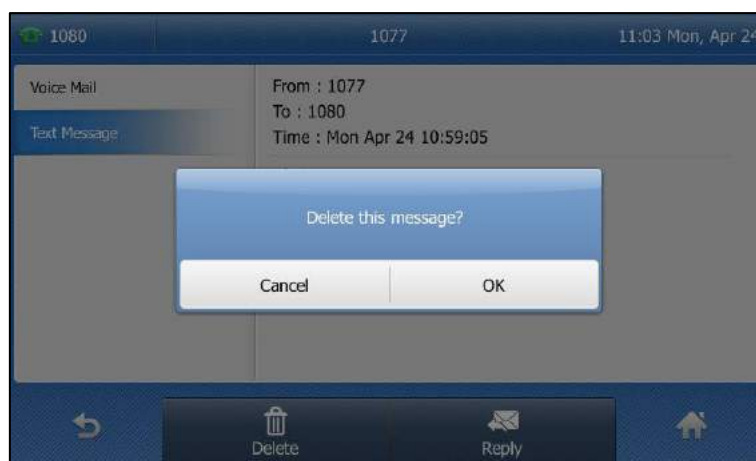
4. Tap the **Send** soft key after completing the content.
5. Check the **From** and **To** fields, and then tap the **Send** soft key.

To delete a text message:

1. Tap  -> **Message**->**Text Message**->**Inbox** (**Sentbox**, **Outbox** or **Draftbox**).
2. Tap the desired message and then tap the **Delete** soft key.



The touch screen prompts "Delete this message?".




3. Tap **OK** to delete this message or **Cancel** to cancel.

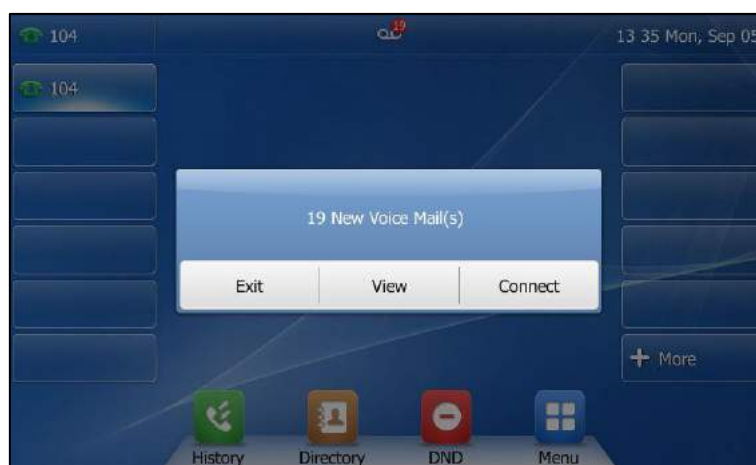
You can also delete all text messages by tapping the **Delete All** soft key. For more information, refer to the above steps.

Note You can also delete a specific message by pressing the **Delete** soft key after viewing.

Voice Mail

You can leave voice mails for someone else using the SIP-T48S IP phone. You can also listen to the voice mails that are stored in a voice mailbox. This feature is set up on the server side. It is not available on all servers.


When receiving a new voice mail, the phone will play a warning tone. The power indicator LED will slowly flash red, and the touch screen will prompt "n New Voice Mail(s)" ("n" indicates the number of unread voice messages, e.g., 19 New Voice Mail(s)) and an icon .



If the voice mail pop-up message box disappears, it won't pop up again unless the user receives a new voice mail or the user re-registers the account that has unread voice mail(s).

Note


You can configure the phone not to display the pop-up prompt, contact your system administrator for more information.

The icon  on the status bar has a counter indicating the number of messages you haven't heard yet.

To leave a voice mail:

You can leave a voice mail for someone else when he/she is busy or inconvenient to answer the call. Follow the voice prompt from the system server to leave a voice mail, and then hang up.

To configure voice mail access codes via phone user interface:

1. Tap  -> **Message**->**Voice Mail**->**Set Voice Mail Code**.
2. Enter the voice mail access code (e.g., *4) in the desired account field.

You can tap the **IME** soft key to change the input mode.





3. Tap the **Save** soft key to accept the change or  to cancel.

Note

Voice mail access codes must be predefined on the system server. Contact your system administrator for the more information.

To listen to voice mails:

1. When the touch screen prompts that the phone receives a new voice mail, you can press  or tap **Connect** to dial out the voice mail access code.
2. Follow the voice prompt to listen to your voice mails.

You can tap the icon  when the phone is idle to open the dialog box, and then tap **Connect**.

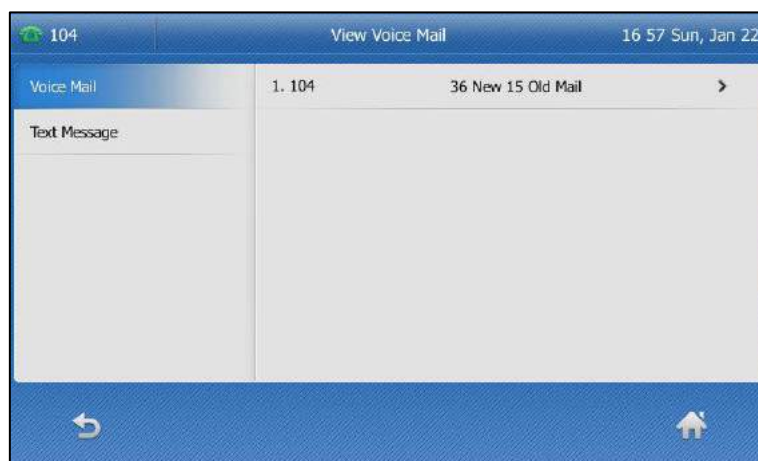
Note

Before listening to voice mails, ensure that the voice mail access code has been configured.

To view the voice mail via phone user interface:

1. Tap  -> **Message**->**Voice Mail** ->**View Voice Mail**.

The touch screen displays the amount of new and old voice mails.



You can tap the account to listen to voice mails.

Message Waiting Indicator (MWI)

The SIP-T48S IP phone supports MWI when receiving a new voice message. If someone leaves you a voice mail, you will receive a message waiting indicator. MWI will be indicated in three ways: a warning tone, an indicator message (including a voice mail icon) on the touch screen, and the power indicator LED slowly flashes red. This will be cleared when you retrieve all voice mails or delete them.

The MWI service is unsolicited for some servers, so the SIP-T48S IP phone only handles the MWI messages sent from the server. But for other servers, the MWI service is solicited, so the SIP-T48S IP phone must enable subscription for MWI.

Note

MWI service is not available on all servers. Contact your system administrator for more information.

The MWI subscription parameters you need to know:

Options	Description
Subscribe for MWI	Enable or disable a subscription for MWI service.
MWI Subscription Period	Period of MWI subscription. The IP phone sends a refresh SUBSCRIBE request before initial subscription expires.
Subscribe MWI To Voice Mail	Enable or disable a subscription to the voice mail number for MWI service. To use this feature, you should also configure the voice

Options	Description
	mail number.

Note

The phone will send SUBSCRIBE messages for MWI service to the account or the voice number MWI service depending on the server. Contact your system administrator for more information.

To configure subscribe for MWI via web user interface:

1. Click on **Account->Advanced**.
2. Select the desired account from the pull-down list of **Account**.
3. Select **Enabled** from the pull-down list of **Subscribe for MWI**.
4. Enter the period time in the **MWI Subscription Period(Seconds)** field.

The screenshot shows the Yealink T48S web interface. The 'Account' tab is active, and the 'Advanced' sub-tab is selected. In the 'Account' section, 'Account 1' is selected. The 'Subscribe for MWI' dropdown is set to 'Enabled', and the 'MWI Subscription Period(Seconds)' is set to '3600'. These two settings are highlighted with a red rectangle. The right sidebar contains a 'NOTE' section with the following text:

DTMF
It is the signal sent from the IP phone to the network, which is generated when pressing the IP phone's keypad during a call.

Session Timer
It allows a periodic refresh of SIP sessions through a re-INVITE request, to determine whether a SIP session is still active.

Busy Lamp Field/BLF List
Monitors a specific extension/a list of extensions for status changes on IP phones.

Shared Call Appearance (SCA)/ Bridge Line Appearance (BLA)
It allows users to share a SIP line on several IP phones. Any IP phone can be used to originate or receive calls on the shared line.

Network Conference

5. Click **Confirm** to accept the change.

The IP phone will subscribe to the account number for MWI service by default.

To enable subscribe MWI to voice mail via web user interface:

1. Click on **Account->Advanced**.
2. Select the desired account from the pull-down list of **Account**.
3. Select **Enabled** from the pull-down list of **Subscribe for MWI**.
4. Select **Enabled** from the pull-down list of **Subscribe MWI To Voice Mail**.

5. Enter the desired voice mail number in the **Voice Mail** field.

The screenshot shows the Yealink T48S web interface with the 'Account' tab selected. The 'Voice Mail' field is highlighted with a red box, showing the value '*4'. Other fields like 'Subscribe for MWI' and 'Subscribe MWI To Voice Mail' are also highlighted. The interface includes a sidebar with 'Register', 'Basic', 'Codec', and 'Advanced' sections. The main content area lists various account settings with dropdown menus and input fields. A 'NOTE' section on the right provides additional information about DTMF, Session Timer, Busy Lamp Field/BLF List, Shared Call Appearance (SCA)/ Bridge Line Appearance (BLA), and Network Conference.

Account	Account 1
Keep Alive Type	Default
Keep Alive Interval(Seconds)	30
RPort	Disabled
Subscribe Period(Seconds)	1800
DTMF Type	RFC2833
DTMF Info Type	DTMF-Relay
DTMF Payload Type(96~127)	101
BLF Send DTMF	Disabled
BLF DTMF Code	
Retransmission	Disabled
Subscribe Register	Disabled
Subscribe for MWI	Enabled
MWI Subscription Period(Seconds)	3600
Subscribe MWI To Voice Mail	Enabled
Voice Mail	*4
Voice Mail Display	Enabled
Caller ID Source	FROM

NOTE

DTMF
It is the signal sent from the IP phone to the network, which is generated when pressing the IP phone's keypad during a call.

Session Timer
It allows a periodic refresh of SIP sessions through a re-INVITE request, to determine whether a SIP session is still active.

Busy Lamp Field/BLF List
Monitors a specific extension/a list of extensions for status changes on IP phones.

Shared Call Appearance (SCA)/ Bridge Line Appearance (BLA)
It allows users to share a SIP line on several IP phones. Any IP phone can be used to originate or receive calls on the shared line.

Network Conference

6. Click **Confirm** to accept the change.

The IP phone will subscribe to the voice mail number for MWI service using Subscribe MWI To Voice Mail.

Note

MWI subscription is configurable via web user interface only.

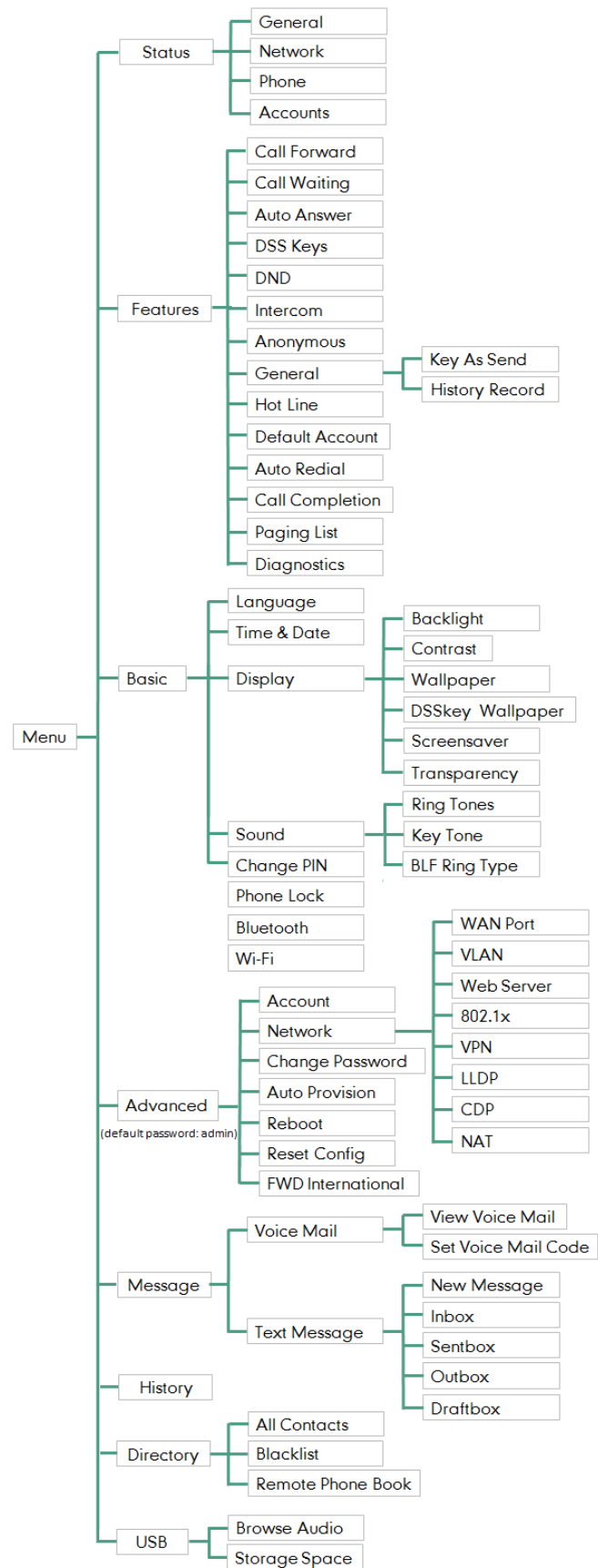
Appendix

Appendix A – Time Zones

Time Zone	Time Zone Name
-11	Samoa
-10	United States-Hawaii-Aleutian, United States-Alaska-Aleutian
-9:30	French Polynesia
-9	United States-Alaska Time
-8	Canada(Vancouver,Whitehorse), Mexico(Tijuana,Mexicali), United States-Pacific Time
-7	Canada(Edmonton,Calgary), Mexico(Mazatlan,Chihuahua), United States-MST no DST, United States-Mountain Time
-6	Canada-Manitoba(Winnipeg), Chile(Easter Islands), Mexico(Mexico City,Acapulco), United States-Central Time
-5	Bahamas(Nassau), Canada(Montreal,Ottawa,Quebec), Cuba(Havana), United States-Eastern Time
-4:30	Venezuela(Caracas)
-4	Canada(Halifax,Saint John), Chile(Santiago), Paraguay(Asuncion), United Kingdom-Bermuda(Bermuda), United Kingdom(Falkland Islands), Trinidad&Tobago
-3:30	Canada-New Foundland(St.Johns)
-3	Argentina(Buenos Aires), Brazil(DST), Brazil(no DST), Denmark-Greenland(Nuuk)
-2:30	Newfoundland and Labrador
-2	Brazil(no DST)
-1	Portugal(Azores)
0	Denmark-Faroe Islands(Torshavn), GMT, Greenland, Ireland(Dublin), Morocco, Portugal(Lisboa,Porto,Funchal), Spain-Canary Islands(Las Palmas), United Kingdom(London)
+1	Albania(Tirane), Austria(Vienna), Belgium(Brussels), Caicos, Chad, Croatia(Zagreb), Czech Republic(Prague), Denmark(Kopenhagen), France(Paris), Germany(Berlin), Hungary(Budapest), Italy(Rome), Luxembourg(Luxembourg), Macedonia(Skopje), Namibia(Windhoek), Netherlands(Amsterdam), Spain(Madrid)
+2	Estonia(Tallinn), Finland(Helsinki), Gaza Strip(Gaza), Greece(Athens), Israel(Tel Aviv), Jordan(Amman), Latvia(Riga), Lebanon(Beirut), Moldova(Kishinev), Romania(Bucharest), Russia(Kaliningrad), Syria(Damascus), Turkey(Ankara), Ukraine(Kyiv, Odessa)
+3	East Africa Time, Iraq(Baghdad), Russia(Moscow)
+3:30	Iran(Teheran)
+4	Armenia(Yerevan), Azerbaijan(Baku), Georgia(Tbilisi), Kazakhstan(Aktau), Russia(Samara)
+4:30	Afghanistan(Kabul)
+5	Kazakhstan(Aqtobe), Kyrgyzstan(Bishkek), Pakistan(Islamabad), Russia(Chelyabinsk)
+5:30	India(Calcutta)
+5:45	Nepal(Katmandu)
+6	Kazakhstan(Astana, Almaty), Russia(Novosibirsk,Omsk)
+6:30	Myanmar(Naypyitaw)
+7	Russia(Krasnoyarsk), Thailand(Bangkok)
+8	Australia(Perth), China(Beijing), Russia(Irkutsk, Ulan-Ude), Singapore(Singapore)
+8:45	Eucla
+9	Japan(Tokyo), Korea(Seoul), Russia(Yakutsk,Chita)

Time Zone	Time Zone Name
+9:30	Australia(Adelaide), Australia(Darwin)
+10	Australia(Brisbane), Australia(Hobart), Australia(Sydney,Melboume,Canberra), Russia(Vladivostok)
+10:30	Australia(Lord Howe Islands)
+11	New Caledonia(Noumea), Russia(Srednekolymsk Time)
+11:30	Norfolk Island
+12	New Zealand(Wellington,Auckland), Russia(Kamchatka Time)
+12:45	New Zealand(Chatham Islands)
+13	Tonga(Nukualofa)
+13:30	Chatham Islands
+14	Kiribati

Appendix B – Menu Structure



Index

A

About This Guide [v](#)
 Accessing the Remote Phone Book [93](#)
 Account Management [122](#)
 Account Registration [122](#)
 Activating the Bluetooth Mode [103](#)
 Activating the Wi-Fi Mode [27](#)
 Adding a Contact to the Local
 Directory/Blacklist [95](#)
 Adding Contacts [74](#)
 Adding Groups [71](#)
 Administrator Password [59](#)
 Advanced Phone Features [185](#)
 Anonymous Call [182](#)
 Anonymous Call Rejection [183](#)
 Answering Calls [138](#)
 Appendix [249](#)
 Appendix A - Time Zones [249](#)
 Appendix B - Menu Structure [251](#)
 Area Code [129](#)
 Attended Transfer [167](#)
 Audio Settings [63](#)
 Auto Answer [140](#)
 Auto Redial [143](#)
 Automatic Call Distribution (ACD) [218](#)

B

Backlight [45](#)
 Barging In an Active Call [232](#)
 Basic Call Features [135](#)
 Basic Network Settings [24](#)
 Blacklist [88](#)
 BLF List [188](#)
 Blind Transfer [165](#)
 Block Out [130](#)
 Bluetooth [102](#)
 Bridged Line Appearance (BLA) [235](#)
 Busy Lamp Field (BLF) [185](#)

C

Call Completion [144](#)
 Call Forward [155](#)
 Call History Management [94](#)
 Call Hold/Resume [149](#)
 Call Mute [147](#)
 Call Park/Retrieve [171](#)
 Call Pull [234](#)
 Call Pickup [178](#)
 Call Recording [194](#)
 Call Transfer [165](#)
 Call Waiting [167](#)
 CE Mark Warning [ii](#)
 Conference [168](#)
 Configuring a BLF Key [185](#)
 Configuring a Record Key [203](#)
 Configuring a URL Record Key [203](#)
 Configuring an Access URL [92](#)
 Configuring an Intercom Key [207](#)
 Configuring BLA Feature on the IP Phone [236](#)
 Configuring Directed Call Pickup Code [188](#)
 Configuring SCA Feature on the IP Phone
[222](#)
 Configuring the BLF Feature on the IP Phone
[185](#)
 Configuring the Idle Timeout [52](#)
 Configuring the Intercom Feature on the IP
 Phone [207](#)
 Configuring the Office Hour [51](#)
 Configuring the Screen Saver [49](#)
 Configuring Transfer Mode on DSS Key [190](#)
 Configuring Visual and Audio Alert for BLF
 pickup [186](#)
 Connecting to the Wired Network [22](#)
 Connecting to the Wireless Network [27](#)
 Contact Management [67](#)
 Contrast [54](#)
 Customizing Your Phone [43](#)

D

- Deactivating the Bluetooth Mode [110](#)
- Deactivating the Wi-Fi Mode [34](#)
- Default Account [123](#)
- Deactivating the Wireless Network Connection [33](#)
- Declaration of Conformity [ii](#)
- Deleting Contacts [79](#)
- Deleting Groups [79](#)
- Deleting History Records [96](#)
- Deleting the Paired Bluetooth Headset [109](#)
- Deleting the Recorded File [201](#)
- Dial Now [127](#)
- Dial Plan [125](#)
- Directed Call Pickup [178](#)
- Directory [68](#)
- Disabling History Record [97](#)
- Disconnecting the Bluetooth Headset [109](#)
- Disconnecting the Wireless Network Connection [32](#)
- Do Not Disturb (DND) [150](#)
- Documentation [13](#)
- Dual Headset [101](#)
- DSS Keys [110](#)
- Dsskey Wallpaper [45](#)
- Dual Headset [101](#)
- Dynamic Forwarding [164](#)

E

- Editing Contacts [78](#)
- Editing Device Information [108](#)
- Editing Groups [78](#)
- Emergency Number [131](#)
- Enabling the Power Saving [51](#)
- Ending Calls [140](#)
- Entering Data and Editing Fields [38](#)
- Ext Keys [122](#)

F

- FAC Mode [173](#)
- Feature Status Icons [3](#)

G

- General Settings [43](#)
- Getting Started [15](#)
- Group Call Pickup [180](#)

H

- Hardware Component Instructions [1](#)
- Headset Mode Activation/Deactivation [100](#)
- Headset Prior [100](#)
- Headset Use [100](#)
- Hot Desking [205](#)
- Hotline [132](#)

I

- Icon Instructions [3](#)
- Importing/Exporting Contact Lists [85](#)
- In This Guide [v](#)
- Incoming Intercom Calls [208](#)
- Index [253](#)
- Intercom [207](#)

I

- Intercom [207](#)

K

- Key As Send [59](#)
- Key Tone [67](#)

L

- Language [55](#)
- Label Length [111](#)
- LED Instructions [9](#)
- Line Key Icons [4](#)
- Line Keys [111](#)
- Line Key Features [113](#)
- Live Dialpad [132](#)
- Local Conference [168](#)
- Local Directory [70](#)

M

- Managing the Saved Wireless Network 32
- Manually Add a Wireless Network 30
- Manually Connect to an Available Wireless Network 28
- Message Waiting Indicator (MWI) 246
- Messages 240
- Mobile Contacts 90
- Multicast Paging 210
- Multiple Line Keys per Account 125
- Music on Hold (MOH) 217
- Mute a Call 148
- Mute While Dialing 149

N

- Navigating Menus and Fields 38
- Network Conference 170
- Network Connection 21

O

- Optional Accessories 16
- Other Icons 8
- Overview 1

P

- Packaging Contents 15
- Pairing and Connecting the Bluetooth Headset 104
- Phone Initialization 21
- Phone Installation 18
- Phone Lock 60
- Phone Status 23
- Phone User Interface 10
- Picking up an Incoming Call of the Monitored User 191
- Picking up an Incoming Call of the Target Extension 210
- Placing a Call from History Records 94
- Placing a Call to the Monitored User 190
- Placing an Intercom Call to the Target Extension 210
- Placing Calls 136

- Placing Calls to Contacts 83
- Playing Back Recorded Calls 199
- Power Saving 50
- Programable Keys 120

R

- ReCall 146
- Receiving RTP Stream 214
- Recent Call In Dialing 141
- Recording a Call 204
- Recording Using a Record Key 202
- Recording Using USB Flash Drive 195
- Redialing Numbers 141
- Registration 26
- Remote Phone Book 92
- Replace Rule 126
- Ring Tones 65

S

- Screen Saver 47
- Search Source List in Dialing 98
- Searching for Contacts 84
- Semi-attended Transfer 166
- Sending RTP Stream 211
- Shared Call Appearance (SCA) 221
- Short Message Service (SMS) 240
- Static Forwarding 155
- System Customizations 98

T

- Table of Contents vii
- Time & Date 56
- Touch Screen Display 35
- Transfer Mode 176
- Transferring a Call to the Monitored User 191
- Transparency 46

U

- Uploading Contact Photos 48
- User Interfaces 10
- Using BLA Features on the IP Phone 239
- User Interfaces 10

- Using BLA Feature on the IP Phone [239](#)
- Using BLF Feature on the IP Phone [228](#)
- Using Intercom [209](#)
- Using Multicast Paging [216](#)
- Using SCA Features on the IP Phone [228](#)

V

- Viewing History Records [94](#)
- Viewing the Bluetooth Headset Information
[108](#)
- Viewing the Storage Space [201](#)
- Viewing the Wireless Network Information
[31](#)
- Voice Mail [244](#)
- Volume [63](#)

W

- Warranty [ii](#)
- Wallpaper [43](#)
- Wallpaper on the Idle Screen [44](#)
- Wallpaper with Dsskey Unfold [45](#)
- Web User Interface [10](#)
- Wi-Fi Protected Setup (WPS) [29](#)
- Wireless Network Settings [26](#)