

Yealink W70B DECT IP Phone Administrator Guide

Version 85.40 Aug. 2022

Before You Begin

Yealink administrator guide provides general guidance on setting up phone network, provisioning and managing devices.

This guide is not intended for end-users, but for a technical audience. You can do the following with this guide:

- Set up a VoIP network and provisioning server.
- · Provision the device with features and settings.
- Troubleshoot, update and maintain devices.

The information in this guide is applicable to the following Yealink devices except where noted:

- W70B IP DECT phones running firmware version 146.85.0.35 or later.
- W78H IP DECT phones running firmware version 16.85.0.15 or later.
- W73H IP DECT phones running firmware version 116.85.0.30 or later.
- W56H IP DECT phones running firmware version 61.85.0.50 or later.
- W53H IP DECT phones running firmware version 88.85.0.50 or later.
- W59R IP DECT phones running firmware version 115.85.0.50 or later.
- W57R IP DECT phones running firmware version 118.85.0.10 or later.
- CP930W-Base DECT conference phone running firmware version 85 or later.
- CP935W-Base DECT conference phone running firmware version 86 or later.
- T54W+DD10K DECT desk phones (DD phones) running firmware version 96.85.0.100 or later.
- WH6X headsets running firmware version 104.432.0.35 (104.0.150.26) or later.

Read the Yealink Products Regulatory Notices guide for all regulatory and safety guidance.

Related Documentations

The following related documents are available:

- · Quick Start Guides, describe how to assemble phones.
- User Guides, describe how to configure and use the basic and advanced features available on the phones via the phone user interface.
- Auto Provisioning Guide, describes how to provision the devices using the boot file and configuration files. The Auto Provisioning Guide is to serve as basic guidance for provisioning Yealink devices with a provisioning server. If you are a novice, this guide is helpful for you.
- Using features integrated with Broadsoft UC-One, refer to the following two guides to have a better knowledge of BroadSoft features.

IP Phones Deployment Guide for BroadSoft UC-One Environments, describes how to configure BroadSoft features on the BroadWorks web portal and phones.

IP Phone Features Integrated with BroadSoft UC-One User Guide, describes how to configure and use IP phone features integrated with BroadSoft UC-One on Yealink phones.

For support or service, please contact your Yealink reseller or go to Yealink Technical Support online: http://support.yealink.com/.

Recommended References

For more information on configuring and administering other Yealink products not included in this guide, refer to the product support page at Yealink Technical Support.

To access the latest Release Notes or other guides for Yealink devices, refer to the Document Download page for your phone at Yealink Technical Support.

If you want to find Request for Comments (RFC) documents, type http://www.ietf.org/rfc/rfcNNNN.txt (NNNN is the RFC number) into the location field of your browser.

For other references, look for the hyperlink or web info throughout this administrator guide.

Summary of Changes

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

Changes for Release V85, Guide Version V85.40

The following sections are new for this version:

- No Answer
- No Answer Configuration
- Action URL
- Predefined Events List
- Variable Values List
- Action URL Configuration
- Supported Alert-Info Headers Format
- Alert-Info: Bellcore-drN
- Alert-Info: ringtone-N/Alert-Info: ringtone-RingN.wav (or Alert-Info: MyMelodyN/Alert-Info: MyMelodyRingN.wav)
- Alert-Info: info=info text;x-line-id=0
- Phone Lock
- Phone Lock Configuration
- Example: Using VPN based on L2TP Protocol
- Managing the Handsets
- Registering Handsets via Web User Interface
- IPUI Registration
- Obtaining the IPUI Code of the Handset
- Notes on Configuring IPUI
- IPUI Code Configuration
- De-registering Handsets
- Speed Dial
- Speed Dial Key Configuration
- Push-to-Talk (PTT)
- Push-to-Talk (PTT) Configuration

Major updates have occurred to the following sections:

- Before You Begin
- Firmware Upgrade
- Emergency Dialplan and Enhanced 911
- Emergency Dialplan and Enhanced 911 Configuration
- Broadsoft Network Directory
- TLS Configuration
- Call Waiting Configuration
- Call Transfer Configuration
- Return Code for Refused Call and not answer Configuration
- Line Keys Configuration
- Search Source List Configuration
- VPN Configuration
- Failover Server Redundancy Configuration
- LDAP Configuration
- Firmware for Each Phone Model
- Shortcut Customization Configuration
- Intercom Configuration

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Getting Started

This chapter provides basic initialization instructions of devices.

Topics

Requirements Initialization Process Overview Verifying Startup

Requirements

In order to perform as SIP endpoints in your network successfully, you need the following in deployments:

- A working IP network is established.
- · VoIP gateways configured for SIP.
- The latest (or compatible) firmware of the device is available.
- A call server is active and configured to receive and send SIP messages.
- A text editor, such as Notepad++, to create and edit boot files, configuration files, and resource files.

Initialization Process Overview

The initialization process of the device is responsible for network connectivity and operation of the device in your local network. Once you connect your device to the network and to an electrical supply, the device begins its initialization process.

Topics

Loading the ROM File Configuring the VLAN Querying the DHCP (Dynamic Host Configuration Protocol) Server Contacting the Provisioning Server Updating Firmware Downloading the Resource Files

Loading the ROM File

The ROM file resides in the flash memory of the device. The device comes from the factory with a ROM file preloaded. During initialization, the device runs a bootstrap loader that loads and executes the ROM file.

Configuring the VLAN

If you connect the device to a switch, the switch notifies the device of the VLAN information defined on the switch (if using LLDP or CDP). The device can then proceed with the DHCP request for its network settings (if using DHCP).

Querying the DHCP (Dynamic Host Configuration Protocol) Server

The device is capable of querying a DHCP server.

After establishing network connectivity, the device can obtain the following network parameters from the DHCP server during initialization:

- IP Address
- Subnet Mask
- Default Gateway
- Primary DNS (Domain Name Server)
- Secondary DNS

By default, the devices obtain these parameters from a DHCPv4. You can configure network parameters of the device manually if any of them are not supplied by the DHCP server.

Contacting the Provisioning Server

If you configure the device to obtain configurations from the provisioning server, it will be connected to the provisioning server, and then download the boot file and configuration file(s) during startup. The device will be able to resolve and update configurations written in the configuration file(s). If the device does not obtain configurations from the provisioning server, it will use the configurations stored in the flash memory.

Updating Firmware

If you define the access URL of firmware in the configuration file, the device will download the firmware from the provisioning server. If the MD5 value of the downloaded firmware file differs from that stored in the flash memory, the device will perform a firmware update.

You can manually upgrade the firmware if the device does not download the firmware from the provisioning server.

Downloading the Resource Files

In addition to the configuration file(s), the device may require resource files before it provides service. These resource files are optional, but if you deploy some particular features, these files are required.

Verifying Startup

When the base station begins the initialization process, it cycles through the following steps:

- 1. After connected to the power, the power LED indicator glows green.
- 2. After connected to the available network, the network LED indicator glows green.
- **3.** (Optional.) After at least one handset registered to the base station, the registration LED glows green. If the base station has successfully passed through these steps, it starts up properly and is ready for use.

Managing the Handsets

You can use the web user interface to register all handsets or delete them.

Topics

Registering Handsets via Web User Interface IPUI Registration De-registering a Handset

Registering Handsets via Web User Interface

Procedure

- 1. Access the web user interface.
- 2. Go to Status > Handset & Voip.
- 3. Click Start Register Handset to set the base to the registration mode.
- 4. On the handset, do one of the following:
 - Press the Reg soft key on the handset to register quickly.
 - Press OK > Register Handset and then select the desired base to register the handset.
 - Press OK > Settings > Registration > Register Handset and then select the desired base to register the handset.

After registration, the handset prompts "Handset Subscribed".

Note: The default base PIN is 0000.

IPUI Registration

You can register handsets in batches by the IPUI code.

Topics

Obtaining the IPUI Code of the Handset Notes on Configuring IPUI IPUI Code Configuration

Obtaining the IPUI Code of the Handset

IPUI is a random code that includes 10 characters mixed with numbers and letters.

There are three ways to obtain the IPUI code:

Handset UI:

- i. on the W56H/W53H/W59R/W57R/W73H/W78H handset, go to OK > Status > Handset > IPUI Code;
- ii. on the CP930W, go to Menu > Status > Phone Status > IPUI Code;
- iii. on the CP935W, go to More > Status > Phone Status > IPUI Code;
- iv. on the DD phone, go to Menu > Status > Dongle Status > IPUI Code.
- Giftbox: Obtain it from the sticker label on the handset's giftbox.
- Shipping system: Check it in the shipping system.

Notes on Configuring IPUI

A few notes you should know when registering handsets using the IPUI code:

- The registration status will not be disabled automatically if you enable it by "handset.X.reg.enable".
- If you duplicate the IPUI code during the configuration, only the IPUI with the smaller handset number takes effect.

- If you configure another IPUI code for another handset but the handset number is the same as an existing one, the existing IPUI will be overwritten.
- If you configure the IPUI code for the registered handset, the handset will be unregistered.
- When the handset is deleted, the handset and its IPUI code will be deleted at the same time.
- You cannot directly modify the IPUI code via the web user interface. The IPUI code can only be modified via auto provisioning, or re-entered after deletion via the web user interface.

IPUI Code Configuration

The following table lists the parameters you can use to import the IPUI code.

Parameter	handset.X.ipui ^[1]	<mac>.cfg</mac>
	It configures the IPUI code of handset X.	
Description	Note: The IPUI code is not case sensitive.	
Permitted Values	String within 10 characters (only contain numbers and letters)
Default	Blank	
Web UI	Handset & Account > Handset Registration > Add Handset >	IPUI

^[1]X is the handset ID. X=1-10.

Related Topics

Obtaining the IPUI Code of the Handset

De-registering Handsets

You can delete the handsets manually or use the parameter to delete the handsets in batch.

Deleting Manually:

Procedure

- 1. Access the web user interface.
- 2. Go to Status > Handset & Voip.
- 3. Click Delete .
- 4. Click OK to delete a handset.

All registration information for the handset is deleted.

Deleting Configuration:

The following table lists the parameter you can use to configure the handsets deletion.

Parameter	operation.handset.unregister_list	<y000000000xx>.cfg</y000000000xx>
Description	It can delete the corresponding handsets in batches through handse	ets IPUI Code.
Permitted Values	String within 512 characters	
Default	Blank	
Parameter	operation.account.unregister	<y000000000xx>.cfg</y000000000xx>
Description	It can delete the account information on the base. Note: After execution, it will automatically restore the configuration to the default value.	
Permitted	itted String within 1024 characters	

Values	
Default	Blank

Example: Using Parameters to Delete the Handsets.

Procedure

1. Set the following parameters in the configuration file and perform an auto provision.

- Delete a handset: operation.handset.unregister_list = 0291A4A818
- Delete handsets in batches, please use the commas to separate multiple IPUI Code: *operation.handset.unregister_list = 0291A4A818,0227C7DBE6*
- Delete all handsets: operation.handset.unregister_list = all

After provisioning, the corresponding handsets will be deleted.

Network Configurations

You can make custom network configurations.

Topics

IPv4 and IPv6 Network Settings DHCP Option for IPv4 DHCP Option for IPv6 VLAN Real-Time Transport Protocol (RTP) Ports Network Address Translation (NAT) VPN Quality of Service (QoS) 802.1x Authentication TR-069 Device Management

IPv4 and IPv6 Network Settings

You can configure the devices to operate in IPv4, IPv6, or dual-stack (IPv4/IPv6) mode.

After establishing wired network connectivity, the devices obtain the IPv4 or IPv6 network settings from a Dynamic Host Configuration Protocol (DHCPv4 or DHCPv6) server. We recommend using DHCP where possible to eliminate repetitive manual data entry.

You can also configure IPv4 or IPv6 network settings manually.

Note: Yealink devices comply with the DHCPv4 specifications documented in RFC 2131, and DHCPv6 specifications documented in RFC 3315.

Topics

IP Addressing Mode Configuration IPv4 Configuration IPv6 Configuration

IP Addressing Mode Configuration

The following table lists the parameters you can use to configure IP addressing mode.

Parameter	static.network.ip_address_mode ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the IP addressing mode.	
	0-IPv4	
Permitted Values	1-IPv6	
	2-IPv4 & IPv6	
Default	0	
Web UI	Network > Basic > Internet Port > Mode (IPv4/IPv6)	
	W78H/W73H/W59R/W57R/W53H/W56H:	
	OK > Settings > System Settings > Network (defaul	t PIN: 0000) > Basic > IP Mode
Handset UI	DD Phone:	
	Menu > Advanced Settings (default password: 000	0) > Network > WAN Port > IP Mode
	CP930W:	

Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IP Mode
CP935W:
More > Advanced (default PIN: 0000) > Network > WAN Port > IPAddress Mode

 $\ensuremath{^{[1]}}\xspace$ If you change this parameter, the phone will reboot to make the change take effect.

IPv4 Configuration

The following table lists the parameters you can use to configure IPv4.

Parameter	static.network.internet_port.type ^[1]	<y000000000xx>.cfg</y000000000xx>	
Decerintien	It configures the Internet port type for IPv4.		
Description	Note: It works only if "static.network.ip_address_mode" is set to 0 (IPv4) or 2 (IPv4 & IPv6).		
Permitted Values	0-DHCP		
	2-Static IP		
Default	0		
Web UI	Network > Basic > IPv4 Config		
	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type		
	DD Phone:		
Handset UI	Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4		
	<u>CP930W:</u>		
	Menu > Settings > Advanced Settings (default PIN: 0000) > Netwo Address Type	rk > Basic > IPv4 > IP	
	<u>CP935W:</u>		
	More > Advanced (default PIN: 0000) > Network > WAN Port > IPv	4 > Type	
Parameter	static.network.internet_port.ip ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the IPv4 address.		
Description	Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP).	
Permitted Values	IPv4 Address		
Default	Blank		
Web UI	Network > Basic > IPv4 Config > Static IP Address > IP Address		
	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > IP Address		
	DD Phone:		
Handset UI	Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP		
	<u>CP930W:</u>		
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > IP Address		

Description It configures the IPv4 subnet mask. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values Subnet Mask Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Subnet Mask W78H.W73H.W59R.W57R.W53H.W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Subnet Mask D Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Subnet Mask CP930W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask Parameter static.network.internet_port.gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway Mce: It works only if "static.network.internet_port.type" is set to 2 (Static IP).		CP935W:		
Description It configures the IPv4 subnet mask. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values Subnet Mask Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Subnet Mask W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Subnet Mask D Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Subnet Mask CP930W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP930W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP930W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask Parameter static.network.internet_port.gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Defa				
Description Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values Subnet Mask Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Subnet Mask Web UI Network > Basic > IPv4 Config > Static IP Address > Subnet Mask W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Subnet Mask DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP930W: Menu > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static IP > Subnet Mask CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > WAN Port > IPv4 > IP Address Type: Static IP > Subnet Mask CP930W: Menu > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > IP Address Type: Static IP > Subnet Mask Parameter static.network.internet_port.gateway(11) <y00000000xx.efg< td=""> Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address IPv4 Address > IPv4 Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static IP > Address > IPv4 > IP Address ></y00000000xx.efg<>	Parameter	static.network.internet_port.mask ^[1]	<y000000000xx>.cfg</y000000000xx>	
Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values Subnet Mask Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Subnet Mask W78HW73HW59RW57RW53HW56H: OK > Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Subnet Mask DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP330W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static P > Subnet Mask CP335W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP355W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > IP > Subnet Mask CP355W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP355W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > IP > Subnet Mask Default It configures the IPv4 default gateway. Description It configures the IPv4 default gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank	Description	It configures the IPv4 subnet mask.		
Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Subnet Mask W78HW73HW59RW57RW53HW56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Subnet Mask DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Subnet Mask CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Subnet Mask CP930W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP935W: More > Advanced (default gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway DYB: Static O = Default Gateway OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static O = Default Gateway	Description Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP).		Static IP).	
Web UI Network > Basic > IPv4 Config > Static IP Address > Subnet Mask W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Subnet Mask DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask DP Phone: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Subnet Mask CP930W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP935W: It configures the IPv4 default gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Stat	Permitted Values	Subnet Mask		
WT2BHW73BHW59RW57RW53HW56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Subnet Mask DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask Parameter static.network.internet_port.gateway ^[11] <vp00000000xx.cfg< td=""> It configures the IPv4 default gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway W78HW73HW59RW57RW53HW53HW56H: OK > Settings > System Settings (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway UD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway</vp00000000xx.cfg<>	Default	Blank		
OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Subnet Mask DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP935W: More > Advanced (default gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static > Default Gate	Web UI	Network > Basic > IPv4 Config > Static IP Address > Subnet Mask		
Handset UI Type: Static > Subnet Mask DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask Parameter static.network.internet_port.gateway ^[1] <y000000000xx>.cfg It configures the IPv4 default gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway IPv4 > IP Address DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > IP Address Type: Static IP > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP936W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gate</y000000000xx>		W78H/W73H/W59R/W57R/W53H/W56H:		
Handset UI Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask Parameter static.network.internet_port.gateway[1] <y000000000xx>.cfg Description Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway OK > Settings > System Settings > Network (default PIN: 0000) > Network > WAN Port > IPv4 > IP Address Type: Static > Default Gateway DP Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > IP Address Type: Static IP > Default Gateway DD Phone: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static IP > Default Gateway DD Phone: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: More > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > IP Address Type: Static > Default Gateway</y000000000xx>			asic > IPv4 > IP Address	
Handset UI Static IP > Subnet Mask CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask cp00000000xx>.cfg Description Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway Mr8HWr3HWS9RW57R/W53HW56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway DD Phone: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Handset UI Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: More > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway <tr< th=""><th></th><td>DD Phone:</td><td></td></tr<>		DD Phone:		
CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask Parameter static.network.internet_port.gateway ^[1] v00000000xx>.cfg It configures the IPv4 default gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway V78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: More > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default	Handset UI	- · · · ·	WAN Port > IPv4 > Type:	
Address Type: Static > Subnet Mask CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask Parameter static.network.internet_port.gateway ^[1] <y00000000xx>.cfg Description It configures the IPv4 default gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway</y00000000xx>		CP930W:		
More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Subnet Mask Parameter static.network.intermet_port.gateway ^[1] <y000000000xx>.cfg Description It configures the IPv4 default gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway V78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static IP > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway</y000000000xx>		Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP		
Mask Parameter static.network.intermet_port.gateway ^[1] <y000000000xx>.cfg Description It configures the IPv4 default gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static IP > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > IP Address Type: Static > Default Gateway</y000000000xx>		CP935W:		
Description It configures the IPv4 default gateway. Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway			4 > Type: Static IP > Subnet	
Description Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway	Parameter	static.network.internet_port.gateway ^[1] <y000000000xx>.cfg</y000000000xx>		
Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP). Permitted Values IPv4 Address Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway	It configures the IPv4 default gateway.			
Default Blank Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway		Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP).		
Web UI Network > Basic > IPv4 Config > Static IP Address > Default Gateway W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway	Permitted Values	IPv4 Address		
W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway	Default	Blank		
OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway	Web UI	Network > Basic > IPv4 Config > Static IP Address > Default Gatew	ay	
Type: Static > Default Gateway DD Phone: Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway		W78H/W73H/W59R/W57R/W53H/W56H:		
Handset UI Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway			asic > IPv4 > IP Address	
Handset UI Static IP > Default Gateway CP930W: Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway CP935W: More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway Gateway		DD Phone:		
<u>CP930W:</u> Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: Static > Default Gateway <u>CP935W:</u> More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway	Handset UI		WAN Port > IPv4 > Type:	
Address Type: Static > Default Gateway <u>CP935W:</u> More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway		CP930W:		
More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: Static IP > Default Gateway			rk > Basic > IPv4 > IP	
Percenter static potwork static doe enable[1]		More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4	4 > Type: Static IP > Default	
rarameter static.network.static_uns_enablet** <yuuuuuuus_crg< th=""><th>Parameter</th><th>static.network.static_dns_enable^[1]</th><th><y000000000xx>.cfg</y000000000xx></th></yuuuuuuus_crg<>	Parameter	static.network.static_dns_enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description It triggers the static DNS feature to on or off.	Description	It triggers the static DNS feature to on or off.	,	

	Note: It works only if "static.network.internet_port.type" is set to 0 (DHCP).		
	0-Off, the phone will use the IPv4 DNS obtained from DHCP.		
Permitted Values	1-On, the phone will use manually configured static IPv4 DNS.		
Default	0		
Web UI	Network > Basic > IPv4 Config > Static DNS		
	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Settings > System Settings > Network (default PIN: 0000) > E Type: DHCP > DNS Type: Manual	Basic > IPv4 > IP Address	
	DD Phone:		
Handset UI	Menu > Advanced Settings (default password: 0000) > Network > DHCP > Static DNS	WAN Port > IPv4 > Type:	
	<u>CP930W:</u>		
	Menu > Settings > Advanced Settings (default PIN: 0000) > Netwo Address Type: DHCP > DNS Type: Manual	ork > Basic > IPv4 > IP	
	<u>CP935W:</u>		
	More > Advanced (default PIN: 0000) > Network > WAN Port > IPv DNS	v4 > Type: DHCP > Static	
Parameter	static.network.primary_dns ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the primary IPv4 DNS server.		
Description	Note: It works only if "static.network.ip_address_mode" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the DHCP environment, you need to make sure "static.network.static_dns_enable" is set to 1 (On).		
Permitted Values	IPv4 Address		
Default	Blank		
Web UI	Network > Basic > IPv4 Config > Static IP Address > Primary DNS		
	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Settings > System Settings > Network (default PIN: 0000) > Type: DHCP > DNS Type: Manual > Primary DNS	Basic > IPv4 > IP Address	
	DD Phone:		
Handset UI	Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: DHCP > Pri.DNS		
	<u>CP930W:</u>		
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: DHCP > DNS Type: Manual > Pri.DNS		
	<u>CP935W:</u>		
	More > Advanced (default PIN: 0000) > Network > WAN Port > IPv DNS: Enabled > Pri.DNS	4 > Type: DHCP > Static	
Parameter	static.network.secondary_dns ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the secondary IPv4 DNS server.		
Description Note: It works only if "static.network.ip_address_mode" is set to 0 (IPv4) or 2 (IPv4 & IPv the DHCP environment, you need to make sure "static.network.static_dns_enable" is set			

	(On).
Permitted Values	IPv4 Address
Default	Blank
Web UI	Network > Basic > IPv4 Config > Static IP Address > Secondary DNS
	W78H/W73H/W59R/W57R/W53H/W56H:
	OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 > IP Address Type: DHCP > DNS Type: Manual > Secondary DNS
	DD Phone:
Handset UI	Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv4 > Type: DHCP> Sec.DNS
nanuset of	CP930W:
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 > IP Address Type: DHCP > DNS Type: Manual > Sec.DNS
	CP935W:
	More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 > Type: DHCP > Static DNS: Enabled > Sec.DNS

^[1]If you change this parameter, the phone will reboot to make the change take effect.

IPv6 Configuration

If you configure the network settings on the phone for an IPv6 wired network, you can set up an IP address for the phone by using SLAAC (ICMPv6), DHCPv6 or by manually entering an IP address. Ensure that your network environment supports IPv6. Contact your ISP for more information.

When you enable both SLAAC and DHCPv6 on the phone, the server can specify the IP phone to obtain the IPv6 address and other network settings either from SLAAC or from DHCPv6, if the SLAAC server is not working, the phone will try to obtain the IPv6 address and other network settings via DHCPv6.

The following table lists the parameters you can use to configure IPv6.

Parameter	static.network.ipv6_internet_port.type ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the Internet port type for IPv6.	
	Note: It works only if "static.network.ip_address_mo	ode" is set to 1 (IPv6) or 2 (IPv4 & IPv6).
Permitted	0-DHCP	
Values	1-Static IP	
Default	0	
Web UI	Network > Basic > IPv6 Config	
	W78H/W73H/W59R/W57R/W53H/W56H:	
	OK > Settings > System Settings > Network (defaul	PIN: 0000) > Basic > IPv6 > IP Address Type
	DD Phone:	
Handset UI	Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv6	
	CP930W:	
	Menu > Settings > Advanced Settings (default PIN:	0000) > Network > Basic > IPv6 > IP Address Type
	CP935W:	

	More > Advanced (default PIN: 0000) > Network > WAN Port > IPv6 > Type	
Parameter	static.network.ipv6_internet_port.ip ^[1] <y000000000xx>.cfg</y000000000xx>	
Description	It configures the IPv6 address.	
Description	Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP).	
Permitted Values	IPv6 Address	
Default	Blank	
Web UI	Network > Basic > IPv6 Config > Static IP Address > IP Address	
	W78H/W73H/W59R/W57R/W53H/W56H:	
	OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv6 > IP Address Type: Static > IP Address	
	DD Phone:	
Handset UI	Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv6 > Type: Static IP> IP Address	
	CP930W:	
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv6 > IP Address Type: Static > IP Address	
	<u>CP935W:</u> More > Advanced (default PIN: 0000) > Network > WAN Port > IPv6 > Type: Static IP > IP Address	
Parameter	static.network.ipv6_prefix ^[1] <y00000000xx>.cfg</y00000000xx>	
Description	It configures the IPv6 prefix.	
Description	Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP).	
Permitted Values	Integer from 0 to 128	
Default	64	
Web UI	Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128)	
	W78H/W73H/W59R/W57R/W53H/W56H:	
	OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv6 > IP Address Type: Static > IPv6 Prefix	
	DD Phone:	
	Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv6 > Type: Static IP> IP Address > IPv6 IP Prefix	
	<u>CP930W:</u>	
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv6 > IP Address Type: Static > IPv6 Prefix	
	CP935W:	
	More > Advanced (default PIN: 0000) > Network > WAN Port > IPv6 > Type: Static IP > IPv6 IP Prefix	
Parameter	static.network.ipv6_internet_port.gateway ^[1] <y000000000xx>.cfg</y000000000xx>	
Description	It configures the IPv6 default gateway.	
	Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP).	

Permitted Values	IPv6 Address	
Default	Blank	
Web UI	Network > Basic > IPv6 Config > Static IP Address > Default Gateway	
	W78H/W73H/W59R/W57R/W53H/W56H:	
	OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv6 > IP Address Type: Static > Default Gateway	
	DD Phone:	
Handset UI	Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv6 > Type: Static IP> IP Address > Default Gateway	
	<u>CP930W:</u>	
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv6 > IP Address Type: Static > Default Gateway	
	<u>CP935W:</u>	
	More > Advanced (default PIN: 0000) > Network > WAN Port > IPv6 > Type: Static IP > Default Gate- way	
Parameter	static.network.ipv6_static_dns_enable ^[1] <y000000000xx>.cfg</y000000000xx>	
Description	It triggers the static IPv6 DNS feature to on or off.	
Description	Note: It works only if "static.network.ipv6_internet_port.type" is set to 0 (DHCP).	
i crimitica	0-Off, the phone will use the IPv6 DNS obtained from DHCP.	
Values	1-On, the phone will use manually configured static IPv6 DNS.	
Default	0	
Web UI	Network > Basic > IPv6 Config > IPv6 Static DNS (Static IPv6 DNS)	
	W78H/W73H/W59R/W57R/W53H/W56H:	
	OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv6 > IP Address Type: DHCP > DNS Type: Manual	
	DD Phone:	
Handset UI	Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv6 > Type: DHCP > Static DNS	
	<u>CP930W:</u>	
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv6 > IP Address Type: DHCP > DNS Type: Manual	
	CP935W:	
	More > Advanced (default PIN: 0000) > Network > WAN Port > IPv6 > Type: DHCP > Static DNS: Enabled	
Parameter	static.network.ipv6_primary_dns ^[1] <y000000000xx>.cfg</y000000000xx>	
	It configures the primary IPv6 DNS server. Note : It works only if "static.network.ip_address_mode" is set to 1 (IPv6) or 2 (IPv4 & IPv6). In DHCP environment, you also need to make sure "static.network.ipv6_static_dns_enable" is set to 1 (On).	
Permitted Values	IPv6 Address	

Default	Blank			
Web UI	Network > Basic > IPv6 Config > Static IP Address > Primary DNS			
	W78H/W73H/W59R/W57R/W53H/W56H:			
	OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv6 > IP Address Type: Static > Primary DNS			
	DD Phone:			
Handset UI	Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv6 > Type: Static IP > Pri.DNS			
	<u>CP930W:</u>			
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv6 > IP Address Type: Static > Primary DNS			
	<u>CP935W:</u>			
	More > Advanced (default PIN: 0000) > Network > WAN Port > IPv6 > Type: Static IP > Pri.DNS			
Parameter	static.network.ipv6_secondary_dns ^[1] <v000000000xx>.cfg</v000000000xx>			
	It configures the secondary IPv6 DNS server.			
Description	Note: It works only if "static.network.ip_address_mode" is set to 1 (IPv6) or 2 (IPv4 & IPv6). In DHCP environment, you also need to make sure "static.network.ipv6_static_dns_enable" is set to 1 (On).			
Permitted Values	IPv6 Address			
Default	Blank			
Web UI	Network > Basic > IPv6 Config > Static IP Address > Secondary DNS			
	W78H/W73H/W59R/W57R/W53H/W56H:			
	OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv6 > IP Address Type: Static > Secondary DNS			
	DD Phone:			
Handset UI	Menu > Advanced Settings (default password: 0000) > Network > WAN Port > IPv6 > Type: Static IP> Sec.DNS			
	CP930W:			
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > Basic > IPv6 > IP Address Type: Static > Secondary DNS			
	CP935W:			
	More > Advanced (default PIN: 0000) > Network > WAN Port > IPv6 > Type: Static IP> Sec.DNS			
Parameter	static.network.ipv6_icmp_v6.enable <y000000000xx>.cfg</y000000000xx>			
Description	It enables or disables the phone to obtain IPv6 network settings via SLAAC (Stateless Address Auto- configuration).			
	Note: It works only if "static.network.ipv6_internet_port.type" is set to 0 (DHCP).			
Permitted Values	0-Disabled 1-Enabled			
	1			
Default	1			

 $\ensuremath{^{[1]}}\xspace$ If you change this parameter, the phone will reboot to make the change take effect.

DHCP Option for IPv4

The phone can obtain IPv4-related parameters in an IPv4 network via the DHCP option.

Note: For more information on DHCP options, refer to RFC 2131 or RFC 2132.

Topics

Supported DHCP Option for IPv4 DHCP Option 66, Option 43 and Custom Option DHCP Option 42 and Option 2 DHCP Option 12 DHCP Option 60

Supported DHCP Option for IPv4

The following table lists common DHCP options for IPv4 supported by Yealink phones.

Parameters	DHCP Option	Description	
Subnet Mask	1	Specify the client's subnet mask.	
Time Offset	2	Specify the offset of the client's subnet in seconds from Coordinated Universal Time (UTC).	
Router	3	Specify a list of IP addresses for routers on the client's subnet.	
Time Server	4	Specify a list of time servers available to the client.	
Domain Name Server	6	Specify a list of domain name servers available to the client.	
Host Name	12	Specify the name of the client.	
Domain Server	15	Specify the domain name that the client should use when resolving host- names via DNS.	
Network Time Protocol Servers	42	Specify a list of NTP servers available to the client by IP address.	
Vendor-Specific Inform- ation	43	Identify the vendor-specific information.	
Vendor Class Identifier	60	Identify the vendor type.	
TFTP Server Name	66	Identify a TFTP server when the 'sname' field in the DHCP header has been used for DHCP options.	

DHCP Option 66, Option 43 and Custom Option

During the startup, the phone automatically detects the DHCP option for obtaining the provisioning server address. The priority is as follows: custom option > option 66 (identify the TFTP server) > option 43.

The phone can obtain the Auto Configuration Server (ACS) address by detecting option 43 during startup.

Note: If you fail to configure the DHCP options for discovering the provisioning server on the DHCP server, enable the phone to automatically discover the provisioning server address. One possibility is that connecting to the secondary DHCP server that responds to DHCP INFORM queries with a requested provisioning server address. For more information, refer to RFC 3925.

Related Topic

DHCP Provision Configuration

DHCP Option 42 and Option 2

Yealink phones support using the NTP server address offered by DHCP.

DHCP option 42 is used to specify a list of NTP servers available to the client by IP address. NTP servers should be listed in order of preference.

DHCP option 2 is used to specify the offset of the client's subnet in seconds from Coordinated Universal Time (UTC).

Related Topic

NTP Settings

DHCP Option 12

You can specify a hostname for the phone when using DHCP. The DHCP client uses option 12 to send a predefined hostname to the DHCP registration server.

See RFC 1035 for character set restrictions.

Topic

DHCP Option 12 Hostname Configuration

DHCP Option 12 Hostname Configuration

The following table lists the parameter you can use to configure DHCP option 12 hostname.

Parameter	static.network.dhcp_host_name ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It specifies a hostname for the phone when using DHCP.		
Permitted Values	String within 99 characters		
Default	W70B		
Web UI	Features > General Information > DHCP Hostname		

^[1]If you change this parameter, the phone will reboot to make the change take effect.

DHCP Option 60

DHCP option 60 is used to indicate the vendor type. Servers can use option 43 to return the vendor-specific information to the client.

You can set the DHCP option 60 type.

Topic

DHCP Option 60 Configuration

DHCP Option 60 Configuration

The following table lists the parameters you can use to configure DHCP option 60.

Parameter	static.network.dhcp.option60type	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the DHCP option 60 type.		
Permitted	0-ASCII, vendor-identifying information is in ASCII format.		
Values	1-Binary, vendor-identifying information is in the format defined in RFC 3925.		
Default	0		
Parameter	static.auto_provision.dhcp_option.option60_value	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the vendor class identifier string to use in the DHCP interaction.		

Permitted Values	String within 99 characters
Default	yealink
Web UI	Settings > Auto Provision > IPv4 DHCP Option Value

DHCP Option for IPv6

The phone can obtain IPv6-related parameters in an IPv6 network via DHCP option.

Topics

Supported DHCP Option for IPv6 DHCP Option 59 and Custom Option

Supported DHCP Option for IPv6

The following table lists common DHCP options for IPv6 supported by Yealink phones.

Parameters	DHCPv6 Option	Description	
DNS Server	23	Specify a list of DNS servers available to the client.	
DNS Domain Search List	24	Specify a domain search list to a client.	
SNTP Server	1 31	Specify a list of Simple Network Time Protocol (SNTP) servers available to the client.	
Information Refresh Time		Specify an upper bound for how long a client should wait before refreshing information retrieved from DHCPv6.	
Boot File URL	59	Specify a URL for the boot file to be downloaded by the client.	

DHCP Option 59 and Custom Option

During the startup, the phone automatically detects the DHCP option for obtaining the provisioning server address. The priority is as follows: custom option > option 59.

Related Topic

DHCP Provision Configuration

VLAN

The purpose of VLAN configurations on the phone is to insert a tag with VLAN information to the packets generated by the phone. When VLAN is properly configured for the ports (Internet port and PC port) on the phone, the phone will tag all packets from these ports with the VLAN ID. The switch receives and forwards the tagged packets to the corresponding VLAN according to the VLAN ID in the tag as described in IEEE Std 802.3.

In addition to manual configuration, the phone also supports the automatic discovery of VLAN via LLDP, CDP or DHCP. The assignment takes effect in this order: assignment via LLDP/CDP, manual configuration, then assignment via DHCP.

For more information on VLAN, refer to VLAN Feature on Yealink IP Phones.

Topics

LLDP Configuration CDP Configuration Manual VLAN Configuration DHCP VLAN Configuration VLAN Change Configuration

LLDP Configuration

LLDP (Linker Layer Discovery Protocol) is a vendor-neutral Link Layer protocol, which allows the phones to advertise its identity and capabilities on the local network.

When LLDP feature is enabled on the phones, the phones periodically advertise their own information to the directly connected LLDP-enabled switch. The phones can also receive LLDP packets from the connected switch and obtain their VLAN IDs.

The following table lists the parameters you can use to configure LLDP.

Parameter	static.network.lldp.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the LLDP feature.		
Permitted	0-Disabled		
Values	1-Enabled, the phone attempts to determine its VLAN ID through LLDP.		
Default	1		
Web UI	Network > Advanced > LLDP > Active		
Parameter	static.network.lldp.packet_interval ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the interval (in seconds) that how often the phone sends the LLDP request.		
	Note: It works only if "static.network.lldp.enable" is set to 1 (Enabled).		
Permitted Values	Integer from 1 to 3600		
Default	60		
Web UI	Network > Advanced > LLDP > Packet Interval (1~3600s)		

^[1]If you change this parameter, the phone will reboot to make the change take effect.

CDP Configuration

CDP (Cisco Discovery Protocol) allows the phones to receive and/or transmit device-related information from/to directly connected devices on the local network.

When CDP feature is enabled on the phones, the phones periodically advertise their own information to the directly connected CDP-enabled switch. The phones can also receive CDP packets from the connected switch and obtain their VLAN IDs.

The following table lists the parameters you can use to configure CDP.

Parameter	static.network.cdp.enable ^[1]	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the CDP feature.			
Permitted	0-Disabled			
Values	1-Enabled, the phone attempts to determine its VLAN ID through CDP.			
Default	1			
Web UI	Network > Advanced > CDP > Active			
Parameter	static.network.cdp.packet_interval ^[1]	<y000000000xx>.cfg</y000000000xx>		
	It configures the interval (in seconds) that how often the phone sends the CDP request.			
Description	Note: It works only if "static.network.cdp.enable" is set to 1 (Enabled).			
Permitted	Integer from 1 to 3600			

Values	
Default	60
Web UI	Network > Advanced > CDP > Packet Interval (1~3600s)

^[1]If you change this parameter, the phone will reboot to make the change take effect.

Manual VLAN Configuration

You can configure VLAN for the Internet port manually. Before configuring VLAN on the phones, you need to obtain the VLAN ID from your network administrator.

The following table lists the parameters you can use to configure VLAN manually.

Parameter	static.network.vlan.internet_port_enable ^[1]	<y0000000000xx>.cfg</y0000000000xx>		
Description	It enables or disables the VLAN for the Internet port.			
Permitted Values	0-Disabled 1-Enabled			
Default	0			
Web UI	Network > Advanced > VLAN > WAN Port > Active			
	W78H/W73H/W59R/W57R/W53H/W56H:			
	OK > Settings > System Settings > Network (default PIN: 0000) > VLAN	> VLAN Parameter > Status		
Handset UI	DD Phone:			
	Menu > Advanced Settings (default password: 0000) > Network > VLAN	I > WAN Port > VLAN Status		
	CP930W:			
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > VLAN > VLAN Parameter > Status			
	<u>CP935W:</u>			
	More > Advanced (default PIN: 0000) > Network > VLAN > WAN Port > VLAN Status			
Parameter	static.network.vlan.internet_port_vid ^[1]	<y000000000xx>.cfg</y000000000xx>		
Description	Note: It works only if "static.network.vlan.internet_port_enable" is set to 1 (Enabled).			
•				
Permitted Values	Integer from 1 to 4094			
Default	1			
Web UI	Network > Advanced > VLAN > WAN Port > VID (1-4094)			
	W78H/W73H/W59R/W57R/W53H/W56H:			
	OK > Settings > System Settings > Network (default PIN: 0000) > VLAN > VLAN Parameter > Status: Enabled > VID			
Handset UI	DD Phone:			
	Menu > Advanced Settings (default password: 0000) > Network > VLAN > WAN Port > VID Number			
	CP930W:			
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > VLAN > VLAN Parameter > Status: Enabled > VID			

	CP935W:		
	More > Advanced (default PIN: 0000) > Network > VLAN > WAN Port > VLAN Status: Enabled > VID Number		
Parameter	static.network.vlan.internet_port_priority ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the VLAN priority for the Internet port.		
Description	7 is the highest priority, 0 is the lowest priority.		
	Note: It works only if "static.network.vlan.internet_port_enable" is set to	1 (Enabled).	
Permitted Values	Integer from 0 to 7		
Default	0		
Web UI	Network > Advanced > VLAN > WAN Port > Priority		
-	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Settings > System Settings > Network (default PIN: 0000) > VLAN > VLAN Parameter > Status: Enabled > Priority		
	DD Phone:		
	Menu > Advanced Settings (default password: 0000) > Network > VLAN > WAN Port > Priority		
Handset UI	<u>CP930W:</u>		
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > VLAN > VLAN Parameter > Status: Enabled > Priority		
	<u>CP935W:</u>		
	More > Advanced (default PIN: 0000) > Network > VLAN > WAN Port > VLAN Status: Enabled > Pri- ority		

DHCP VLAN Configuration

When the VLAN discovery method is set to DHCP, the phone examines the DHCP option for a valid VLAN ID. You can customize the DHCP option used to request the VLAN ID.

The following table lists the parameters you can use to configure DHCP VLAN discovery.

Parameter	static.network.vlan.dhcp_enable ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the DHCP VLAN discovery feature.	
	0-Disabled 1-Enabled	
Default	1	
Web UI	Network > Advanced > VLAN > DHCP VLAN > Active	
	W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Network (default PIN: 0000) > VLAN > VLAN DHCP > Status DD Phone: Menu >Advanced Settings (default password: 0000) > Network > VLAN > DHCP VLAN > DHCP VLAN <u>CP930W:</u> Menu > Settings > Advanced Settings (default PIN: 0000) > Network > VLAN > VLAN DHCP > Status	

	CP935W:		
	More > Advanced (default PIN: 0000) > Network > VLAN > DHCP VLAN > DHCP VLAN		
Parameter	static.network.vlan.dhcp_option ^[1] <y00000000xx>.cfg</y00000000xx>		
Description	It configures the DHCP option from which the phone will obtain the VLAN settings.		
	Multiple DHCP options (at most five) are separated	by commas.	
Permitted Values	Integer from 1 to 255		
Default	132		
Web UI	Network > Advanced > VLAN > DHCP VLAN > Option (1-255)		
	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Settings > System Settings > Network (default PIN: 0000) > VLAN > VLAN DHCP > Status: Enabled > Options		
	DD Phone:		
	Menu >Advanced Settings (default password: 0000) > Network > VLAN > DHCP VLAN > Option		
Handset UI	CP930W:		
	Menu > Settings > Advanced Settings (default PIN: 0000) > Network > VLAN > VLAN DHCP > Status: Enabled > Options		
	CP935W:		
More > Advanced (default PIN: 0000) > Network > VLAN > DHCP VLAN > D Option		'LAN > DHCP VLAN > DHCP VLAN: Enabled >	

VLAN Change Configuration

The following table lists the parameter you can use to configure the VLAN change.

Parameter	static.network.vlan.vlan_change.enable ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to obtain VLAN ID method, or to close the VLAN feature when the pho	ne cannot obtain VLAN ID.
	The priority of each method is LLDP/CDP > Manua	I > DHCP VLAN.
	0-Disabled	
Permitted Values	1-Enabled, the phone attempts to use the lower priority method when failing to obtain the VLAN ID using higher priority method. If all the methods are attempted, the phone will disable VLAN feature.	
Default	0	

^[1]If you change this parameter, the phone will reboot to make the change take effect.

Real-Time Transport Protocol (RTP) Ports

Since the phone supports conferencing and multiple RTP streams, it can use several ports concurrently. You can specify the phone's RTP port range.

The UDP port used for RTP streams is traditionally an even-numbered port. If the port 11780 is used to send and receive RTP for the first voice session, additional calls would then use ports 11782, 11784, 11786, and so on. The phone is compatible with RFC 1889 - RTP: A Transport Protocol for Real-Time Applications - and the updated RFC 3550.

Topic

RTP Ports Configuration

RTP Ports Configuration

The following table lists the parameters you can use to configure RTP ports.

Parameter	static.network.port.min_rtpport ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the minimum local RTP port.	
Permitted Values	Integer from 1024 to 65535	
Default	11780	
Web UI	Network > Advanced > Local RTP Port > Min RTP Port (1024~65535	5)
Parameter	static.network.port.max_rtpport ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the maximum local RTP port.	
Permitted Values	Integer from 1024 to 65535	
Default	12780	
Web UI	Network > Advanced > Local RTP Port > Max RTP Port (1024~6553	5)
Parameter	static.dm.X.network.port.min_rtpport ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>
Description	It configures the minimum local RTP port of the DM.	
Permitted Values	Integer from 1024 to 65535	
Default	11780	
Web UI	(VIM) Network > Advanced > Local RTP Port > Min RTP Port (1024~	65535)
Parameter	static.dm.X.network.port.max_rtpport ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>
Description	It configures the maximum local RTP port of the DM.	
Permitted Values	Integer from 1024 to 65535	
Default	12780	
Web UI	(VIM) Network > Advanced > Local RTP Port > Max RTP Port (1024~65535)	
Parameter	features.rtp_symmetric.enable	<y000000000xx>.cfg</y000000000xx>
Description	It configures the symmetrical RTP feature.	
Permitted Values	 0-Disabled 1-reject RTP packets arriving from a non-negotiated IP address 2-reject RTP packets arriving from a non-negotiated port 3-reject RTP packets arriving from a non-negotiated IP address or a non-negotiated port 	
Default	0	

 $\ensuremath{^{[1]}}\xspace$ If you change this parameter, the phone will reboot to make the change take effect.

Network Address Translation (NAT)

NAT enables phones with private unregistered addresses to communicate with devices with globally unique registered addresses.

Topics

NAT Traversal Configuration Keep Alive Configuration Rport Configuration SIP Port and TLS Port Configuration

NAT Traversal Configuration

The phones can traverse NAT gateways to establish and maintain connections with external devices.

Yealink phones support three NAT traversal techniques: manual NAT, STUN and ICE. If you enable manual NAT and STUN, the phone will use the manually-configured external IP address for NAT traversal. The TURN protocol is used as part of the ICE approach to NAT traversal.

The following table lists the parameters you can use to configure NAT traversal.

Parameter	account.X.nat.nat_traversal ^[1]	<mac>.cfg</mac>	
	It enables or disables the NAT traversal for a specific account.		
Description	Note: If it is set to 1 (STUN), it works only if "static.si to 2 (Manual NAT), it works only if "static.network.st	p.nat_stun.enable" is set to 1 (Enabled); if it is set atic_nat.enable" is set to 1 (Enabled).	
	0-Disabled		
Permitted Values	1-STUN		
	2-Manual NAT		
Default	0		
Web UI	Account > Register > NAT		
Parameter	static.network.static_nat.enable ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the manual NAT feature.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Network > NAT > Manual NAT > Active		
Parameter	static.network.static_nat.addr	<y000000000xx>.cfg</y000000000xx>	
	It configures the IP address to be advertised in SIP	signaling.	
Description	It should match the external IP address used by the NAT device.		
	Note: It works only if "static.network.static_nat.enable" is set to 1 (Enabled).		
Permitted Values	IP Address		
Default	Blank		
Web UI	Network > NAT > Manual NAT > IP Address		
Parameter	static.sip.nat_stun.enable	<y000000000xx>.cfg</y000000000xx>	

Description	It enables or disables the STUN (Simple Traversal of UDP over NATs) feature.	
	0-Disabled 1-Enabled	
Default	0	
Web UI	Network > NAT > STUN > Active	
Parameter	static.sip.nat_stun.server	<y000000000xx>.cfg</y000000000xx>
Description	It configures the IP address or domain name of the	STUN server.
Permitted	Note: It works only if "static.sip.nat_stun.enable" is a	set to 1 (Enabled).
Values	String	
Default	Blank	
Web UI	Network > NAT > STUN > STUN Server	
Parameter	static.sip.nat_stun.port	<y000000000xx>.cfg</y000000000xx>
Description	It configures the port of the STUN server.	
Permitted	Note: It works only if "static.sip.nat_stun.enable" is	set to 1 (Enabled).
Values	Integer from 1024 to 65535	
Default	3478	
Web UI	Network > NAT > STUN > STUN Port (1024~65535)	
Parameter	static.ice.enable ^[2] <y00000000xx>.cfg</y00000000xx>	
Description	It enables or disables the ICE (Interactive Connecti	vity Establishment) feature.
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Web UI	Network > NAT > ICE > Active	
Parameter	static.sip.nat_turn.enable ^[2]	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the TURN (Traversal Using Relays around NAT) feature.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Web UI	Network > NAT > TURN > Active	
Parameter	static.sip.nat_turn.server ^[2] <y00000000xx>.cfg</y00000000xx>	
Description	It configures the IP address or the domain name of	the TURN server.
	Note: It works only if "static.sip.nat_turn.enable" is set to 1 (Enabled).	
Permitted Values	IP Address or Domain Name	
Default	Blank	

Web UI	Network > NAT > TURN > TURN Server		
Parameter	static.sip.nat_turn.port ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the port of the TURN server.		
Description	Note: It works only if "static.sip.nat_turn.enable" is set to 1 (Enabled).		
Permitted Values	Integer from 1024 to 65535		
Default	3478		
Web UI	Network > NAT > TURN > TURN Port (1024~65535)		
Parameter	static.sip.nat_turn.username ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the user name to authenticate to the TURN server.		
Description	Note: It works only if "static.sip.nat_turn.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Web UI	Network > NAT > TURN > User Name (Username)		
Parameter	static.sip.nat_turn.password ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the password to authenticate to the TURN server.		
Description	Note: It works only if "static.sip.nat_turn.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Web UI	Network > NAT > TURN > Password		

 $^{[1]}X$ is the account ID. X=1-10.

^[2]If you change this parameter, the phone will reboot to make the change take effect.

Keep Alive Configuration

Yealink phones can send keep-alive packets to the NAT device for keeping the communication port open.

The following table lists the parameters you can use to configure keep alive.

Parameter	account.X.nat.udp_update_enable ^[1]	<mac>.cfg</mac>
Description	It sets the type of keep-alive packets sent by phone.	
Permitted	 0-Disabled 1-Default (the phone sends the corresponding packets according to the transport protocol) 2-Options (the phone sends SIP OPTIONS packets to the server) 3-Notify (the phone sends SIP NOTIFY packets to the server) 	
Default	1	
Web UI	Account > Advanced > Keep Alive Type	
Parameter	account.X.nat.udp_update_time ^[1]	<mac>.cfg</mac>

	It configures the interval (in seconds) at which the phone sends a keep-alive package.
Description Note: It works only if "account.X.nat.udp_update_enable" is set to 1, 2 or 3.	
Permitted Values	Integer from 0 to 3600
Default	30
Web UI	Account > Advanced > Keep Alive Interval(Seconds)

[1]X is the account ID. X=1-10.

Rport Configuration

Rport allows a client to request that the server sends the response back to the source IP address and port from which the request originated. It helps the phone traverse symmetric NATs.

Rport feature depends on support from a SIP server. For more information, refer to RFC 3581.

The following table lists the parameter you can use to configure rport.

Parameter	account.X.nat.rport ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to add the "rport" parameter in the Via header.	
Permitted 0-Disabled 1-Enabled, the INVITE Contact header uses the port in the "rport" parameter but does r source IP address in the "received" parameter in the Via header of server's response. 2-Enable Direct Process, the INVITE Contact header uses the port in the "rport" parameter in the source IP address in the "received" parameter in the Via header of server's response.		
Default	0	
Web UI	Account > Advanced > RPort	

[1]X is the account ID. X=1-10.

SIP Port and TLS Port Configuration

You can configure the SIP and TLS source ports on the phone. Otherwise, the phone uses default values (5060 for UDP/TCP and 5061 for TLS).

If NAT is disabled, the port number shows in the Via and Contact SIP headers of SIP messages. If NAT is enabled, the phone uses the NAT port number (and NAT IP address) in the Via and Contact SIP headers of SIP messages, but still using the configured source port.

The following table lists the parameters you can use to configure SIP port and TLS port.

Parameter	sip.listen_port	<y000000000xx>.cfg</y000000000xx>
Description	It specifies the local SIP port. If it is set to 0, the phone will automatically listen to the local SIP port.	
Permitted Values	0, Integer from 1024 to 65535	
Default	5060	
Web UI	Settings > SIP > Local SIP Port	
Parameter	sip.tls_listen_port	<y000000000xx>.cfg</y000000000xx>
Description	It specifies the local TLS listen port.	

	If it is set to 0, the phone will not listen to the TLS service.
Permitted Values	0, Integer from 1024 to 65535
Default	5061
Web UI	Settings > SIP > TLS SIP Port

VPN

Yealink phones use OpenVPN to achieve VPN feature. To prevent disclosure of private information, tunnel endpoints must authenticate each other before a secure VPN tunnel is established. After you configure VPN feature on the IP phone, the phone will act as a VPN client and use the certificates to authenticate with the VPN server.

For more information, refer to OpenVPN Feature on Yealink phones.

Topics

OpenVPN Related Files VPN Configuration

OpenVPN Related Files

To use OpenVPN, you should collect the VPN-related files into one archive file in .tar format and then upload this tar file. The VPN-related files include certificates (ca.crt and client.crt), key (client.key) and the configuration file (vpn.cnf) of the VPN client.

The following table lists the unified directories of the OpenVPN certificates and key in the configuration file (vpn.cnf) for Yealink phones:

VPN Files	Description	Unified Directories
ca.crt	CA certificate	/config/openvpn/keys/ca.crt
client.crt	Client certificate	/config/openvpn/keys/client.crt
client.key	Private key of the client	/config/openvpn/keys/client.key

VPN Configuration

The following table lists the parameters you can use to configure the VPN.

Parameter	static.network.vpn_enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the OpenVPN feature.	It enables or disables the OpenVPN feature.	
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Web UI	Network > Advanced > VPN > Active		
Parameter	static.openvpn.url <y00000000xx>.cfg</y00000000xx>		
Description	It configures the access URL of the *.tar file for OpenVPN.		
Permitted Values	URL within 511 characters		
Default	Blank		

Web UI	Network > Advanced > VPN > Upload VPN Config		
Parameter	static.network.openvpn_file.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the URL for uploading the OpenVPN configuration file (vpn.cnf).		
•	Note: It works only if "static.network.vpn.mode" is se	t to 1 (OpenVPN).	
Permitted Values	String within 512 characters		
Default	Blank		
Web UI	Network > Advanced > VPN > OpenVPN > Import VPN Configuration File		
Parameter	static.network.l2tp_server.address	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the L2TP server address.		
Description	Note: It works only if "static.network.vpn.mode" is set to 0 (L2TP).		
Permitted Values	String within 512 characters		
Default	Blank		
Parameter	static.network.l2tp_server.username <y000000000xx>.cfg</y000000000xx>		
Description	It configures the user name of the L2TP server.		
Description	Note: It works only if "static.network.vpn.mode" is set to 0 (L2TP).		
	Note. It works only it static.network.vpn.mode is se	t to 0 (L2TP).	
Permitted Values	String within 512 characters	t to 0 (L2TP).	
Values		it to 0 (L2TP).	
Values Default	String within 512 characters	<y000000000xx>.cfg</y000000000xx>	
Values Default Parameter	String within 512 characters Blank		
Values Default Parameter Description	String within 512 characters Blank static.network.l2tp_server.password	<y00000000xx>.cfg</y00000000xx>	
Values Default Parameter Description	String within 512 characters Blank static.network.l2tp_server.password It configures the password of the L2TP server.	<y00000000xx>.cfg</y00000000xx>	
Values Default Parameter Description Permitted Values	String within 512 characters Blank static.network.l2tp_server.password It configures the password of the L2TP server. Note : It works only if "static.network.vpn.mode" is se	<y00000000xx>.cfg</y00000000xx>	

Example: Using VPN based on L2TP Protocol

Before you begin

You have set up the L2TP VPN server.

Procedure

- 1. Set the following parameters in the configuration file and perform an auto provisioning.
 - #Set the VPN type to L2TP.

static.network.vpn.mode = 0

#Configure the address, user name, and password of the L2TP server.

static.network.l2tp_server.address = 192.168.10.25

static.network.l2tp_server.username = vpnuser

static.network.l2tp_server.password = 0123456

2. After provisioning, connect the phone to the VPN environment.

Quality of Service (QoS)

VoIP is extremely bandwidth and delay-sensitive. QoS is a major issue in VoIP implementations, regarding how to guarantee that packet traffic is not delayed or dropped due to interference from other lower priority traffic. VoIP can guarantee high-quality QoS only if the voice and the SIP packets are given priority over other kinds of network traffic. The phones support the DiffServ model of QoS.

Voice QoS

In order to make VoIP transmissions intelligible to receivers, voice packets should not be dropped, excessively delayed, or made to suffer varying delay. DiffServ model can guarantee high-quality voice transmission when the voice packets are configured to a higher DSCP value.

SIP QoS

The SIP protocol is used for creating, modifying, and terminating two-party or multi-party sessions. To ensure good voice quality, SIP packets emanated from the phones should be configured with a high transmission priority.

DSCPs for voice and SIP packets can be specified respectively.

Note: For voice and SIP packets, the phone obtains DSCP info from the network policy if LLDP feature is enabled, which takes precedence over manual settings. For more information on LLDP, refer to LLDP Configuration.

Topic

Voice and SIP QoS Configuration

Voice and SIP QoS Configuration

The following table lists the parameters you can use to configure voice QoS and SIP QoS.

Parameter	static.network.qos.audiotos ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the DSCP (Differentiated Services Code Point) for voice packets.		
Description	The default DSCP value for RTP packets is 46 (Expedited Forwarding).		
Permitted Values	Integer from 0 to 63		
Default	46		
Web UI	Network > Advanced > QoS > Voice QoS/Audio QoS (0~63) (0~63)		
Parameter	static.network.qos.signaltos ^[1] <y00000000xx>.cfg</y00000000xx>		
It configures the DSCP (Differentiated Services Co		Point) for SIP packets.	
Description	The default DSCP value for SIP packets is 26 (Assured Forwarding).		
Permitted Values	Integer from 0 to 63		
Default	26		
Web UI	Network > Advanced > QoS > SIP QoS (0~63)		

^[1]If you change this parameter, the phone will reboot to make the change take effect.

802.1x Authentication

Yealink phones support the following protocols for 802.1x authentication:

- EAP-MD5
- EAP-TLS (requires Device and CA certificates, requires no password)

- EAP-PEAP/MSCHAPv2 (requires CA certificates)
- EAP-TTLS/EAP-MSCHAPv2 (requires CA certificates)
- EAP-PEAP/GTC (requires CA certificates)
- EAP-TTLS/EAP-GTC (requires CA certificates)
- EAP-FAST (supports EAP In-Band provisioning, requires CA certificates if the provisioning method is Authenticated Provisioning)

For more information on 802.1x authentication, refer to Yealink 802.1X Authentication.

Topic

802.1x Authentication Configuration

802.1x Authentication Configuration

The following table lists the parameters you can use to configure 802.1x authentication.

Parameter	static.network.802_1x.mode ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the 802.1x authentication method.		
Permitted Values	0-EAP-None, no authentication		
	1-EAP-MD5		
	2-EAP-TLS		
	3-EAP-PEAP/MSCHAPv2		
	4-EAP-TTLS/EAP-MSCHAPv2		
	5-EAP-PEAP/GTC		
	6-EAP-TTLS/EAP-GTC		
	7-EAP-FAST		
Default	0		
Web UI	Network > Advanced > 802.1x > 802.1x Mode		
Parameter	static.network.802_1x.eap_fast_provision_mode ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the EAP In-Band provisioning method for EAP-FAST.		
Description	Note: It works only if "static.network.802_1x.mode" is set to 7 (EAI		
Permitted	0 -Unauthenticated Provisioning, EAP In-Band provisioning is enabled by server unauthenticated PAC (Protected Access Credential) provisioning using the anonymous Diffie-Hellman key exchange.		
Values	1-Authenticated Provisioning, EAP In-Band provisioning is enabled by server authenticated PAC pro- visioning using certificate-based server authentication.		
Default	0		
Web UI	Network > Advanced > 802.1x > Provisioning Mode		
Parameter	static.network.802_1x.anonymous_identity ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the anonymous identity (user name) for 802.1X authentication.		
Description	It is used for constructing a secure tunnel for 802.1X authentication.		
	Note: It works only if "static.network.802_1x.mode" is set to 2, 3, 4, 5, 6 or 7.		
Permitted Values	String within 512 characters		

Default	Blank		
Web UI	Network > Advanced > 802.1x > Anonymous Identity		
Parameter	static.network.802_1x.identity ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the identity (user name) for 802.1x authentication.		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Network > Advanced > 802.1x > Identity		
Parameter	static.network.802_1x.md5_password ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the password for 802.1x authentication.		
Description	Note: It is required for all methods except EAP-TLS.		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Network > Advanced > 802.1x > MD5 Password		
Parameter	static.network.802_1x.root_cert_url	<y000000000xx>.cfg</y000000000xx>	
	It configures the URL for uploading the 802.1x CA certificate.		
	The format of the certificate must be *.pem, *.crt, *.cer or *.der.		
Description	Note : It works only if "static.network.802_1x.mode" is set to 2, 3, 4, 5, 6 or 7. If the authentication method is EAP-FAST, you also need to set "static.network.802_1x.eap_fast_provision_mode" to 1 (Authenticated Provisioning).		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Network > Advanced > 802.1x > CA Certificates		
Parameter	static.network.802_1x.client_cert_url	<y000000000xx>.cfg</y000000000xx>	
	It configures the URL for uploading the 802.1x client certificate.		
Description	The format of the certificate must be *.pem.		
	Note: It works only if "static.network.802_1x.mode" is set to 2 (EAP-TLS).		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Network > Advanced > 802.1x > Device Certificates		

TR-069 Device Management

TR-069 is a technical specification defined by the Broadband Forum, which defines a mechanism that encompasses secure auto-configuration of a CPE (Customer-Premises Equipment), and incorporates other CPE management functions into a common framework. TR-069 uses common transport mechanisms (HTTP and HTTPS) for communication between CPE and ACS (Auto Configuration Servers). The HTTP(S) messages contain XML-RPC methods defined in the standard for configuration and management of the CPE.

Topics

Supported RPC Methods TR-069 Configuration

Supported RPC Methods

The following table provides a description of RPC methods supported by the phones.

RPC Method	Description
GetRPCMethods This method is used to discover the set of methods supported by the CPE.	
SetParameterValues This method is used to modify the value of one or more CPE parameters.	
GetParameterValues This method is used to obtain the value of one or more CPE parameters.	
GetParameterNames This method is used to discover the parameters accessible on a particular CPE.	
GetParameterAttributes	This method is used to read the attributes associated with one or more CPE parameters.
SetParameterAttributes	This method is used to modify attributes associated with one or more CPE parameters.
Reboot	This method causes the CPE to reboot.
	This method is used to cause the CPE to download a specified file from the designated loc- ation.
Download	File types supported by the phones are:
	Firmware Image
	Configuration File
	This method is used to cause the CPE to upload a specified file to the designated location.
Upload	File types supported by the phones are:
	Configuration File
	Log File
ScheduleInform This method is used to request the CPE to schedule a one-time Inform method arate from its periodic Inform method calls) sometime in the future.	
FactoryReset This method resets the CPE to its factory default state.	
TransferComplete This method informs the ACS of the completion (either successful or unsuccess transfer initiated by an earlier Download or Upload method call.	
AddObject This method is used to add a new instance of an object defined on the CPE.	
DeleteObject	This method is used to remove a particular instance of an object.

TR-069 Configuration

The following table lists the parameters you can use to configure TR-069.

Parameter	static.managementserver.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the TR-069 feature.	
Permitted	d 0-Disabled	
Values 1-Enabled		

Default	0		
Web UI	Settings > TR069 > Enable TR069		
Parameter	, ,	<y000000000xx>.cfg</y000000000xx>	
	It configures the TR-069 ACS server user name used to authenticate		
Description	Leave it blank if no authentication is required.		
Permitted Values	String within 128 characters		
Default	Blank		
Web UI	Settings > TR069 > ACS Username		
Parameter	static.managementserver.password	<y000000000xx>.cfg</y000000000xx>	
Decerintien	It configures the TR-069 ACS server password used to authenticate the phone.		
Description	Leave it blank if no authentication is required.		
Permitted Values	String within 64 characters		
Default	Blank		
Web UI	Settings > TR069 > ACS Password		
Parameter	static.managementserver.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the TR-069 ACS server.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Settings > TR069 > ACS URL		
Parameter	static.managementserver.connection_request_username	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the user name used to authenticate the connection requests from the ACS server.		
Permitted Values	String within 128 characters		
Default	Blank		
Web UI	Settings > TR069 > Connection Request Username		
Parameter	static.managementserver.connection_request_password	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the password used to authenticate the connection reque	sts from the ACS server.	
Permitted Values	String within 64 characters		
Default	Blank		
Web UI	Settings > TR069 > Connection Request Password		
Parameter	static.managementserver.periodic_inform_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to periodically report its configuration	n information to the ACS server.	
Permitted Values	0-Disabled		

	1-Enabled	
Default	1	
Web UI	Settings > TR069 > Enable Periodic Inform	
Parameter	static.managementserver.periodic_inform_interval	<y000000000xx>.cfg</y000000000xx>
Description	It configures the interval (in seconds) at which the phone reports its configuration to the ACS server. Note: It works only if "static.managementserver.periodic_inform_enable" is set to 1 (Enabled).	
Permitted Values	Integer from 5 to 4294967295	
Default	60	
Web UI	Settings > TR069 > Periodic Inform Interval (seconds)	

Phone Provisioning

You can provision multiple phones with the same settings for large-scale deployments.

For more information, refer to Yealink SIP IP Phones Auto Provisioning Guide.

Topics

Boot Files, Configuration Files, and Resource Files Provisioning Methods Setting Up a Provisioning Server Keeping User's Personalized Settings after Auto Provisioning

Boot Files, Configuration Files, and Resource Files

You can use boot files, configuration files, and resource files to configure phone features and apply feature settings to phones. You can create or edit these files using a text editor such as Notepad++.

You can ask the distributor or Yealink FAE for template files. You can also obtain the template files online: http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

Topics

Boot Files Configuration Files Resource Files Files Download Process

Boot Files

Yealink phones support boot files. The boot files maximize the flexibility to allow you to customize features and settings for multiple phones.

With the boot file, you can specify which configuration files should be downloaded. It is effective for you to provision the phones in different deployment scenarios:

- · For all phones
- For a group of phones
- For a single phone

Yealink phones support two types of boot files: common boot file and MAC-Oriented boot file. You can use the default boot template file "y000000000000.boot" to create MAC-Oriented boot file by making a copy and renaming it.

Note: You can select whether to use the boot file or not according to your deployment scenario. If you do not want to use the boot file, please go to Configuration Files.

Topics

Common Boot File MAC-Oriented Boot File Boot File Attributes Customizing a Boot File

Common Boot File

Common boot file, named y000000000000.boot, is effective for all phones. You can use a common boot file to apply common feature settings to all of the phones rather than a single phone.

MAC-Oriented Boot File

MAC-Oriented boot file, named <MAC>.boot. It will only be effective for a specific IP phone. In this way, you have high permission to control each phone by making changes on a per-phone basis.

You can create a MAC-Oriented boot file for each phone by making a copy and renaming the boot template file (y00000000000.boot). For example, if your phone MAC address is 00156574B150, rename the template file as 00156574b150.boot (lowercase).

Tip: MAC address, a unique 12-digit serial number is assigned to each phone. You can obtain it from the bar code on the back of the base.

Boot File Attributes

The following table lists the attributes you need to know in the boot template file.

Attributes	Description	
#!version:1.0.0.1	It must be placed in the first line. Do not edit and delete.	
	Each "include" statement can specify a location of a configuration file. The con- figuration file format must be *.cfg.	
	The locations in the angle brackets or double quotation marks support two forms:	
include:config <xxx.cfg></xxx.cfg>	Relative path (relative to the boot file):	
include:config "xxx.cfg"	For example, sip.cfg, HTTP Directory/sip.cfg	
	Absolute path (or URL):	
	For example, http://10.2.5.258/HTTP Directory/sip.cfg	
	The location must point to a specific CFG file.	
	Enable or disable the overwrite mode.	
	1-(Enabled) - If the value of a parameter in configuration files is left blank, or if a non-static parameter in configuration files is deleted or commented out, the fact- ory default value takes effect.	
overwrite_mode	0 -(Disabled) - If the value of a parameter in configuration files is left blank, deleted or commented out, the pre-configured value is kept.	
	Note : Overwrite mode can only be used in boot files. If a boot file is used but "overwrite_mode" is not configured, the overwrite mode is enabled by default.	

Tip: The line beginning with "#" is considered to be a comment. You can use "#" to make any comment on the boot file.

Customizing a Boot File

Procedure

- 1. Open a boot template file.
- 2. To add a configuration file, add include:config < > or include:config "" to the file. Each starts on a separate line.
- Specify a configuration file for downloading. For example: include:config <configure/sip.cfg > include:config "http://10.2.5.206/configure/account.cfg" include:config "http://10.2.5.206/configure/dialplan.cfg"
- 4. Specify the overwrite mode.

For example: overwrite_mode = 1 5. Save the boot file and place it on the provisioning server.

Related Topic

Boot File Attributes

Configuration Files

Yealink supports two configuration template files: Common CFG file and MAC-Oriented CFG file.

These configuration files contain two kinds of parameters:

- Static: The parameters start with a prefix "static.", for example, static.auto_provision.custom.protect.
- Non-static: The parameters do not start with a prefix "static.", for example, local_time.date_format.

You can deploy and maintain a mass of Yealink phones automatically through configuration files stored in a provisioning server.

Note: For protecting against unauthorized access, you can encrypt configuration files. For more information on encrypting configuration files, refer to Encrypting and Decrypting Files.

Topics

Common CFG File MAC-Oriented CFG File MAC-local CFG File Configuration File Customization Configuration File Attributes

Common CFG File

Common CFG file, named <y000000000x>.cfg, contains parameters that affect the basic operation of the IP phone, such as language and volume. It will be effective for all phones in the same model. The common CFG file has a fixed name for each phone model.

The name of the common CFG file for W70B device is y00000000146.cfg.

MAC-Oriented CFG File

MAC-Oriented CFG file, which is named after the MAC address of the IP phone. For example, if the MAC address of an IP phone is 00156574B150, the name of MAC-Oriented CFG file is 00156574b150.cfg (lowercase). It contains parameters unique to a particular phone, such as account registration. It will only be effective for a MAC-specific IP phone.

MAC-local CFG File

MAC-local CFG file, which is named after the MAC address of the IP phone. For example, if the MAC address of an IP phone is 00156574B150, the name of the MAC-local CFG file is 00156574b150-local.cfg (lowercase). It contains changes associated with a non-static parameter that you make via the web user interface or handset user interface (for example, changes for time and date formats).

This file generates only if you enable the provisioning priority mechanism. It is stored locally on the IP phone and you can upload it to the provisioning server each time the file updates. This file enables the users to keep their personalized configuration settings, even though the IP phone performs auto provisioning.

Note: The non-static changes that you made before enabling the provisioning priority mechanism are not saved in the generated MAC-local file, but the previous settings still take effect on the phone. The static changes are never be saved to the <MAC>-local.cfg file.

The provisioning priority mechanism is enabled by the parameter "static.auto_provision.custom.protect".

Configuration File Customization

You can create some new CFG files by making a copy and renaming the configuration template file (for example, sip.cfg, account.cfg). You can rearrange the parameters in the configuration template file and create your own con-

figuration files with parameters you want. This flexibility is especially useful when you want to apply specific settings to a group of phones.

Topic

Customizing a Configuration File

Customizing a Configuration File

- 1. Copy and rename a configuration template file. For example, sip.cfg.
- 2. Rearrange the parameters in the sip.cfg, and set the valid values for them.

For example: account.1.anonymous_call = 1 account.2.dnd.enable = 1

3. Save the configuration file and place it on the provisioning server.

Related Topic

Configuration File Attributes

Configuration File Attributes

The following table lists the attributes you need to know in the configuration template file.

Attributes	Description
#!version:1.0.0.1	It must be placed in the first line. Do not edit and delete.
Configuration Parameter=Valid Value (for example, accoun- t.1.dnd.enable = 1)	 Specify the parameters and values to apply specific settings to the phones. Separate each configuration parameter and value with an equal sign Set only one configuration parameter per line Put the configuration parameter and value on the same line and do not break the line

Tip: The line beginning with "#" is considered to be a comment. You can use "#" to make any comment on the configuration file.

Resource Files

Resource files are optional, but if the particular feature is being employed, these files are required. You need to place resource files on the provisioning server. The phones request the resource files in addition to the configuration files during auto provisioning.

Tip: If you want to specify the desired phone to use the resource file, the access URL of the resource file should be specified in the MAC-Oriented CFG file. During auto provisioning, the phones will request the resource files in addition to the configuration files.

Topic

Supported Resource Files

Supported Resource Files

Yealink supplies some template of resource files for you, so you can directly edit the files as required.

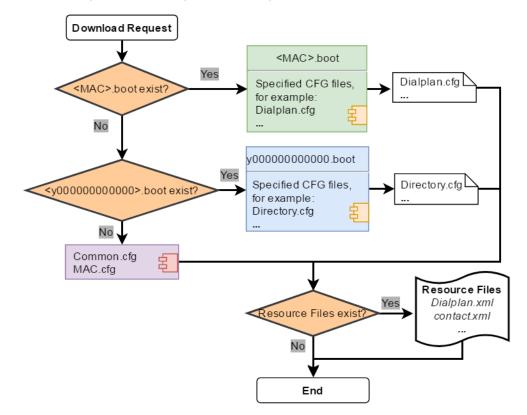
The following table lists the resource files Yealink supplies:

Template File	File Name	Description	Reference in Section
AutoDST Template	AutoDST.xml	Add or modify time zone and DST settings.	DST Settings
Language Packs	iFor example	-	Language for Web Display Customization

Template File	File Name	Description	Reference in Section	
	1.English.js			
Replace Rule Tem- plate	DialPlan.xml	Customize replace rules for the dial plan.	Replace Rule File Cus- tomization	
Dial Now Template	DialNow.xml	Customize dial now rules for the dial plan.	Dial Now File Cus- tomization	
Super Search Tem- plate	super_ search.xml	Customize the search source list.	Search Source File Cus- tomization	
Local Contact File	contact.xml	Add or modify multiple local contacts.	Local Contact File Cus- tomization	
Remote Phone Book Template	Department.xml Menu.xml	Add or modify multiple remote contacts.	Remote Phone Book File Customization	

Files Download Process

When you provision the phones, the phones will request to download the boot files, configuration files and resource files from the provisioning server according to the following flowchart:



The parameters in the newly downloaded configuration files will override the same parameters in files downloaded earlier.

Provisioning Methods

Yealink provides two ways to provision your phones:

- Manual Provisioning: provisioning via the handset user interface or web user interface.
- Central Provisioning: provisioning through configuration files stored in a central provisioning server.

The method you use depends on how many phones need to be deployed and what features and settings to be configured. Manual provisioning on the web or handset user interface does not contain all of the phone settings available with the centralized method. You can use the web user interface method in conjunction with a central provisioning method and handset user interface method. We recommend using centralized provisioning as your primary provisioning method when provisioning multiple phones.

Topics

Provisioning Methods Priority Web User Interface Phone User Interface Central Provisioning

Provisioning Methods Priority

There is a priority for configuration among the provisioning methods - settings you make using a higher priority provisioning method override settings made using a lower priority provisioning method.

The precedence order for configuration parameter changes is as follows (highest to lowest):



Note: The provisioning priority mechanism takes effect only if "static.auto_provision.custom.protect" is set to 1. For more information on this parameter, refer to Keeping User's Personalized Settings Configuration.

Static parameters have no priority. They take effect no matter what method (web user interface or phone user interface or configuration files) you are using for provisioning.

Static parameters are the parameters that start with a prefix "static.", for example, the parameters associated with auto provisioning/network/syslog, TR069 settings and internal settings (the temporary configurations to be used for program running).

Web User Interface

You can configure the phones via the web user interface, a web-based interface that is especially useful for remote configuration.

Because features and configurations vary by phone models and firmware versions, options available on each page of the web user interface can vary as well. Note that the features configured via the web user interface are limited. Therefore, you can use the web user interface in conjunction with a central provisioning method and phone user interface.

When configuring the phones via the web user interface, you require a user name and password for access. For a user, the default user name and password are "user" (case-sensitive). For an administrator, the default user name and password are "admin" (case-sensitive).

Note: When you manually configure a phone via the web user interface or handset user interface, the changes associated with non-static parameters you make will be stored in the MAC-local CFG file. For more information on the MAC-local CFG file, refer to MAC-local CFG File.

Topics

Accessing the Web User Interface Quick Login Configuration Web Server Type Configuration goingthe Web User Interface

Accessing the Web User Interface

Procedure

- Find the device IP address. For DD phone and CP930W-Base, press or tap the OK key when the phone is idle or go to Menu > Status > Base Status, for CP935W-Base, go to More > Status > Base Status on the phone; for W73H/W56H/W59R/W53H/W57R/W78H, press the OK key, and then go to Status > Base.
- Enter the IP address in the address bar of a web browser on your PC.
 For example, for IPv4: http://192.168.0.10 or 192.168.0.10; for IPv6: http://[2005:1:1:1:215:65ff:fe64:6e0a] or [2005:1:1:1:215:65ff:fe64:6e0a].
- 3. Enter the user name and password.
- 4. Click Login.

Related Topics

Web Server Type Configuration User and Administrator Identification

Quick Login Configuration

You can access the web user interface quickly using the request URI. It will locate you in the **Status** web page after accessing the web user interface. It is helpful to quickly log into the web user interface without entering the user-name and password on the login page.

Yealink phones support domain name customization. You can use a custom domain name to access the web user interface.

Note: Accessing the web user interface by request URI may be restricted by the web explorer (for example, Internet Explorer).

For security purposes, we recommend that you use this feature in a secure network environment.

The following table lists the parameters you can use to configure quick login.

Parameter	wui.quick_login	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the quick login feature. on Note: It works only if "static.wui.https_enable" is set to 1 (Enabled).		
Description			
Permitted	0-Disabled		
Values	1 -Enabled, you can quickly log into the web user interface using a request URI (for example, https://IP/api/auth/login?@admin:admin).		
Default	0		
Parameter	wui.secure_domain_list	<y000000000xx>.cfg</y000000000xx>	
	It configures the valid domain name to access the v	veb user interface of the phone.	
	Multiple domain names are separated by semicolo	ns.	
Description	n Example:		
	wui.secure_domain_list = test.abc.com You are only allowed to use test.abc.com or IP address to access the web user interface of the phor		

	Note : To use a domain name to access the web user interface of the phone, make sure your DNS server can resolve the domain name to the IP address of the phone.
	String
Permitted Values	If it is left blank, you are only allowed to use the IP address to access the web user interface of the phone.
	If it is set to "any", you can use IP address or any domain name to access the web user interface of the phone.
Default	any

Web Server Type Configuration

Yealink phones support both HTTP and HTTPS protocols for accessing the web user interface. You can configure the web server type. Web server type determines the access protocol of the web user interface. If you disable to access the web user interface using the HTTP/HTTPS protocol, both you and the user cannot access the web user interface.

The following table lists the parameters you can use to configure the web server type.

Parameter	static.wui.http_enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables to access the web user interface of the phone over a non-secure tunnel (HTTP).		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Network > Advanced > Web Server > HTTP		
Parameter	static.network.port.http ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the port used to access the web user in (HTTP).	nterface of the phone over a non-secure tunnel	
Permitted Values	Integer from 1 to 65535		
Default	80		
Web UI	Network > Advanced > Web Server > HTTP Port (1	~65535)	
Parameter	static.wui.https_enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables to access the web user interf	ace of the phone over a secure tunnel (HTTPS).	
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Network > Advanced > Web Server > HTTPS		
Parameter	static.network.port.https ^[1] <y00000000xx>.cfg</y00000000xx>		
Description	It configures the port used to access the web user interface of the phone over a secure tunnel (HTTPS).		
Permitted Values	Integer from 1 to 65535		
Default	443		
Web UI	Network > Advanced > Web Server > HTTPS Port (1~65535)		

Navigating the Web User Interface

When you log into the web user interface successfully, the device status is displayed on the first page of the web user interface. You can click the navigation bar to customize or click **Log Out/Logout** to log out of the web user interface.

The following figure is an example when you go to **Settings** > **Preference**:

Yealink				A Default pas	sword is in use. Ple	Log Out ase change! English(English) 🔻
	Status Account	Network	Features	Settings	Directory	Security
Preference	Watch Dog		Enabled	•		NOTE
Time&Date	[Confirm	Can	cel		Live Dialpad It allows IP phones to automatically dial out the
Call Display						entered phone number after a specified period of time.
Upgrade						Backlight Specifies the brightness of the LCD screen.
Auto Provision						Contrast Specifies the contrast of the LCD
Configuration						screen.
Dial Plan						Ring Tones A ring tone alerts you if there is an incoming call.
Voice						
Tones						Click here to get more product documents.
TR069						
Voice Monitoring						
SIP						all Yealink
						umentations from support page.
				Ľ		support page.

Central Provisioning

Central provisioning enables you to provision multiple phones from a provisioning server that you set up, and maintain a set of boot files, configuration files and resource files for all phones in the central provisioning server.

The following figure shows how the phone interoperates with provisioning server when you use the centralized provisioning method:

Yealink phones can obtain the provisioning server address during startup. Then the phones first download boot files and configuration files from the provisioning server and then resolve and update the configurations written in configuration files. This entire process is called auto provisioning. For more information on auto provisioning, refer to Yealink SIP IP Phones Auto Provisioning Guide.

The phones can be configured to upload log files (log files provide a history of phone events), call log files and contact files to the provisioning server. You can also configure a directory for each of these three files respectively.

Topics

Auto Provisioning Settings Configuration User-Triggered Provisioning Settings Configuration

Auto Provisioning Settings Configuration

The following table lists the parameters you can use to configure settings for auto provisioning.

Parameter	static.auto_provision.attempt_expired_time	<y000000000xx>.cfg</y000000000xx>
Description	It configures the timeout (in seconds) to transfer a file via auto prov Note : It has a higher priority than the value defined by the parame time".	0
Permitted	Integer from 1 to 300	

Values			
Default	20		
Web UI	Settings > Auto Provision > Attempt Expired Time(s)		
Parameter	static.network.attempt_expired_time ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the timeout (in seconds) to transfer a file for HTTP/HTTPS connection.		
Description	Note : It has a lower priority than the value defined by the paramet expired_time".	er "static.auto_provision.attempt_	
Permitted Values	Integer from 1 to 20		
Default	10		
Parameter	static.auto_provision.attempt_before_failed	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the maximum number of attempts to transfer a file bet visioning.	ore the transfer fails during auto pro-	
Permitted Values	Integer from 1 to 10		
Default	3		
Parameter	static.auto_provision.retry_delay_after_file_transfer_failed	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the time (in seconds) to wait after a file transfer fails before retrying the transfer via auto provisioning.		
Permitted Values	Integer from 0 to 300		
Default	5		
Parameter	static.auto_provision.reboot_force.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
ť	It enables or disables the phone to reboot after auto provisioning, even if there is no specific con- figuration requiring a reboot.		
Description	Note : It works only for the current auto provisioning process. If you every auto provisioning process, the parameter must be always conset to 1.	•	
	If the phone reboots repeatedly after it is set to 1, you can try to se 0 (Off).	t "static.auto_provision.power_on" to	
	0- Disabled 1- Enabled		
Default	Blank		
Parameter	static.auto_provision.power_on	<y000000000xx>.cfg</y000000000xx>	
Description	It triggers the power on feature to on or off.		
Fernitteu	0-Off		
Values	1-On, the phone performs auto provisioning when powered on.		
Default	1		
Web UI	Settings > Auto Provision > Power On		
	Settings > Auto Provision > Power On		

-	It triggers the repeatedly feature to on or off.		
Permitted Values	0-Off		
	1-On		
Default	0		
Web UI	Settings > Auto Provision > Repeatedly		
Parameter	static.auto_provision.repeat.minutes	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the interval (in minutes) for the phone to perform auto	provisioning repeatedly.	
	Note: It works only if "static.auto_provision.repeat.enable" is set to	1 (On).	
Permitted Values	Integer from 1 to 43200		
Default	1440		
Web UI	Settings > Auto Provision > Interval(Minutes)		
Parameter	static.auto_provision.weekly.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It triggers the weekly feature to on or off.		
Permitted	0-Off		
Values	1-On, the phone performs an auto provisioning process weekly.		
Default	0		
Web UI	Settings > Auto Provision > Weekly		
Parameter	static.auto_provision.weekly_upgrade_interval <y000000000xx>.cfg</y000000000xx>		
	It configures the time interval (in weeks) for the phone to perform a	auto provisioning.	
	If it is set to 0, the phone performs auto provisioning at the specific day(s) configured by the parameter "static.auto_provision.weekly.dayofweek" every week.		
	If it is set to other values (for example, 3), the phone performs auto provisioning at a random day between the specific day(s) configured by the parameter "static.auto_provision.weekly.dayofweek" every three weeks.		
	Note: It works only if "static.auto_provision.weekly.enable" is set to	o 1 (On).	
Permitted Values	Integer from 0 to 12		
Default	0		
Web UI	Settings > Auto Provision > Weekly Upgrade Interval(0~12week)		
Parameter	static.auto_provision.inactivity_time_expire	<y000000000xx>.cfg</y000000000xx>	
	It configures the delay time (in minutes) to perform auto provisioning when the phone is inactive at regular week.		
	If it is set to 0, the phone performs auto provisioning at random between a starting time configured by the para- the parameter "static.auto_provision.weekly.begin_time" and an ending time configured by the para- meter "static.auto_provision.weekly.end_time".		
-	If it is set to other values (for example, 60), the phone performs auto provisioning only when it has been inactivated for 60 minutes (1 hour) between the starting time and ending time.		
	Note : The phone may perform auto provisioning when you are using the phone during office hour. It works only if "static.auto_provision.weekly.enable" is set to 1 (On). The operations on the handset will		

	not change the inactive status; only the functional operations relate	ed base station, such as calling, will		
Permitted	change the inactive status.			
Values	Integer from 0 to 120			
Default	0			
Web UI	Settings > Auto Provision > Inactivity Time Expire(0~120min)			
Parameter	static.auto_provision.weekly.dayofweek	<y000000000xx>.cfg</y000000000xx>		
	It configures the days of the week for the phone to perform auto pr	ovisioning weekly.		
	Example:			
	static.auto_provision.weekly.dayofweek = 01			
Description	If "static.auto_provision.weekly_upgrade_interval" is set to 0, it me visioning every Sunday and Monday.	ans the phone performs auto pro-		
	If "static.auto_provision.weekly_upgrade_interval" is set to other value (for example, 3), it means the phone performs auto provisioning by randomly selecting a day from Sunday and Monday every three weeks.			
	Note : It works only if "static.auto_provision.weekly.enable" is set to 1 (On).			
	0,1,2,3,4,5,6 or a combination of these digits			
	0 -Sunday			
	1-Monday			
Permitted	2-Tuesday			
Values	3-Wednesday			
	4 -Thursday			
	5-Friday			
	6-Saturday			
Default	0123456			
Web UI	Settings > Auto Provision > Day of Week			
D	static.auto_provision.weekly.begin_time			
Parameter	static.auto_provision.weekly.end_time	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the starting/ending time of the day for the phone to pe	erform auto provisioning weekly.		
•	Note: It works only if "static.auto_provision.weekly.enable" is set to	o 1 (On).		
Permitted Values	Time from 00:00 to 23:59			
Default	00:00			
Web UI	Settings > Auto Provision > Time			
Parameter	static.auto_provision.flexible.enable	<y000000000xx>.cfg</y000000000xx>		
	It triggers the flexible feature to on or off.			
Description	Note : The day within the period is based upon the phone's MAC address and does not change with a reboot, whereas the time within the start and end is calculated again with every reboot. The timer starts again after each auto provisioning.			
Permitted	0-Off			

Values	1-On, the phone performs auto provisioning at random between a starting time configured by the para- meter "static.auto_provision.flexible.begin_time" and an ending time configured by the parameter "stat- ic.auto_provision.flexible.end_time" on a random day within the period configured by the parameter "static.auto_provision.flexible.interval".		
Default	0		
Web UI	Settings > Auto Provision > Flexible Auto Provision		
Parameter	static.auto_provision.flexible.interval	<y000000000xx>.cfg</y000000000xx>	
	It configures the interval (in days) for the phone to perform auto provisioning.		
	The auto provisioning occurs on a random day within this period b	based on the phone's MAC address.	
Description	The phone performs auto provisioning on a random day (for exam address.	nple, 18) based on the phone's MAC	
	Note: It works only if "static.auto_provision.flexible.enable" is set t	o 1 (On).	
Permitted Values	Integer from 1 to 1000		
Default	30		
Web UI	Settings > Auto Provision > Flexible Interval Days		
Parameter	static.auto_provision.flexible.begin_time	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the starting time of the day for the phone to perform auto provisioning at random. Note: It works only if "static.auto_provision.flexible.enable" is set to 1 (On).		
Permitted Values	Time from 00:00 to 23:59		
Default	02:00		
Web UI	Settings > Auto Provision > Flexible Time		
Parameter	static.auto_provision.flexible.end_time	<y000000000xx>.cfg</y000000000xx>	
	It configures the ending time of the day for the phone to perform a	uto provisioning at random.	
	If it is left blank or set to a specific value equal to starting time configured by the parameter "stat- ic.auto_provision.weekly.begin_time", the phone performs auto provisioning at the starting time.		
Description	If it is set to a specific value greater than starting time configured by the parameter "static.auto_pro- vision.weekly.begin_time", the phone performs auto provisioning at random between the starting time and ending time.		
	If it is set to a specific value less than starting time configured by the parameter "static.auto_pro- vision.weekly.begin_time", the phone performs auto provisioning at random between the starting time on that day and ending time in the next day.		
	Note: It works only if "static.auto_provision.flexible.enable" is set t	o 1 (On).	
Permitted Values	Time from 00:00 to 23:59		
Default	Blank		
Web UI	Settings > Auto Provision > Flexible Time		
Parameter	static.auto_provision.dns_resolv_nretry	<y000000000xx>.cfg</y000000000xx>	
	It configures the retry times when the phone fails to resolve the access URL of the provisioning server.		
Description	Note : For each different DNS server, it works only if "static.auto_provision.dns_relations_rel		

	1 (Enabled).	
Permitted Values	Integer from 1 to 10	
Default	2	
Parameter	static.auto_provision.dns_resolv_timeout <y00000000xx>.cfg</y00000000xx>	
Description	It configures the timeout (in seconds) for the phone to retry to resolve the access URL of the pro- visioning server. Note : For each different DNS server, it works only if "static.auto_provision.dns_resolv_nosys" is set to 1 (Enabled).	
Permitted Values	Integer from 1 to 60	
Default	5	

 $\ensuremath{^{[1]}}\xspace$ If you change this parameter, the phone will reboot to make the change take effect.

User-Triggered Provisioning Settings Configuration

You can enable the users to trigger phones to perform provisioning by dialing an activation code. This method works only if there is no registered account on the phone.

The following table lists the parameters you can use to configure settings for user-triggered provisioning.

Parameter	static.autoprovision.X.name ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the code name to trigger auto provisioning.		
Permitted Values	String within 64 characters		
Default	Blank		
Parameter	static.autoprovision.X.code ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>	
	It configures the activation code to trigger auto prov	isioning.	
	Example:		
Description	static.autoprovision.1.code = 123		
	static.autoprovision.2.code = **		
	static.autoprovision.3.code = *123		
Permitted Values	Numbers, #/*, or a combination of numbers and */#		
Default	Blank		
Parameter	static.autoprovision.X.url ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the provisioning server for the phone to perform auto provisioning which is triggered by an activation code.		
Permitted Values	URL within 511 characters		
Default	Blank		
Parameter	static.autoprovision.X.user ^{[1][2]} <y00000000xx>.cfg</y00000000xx>		
Description	It configures the user name for authentication during auto provisioning which is triggered by an activ- ation code.		

Permitted Values	String within 64 characters	
Default	Blank	
Parameter	static.autoprovision.X.password ^{[1][2]} <y000000000xx>.cfg</y000000000xx>	
Description	It configures the password for authentication during auto provisioning which is triggered by an activ- ation code.	
Permitted Values	String within 32 characters	
Default	Blank	

^[1]X is an activation code ID. X=1-50.

^[2]If you change this parameter, the phone will reboot to make the change take effect.

Setting Up a Provisioning Server

You can use a provisioning server to configure your phones. A provisioning server allows for flexibility in upgrading, maintaining and configuring the phone. Boot files, configuration files, and resource files are normally located on this server.

Topics

Supported Provisioning Protocols Supported Provisioning Server Discovery Methods Configuring a Provisioning Server

Supported Provisioning Protocols

Yealink phones support several transport protocols for provisioning:

- Trivial File Transfer Protocol (TFTP)
- File Transfer Protocol (FTP)
- Hyper Text Transfer Protocol Secure (HTTPS)
- File Transfer Protocol Secure (FTPS)

Note: There are two types of FTP methods-active and passive. The phones are not compatible with active FTP.

You can specify the transport protocol in the provisioning server address, for example, http://xxxxxxx. If not specified, the TFTP protocol is used.

Topic

Provisioning Protocols Configuration

Provisioning Protocols Configuration

The following table lists the parameters you can use to configure provisioning protocols.

Parameter	static.auto_provision.server.type	<y000000000xx>.cfg</y000000000xx>
Description	It configures the protocol the phone uses to connect to the provisior Note : It works only if the protocol type is not defined in the access L figured by the parameter "static.auto_provision.server.url".	c .
Values	1-http 2-https 3-ftp	

	Other values-tftp	
Default	tftp	
Parameter	static.auto_provision.user_agent_mac.enable ^[1] <y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone's MAC address to be included in the User-Agent header of HTTP/HTTPS request via auto provisioning.	
Permitted Values	0-Disabled 1-Enabled	
Default	1	

Supported Provisioning Server Discovery Methods

After the phone has established network settings, it must discover a provisioning server to obtain software updates and configuration settings.

The IP phone supports the following methods to discover the provisioning server address:

- **PnP**: PnP feature allows the phones to discover the provisioning server address by broadcasting the PnP SUBSCRIBE message during startup.
- **DHCP**: DHCP option can be used to provide the address or URL of the provisioning server to phones. When the IP phone requests an IP address using the DHCP protocol, the resulting response may contain option 66 (for IPv4) or the custom option (if configured) that contains the provisioning server address.
- Static: You can manually configure the server address via the handset user interface or web user interface.

Topics

PnP Provision Configuration DHCP Provision Configuration Static Provision Configuration

PnP Provision Configuration

The following table lists the parameter you can use to configure PnP provision.

Parameter	static.auto_provision.pnp_enable	<y000000000xx>.cfg</y000000000xx>
Description	It triggers the Plug and Play (PnP) feature to on or o	off.
Permitted Values	 0-Off 1-On, the phone broadcasts SIP SUBSCRIBE messages to obtain a provisioning server URL where the phone can request the configuration from during startup. 	
Default	1	
Web UI	Settings > Auto Provision > PNP Active	

DHCP Provision Configuration

The following table lists the parameters you can use to configure the DHCP provision.

Parameter	static.auto_provision.dhcp_option.enable	<y000000000xx>.cfg</y000000000xx>
Description	It triggers the DHCP Active feature to on or off.	
Permitted	0-Off	
Values	1-On, the phone obtains the provisioning server address by detecting DHCP options.	

Default	1	
Web UI	Settings > Auto Provision > DHCP Active	
Parameter	static.auto_provision.dhcp_option.list_user_options	
Description	It configures the IPv4 custom DHCP option for requesting provisioning server address. Multiple options are separated by commas. Note: It works only if "static.auto_provision.dhcp_option.enable" is set to 1 (On).	
Permitted Values	Integer from 128 to 254	
Default	Blank	
Web UI	Settings > Auto Provision > IPv4 Custom Option	
Parameter	static.auto_provision.url_wildcard.pn	<y000000000xx>.cfg</y000000000xx>
Description	It configures the characters to replace the wildcard \$PN in the received URL of the provisioning server. Note : The configured characters must be in accordance with the actual directory name of the pro- visioning server.	
Permitted Values	String within 32 characters	
Default	Blank	

Static Provision Configuration

To use the static provision method, you need to obtain the provisioning server address first when configuring a provisioning server.

The provisioning server address can be IP address, domain name or URL. If a user name and password are specified as part of the provisioning server address, for example, http://user:pwd@server/dir, they will be used only if the server supports them.

Note: A URL should contain forward slashes instead of backslashes and should not contain spaces. Escape characters are not supported.

If a user name and password are not specified as part of the provisioning server address, the User Name and Password of the provisioning server configured on the phone will be used.

The following table lists the parameters you can use to configure static provision.

Parameter	static.auto_provision.server.url	<y000000000xx>.cfg</y000000000xx>
Description	It configures the access URL of the provisioning server.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Settings > Auto Provision > Server URL	
Parameter	static.auto_provision.server.username	<y000000000xx>.cfg</y000000000xx>
Description	It configures the user name for provisioning server access.	
Permitted Values	String within 32 characters	

Default	Blank	
Web UI	Settings > Auto Provision > Username	
Parameter	static.auto_provision.server.password	<y000000000xx>.cfg</y000000000xx>
Description	It configures the password for provisioning server access.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Settings > Auto Provision > Password	

Configuring a Provisioning Server

The provisioning server can be set up on the local LAN or anywhere on the Internet. Use the following procedure as a recommendation if this is your first provisioning server setup.

To set up the provisioning server:

- 1. Install a provisioning server application or locate a suitable existing server, such as 3CDaemon.
- 2. Create an account and home directory.
- 3. Set security permissions for the account.
- 4. Create boot files and configuration files, and then edit them as desired.
- 5. Copy the boot files, configuration files and resource files to the provisioning server.
- 6. If performing static provisioning, obtain the provisioning server address.

Tip: Typically, all phones are configured with the same server account, but the server account provides a means of conveniently partitioning the configuration. Give each account a unique home directory on the server and change the configuration on a per-line basis.

Keeping User's Personalized Settings after Auto Provisioning

Generally, you deploy phones in batch and timely maintain company phones via auto provisioning, yet some users would like to keep the personalized settings after auto provisioning.

Topics

Keeping User's Personalized Settings Configuration Auto Provisioning Flowchart for Keep User's Personalized Configuration Settings Example: Keeping User's Personalized Settings Clearing User's Personalized Configuration Settings Custom Handset Related Configurations

Keeping User's Personalized Settings Configuration

The following table lists the parameters you can use to keep the user's personalized settings.

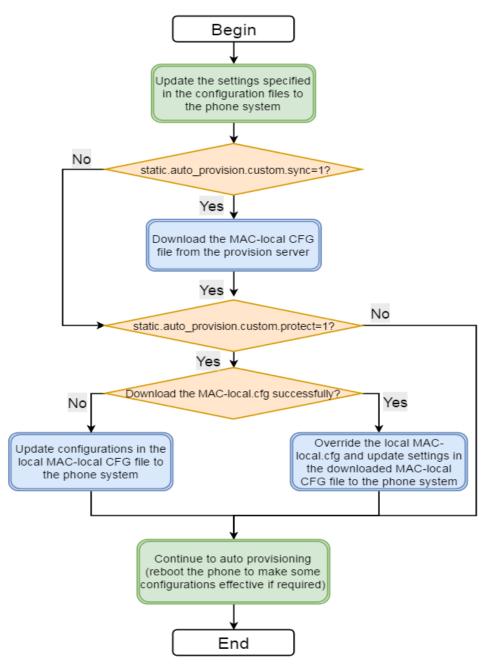
Parameter	static.auto_provision.custom.protect	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to keep the user's personalized settings after auto provisioning. Note : The provisioning priority mechanism (handset/web user interface > central provisioning > fact- ory defaults) takes effect only if the value of this parameter is set to 1 (Enabled). If "overwrite_mode" is set to 1 in the boot file, the value of this parameter will be set to 1 (Enabled). It is not applicable to the custom handset related configurations.	
Permited	0-Disabled 1-Enabled, <mac>-local.cfg file generates and per</mac>	sonalized non-static settings configured via the

	web or handset user interface will be kept after auto provisioning.		
Default	0		
Parameter	static.auto_provision.custom.sync	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to upload the <mac>-local.cfg file to the server each time the file updates, and to download the <mac>-local.cfg file from the server during auto provisioning.</mac></mac>		
	Note : It works only if "static.auto_provision.custom.protect" is set to 1 (Enabled). The upload/download path is configured by the parameter "static.auto_provision.custom.sync.path".		
	0-Disabled 1-Enabled		
Default	0		
Parameter	static.auto_provision.custom.sync.path	<y000000000xx>.cfg</y000000000xx>	
	It configures the URL for uploading/downloading th	e <mac>-local.cfg file.</mac>	
Description	If it is left blank, the phone will try to upload/downlo server.	ad the <mac>-local.cfg file to/from the provisioning</mac>	
	Note: It works only if "static.auto_provision.custom.	sync" is set to 1 (Enabled).	
Permitted Values	URL		
Default	Blank		
Parameter	static.auto_provision.custom.upload_method <y000000000xx>.cfg</y000000000xx>		
	It configures the way the phone uploads the <mac>-local.cfg file, <mac>-calllog.xml file or <mac>- contact.xml file to the provisioning server (for HTTP/HTTPS server only).</mac></mac></mac>		
renniteu	0-PUT		
Values	1-POST		
Default	0		
Parameter	static.auto_provision.handset_configured.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the base station to deliver custom handset configurations to the handset via auto provisioning/handset reboot/handset registration. Note : It is only applicable to the custom handset related configurations.		
	0 -Disabled, the custom handset settings can be on		
	1-Enabled, when the parameter "static.auto_provision.custom.handset.protect" is set to 0 (Disabled), the personalized handset settings will be overridden; if the parameter "static.auto_pro- vision.custom.handset.protect" is set to 1 (Enabled), the personalized handset settings will not be over- ridden.		
Default	1		
Parameter	static.auto_provision.custom.handset.protect		
Description	It enables or disables the handsets to keep user personalized settings after auto provisioning/handset reboot/handset registration.		
	Note : It works only if "static.auto_provision.handset_configured.enable" is set to 0 (Disabled). It is only applicable to the custom handset related configurations.		
renniteu	d 0-Disabled 1-Enabled		
Values			

Default	1
Supported Devices	All handsets except DD phones

Auto Provisioning Flowchart for Keep User's Personalized Configuration Settings

The following shows an auto provisioning flowchart for Yealink phones when a user wishes to keep the user's personalized configuration settings.



Example: Keeping User's Personalized Settings

This section shows you how to keep the personalized settings.

Parameters Settings:

static.auto_provision.custom.protect =1

After provisioning, if the users make changes via the phone user interface or web user interface, the MAC-local.cfg file with non-static personal settings generates locally.

Scenario: Keeping user's personalized settings when upgrading the firmware

If you set "*static.auto_provision.custom.sync* = 1", then the phones attempt to upload the MAC-local.cfg file to the provisioning server each time the file updates. When performing auto provisioning, they download their own MAC-local.cfg file from the provisioning server, and then update settings in MAC-local.cfg file to the IP phone system. The personalized settings locally are overridden by the MAC-local.cfg file from the provisioning server.

If you set "*static.auto_provision.custom.sync =0*", the MAC-local.cfg file will be kept locally. The personalized settings will not be overridden after auto provisioning.

Scenario: Keeping user personalized settings after factory reset

The IP phone requires a factory reset when it has a breakdown, but the user wishes to keep personalized settings of the phone after a factory reset. Before factory reset, make sure that you have set "*static.auto_pro-vision.custom.sync = 1*", and the MAC-local.cfg file has kept on the provisioning server.

After resetting all configurations to factory defaults, both the parameters settings "*static.auto_pro-vision.custom.protect*" and "*static.auto_provision.custom.sync*" are reset to 0. Although the MAC-local.cfg files locally are cleared, they are still kept on the provisioning server.

You can set "*static.auto_provision.custom.protect* = 1" and "*static.auto_provision.custom.sync* = 1", and then trigger the phone to perform auto provisioning. The phones download their own MAC-local.cfg file from the provisioning server, and then update settings in MAC-local.cfg file to the IP phone system.

As a result, the personalized configuration settings of the phone are retrieved after the factory reset.

Clearing User's Personalized Configuration Settings

When the IP phone is given to a new user but many personalized configurations settings of the last user are saved on the phone; or when the end-user encounters some problems because of the wrong configurations, you can clear the user's personalized configuration settings.

- Via W59R/W53H/W56H/W73H/W57R/W78H user interface at the path: OK > Settings > System Settings > Base Reset(default PIN: 0000) > Reset to factory.
- Via CP930W user interface at the path: Menu > Settings > Advanced Settings (default PIN: 0000) > Reset Config > Base Reset.
- Via CP935W user interface at the path: More > Advanced (default PIN: 0000) > Reset > Base Reset.
- Via DDphone user interface at the path: Menu > Advanced Settings (default PIN: 0000) > Reset Config > Base Reset/ Handset Reset.
- Via web user interface at the path: Settings > Upgrade > Reset Local Settings.

Note: The **Reset local settings** option on the web/handset user interface appears only if you set "static.auto_provision.custom.protect = 1".

If you set "static.auto_provision.custom.sync = 1", the MAC-local.cfg file on the provisioning server will be cleared too. If not, the MAC-local.cfg file is kept on the provisioning server, and the phone could download it and update the configurations to the phone after the next auto provisioning.

Custom Handset Related Configurations

This section shows you the custom handset related configurations.

Parameter	Related Topic	
custom.handset.date_format	Time and Data Format Configuration	
custom.handset.time_format	Time and Date Format Configuration	
custom.handset.eco_mode.enable	Handset Settings Parameters	
custom.handset.auto_answer.enable	Auto Answer Configuration	
custom.handset.low_battery_tone.enable		
custom.handset.confirmation_tone.enable	Advisory Tones Configuration	
custom.handset.keypad_tone.enable		
custom.handset.keypad_light.enable	Handset Keypad Light Configuration	
custom.handset.backlight_in_charger.enable	Handard David Laboration	
custom.handset.backlight_out_of_charger.enable	Handset Backlight Configuration	
custom.handset.screen_saver.enable	Handset Screen Saver Configuration	
custom.handset.auto_intercom	Intercom Configuration	
custom.handset.language	Language Display Configuration	
custom.handset.silent_charging	Silent Charging Configuration	

Security Features

This chapter provides information about configuring the security features for the phone.

Topics

User and Administrator Identification Auto Logout Time Base PIN Emergency Number Emergency Alarm Transport Layer Security (TLS) Secure Real-Time Transport Protocol (SRTP) Encrypting and Decrypting Files Incoming Network Signaling Validation

User and Administrator Identification

By default, some menu options are protected by privilege levels: user and administrator, each with its own password. You can also customize the access permission for the configurations on the web user interface and phone/handset user interface. Yealink phones support the access levels of admin, var, and user.

When logging into the web user interface or access advanced settings on the phone, as an administrator, you need an administrator password to access various menu options. The default username and password for administrator is "admin". Both you and the user can log into the web user interface, and you will see all of the user options. The default username and password for the user is "user".

For security reasons, you should change the default user or administrator password as soon as possible. Since advanced menu options are strictly used by the administrator, users can configure them only if they have administrator privileges.

Topics

User and Administrator Identification Configuration User Access Level Configuration

User and Administrator Identification Configuration

The following table lists the parameters you can use to configure the user and administrator identification.

Parameter	static.security.user_name.user	<y000000000xx>.cfg</y000000000xx>
Description	It configures the user name for the user to access the phone's web user interface.	
Permitted Values	String within 32 characters	
Default	user	
Parameter	static.security.user_name.admin 0000000000xx .cfg	
Description	It configures the user name for the administrator to access the phone's web user interface.	
Permitted Values	String within 32 characters	
Default	admin	
Parameter	static.security.user_name.var <y00000000xx>.cfg</y00000000xx>	
Description	It configures the user name for the var to access the phone's web user interface. Note: It works only if "static.security.var_enable" is set to 1 (Enabled).	
Description		

Permitted Values	String within 32 characters	
Default	var	
Parameter	static.security.user_password <y00000000xx>.cfg</y00000000xx>	
	It configures the password.	
	The phone uses "user" as the default user passwor the default administrator password.	d, "var" as the default var password and "admin" as
	The valid value format is <username>:<new passw<="" td=""><td>ord>.</td></new></username>	ord>.
	 Example: static.security.user_password = user:123 means setting the password of user to 123. static.security.user_password = admin:456 means setting the password of administrator to 456. 	
Description		
	static.security.user_password = var:789 means set	ting the password of var to 789.
	Note : The phones support ASCII characters 32-126(0x20-0x7E) in passwords. If you war space and colon characters in the password, you need to configure it via the web user in you can set the password to be empty via the web user interface only.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Security > Password	

^[1]If you change this parameter, the phone will reboot to make the change take effect.

User Access Level Configuration

For more information, refer to Yealink SIP IP Phones Configuration Guide for User Access Level.

The following table lists the parameters you can use to configure the user access level.

Parameter	static.security.var_enable ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the 3-level access permissions (admin, user, var).	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	static.web_item_level.url ^[1] <y00000000xx>.cfg</y00000000xx>	
Description	It configures the access URL of the file, which defines 3-level access permissions.	
Permitted Values	URL within 511 characters	
Default	Blank	
Parameter	static.security.default_access_level ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the default access level to access the handset user interface. Note : It works only if "static.security.var_enable" is set to 1 (Enabled).	
Permitted	0-user	
Values	1-var	

	2-admin
Default	0

^[1]If you change this parameter, the phone will reboot to make the change take effect.

Auto Logout Time

Auto logout time defines how long the phone will log out of the web user interface automatically when you do not perform any actions on the web user interface. Once logging out, you must re-enter username and password for web access authentication.

Topic

Auto Logout Time Configuration

Auto Logout Time Configuration

The following table lists the parameter you can use to configure the auto logout time.

Parameter	features.relog_offtime	<y000000000xx>.cfg</y000000000xx>
Description	It configures the timeout interval (in minutes) for web access authentication.	
Permitted Values	Integer from 1 to 1000	
Default	5	
Web UI	Features > General Information > Auto Logout Time(1~1000min)	

Phone Lock

You can lock the DD phone or handsets to prevent it from unauthorized use.

Yealink phones offer three types for phone lock:

- Lock the Menu soft key: it prevents unauthorized users from accessing the menu and changing the personal settings for your phone.
- Lock the Function keys: it only allows unauthorized users to use the keypad for placing, answering, rejecting, or ending calls.
- Lock all keys: it only allows unauthorized users to use the keypad for dialing emergency numbers or authorized numbers that set up by your administrator, answering, rejecting and ending a call.

You can set a waiting time, after which the phone is locked automatically. If the waiting time is set to 0, the phone will not be automatically locked. You need to lock the phone manually.

Note: For DD Phone, the Volume key, HEADSET key and Speakerphone key are always available even when you lock the phone.

Topics

Phone Lock Configuration

Phone Lock Configuration

The following table lists the parameters you can use to configure the phone lock.

Parameter	phone_setting.phone_lock.dialing_contorl_type	<y000000000xx>.cfg</y000000000xx>
Description	It configures the dialing control types of phone lock	

Permitted	0 -After locking the phone, the keypad tone still exists, and the dial pad will appear when you press the digital key.	
Values	1-After locking the phone, there is no keypad tone and the dial pad will only appear when you input the emergency number.	
Default	0	
Parameter	phone_setting.phone_lock.dialing_contorl_time	<y000000000xx>.cfg</y000000000xx>
Description	It configures the time to judge whether the input number is an emergency number. Note: It works only if "phone_setting.phone_lock.dialing_contorl_type" is set to 1 (Enabled).	
Permitted Values	0, 3, 5, 10	
Default	3	

Base PIN

To avoid unauthorized registration or access to some features on the handset, you should keep the base PIN secret.

You can change the base PIN for security.

Topic

Base PIN Configuration

Base PIN Configuration

The following table lists the parameters you can use to configure the base PIN.

Parameter	base.pin_code	<y000000000xx>.cfg</y000000000xx>
Description	It configures the base PIN.	
Permitted Values	Integer from 0000 to 9999	
Default	0000	
Web UI	Security > Base PIN > Base Unit PIN	
	W78H/W73H/W59R/W57R/W53H/W56H:	
	OK > Settings > System Settings > Change Base P	IN
	DD Phone:	
Handset UI	Menu > Advanced Settings (default password: 0000) > Change Password	
	CP930W:	
	Menu > Settings > Advanced Settings (default PIN:	0000) > Change PIN
	CP935W:	
	More > Advanced (default PIN: 0000) > Change PIN	
Parameter	base.double_pin_code.enable <y00000000xx>.cfg</y00000000xx>	
Description	It enables or disables double PIN feature.	
Permitted	0-Disabled, users use the PIN configured by "base.pin_code" to register the handset or access some features.	

values	1-Enabled, users use the PIN configured by "base.pin_code_for_register" to register the handset, and use the PIN configured by "base.pin_code" to access some features.	
Default	0	
Parameter	base.pin_code_for_register	
	Description It configures the PIN for registering or de-registering a handset. Note: It works only if "base.double_pin_code.enable" is set to 1 (Enabled).	
Permitted Values	Integer from 0000 to 9999	
Default	0000	

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.

You can specify the emergency numbers for contacting the emergency services in an emergency situation. 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.

You can dial these numbers when the phone is locked (CP930W-Base/CP935W-Base phones can not be locked).

Topic

Emergency Number Configuration

Emergency Number Configuration

The following table lists the parameter you can use to configure the emergency number.

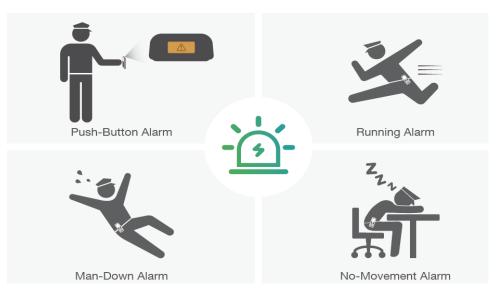
Parameter	phone_setting.emergency.number	<y000000000xx>.cfg</y000000000xx>
Description	It configures emergency numbers.	
	Multiple emergency numbers are separated by commas.	
Permitted	String within 99 characters	
Values		
Default	112,911,110	
Web UI	Features > Phone Lock > Emergency	

Emergency Alarm

Emergency alarm can provide safety reliance for people who work in dangerous environment.

W57R/W59R handset supports the following four alarm types:

- Button: Long press the emergency alarm button for 2 seconds to manually set off the emergency alarm.
- Man Down: If the handset stays in a tilt angle less than 30 degrees with the ground for some time, an alarm will be triggered.
- **No-Movement**: If the handset stays in a fixed position without movement for a certain period of time, an alarm will be triggered.
- **Running**: The handset detects the running state, and maintains this state for a certain period of time, an alarm will be triggered.



In order to increase the accuracy of the alarm and prevent false alarms, you can also set the corresponding delayed alarm time. The delayed alarm time is actually the time during which the handset maintains the state, and the alarm will be triggered when the time is reached.

Topic

Emergency Alarm Configuration

Emergency Alarm Configuration

The following table lists the parameter you can use to configure the emergency alarm.

Parameter	alarm.X.name ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the alarm name.	
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Features > Alarm > Alarm Template (Alarm Template X) > Alarm Name	
Parameter	alarm.X.type ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	n It configures the alarm type.	
Permitted Values	 0-None, do not turn on the alarm. 1-Button 2-Man Down 3-No Movement 4-Running 	
Default	0	
Web UI	Features > Alarm > Alarm Template (Alarm Template X) > Alarm Type	
Parameter	alarm.X.handset_stop.enable ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables to terminate the alarm from the handset.	

Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Web UI	Features > Alarm > Alarm Template (Alarm Template X)	> Stop Alarm From Handset	
Parameter	alarm.X.trigger_delay ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the delay time (in seconds) to trigger the al	arm from the handset.	
Permitted Values	Integer from 1 to 7200		
Default	3		
Web UI	Features > Alarm > Alarm Template (Alarm Template X)	> Trigger Delay	
Parameter	alarm.X.pre_alarm.handset_stop.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the handset to stop the pre-alarm	(reminder before the alarm).	
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Web UI	Features > Alarm > Alarm Template (Alarm Template X)	> Stop Pre-Alarm From Handset	
Parameter	alarm.X.pre_alarm.delay ^[1] <y00000000xx>.cfg</y00000000xx>		
Description	ion It configures the pre-alarm time (in seconds) of the handset.		
Permitted Values	Integer from 0 to 7200		
Default	0		
Web UI	Features > Alarm > Alarm Template (Alarm Template X)	> Pre-Alarm Delay	
Parameter	alarm.X.ring.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables to play the ringtone when the han	dset initiates the pre-alarm.	
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Web UI	Features > Alarm > Alarm Template (Alarm Template X)	> Ring	
Parameter	alarm.X.weekly.begin_time ^[1]	<y0000000000xx>.cfg</y0000000000xx>	
	alarm.X.weekly.end_time ^[1]		
	It configures the starting/ending time of the day for the handset to perform an alarm detection.		
Description			
	Note : If the configured starting time is greater than the ending time, such as 23:00-06:00, it means that the alarm detection is enabled on the day from 00:00-06:00 and 23:00-00:00.		
Permitted Values	Time from 00:00 to 23:59		

Default	00:00		
	Features > Alarm > Alarm Template (Alarm Template X) > Time		
Parameter	alarm.X.weekly.dayofweek ^[1] <y000000000xx>.cfg</y000000000xx>		
-	It configures the days of the week for the handset to perform	form an alarm detection weekly.	
Permitted Values	0123456 or a combination of these digits		
Default	0123456		
Web UI	Features > Alarm > Alarm Template > Day of Week		
Parameter	handset.X.alarm.template ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the alarm template for the specific account. Multiple alarm templates are seperated by commas.		
Permitted Values	Random combination of numbers 1 to 10		
Default	Blank		
Parameter	handset.X.alarm.number ^[2] <y00000000xx>.cfg</y00000000xx>		
Description	It configures the handset X alarm number.		
Permitted Values	String within 128 characters		
Default	Blank		
Web UI	Account > Alarm Assignment > Config to(Handset X)> A	larm Number	
Parameter	alarm.server.address	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the address of the alarm server.		
Permitted Values	String within 256 characters		
Default	Blank		
Web UI	Account > Alarm Assignment > Sever Host		
Parameter	alarm.server.port	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the port of the alarm server.		
Permitted Values	Integer from 0 to 65535		
Default	5060		
Web UI	Account > Alarm Assignment > Port		
Parameter	alarm.server.transport_type <y00000000xx>.cfg</y00000000xx>		
Description	It configures the type of alarm server transmission proto	col.	
	0-UDP		
Permitted Values	1-TCP		
	2-TLS		

3-DNS-NAPTR		
0		
Account > Alarm Assignment > Transport		
alarm.server.expires v00000000xx .cfg		
It configures the registration expiration time of the alarm server.		
Integer from 30 to 2147483647		
30		
Account > Alarm Assignment > Sever Expires		
alarm.server.retry_counts	<y000000000xx>.cfg</y000000000xx>	
It configures the number of times to retry the request when the alarm server is unavailable or not responding.		
Integer from 0 to 20		
3		
Account > Alarm Assignment > Sever Retry Counts		
	Account > Alarm Assignment > Transport alarm.server.expires It configures the registration expiration time of the alarm Integer from 30 to 2147483647 30 Account > Alarm Assignment > Sever Expires alarm.server.retry_counts It configures the number of times to retry the request wh responding. Integer from 0 to 20 3	

 $^{[1]}$ X is the alarm ID. X=1-10.

^[2]X is the account ID. X=1-10.

Transport Layer Security (TLS)

TLS is a commonly-used protocol for providing communications privacy and managing the security of message transmission, allowing the phones to communicate with other remote parties and connect to the HTTPS URL for provisioning in a way that is designed to prevent the data from being eavesdropped and tampered.

Yealink phones support TLS version 1.0, 1.1 and 1.2. When TLS is enabled for an account, the SIP message of this account will be encrypted, and a lock icon appears on the LCD screen after the successful TLS negotiation.

Topics

Supported Cipher Suites Supported Trusted and Server Certificates TLS Configuration

Supported Cipher Suites

A cipher suite is a named combination of authentication, encryption, and message authentication code (MAC) algorithms used to negotiate the security settings for a network connection using the TLS/SSL network protocol.

Yealink phones support the following cipher suites:

- DHE-RSA-AES256-SHA
- DHE-DSS-AES256-SHA
- AES256-SHA
- EDH-RSA-DES-CBC3-SHA
- EDH-DSS-DES-CBC3-SHA
- DES-CBC3-SHA
- DES-CBC3-MD5
- DHE-RSA-AES128-SHA

- DHE-DSS-AES128-SHA
- AES128-SHA
- RC2-CBC-MD5
- IDEA-CBC-SHA
- DHE-DSS-RC4-SHA
- RC4-SHA
- RC4-MD5
- RC4-64-MD5
- EXP1024-DHE-DSS-DES-CBC-SHA
- EXP1024-DES-CBC-SHA
- EDH-RSA-DES-CBC-SHA
- EDH-DSS-DES-CBC-SHA
- DES-CBC-SHA
- DES-CBC-MD5
- EXP1024-DHE-DSS-RC4-SHA
- EXP1024-RC4-SHA
- EXP1024-RC4-MD5
- EXP-EDH-RSA-DES-CBC-SHA
- EXP-EDH-DSS-DES-CBC-SHA
- EXP-DES-CBC-SHA
- EXP-RC2-CBC-MD5
- EXP-RC4-MD5
- ECDH/ECDSA

Supported Trusted and Server Certificates

The IP phone can serve as a TLS client or a TLS server. In the TLS feature, we use the terms trusted and server certificate. These are also known as CA and device certificates.

The TLS requires the following security certificates to perform the TLS handshake:

- **Trusted Certificate**: When the IP phone requests a TLS connection with a server, the phone should verify the certificate sent by the server to decide whether it is trusted based on the trusted certificates list. You can upload 10 custom certificates at most. The format of the trusted certificate files must be *.pem, *.cer, *.crt and *.der and the maximum file size is 5MB.
- Server Certificate: When clients request a TLS connection with the IP phone, the phone sends the server certificate to the clients for authentication. The IP phone has two types of built-in server certificates: a unique server certificate and a generic server certificate. You can only upload one server certificate to the IP phone. The old server certificate will be overridden by the new one. The format of the server certificate files must be *.pem and *.cer and the maximum file size is 5MB.

A unique server certificate: It is unique to an IP phone (based on the MAC address) and issued by the Yealink Certificate Authority (CA).

A generic server certificate: It is issued by the Yealink Certificate Authority (CA). Only if no unique certificate exists, the phone may send a generic certificate for authentication.

The IP phone can authenticate the server certificate based on the trusted certificates list. The trusted certificates list and the server certificates list contain the default and custom certificates. You can specify the type of certificates the IP phone accepts: default certificates, custom certificates or all certificates.

Common Name Validation feature enables the IP phone to mandatorily validate the common name of the certificate sent by the connecting server. The security verification rules are compliant with RFC 2818.

Note: Resetting the IP phone to factory defaults will delete custom certificates by default. However, this feature is configurable by the parameter "static.phone_setting.reserve_certs_enable" using the configuration file.

Topic

Supported Trusted Certificates

Supported Trusted Certificates

Yealink phones trust the following CAs by default:

- DigiCert High Assurance EV Root CA
- Deutsche Telekom Root CA 2
- Equifax Secure Certificate Authority
- Equifax Secure eBusiness CA-1
- Equifax Secure Global eBusiness CA-1
- GeoTrust Global CA
- GeoTrust Global CA2
- GeoTrust Primary Certification Authority
- GeoTrust Primary Certification Authority G2
- GeoTrust Universal CA
- GeoTrust Universal CA2
- Thawte Personal Freemail CA
- Thawte Premium Server CA
- Thawte Primary Root CA
- Thawte Primary Root CA G2
- Thawte Primary Root CA G3
- Thawte Server CA
- VeriSign Class 1 Public Primary Certification Authority
- VeriSign Class 1 Public Primary Certification Authority G2
- VeriSign Class 1 Public Primary Certification Authority G3
- VeriSign Class 2 Public Primary Certification Authority G2
- VeriSign Class 2 Public Primary Certification Authority G3
- VeriSign Class 3 Public Primary Certification Authority
- VeriSign Class 3 Public Primary Certification Authority G2
- VeriSign Class 3 Public Primary Certification Authority G3
- VeriSign Class 3 Public Primary Certification Authority G4
- VeriSign Class 3 Public Primary Certification Authority G5
- VeriSign Class 4 Public Primary Certification Authority G2
- VeriSign Class 4 Public Primary Certification Authority G3
- · VeriSign Universal Root Certification Authority
- ISRG Root X1 (Let's Encrypt Authority X1, Let's Encrypt Authority X2, Let's Encrypt Authority X3 and Let's Encrypt Authority X4 certificates are signed by the root certificate ISRG Root X1.)
- Baltimore CyberTrust Root
- DST Root CA X3
- Verizon Public SureServer CA G14-SHA2
- AddTrust External CA Root
- Go Daddy Class 2 Certification Authority
- Class 2 Primary CA
- Cybertrust Public SureServer SV CA
- DigiCert Assured ID Root G2
- DigiCert Assured ID Root G3
- DigiCert Assured ID Root CA
- DigiCert Global Root G2
- DigiCert Global Root G3
- DigiCert Global Root CA

- DigiCert Trusted Root G4
- Entrust Root Certification Authority
- Entrust Root Certification Authority G2
- Entrust.net Certification Authority (2048)
- GeoTrust Primary Certification Authority G3
- GlobalSign Root CA
- GlobalSign Root CA R2
- Starfield Root Certificate Authority G2
- TC TrustCenter Class 2 CA II
- TC TrustCenter Class 3 CA II
- TC TrustCenter Class 4 CA II
- TC TrustCenter Universal CA I
- TC TrustCenter Universal CA III
- Thawte Universal CA Root
- VeriSign Class 3 Secure Server CA G2
- VeriSign Class 3 Secure Server CA G3
- Thawte SSL CA
- StartCom Certification Authority
- StartCom Certification Authority G2
- Starfield Services Root Certificate Authority G2
- RapidSSL CA
- Go Daddy Root Certificate Authority G2
- Cybertrust Global Root
- SectigoSSLCA
- Sectigo RSA Domain Validation Secure Server CA
- Sectigo RSA Certification Authority
- AmazonRootCA4
- AmazonRootCA3
- AmazonRootCA2
- AmazonRootCA1
- Yealink Root CA
- Yealink Equipment Issuing CA
- Starfield Class 2 Certification Authority

Note: Yealink endeavors to maintain a built-in list of most common used CA Certificates. Due to memory constraints, we cannot ensure a complete set of certificates. If you are using a certificate from a commercial Certificate Authority not in the list above, you can send a request to your local distributor. At this point, you can upload your particular CA certificate into your phone.

TLS Configuration

The following table lists the parameters you can use to configure TLS.

Parameter	account.X.sip_server.Y.transport_type ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the type of transport protocol.	
	0-UDP	
Permitted Values	1-TCP	
	2-TLS	
	3 -DNS NAPTR, if no server port is given, the phone performs the DNS NAPTR a	and SRV queries for

	the service type and port.		
Default	0		
Web UI	Account > Register > SIP Server Y > Transport		
Handset UI	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Settings > Telephony > Server (default PIN: 0000) >Line X > Server Y > Transport		
Parameter	static.security.default_ssl_method ^[3]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the TLS version the phone uses to authenticate with the server.		
	0-TLS 1.0		
	3-SSL V23 (automatic negotiation with the server. The phone starts with TLS 1.	2 for negotiation.)	
Permitted Values	4-TLS 1.1		
	5-TLS 1.2		
	6-TLS 1.3		
Default	3		
Parameter	static.security.trust_certificates ^[3]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to only trust the server certificates in the Trusted Certificates list.		
Permitted	0-Disabled		
Values	1-Enabled, the phone will authenticate the server certificate based on the trusted certificates list. Only when the authentication succeeds, will the phone trust the server.		
Default	1		
Web UI	Security > Trusted Certificates > Only Accept Trusted Certificates		
Parameter	static.security.ca_cert ^[3]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the type of certificates in the Trusted Certificates list for the phone t connection.	to authenticate for TLS	
	0-Default Certificates		
Permitted Values	1-Custom Certificates		
	2-All Certificates		
Default	2		
Web UI	Security > Trusted Certificates > CA Certificates		
Parameter	static.security.cn_validation ^[3]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to mandatorily validate the CommonName or a certificate sent by the server.	SubjectAltName of the	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Security > Trusted Certificates > Common Name Validation		
Parameter	static.security.dev_cert ^[3]	<y000000000xx>.cfg</y000000000xx>	

Description	It configures the type of device certificates for the phone to send for TLS authentication.		
rennitieu	0-Default Certificates		
Values	1-Custom Certificates		
Default	0		
Web UI	Security > Server Certificates > Device Certificates		
Parameter	static.trusted_certificates.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the custom trusted certificate used to authentica server.	te the connecting	
	Note: The certificate you want to upload must be in *.pem, *.crt, *.cer or *.der format.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Security > Trusted Certificates > Upload Trusted Certificate File		
Parameter	static.trusted_certificates.delete		
Description	It configures to delete all uploaded trusted certificates.		
Permitted Values	http://localhost/all: It deletes all uploaded trusted certificates.		
Default	Blank		
Parameter	static.server_certificates.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the certificate the phone sends for authentication.		
-	Note: The certificate you want to upload must be in *.pem or *.cer format.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Security > Server Certificates > Upload Server Certificate File		
Parameter	static.server_certificates.delete	<y000000000xx>.cfg</y000000000xx>	
Description	It deletes all uploaded server certificates.		
Permitted Values	http://localhost/all		
Default	Blank		
Parameter	static.phone_setting.reserve_certs_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to reserve custom certificates after it is reset to factory defaults.		
	0-Disabled 1-Enabled		
Default	0		
Parameter	security.e911.ca_cert	<y000000000xx>.cfg</y000000000xx>	
	It configures the type of certificates in the Trusted Certificates list for the desired ticate for TLS connection.	module to authen-	
Permitted	0-Default Certificates		

	1-Custom Certificates		
Values	2-All Certificates		
Default	Blank		
Parameter	security.e911.dev_cert	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the type of device certificates for the desired module to send for TL	S authentication.	
Permitted	0-Default Certificates		
Values	1-5-Custom Certificates		
Default	0		
Parameter	security.e911.cn_validation	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the desired module to mandatorily validate the CommonName or Sub- jectAltName of the certificate sent by the server.		
	0-Disabled 1-Enabled		
	Blank		
Parameter	security.e911.trust_certificates	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the desired module to only trust the server certificates in the Trusted Certificates list.		
Permitted	0-Disabled		
Values	1-Enabled, the desired module will authenticate the server certificate based on list. Only when the authentication succeeds will the desired module trust the server certificate based on succeeds will the desired module trust the server certificate based on the server certificate based based on the server certificate based on the server certificate based on the server certificate based based by the server certificate based by the server certificate based by the server certificate based based by the server certificate based based by the server certificate based based based based based by the server certificate based based based based by the server certificate based based based by the server certificate based based based based by the server certificate based based based based based by the server certificate based base		
Default	Blank		

^[1]X is the account ID. X=1-10.

 $^{[2]}$ Y is the server ID. Y=1-2.

Secure Real-Time Transport Protocol (SRTP)

Secure Real-Time Transport Protocol (SRTP) encrypts the audio streams during VoIP phone calls to avoid interception and eavesdropping. The parties participating in the call must enable SRTP feature simultaneously. When this feature is enabled on both phones, the type of encryption to use for the session is negotiated between the phones. This negotiation process is compliant with RFC 4568.

When you place a call on the enabled SRTP phone, the phone sends an INVITE message with the RTP/RTCP encryption algorithm to the destination phone. As described in RFC 3711, RTP/RTCP streams may be encrypted using an AES (Advanced Encryption Standard) algorithm.

Example of the RTP encryption algorithm carried in the SDP of the INVITE message:

m=audio 11780 RTP/SAVP 0 8 18 9 101 a=crypto:1 AES_CM_128_HMAC_SHA1_80 > inline:NzFINTUwZDk2OGVIOTc3YzNkYTkwZWVkMTM1YWFj a=crypto:2 AES_CM_128_HMAC_SHA1_32 > inline:NzkyM2FjNzQ2ZDgxYjg0MzQwMGVmMGUxMzdmNWFm a=crypto:3 F8_128_HMAC_SHA1_80 inline:NDIiMWIzZGE1ZTAwZjA5ZGFhNjQ5YmEANTMzYzA0 a=rtpmap:0 PCMU/8000 a=rtpmap:8 PCMA/8000 a=rtpmap:18 G729/8000 a=fmtp:18 annexb=no

a=rtpmap:9 G722/8000

a=fmtp:101 0-15

a=rtpmap:101 telephone-event/8000

a=ptime:20

a=sendrecv

The callee receives the INVITE message with the RTP encryption algorithm and then answers the call by responding with a 200 OK message which carries the negotiated RTP encryption algorithm.

Example of the RTP encryption algorithm carried in the SDP of the 200 OK message:

m=audio 11780 RTP/SAVP 0 101 a=rtpmap:0 PCMU/8000 a=rtpmap:101 telephone-event/8000 a=crypto:1 AES_CM_128_HMAC_SHA1_80 inline:NGY4OGViMDYzZjQzYTNiOTNkOWRiYzRIMjM0Yzcz a=sendrecv a=ptime:20 a=fmtp:101 0-15

When SRTP is enabled on both phones, RTP streams will be encrypted, and a lock icon appears on the LCD screen of each IP phone after a successful negotiation.

Note: If you enable SRTP, then you should also enable TLS. This ensures the security of SRTP encryption. For more information on TLS, refer to Transport Layer Security (TLS).

Topic

SRTP Configuration

SRTP Configuration

The following table lists the parameters you can use to configure the SRTP.

Parameter	account.X.srtp_encryption ^[1]	<mac>.cfg</mac>
Description	It configures whether to use audio encryption service.	
	0-Disabled	
Permitted Values	1-Optional, the phone will negotiate with the other phone what type of encryption to use for the ses- sion.	
	2-Compulsory, the phone must use SRTP during a call.	
Default	0	
Web UI	Account > Advanced > RTP Encryption (SRTP)	

 $^{[1]}X$ is the account ID. X=1-10.

Encrypting and Decrypting Files

Yealink phones support downloading encrypted files from the server and encrypting files before/when uploading them to the server.

You can encrypt the following files:

- Configuration files: MAC-Oriented CFG file (<MAC>.cfg), Common CFG file (y000000000xx.cfg), MAC-local CFG file (<MAC>-local.cfg) or other custom CFG files (for example, sip.cfg, account.cfg)
- Contact Files: <MAC>-contact.xml
- To encrypt/decrypt files, you may have to configure an AES key.

Note: AES keys must be 16 characters. The supported characters contain: $0 \sim 9$, $A \sim Z$, $a \sim z$ and special characters: # \$ % * + , - . : = ? @ []^_{} .

Topics

Configuration Files Encryption Tools Configuration Files Encryption and Decryption Encryption and Decryption Configuration Example: Encrypting Configuration Files

Configuration Files Encryption Tools

Yealink provides three configuration files encryption tools:

- Config_Encrypt_Tool.exe (via graphical tool for Windows platform)
- Config_Encrypt.exe (via DOS command line for Windows platform)
- yealinkencrypt (for Linux platform)

The encryption tools encrypt plaintext configuration files (for example, account.cfg, <y000000000xx>.cfg, <MAC>.cfg) (one by one or in batch) using 16-character symmetric keys (the same or different keys for configuration files) and generate encrypted configuration files with the same file name as before.

These tools also encrypt the plaintext 16-character symmetric keys using a fixed key, which is the same as the one built in the IP phone, and generate new files named as <xx_Security>.enc (xx is the name of the configuration file, for example, y00000000146_Security.enc for y00000000146.cfg file, account_Security.enc for account.cfg). These tools generate another new file named as Aeskey.txt to store the plaintext 16-character symmetric keys for each configuration file.

Configuration Files Encryption and Decryption

Encrypted configuration files can be downloaded from the provisioning server to protect against unauthorized access and tampering of sensitive information (for example, login passwords, registration information).

You can encrypt the configuration files using encryption tools. You can also configure the <MAC>-local.cfg files to be automatically encrypted using 16-character symmetric keys when uploading to the server (by setting "static.auto_provision.encryption.config" to 1).

For security reasons, you should upload encrypted configuration files, <xx_Security>.enc files to the root directory of the provisioning server. During auto provisioning, the phone requests to download the boot file first and then download the referenced configuration files. For example, the phone downloads an encrypted account.cfg file. The phone will request to download <account_Security>.enc file (if enabled) and decrypt it into the plaintext key (for example, key2) using the built-in key (for example, key1). Then the IP phone decrypts account.cfg file using key2. After decryption, the phone resolves configuration files and updates configuration settings onto the IP phone system.

Encryption and Decryption Configuration

The following table lists the parameters you can use to configure the encryption and decryption.

Paramete	r static.auto_provision.update_file_mode	<y000000000xx>.cfg</y000000000xx>
Descripti	n It enables or disables the phone only to download the encrypted files.	
Permitteo Values	0 -Disabled, the phone will download the configuration files (for example local.cfg) from the server during auto provisioning no matter whether the And then resolve these files and update settings onto the phone system	e files are encrypted or not.

	1-Enabled, the phone will only download the encrypted configuration fil	es (for example, sin efg	
	account.cfg, <mac>-local.cfg) from the server during auto provisioning, and then resolve these files and update settings onto the phone system.</mac>		
Default	0		
Parameter	static.auto_provision.aes_key_in_file	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to decrypt configuration files using the	encrypted AES keys.	
	0 -Disabled, the phone will decrypt the encrypted configuration files using plaintext AES keys con- figured on the phone.		
Permitted Values	1- Enabled, the phone will download <xx_security>.enc files (for example, <sip_security>.enc, <account_security>.enc) during auto provisioning, and then decrypts these files into the plaintext ke (for example, key2, key3) respectively using the phone built-in key (for example, key1). The phone then decrypts the encrypted configuration files using the corresponding key (for example, key2, key3) key3.</account_security></sip_security></xx_security>		
Default	0		
Parameter	static.auto_provision.aes_key_16.com	<y000000000xx>.cfg</y000000000xx>	
	It configures the plaintext AES key for encrypting/decrypting the Commo	n CFG/Custom CFG file.	
	The valid characters contain: $0 \sim 9$, $A \sim Z$, $a \sim z$ and the following special characters are also supported: # $ 0^{*} = $		
	Example:		
Description	static.auto_provision.aes_key_16.com = 0123456789abcdef		
	Note : For decrypting, it works only if "static.auto_provision.aes_key_in_file" is set to 0. If the down- loaded MAC-Oriented file is encrypted and the parameter "static.auto_provision.aes_key_16.mac" is left blank, the phone will try to encrypt/decrypt the MAC-Oriented file using the AES key configured by the parameter "static.auto_provision.aes_key_16.com".		
Permitted Values	16 characters		
Default	Blank		
Web UI	Settings > Auto Provision > Common AES Key		
Parameter	static.auto_provision.aes_key_16.mac	<y0000000000xx>.cfg</y0000000000xx>	
	It configures the plaintext AES key for encrypting/decrypting the MAC-Oriented files (<mac>.cfg, </mac> -local.cfg and <mac>-contact.xml).</mac>		
	The valid characters contain: 0 ~ 9, A ~ Z, a ~ z and the following special characters are also supported: # \$ % * + , : = ? @ []^_{} .		
Description	Example:		
	static.auto_provision.aes_key_16.mac = 0123456789abmins		
	Note : For decrypting, it works only if "static.auto_provision.aes_key_in_file" is set to 0. If the down- loaded MAC-Oriented file is encrypted and the parameter "static.auto_provision.aes_key_16.mac" is left blank, the phone will try to encrypt/decrypt the MAC-Oriented file using the AES key configured by the parameter "static.auto_provision.aes_key_16.com".		
Permitted Values	16 characters		
Default	Blank		

Web UI	Settings > Auto Provision > MAC-Oriented AES Key		
Parameter	static.autoprovision.X.com_aes ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>	
	It configures the plaintext AES key for decrypting the Common CFG file. If it is configured, it has a higher priority than the value configured by the	parameter "static.auto pro-	
	vision.aes_key_16.com".		
Permitted Values	16 characters		
Default	Blank		
Parameter	static.autoprovision.X.mac_aes ^{[1][2]}	<y0000000000xx>.cfg</y0000000000xx>	
	It configures the plaintext AES key for decrypting the MAC-Oriented CFG file.		
Description	If it is configured, it has a higher priority than the value configured by the parameter "static.auto_pro- vision.aes_key_16.mac".		
Permitted Values	16 characters		
Default	Blank		
Parameter	static.auto_provision.encryption.config	<y0000000000xx>.cfg</y0000000000xx>	
Description	It enables or disables the phone to encrypt <mac>-local.cfg file using the transmission of transmission of the transmission of transmission of the transmission of transmission of</mac>	e plaintext AES key.	
	0 -Disabled, the MAC-local CFG file will be uploaded unencrypted and will replace the one (encrypted or unencrypted) stored on the server if you have configured to back up the MAC-local CFG file to the server by the parameter "static.auto_provision.custom.sync".		
Values	1 -Enabled, the MAC-local CFG file will be uploaded encrypted and will replace the one (encrypted or unencrypted) stored on the server if you have configured to back up the MAC-local CFG file to the server by the parameter "static.auto_provision.custom.sync". The plaintext AES key is configured by the parameter "static.auto_provision.aes_key_16.mac".		
Default	0		

^[1]X is an activation code ID. X=1-50.

^[2]If you change this parameter, the phone will reboot to make the change take effect.

Example: Encrypting Configuration Files

The following example describes how to use "Config_Encrypt_Tool.exe" to encrypt the account.cfg file. For more information on the other two encryption tools, refer to Yealink Configuration Encryption Tool User Guide.

The way the IP phone processes other configuration files is the same as that of the account.cfg file.

Procedure:

 Double click "Config_Encrypt_Tool.exe" to start the application tool. The screenshot of the main page is shown below:

🗗 Yealink Configu	ration Encrypt Tool	X
Select File(s)	C:\Documents and Settings\Administrator\Desk	Browse
Target Directory	C:\Documents and Settings\Administrator\Desk	Browse
AES Model	OManual 💿 Auto Generate	
AES KEY	FRaqbC8wSA1XvpFV	Re-Generate
	Encrypt	

- 2. When you start the application tool, a file folder named "Encrypted" is created automatically in the directory where the application tool is located.
- 3. Click Browse to locate configuration file(s) (for example, account.cfg) from your local system in the Select File (s) field.

To select multiple configuration files, you can select the first file and then press and hold the **Ctrl** key and select other files.

- (Optional.) Click Browse to locate the target directory from your local system in the Target Directory field. The tool uses the file folder "Encrypted" as the target directory by default.
- 5. (Optional.) Mark the desired radio box in the AES Model field.

If you mark the **Manual** radio box, you can enter an AES key in the **AES KEY** field or click **Re-Generate** to generate an AES key in the **AES KEY** field. The configuration file(s) will be encrypted using the AES key in the **AES KEY** field.

If you mark the **Auto Generate** radio box, the configuration file(s) will be encrypted using a random AES key. The AES keys of configuration files are different.

6. Click Encrypt to encrypt the configuration file(s).

🗗 Yealink Configuration Encrypt Tool 🛛 🗙				
Select File(s)	C:\Docu	ments and Settings\Administr	ator\Desk [.]	Browse
Target Directory	C:\Docu	Config_Encrypt_Tool 🔀	ator\Desk [.]	Browse
AES Model	OManua	Encrypt Files Success!		
AES KEY	9gnj9X7	ОК		Re-Generate
		Encrypt		

7. Click OK.

The target directory will be automatically opened. You can find the encrypted CFG file(s), encrypted key file(s) and an Aeskey.txt file storing plaintext AES key(s).

Encrypted							
File Edit View Favorites	Tools	Help					4
🕞 Back 🔹 🕥 🕤 🏂	🔎 s	earch 😥 Folders 🛄 🕶					
Address 🛅 C:\Documents and	Settings	Administrator\Desktop\Encrypted				▼ ∋	Go
		Name 🔺	Size	Туре	Date Modified		
File and Folder Tasks	۲	account.cfg	2 KB	CFG File	13.10.2014 16:32		
		account_Security.enc	1 KB	ENC File	22.07.2016 9:29		
Other Places	۲	🖹 Aeskey.txt	1 KB	Text Document	22.07.2016 9:29		
Details	۲						

Incoming Network Signaling Validation

Yealink phones support the following three optional levels of security for validating incoming network signaling:

- Source IP address validation: ensure the request is received from an IP address of a server belonging to the set of target SIP servers.
- Digest authentication: challenge requests with digest authentication using the local credentials for the associated registered account.
- Source IP address validation and digest authentication: apply both of the above methods.

Topic

Incoming Network Signaling Validation Configuration

Incoming Network Signaling Validation Configuration

The following table lists the parameters you can use to configure the incoming network signaling validation.

Parameter	sip.request_validation.source.list	<y000000000xx>.cfg</y000000000xx>		
	It configures the name of the request method for which source IP address validation will be applied.			
Description	Example:			
	sip.request_validation.source.list = INVITE, NOTIF	(
Permitted Values	INVITE, ACK, BYE, REGISTER, CANCEL, OPTION REFER, PRACK, UPDATE	S, INFO, MESSAGE, SUBSCRIBE, NOTIFY,		
Default	Blank			
Parameter	sip.request_validation.digest.list <v00000000xx>.cfg</v00000000xx>			
	It configures the name of the request method for wh	ich digest authentication will be applied.		
Description	Example:			
	sip.request_validation.digest.list = INVITE, SUBSC	RIBE		
Permitted Values	INVITE, ACK, BYE, REGISTER, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, REFER, PRACK, UPDATE			
Default	Blank			
Parameter	sip.request_validation.digest.realm	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the string used for the authentication parameter Realm when performing the digest authentication.			

Permitted Values	A valid string		
Default	YealinkSPIP		
Parameter	sip.request_validation.event <y00000000xx>.cfg</y00000000xx>		
Description	It configures which events specified within the Event header of SUBSCRIBE or NOTIFY request should be validated. If it is left blank, all events will be validated.		
Permitted Values	A valid string		
Default	Blank		

Firmware Upgrade

There are two methods of firmware upgrade:

- Manually, from the local system for a single device via the web user interface.
- Automatically, from the provisioning server for a mass of devices.

The W73H, W78H, W57R and W59R handsets support no perception upgrade: Firstly base downloads the handset firmware, and transmits the handset firmware to the handset local through the air transmission. After the transfer is completed, the handset will trigger the upgrade again, and the upgrade of the handset will be completed within 2 minutes. The channel will not be occupied during the firmware transmission, and the handset can be used normally.

Note: We recommend that the devices running the latest firmware should not be downgraded to an earlier firmware version. The new firmware is compatible with old configuration parameters, but not vice versa.

Topics

Firmware for Each Phone Model Firmware Upgrade Configuration

Firmware for Each Phone Model

You can download the latest firmware online: http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

The following table lists the associated and latest firmware name for each device model (X is replaced by the actual firmware version).

IP Phone Model	Firmware Name	Example
W73P	W70B: 146.x.x.x.rom	W70B: 146.85.0.35.rom
W73F	W73H:116.85.0.30.rom	W73H:116.85.0.30.rom
W78P	W70B: 146.x.x.x.rom	W70B: 146.85.0.35.rom
VV7 OF	W78H:16.85.0.15.rom	W78H:16.85.0.15.rom
W76P	W70B: 146.x.x.x.rom	W70B: 146.85.0.35.rom
W/OF	W56H: 61.85.0.50.rom	W56H: 61.85.0.50.rom
W77P	W70B: 146.x.x.x.rom	W70B: 146.85.0.35.rom
VV//P	W57R: 118.85.0.10.rom	W57R: 118.85.0.10.rom
W79P	W70B: 146.x.x.x.rom	W70B: 146.85.0.35.rom
VV79F	W59R: 115.85.0.50.rom	W59R: 115.85.0.50.rom
DD phone	W70B: 146.x.x.x.rom	W70B: 146.85.0.35.rom
(T54W+DD10K)	T54W: 96.85.0.100.rom	T54W: 96.85.0.100.rom
CP930W-Base	W70B: 146.x.x.x.rom	W70B: 146.85.0.35.rom
CF930W-Dase	CP930W: 87.x.x.rom	CP930W: 87.85.0.35.rom

IP Phone Model	Firmware Name	Example
CP935W-Base	W70B: 146.x.x.x.rom	W70B: 146.85.0.35.rom
CP935W-base	CP935W: 149.x.x.rom	CP935W: 149.86.0.5.rom
W53H	W70B: 146.x.x.x.rom	W70B: 146.85.0.35.rom
VVSSH	W53H: 88.x.x.rom W53H: 88.85.0.50.rom	
	W70B: 146.x.x.x.rom	W70B: 146.85.0.35.rom
WH62/WH63	WH62/WH63: 104.x.x.x.rom	WH62/WH63: 104.432.0.35.rom
	WH6X-HEADSET(Portable & with Charging Cable series) : 104.x.x.x.rom	WH6X-HEADSET(Portable & with Charging Cable series) : 104.0.150.26.rom

Firmware Upgrade Configuration

Before upgrading firmware, you need to know the following:

- Do not close and refresh the browser when the device is upgrading firmware via the web user interface.
- Do not unplug the network cables and power cables when the device is upgrading firmware.

The following table lists the parameters you can use to upgrade firmware.

Parameter	static.firmware.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the firmware file.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Settings > Upgrade > Upgrade Firmware		
Parameter	over_the_air.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the handset firmware file.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Settings > Upgrade > Select and Upgrade Handset Firmware)	
Parameter	over_the_air.url.w56h	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the W56H handset firmware f Note: The priority of parameter "over_the_air.url.w56h" is hig		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Settings > Upgrade > Select and update handset firmware.		
Parameter	over_the_air.url.w53h	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the W53H handset firmware file. Note: The priority of parameter "over_the_air.url.w53h" is higher than "over_the_air.url".		

Values URL within 512 characters Default Blank Web UI Settings > Upgrade > Select and update handset firmware Parameter over.the_air.url.cp930w <y00000000xx>.cfg It configures the access URL of the CP930W phone firmware file. Note: The priority of parameter 'over_the_air.url.cp930w' is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.cp935w <y00000000xx>.cfg It configures the access URL of the CP935W phone firmware file. Note: The priority of parameter 'over_the_air.url.cp935w' is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.154w_dd10k Values URL within 512 characters Default Blank Parameter over_the_air.url.154w_dd10k Note: The priority of parameter 'over_the_air.url.154w_d010k' is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.959r</y00000000xx></y00000000xx>	—			
Veb Ui Settings > Upgrade > Select and update handset firmware Parameter over_the_air.url.cp930w <y000000000xx>.cfg It configures the access URL of the CP930W phone firmware file. Note: The priority of parameter "over_the_air.url.cp930w" is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.cp935w <y00000000xx>.cfg Rescription Note: The priority of parameter "over_the_air.url.cp935w" is higher than "over_the_air.url". Permitted VRL With 512 characters Default Blank <y000000000xx>.cfg Parameter over_the_air.url.154w_dd10k <y0000000000xx>.cfg Parameter over_the_air.url.154w_dd10k <y0000000000xx>.cfg Default Blank Parameter over_the_air.url.154w_dd10k <y000000000xx>.cfg Description Note: The priority of parameter "over_the_air.url.154w_d01k" is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.w59r</y000000000xx></y0000000000xx></y0000000000xx></y000000000xx></y00000000xx></y000000000xx>	Permitted Values	URL within 512 characters		
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It configures the access URL of the CP930W phone firmware file. Note: The priority of parameter "over_the_air.url.cp930w" is higher than "over_the_air.url". Permitted Values URL within 512 characters Default Blank Parameter over_the_air.url.cp935w the configures the access URL of the CP935W phone firmware file. Description Note: The priority of parameter "over_the_air.url.cp935w" is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.154w_d010k volues URL within 512 characters Default Blank Parameter over_the_air.url.154w_d010k volues uRL within 512 characters Note: The priority of parameter "over_the_air.url.154w_d010k" is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.w597 Values URL within 512 characters Default Blank Parameter over_the_air.url.w597 Values URL within 512 characters Default Blank Parameter	Web UI	Settings > Upgrade > Select and update handset firmware		
Description Note: The priority of parameter "over_the_air.url.cp930w" is higher than "over_the_air.url". Permitted Values Parameter voer_the_air.url.cp935w t configures the access URL of the CP935W phone firmware file. Note: The priority of parameter "over_the_air.url.cp935w" is higher than "over_the_air.url". Permitted Values Default Blank Parameter voer_the_air.url.154w_dd10k t configures the access URL of the DD Phone firmware file. Note: The priority of parameter "over_the_air.url.154w_dd10k" is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.154w_dd10k t configures the access URL of the DD Phone firmware file. Note: The priority of parameter "over_the_air.url.154w_dd10k" is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.w59r vou00000000xx>.cfg t configures the access URL of the W59R handset firmware file. Note: The priority of parameter "over_the_air.url.w59r" is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.w57r vou00000000xx>.cfg t configures the access URL of the W57R handset firmware file. Note: The priority of parameter "over_the_air.url.w57r" is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.w73h t configures the access URL of the W57R handset firmware file. Note: The priority of parameter "over_the_air.url.w57r" is higher than "over_the_air.url". Permitted Default Blank Parameter over_the_air.url.w73h t configures the access URL of the W73H handset firmware file. Note: The priority of parameter "over_the_air.url.w57h" is higher than "over_the_air.url". Permitted Hz within 512 characters Default Blank Parameter Note: The priority of parameter "over_the_air.url.w57h" is higher than "over_the_air.url". Permitted Hz within 512 characters	Parameter	over_the_air.url.cp930w	<y000000000xx>.cfg</y000000000xx>	
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Values URL within 512 characters Default Blank Parameter over_the_air.url.cp935w <y00000000xx>.cfg Description It configures the access URL of the CP935W phone firmware file. Note: The priority of parameter "over_the_air.url.cp935w" is higher than "over_the_air.url". Permitted VRL within 512 characters VRL within 512 characters Default Blank <y000000000xx>.cfg Parameter over_the_air.url.154w_dd10k <y000000000xx>.cfg Description Note: The priority of parameter "over_the_air.url.154w_dd10k" is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.w59r ver_the_air.url.w59r <y000000000xx>.cfg It configures the access URL of the W59R handset firmware file. Note: The priority of parameter "over_the_air.url.w59r" is higher than "over_the_air.url". Permitted VRL within 512 characters VRL within 512 characters Default Blank Parameter over_the_air.url.w59r <y000000000xx>.cfg Values URL within 512 characters Default Blank Parameter</y000000000xx></y000000000xx></y000000000xx></y000000000xx></y00000000xx>	-	Note: The priority of parameter "over_the_air.url.cp930w" is I	nigher than "over_the_air.url".	
Parameter over_the_air.url.cp935w <y00000000xx>.cfg Description It configures the access URL of the CP935W phone firmware file. Note: The priority of parameter "over_the_air.url.cp935w" is higher than "over_the_air.url". Permitted URL within 512 characters URL within 512 characters Default Blank Parameter over_the_air.url.t54w_dd10k <y00000000xx>.cfg Description It configures the access URL of the DD Phone firmware file. Note: The priority of parameter "over_the_air.url.t54w_dd10k" is higher than "over_the_air.url". Permitted VRL within 512 characters URL within 512 characters Default Blank Parameter over_the_air.url.w59r <y000000000xx>.cfg Values URL within 512 characters Default Blank Parameter over_the_air.url.w59r <y000000000xx>.cfg URL within 512 characters URL within 512 characters Default Blank Permitted VRL within 512 characters Default Blank Permitted VRL within 512 characters Default Blank</y000000000xx></y000000000xx></y00000000xx></y00000000xx>		URL within 512 characters		
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Values URL within 512 characters Default Blank Parameter over_the_air.url.w57r <y00000000xx>.cfg Description It configures the access URL of the W57R handset firmware file. Description Note: The priority of parameter "over_the_air.url.w57r" is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.w73h voer_the_air.url.w73h <y00000000xx>.cfg It configures the access URL of the W73H handset firmware file. Description Note: The priority of parameter "over_the_air.url.w73h" is higher than "over_the_air.url". Permitted URL within 512 characters UBL within 512 characters <y000000000xx>.cfg</y000000000xx></y00000000xx></y00000000xx>	Description	Note: The priority of parameter "over_the_air.url.w59r" is higher than "over_the_air.url".		
Parameter over_the_air.url.w57r <y00000000xx>.cfg Description It configures the access URL of the W57R handset firmware file. Note: The priority of parameter "over_the_air.url.w57r" is higher than "over_the_air.url". Permitted Values URL within 512 characters Default Blank Parameter over_the_air.url.w73h vote: The priority of parameter "over_the_air.url.w73H handset firmware file. Description It configures the access URL of the W73H handset firmware file. Note: The priority of parameter "over_the_air.url.w73h" is higher than "over_the_air.url". Permitted UBL within 512 characters</y00000000xx>		URL within 512 characters		
Description It configures the access URL of the W57R handset firmware file. Note: The priority of parameter "over_the_air.url.w57r" is higher than "over_the_air.url". Permitted URL within 512 characters Default Blank Parameter over_the_air.url.w73h Description It configures the access URL of the W73H handset firmware file. Note: The priority of parameter "over_the_air.url.w73h" is higher than "over_the_air.url". Permitted URL within 512 characters	Default	Blank		
Description Note: The priority of parameter "over_the_air.url.w57r" is higher than "over_the_air.url". Permitted Values URL within 512 characters Default Blank Parameter over_the_air.url.w73h <y00000000xx>.cfg Description It configures the access URL of the W73H handset firmware file. Note: The priority of parameter "over_the_air.url.w73h" is higher than "over_the_air.url". Permitted URL within 512 characters</y00000000xx>	Parameter	over_the_air.url.w57r	<y000000000xx>.cfg</y000000000xx>	
Note: The priority of parameter "over_the_air.url.w57r" is higher than "over_the_air.url". Permitted Values URL within 512 characters Default Blank Parameter over_the_air.url.w73h Use: The priority of parameter "over_the_air.url.w73h is higher than "over_the_air.url". Permitted It configures the access URL of the W73H handset firmware file. Note: The priority of parameter "over_the_air.url.w73h" is higher than "over_the_air.url". Permitted URL within 512 characters	Description	It configures the access URL of the W57R handset firmware t	ile.	
Values URL within 512 characters Default Blank Parameter over_the_air.url.w73h Description It configures the access URL of the W73H handset firmware file. Note: The priority of parameter "over_the_air.url.w73h" is higher than "over_the_air.url". Permitted URL within 512 characters	Description	Note: The priority of parameter "over_the_air.url.w57r" is higher than "over_the_air.url".		
Parameter over_the_air.url.w73h <y00000000xx>.cfg Description It configures the access URL of the W73H handset firmware file. Note: The priority of parameter "over_the_air.url.w73h" is higher than "over_the_air.url". Permitted UBL within 512 characters</y00000000xx>	Permitted Values	URL within 512 characters		
Description It configures the access URL of the W73H handset firmware file. Note: The priority of parameter "over_the_air.url.w73h" is higher than "over_the_air.url". Permitted UBL within 512 characters	Default	Blank		
Description Note: Note: The priority of parameter "over_the_air.url.w73h" is higher than "over_the_air.url". Permitted UBL within 512 characters	Parameter	over_the_air.url.w73h	<y000000000xx>.cfg</y000000000xx>	
Note: The priority of parameter "over_the_air.url.w73h" is higher than "over_the_air.url". Permitted UBL within 512 characters	Description	It configures the access URL of the W73H handset firmware t	ïle.	
III BL within 512 characters	Description	Note: The priority of parameter "over_the_air.url.w73h" is hig	her than "over_the_air.url".	
	Permitted Values	URL within 512 characters		

Default	Blank		
Parameter	over_the_air.url.wh62	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the headset firmware file. Note: The priority of parameter "over_the_air.url.wh62" is higher than "over_the_air.url".		
Permitted Values	URL within 512 characters		
Default	Blank		
Supported Devices	WH62/WH63/WHM621 with Charging Cable/WHD622 with C /WHM631 with Charging Cable/WH62 Portable/WH63 Portal		
Parameter	handset.x.paired_headset.ipui	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the headset IPUI paired with the handset Note: The priority of parameter "over_the_air.url.wh63" is hig	, pher than "over_the_air.url".	
Permitted Values	URL within 128 characters		
Default	Blank		
Parameter	over_the_air.handset_tip	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the tip to pop up when upgrading the h server.	andset firmware from the provisioning	
	Note: It works only if "over_the_air.base_trigger" and "over_the_air.handset_trigger" are set to 0 (Dis- abled).		
Permitted Values	0-Disabled	oo o nou firmuoro undoto nou 0"	
Default	1-Enabled, the handset will pop up the message "Handset ha		
Supported	All handsets except DD phones		
Devices	· ·		
Parameter	over_the_air.handset_trigger It enables or disables to upgrade the handset firmware comp	<y000000000xx>.cfg</y000000000xx>	
Description	to a base station or turned on successfully. It is only applicable when the current handset firmware is diff server. Note : It works only if "over_the_air.base_trigger" is set to 0 ([erent from the one on the provisioning	
Permitted Values	 0-Disabled, if "over_the_air.handset_tip" is set to 1 (Enabled), it will pop up a tip on the handset to notify the user to confirm upgrading the firmware or not. If "over_the_air.handset_tip" is set to 0, you may go to Settings > Upgrade Firmware (for CP930W-Base phones, you may go to Menu > Settings > Basic Settings > Upgrade Firmware, for CP935W-Base phones, you may go to More > Basic > Upgrade Firmware) on the handset to trigger the upgrading manually. 		
	1-Enabled, it will upgrade the handset firmware compulsively without a pop-up tip on the handset.		
Default	1		
Supported Devices	All handsets except DD phones		
Parameter	over_the_air.base_trigger	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the handset firmware to upgrade comp new handset firmware from the provisioning server.	ulsively when the base station detects a	

Permitted Values	 0-Disabled, if "over_the_air.handset_tip" is set to 1 (Enabled), it will pop up a tip on the handset to notify the user to confirm upgrading the firmware or not. If "over_the_air.handset_tip" is set to 0, you may go to Settings > Upgrade Firmware (for CP930W-Base phones, you may go to Menu > Settings > Basic Settings > Upgrade Firmware, for CP935W-Base phones, you need go to More > Basic > Upgrade Firmware) on the handset to trigger the upgrading manually. 1-Enabled, it will upgrade the handset firmware compulsively without a pop-up tip on the handset. 		
Default	1		
Parameter	over_the_air.mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the mode for upgrading the handset via the web user interface/auto provisioning. Note: If you upgrade in normal mode, you cannot initiate an auto provisioning; if you upgrade in gray- scale mode, you can initiate an auto provisioning, and the current upgrade is forced to end.		
Permitted Values	 Normal, four handsets per base station one time. During up able for the base-related operations. For example, calling, ac No Perception Upgrade, firmware transfer is completed be 	ccessing the directory.	
Default	1		
Web UI	Settings > Upgrade > Select and update handset firmware >	Upgrade Mode	
Parameter	over_the_air.handset_charging.disable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the handset can upgrade automatically when the handset is charging.		
Permitted	J 0- Enabled		
Values	1- Disabled		
Default	0		

Troubleshooting Methods

Yealink phones provide feedback in a variety of forms such as log files, packets, status indicators and so on, which can help you more easily find the system problem and fix it.

Topics

Exporting All the Diagnostic Files Log Files Resetting Phone and Configuration Packets Capture Watch Dog Analyzing Configuration Files Device Status Phone Reboot

Log Files

Yealink IP phone can log events into two different log files: boot log and system log. You can choose to generate the log files locally or sent the log to a syslog server in real time, and use these log files to generate informational, analytic and troubleshoot phones.

The following table lists the log files generated by the phone:

Lo	ocal	Syslog Server	Description
<mac< td=""><td></td><td></td><td>It can only log the last reboot events. It is required to report the logs with all severity levels.</td></mac<>			It can only log the last reboot events. It is required to report the logs with all severity levels.
> -			It reports the logs with a configured severity level and the higher.
all.tgz	sys.log		For example, if you have set the severity level to 4, then the logs with a sever- ity level of 0 to 4 will all be reported.

Topics

Local Logging Syslog Logging

Local Logging

You can enable local logging, specify the severity level, and choose to keep the log locally or upload the local log files to the provisioning server.

Topics

Local Logging Configuration Exporting the Log Files to a Local PC Viewing the Log Files

Local Logging Configuration

The following table lists the parameters you can use to configure local logging.

Parameter	static.local_log.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to record log locally. Note: We recommend that you do not disable this feature.		
	 0-Disabled, the phone will stop recording log to the log files (<mac>-boot.log and <mac>-sys.log) locally. The log files recorded before are still kept on the phone.</mac></mac> 1-Enabled, the phone will continue to record log to the log files (<mac>-boot.log and <mac>-sys.log)</mac></mac> 		

	locally. You can upload the local log files to the provisioning server or a specific server or export them to the local system.			
Default	1			
Web UI	Settings > Configuration > Local Log > Enable Local Log			
Parameter	static.local_log.level <y00000000xx>.cfg</y00000000xx>			
	It configures the lowest level of local log information to be rendered to the <mac>-sys.log file.</mac>			
Description	When you choose a log level, it includes all events of an equal or higher severity level and excludes events of a lower severity level. The logging level you choose determines the lowest severity of events to log.			
	0-the system is unusable			
	1-action must be taken immediately			
	2-critical condition			
Permitted Values	3-error conditions			
	4-warning conditions			
	5-normal but significant condition			
	6-informational			
Default	3			
Web UI	Settings > Configuration > Local Log > Local Log Level			
Parameter	static.local_log.max_file_size <y00000000xx>.cfg</y00000000xx>			
	It configures the maximum size (in KB) of the log files (<mac>-boot.log and <mac>-sys.log) can be stored on the IP phone.</mac></mac>			
	When this size is about to be exceeded,			
Description	(1) If the local log files are configured to be uploaded to the server by the parameter "static.auto_pro- vision.local_log.backup.enable", the phone will clear all the local log files on the phone once suc- cessfully backing up.			
	(2) If "static.auto_provision.local_log.backup.enable" is set to 0 (Disabled), the phone will erase half of the logs from the oldest log information on the phone.			
	Example:			
Permitted	static.local_log.max_file_size = 1024			
Values	Integer from 256 to 2048			
Default	2048			
Web UI	Settings > Configuration > Local Log > Max Log File Size			
Parameter	static.auto_provision.local_log.backup.enable <y000000000xx>.cfg</y000000000xx>			
Description	It enables or disables the phone to upload the local log files (<mac>-boot.log and <mac>-sys.log) the provisioning server or a specific server.</mac></mac>			
	Note: The upload path is configured by the parameter "static.auto_provision.local_log.backup.path".			
Permitted Values	 0-Disabled 1-Enabled, the phone will upload the local log files to the provisioning server or the specific server to back up these files when one of the following happens: 			

Parameter Parame					
log.max_file_size"; -!t's time to upload local log files according to the upload period configured by the parameter "static auto_provision.local_log.backup.upload_period". Default 0 Parameter static.auto_provision.local_log.backup.upload_period <y00000000xx>.cfg It configures the period (in seconds) of the local log files (<mac>-boot.log and <mac>-sys.log) uploads to the provisioning server or a specific server. Note: It works only if "static.auto_provision.local_log.backup.enable" is set to 1 (Enabled). - Permitted Integer from 30 to 86400 - Default 30 - Parameter static.auto_provision.local_log.backup.path <y00000000xx>.cfg It configures the upload path of the local log files (<mac>-boot.log and <mac>-sys.log). If you configure a relative URL (for example, /upload), the phone will upload the local log files by extracting the root directory from the access URL of the provisioning server. If you configure an absolute URL with the protocol. (for example, ttp), the phone will upload the local log files using the desired protocol. If no protocol, the phone will upload / Note: It works only if "static.auto_provision.local_log.backup.enable" is set to 1 (Enabled). Example: static.auto_provision.local_log.backup.path visioning for uploading files. - Example: static.auto_provision.local_log.backup.path = tttp://10.3.6.</mac></mac></y00000000xx></mac></mac></y00000000xx>		- Auto provisioning is triggered;			
ic auto_provision.local_log.backup.upload_period". Parameter static.auto_provision.local_log.backup.upload_period <pre><pre><pre><pre></pre><pre><pre>/v000000000xx>.cfg</pre> <pre>// t configures the period (in seconds) of the local log files (<mac>-boot.log and <mac>-sys.log) uploads to the provisioning server or a specific server. Note: It works only if "static.auto_provision.local_log.backup.enable" is set to 1 (Enabled). Permitted Integer from 30 to 86400 Default 30 Parameter static.auto_provision.local_log.backup.path </mac></mac></pre><pre><pre><pre><pre></pre><pre></pre><pre>/v00000000xx>.cfg It configures the upload path of the local log files (<mac>-boot.log and <mac>-sys.log). If you configure a relative URL (for example, /upload), the phone will upload the local log files by extracting the root directory from the access URL of the provisioning server. If you configure an absolute URL with the protocol (for example, ttp), the phone will upload the local log files using the desired protocol. If no protocol, the phone will use the same protocol with auto pro- visioning for uploading files. Example: static.auto_provision.local_log.backup.path = tfp://10.3.6.133/upload/ Note: It works only if "static.auto_provision.local_log.backup.enable" is set to 1 (Enabled). Permitted URL within 1024 characters URL within 1024 characters URL of iles or are appended local log files (<mac>-boot.log and <mac>-sys.log) overwrite the existing files or are appended local log files (<mac>-boot.log and <mac>-sys.log) overwrite the existing files or are appended to the existing files. </mac></mac></mac></mac></mac></mac></pre></pre></pre></pre></pre></pre></pre></pre>					
Parameter Parame					
It configures the period (in seconds) of the local log files (<mac>-boot.log and <mac>-sys.log) Description Note: It works only if "static.auto_provision.local_log.backup.enable" is set to 1 (Enabled). Permitted Values Default 30 Parameter static.auto_provision.local_log.backup.path <y00000000xx>.cfg It configures the upload path of the local log files (<mac>-boot.log and <mac>-sys.log). If you leave it blank, the phone will upload the local log files to the provisioning server. If you configure a relative URL (for example, lupload), the phone will upload the local log files by extracting the root directory from the access URL of the provisioning server. If you configure an absolute URL with the protocol, the phone will upload the local log files using the desired protocol. If no protocol, the phone will upload the local log files using the desired protocol. If no protocol, the phone will use the same protocol with auto provisioning for uploading files. Example: static.auto_provision.local_log.backup.path = tftp://10.3.6.133/upload/ Note: It works only if "static.auto_provision.local_log.backup.enable" is set to 1 (Enabled). Permitted URL within 1024 characters Default Blank Parameter static.auto_provision.local_log.backup.append existing files or are appended to the exist</mac></mac></y00000000xx></mac></mac>	Default	0			
Description uploads to the provisioning server or a specific server. Note: It works only if "static.auto_provision.local_log.backup.enable" is set to 1 (Enabled). Permitted Integer from 30 to 86400 Default 30 Parameter static.auto_provision.local_log.backup.path <y00000000xx>.cfg If you configures the upload path of the local log files (<mac>-boot.log and <mac>-sys.log). If you configure a relative URL (for example, /upload), the phone will upload the local log files by extracting the root directory from the access URL of the provisioning server. If you configure an absolute URL with the protocol (for example, ttp), the phone will upload the local log files using the desired protocol. In o protocol, the phone will use the same protocol with auto provisioning for uploading files. Example: static.auto_provision.local_log.backup.path = ttp://10.3.6.133/upload/ Note: It works only if "static.auto_provision.local_log.backup.enable" is set to 1 (Enabled). Permitted URL within 1024 characters Default Blank Parameter static.auto_provision.local_log.backup.append visting files or are appended to the existing files. <y00000000xx>.cfg Default Blank Parameter static.auto_provision.local_log.backup.append <y000000000xx>.cfg Descriptio rt configures or are appended to the e</y000000000xx></y00000000xx></mac></mac></y00000000xx>	Parameter	static.auto_provision.local_log.backup.upload_period <y000000000xx>.cfg</y000000000xx>			
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If you configure a relative URL (for example, /upload), the phone will upload the local log files by extracting the root directory from the access URL of the provisioning server. If you configure an absolute URL with the protocol (for example, ttp), the phone will upload the local log files using the desired protocol. If no protocol, the phone will use the same protocol with auto provisioning for uploading files. Example: static.auto_provision.local_log.backup.path = ttp://10.3.6.133/upload/ Note: It works only if "static.auto_provision.local_log.backup.enable" is set to 1 (Enabled). Permitted Values Default Blank Parameter static.auto_provision.local_log.backup.append <y000000000xx>.cfg Description It configures whether the uploaded local log files (<mac>-boot.log and <mac>-sys.log) overwrite the existing files or are appended to the existing files. Permitted Values 0-Overwrite 1-Append (not applicable to TFTP Server) Default 0</mac></mac></y000000000xx>		It configures the upload path of the local log files (<mac>-boot.log</mac>	and <mac>-sys.log).</mac>		
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Values URL within 1024 characters Default Blank Parameter static.auto_provision.local_log.backup.append <y00000000xx>.cfg Description It configures whether the uploaded local log files (<mac>-boot.log and <mac>-sys.log) overwrite the existing files or are appended to the existing files. Permitted Values 0-Overwrite 1-Append (not applicable to TFTP Server) 0</mac></mac></y00000000xx>					
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Description existing files or are appended to the existing files. Permitted 0-Overwrite Values 1-Append (not applicable to TFTP Server) Default 0	Parameter	static.auto_provision.local_log.backup.append	<y000000000xx>.cfg</y000000000xx>		
Values 1-Append (not applicable to TFTP Server) Default 0					
Default 0	Permitted	0-Overwrite			
	Values	1-Append (not applicable to TFTP Server)			
Parameter static.auto_provision.local_log.backup.append.limit_mode <y00000000xx>.cfg</y00000000xx>	Default	0			
	Parameter	static.auto_provision.local_log.backup.append.limit_mode <y000000000xx>.cfg</y000000000xx>			
Description It configures the behavior when local log files (<mac>-boot.log and <mac>-sys.log) on the pro- visioning server or a specific server reach the maximum file size.</mac></mac>					
Permitted 0-Append Delete, the server will delete the old log and the phone will continue uploading log.	Permitted	0 -Append Delete, the server will delete the old log and the phone will continue uploading log.			
Values 1-Append Stop, the phone will stop uploading log.	Values	1-Append Stop, the phone will stop uploading log.			
Default 0	Default	0			

Parameter	static.auto_provision.local_log.backup.append.max_file_size	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the maximum size (in KB) of the local log files (<mac>-boot.log and <mac>-sys.log) can be stored on the provisioning server or a specific server.</mac></mac>			
Permitted Values	Integer from 200 to 65535			
Default	1024			
Parameter	static.auto_provision.local_log.backup.bootlog.upload_wait_time <y000000000xx>.cfg</y000000000xx>			
Description	It configures the waiting time (in seconds) before the phone uploads the boot log file (<mac>-boot log) to the provisioning server or a specific server after startup.</mac>			
Permitted Values	Integer from 1 to 86400			
Default	120			

Exporting the Log Files to a Local PC

Procedure

- 1. From the web user interface, go to Settings > Configuration.
- 2. In the Enable Local Log field, select Enabled or ON.
- Select 6 from the Local Log Level drop-down menu. The default local log level is "3".
- 4. Enter the limit size of the log files in the Max Log File Size field.
- 5. Click **Confirm** to accept the change.
- 6. Reproduce the issue.
- 7. Click Export to open the file download window, and then save the file to your local system.

Viewing the Log Files

You can verify whether you got the correct log through the following key fields:

- <0+emerg >
- <1+alert >
- <2+crit >
- <3+error >
- <4+warning >
- <5+notice >
- <6+info >

The default local log level is 3.

The following figure shows a portion of a boot log file (for example, 00156574b150-boot.log):

```
1 Jan 1 00:00:24 syslogd started: BusyBox v1.10.3
2 Jan 1 00:00:25 sys [655]: ANY <0+emerg > sys log :type=1,time=0,E=3,W=4,N=5,I=6,D=7
3 Jan 1 00:00:25 sys [655]: ANY <0+emerg > ANY =3
 Jan 1 00:00:25 sys [655]: ANY <0+emerg > Version :7.2.0.10 for release
      1 00:00:25 sys [655]: ANY <0+emerg > Built-at :Apr 20 2016,11:32:02
 Jan
May 26 00:00:02 Log [706]: ANY <0+emerg > Log log :sys=1,cons=1,time=0,E=3,W=4,N=5,I=6,D=7
 May 26 00:00:02 Log [706]: ANY <0+emerg > ETLL=3
 May 26 00:00:02 auto[706]: ANY <0+emerg > autoServer log :type=1,time=0,E=3,W=4,N=5,I=6,D=7
 May 26 00:00:02 auto[706]: ANY <0+emerg > ANY =3
 May 26 00:00:02 auto[706]: ANY <0+emerg > Version :6.1.0.8 for release
 May 26 00:00:02 auto[706]: ANY <0+emerg > Built-at :May 25 2016,10:26:42
 May 26 00:00:02 sys [706]: ANY <0+emerg > sys log :type=1,time=0,E=3,W=4,N=5,I=6,D=7
 May 26 00:00:02 sys [706]: ANY <0+emerg > LSYS=3
 May 26 00:00:02 ATP [706]: ANY <0+emerg > ATP log :type=1,time=0,E=3,W=4,N=5,I=6,D=7
 May 26 00:00:02 ATP [706]: ANY <0+emerg > ANY =3
 May 26 00:00:05 sys [835]: ANY <0+emerg > sys log :type=1,time=0,E=3,W=4,N=5,I=6,D=7
 May 26 00:00:05 sys [835]: ANY <0+emerg > LSYS=3
 May 26 00:00:05 sua [835]: ANY <0+emerg > sua log :type=1,time=0,E=3,W=4,N=5,I=6,D=7
 May 26 00:00:05 sua [835]: ANY <0+emerg > ANY =5
 May 26 00:00:05 sua [835]: ANY <0+emerg > ANY =3
 May 26 00:00:06 Log [884]: ANY <0+emerg > Log log :sys=1,cons=0,time=0,E=3,W=4,N=5,I=6,D=7
 May 26 00:00:06 Log [884]: ANY <0+emerg > ANY =5
May 26 00:00:07 ipvp[887]: ANY <0+emerg > 807.194.980:ipvp log :type=1,time=1,E=3,W=4,N=5,I=6,D=7
May 26 00:00:07 ipvp[887]: ANY <0+emerg > 807.196.179:Version :1.0.0.8 for release
 May 26 00:00:07 ipvp[887]: ANY <0+emerg > 807.197.104:Built-at :Feb 29 2016,14:11:35
 May 26 00:00:07 ipvp[887]: ANY <0+emerg > 807.198.138:ANY =4
 May 26 00:00:07 sys [887]: ANY <0+emerg > sys log :type=1,time=0,E=3,W=4,N=5,I=6,D=7
May 26 00:00:07 sys [887]: ANY <0+emerg > LSYS=3
May 26 00:00:08 TR9 [897]: ANY <0+emerg > TR9 log :sys=1,cons=0,time=0,E=3,W=4,N=5,I=6,D=7
```

The boot log file reports the logs with all severity levels.

The following figure shows a portion of a sys log file (for example, 00156574b150-sys.log):

```
1 May 31 09:02:05 Log [884]: DSSK<3+error > get page:ExpIndex error![255]
2 May 31 09:02:37 Log [884]: DSSK<3+error > get page:ExpIndex error![255]
3 May 31 09:03:16 Log [884]: DSSK<3+error > get page:ExpIndex error![255]
4 May 31 09:03:27 Log [884]: DSSK<3+error > get page:ExpIndex error![255]
5 May 31 09:03:41 Log [884]: DSSK<3+error > get page:ExpIndex error![255]
6 May 31 09:03:47 Log [884]: DSSK<3+error > get page:ExpIndex error![255]
7 May 31 19:28:18 sys [1076]: ANY <0+emerg > sys log :type=1,time=0,E=3,W=4,N=5,I=6,D=7
8 May 31 19:28:18 sys [1076]: ANY <0+emerg > LSYS=3
9 Jun 1 02:33:52 Log [884]: DSSK<3+error > get page:ExpIndex error![255]
10 Jun 1 07:28:17 sys [1111]: ANY <0+emerg > LSYS=3
12 Jun 1 11:34:57 sua [835]: SUB <3+error > [000] BLF Can't find js by sid(0)
13 Jun 1 11:34:57 sua [835]: SUB <3+error > [000] BLF Can't find js by sid(0)
14 [ web ]
15 step = 2
```

The <MAC>-sys.log file reports the logs with a configured severity level and the higher. For example, if you have configured the severity level of the log to be reported to the <MAC>-sys.log file to 4, then the log with a severity level of 0 to 4 will all be reported.

Syslog Logging

You can also configure the to send syslog messages to a syslog server in real time.

You can specify syslog details such as IP address or hostname, server type, facility, and the severity level of events you want to log. You can also choose to prepend the phone's MAC address to log messages.

Topics

Syslog Logging Configuration Viewing the Syslog Messages on Your Syslog Server

Syslog Logging Configuration

The following table lists the parameters you can use to configure syslog logging.

Parameter	static.syslog.enable	<y000000000xx>.cfg</y000000000xx>	
Description	n It enables or disables the phone to upload log messages to the syslog server in real time.		
Permitted	0-Disabled		
Values	1-Enabled		

Default	0		
Web UI	Settings > Configuration > Syslog > Enable Syslog		
Parameter	static.syslog.server <y00000000xx>.cfg</y00000000xx>		
Description	It configures the IP address or domain name of the server.	syslog server when exporting log to the syslog	
Permitted Values	String within 99 characters		
Default	Blank		
Web UI	Settings > Configuration > Syslog > Syslog Server		
Parameter	static.syslog.server_port	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the port of the syslog server.		
Permitted Values	Integer from 1 to 65535		
Default	514		
Web UI	Settings > Configuration > Syslog > Syslog Server > Port		
Parameter	static.syslog.transport_type <pre></pre>		
Description	It configures the transport protocol that the IP phone uses when uploading log messages to the syslog server.		
	0-UDP		
Permitted Values	1-TCP		
	2-TLS		
Default	0		
Web UI	Settings > Configuration > Syslog > Syslog Transp	ort Type	
Parameter	static.syslog.level	<y000000000xx>.cfg</y000000000xx>	
	It configures the lowest level of syslog information t	hat displays in the syslog.	
	When you choose a log level, it includes all events of an equal or higher severity level and excludes events of a lower severity level. The logging level you choose determines the lowest severity of events to log.		
	0-Emergency: system is unusable		
Permitted Values	1-Alert: action must be taken immediately		
	2-Critical: critical conditions		
	3-Critical: error conditions		
	4-Warning: warning conditions		
	5-Warning: normal but significant condition		
	6-Informational: informational messages		
Default	3		
Web UI	Settings > Configuration > Syslog > Syslog Level		

Parameter	static.syslog.facility	<y000000000xx>.cfg</y000000000xx>		
	It configures the facility that generates the log mess			
Description	Note: For more information, refer to RFC 3164.			
	0-Kernel Messages			
	1-User-level Messages			
	2-Mail System			
	3-System Daemons			
	4-Security/Authorization Messages (Note 1)			
	5-Messages are generated internally by syslog			
	6-Line Printer Subsystem			
	7-Network News Subsystem			
	8-UUCP Subsystem			
	9-Clock Daemon (note 2)			
	10-Security/Authorization Messages (Note 1)			
	11-FTP Daemon			
Permitted	12-NTP Subsystem			
Values	13-Log Audit (note 1)			
	14-Log Alert (note 1)			
	15-Clock Daemon (Note 2)			
	16-Local Use 0 (Local0)			
	17-Local Use 1 (Local1)			
	18-Local Use 2 (Local2)			
	19-Local Use 3 (Local3)			
	20-Local Use 4 (Local4)			
	21-Local Use 5 (Local5)			
	22-Local Use 6 (Local6)			
	23-Local Use 7 (Local7)			
	Note : Note 1 - Various operating systems have been found to utilize Facilities 4, 10, 13 and 14 for security/authorization, audit, and alert messages which seem to be similar. Note 2 - Various operating systems have been found to utilize both Facilities 9 and 15 for clock (cron/at) messages.			
Default	16			
Web UI	Settings > Configuration > Syslog > Syslog Facility			
Parameter	static.syslog.prepend_mac_address.enable	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to prepend the MA log server.	C address to the log messages exported to the sys		
Permitted	0-Disabled			

Values	1-Enabled	
Default	Default 0	
Web UI	Settings > Configuration > Syslog > Syslog Prepend MAC	

Viewing the Syslog Messages on Your Syslog Server

You can view the syslog file in the desired folder on the syslog server. The location of the folder may differ from the syslog server. For more information, refer to the network resources.

The following figure shows a portion of the syslog:

Jun 02 08:42:17	10.2.20.160	local0.notice	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: APP <5+notice> [SIP] dtmf_payload :101	
Jun 02 08:42:17				
Jun 02 08:42:17				
Jun 02 08:42:17			Jun 2 00:42:48 [00:15:65:74:b1:50] sua [045]; AFF 45410468 - [5F] can chamber mit	
Jun 02 08:42:17			Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]; DEG <0+info > [000] to_intc_kin_transaction (id=66) Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]; DEG <0+info > [000] m=audio 7150 RTP/AVP 9 0 8 18 101	
Jun 02 08:42:17			Jun 2 00:42:48 [00:15:65:74:b1:50] sua [445]: DEG <0+info > [000] Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REGISTER, SUBSCRIBE, NO	
				1151
Jun 02 08:42:17			Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: DLG <6+info > [000] CSeq: 4 INVITE	
Jun 02 08:42:17	10.2.20.160	local0.info	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: DLG <6+info > [000] Call-ID: ZWQ3MWM5ZDgwZDMyMmZjY2JkN2YyMzQ1NTJiNWI5Nzg.	
Jun 02 08:42:17	10.2.20.160	local0.info	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: DLG <6+info > [000] From: <sip:101@10.2.1.43:5060>;tag=4086693836</sip:101@10.2.1.43:5060>	
Jun 02 08:42:17	10.2.20.160	local0.info	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: DLG <6+info > [000] To: "102" <sip:102@10.2.1.43:5060>;tag=8d378436</sip:102@10.2.1.43:5060>	
Jun 02 08:42:17	10.2.20.160	local0.info	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: DLG <6+info > [000] Contact: <sip:102@10.2.1.43:5060></sip:102@10.2.1.43:5060>	
Jun 02 08:42:17	10.2.20.160	local0.info	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: DLG <6+info > [000] Via: SIP/2.0/UDP 10.2.20.160:5060;branch=z9hG4bK2209216298	
Jun 02 08:42:17	10.2.20.160	local0.info	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: DLG <6+info > [000] SIP/2.0 200 OK	
Jun 02 08:42:17	10.2.20.160	local0.info	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: DLG <6+info > [000]	
Jun 02 08:42:17	10.2.20.160	local0.notice	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: DLG <5+notice> [000] Message recv: (from src=10.2.1.43:5060 len=808)	
Jun 02 08:42:17	10.2.20.160	local0.info	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: SIP <6+info > [SIP] match line:name:101 host:10.2.1.43	
Jun 02 08:42:17	10.2.20.160	local0.notice	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: NET <5+notice> [255] <<<<=== UDP socket 10.2.1.43:5060: read 808 bytes	
Jun 02 08:42:17	10.2.20.160	local0.info	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: SUA <6+info > [000] ****eCore event:(0x0010)ECORE_CALL_PROCEEDING ****	
Jun 02 08:42:17	10.2.20.160	local0.info	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: DLG <6+info > [000]	
Jun 02 08:42:17	10.2.20.160	local0.info	Jun 2 00:42:48 [00:15:65:74:b1:50] sua [845]: DLG <6+info > [000]	

Resetting Phone and Configuration

Generally, some common issues may occur while using the IP phone. You can reset your phone to factory configurations after you have tried all troubleshooting suggestions, but still do not solve the problem. Resetting the phone to factory configurations clears the flash parameters, removes log files, user data, and cached data, and resets the administrator password to admin. All custom settings will be overwritten after resetting.

Five ways to reset the phone:

- Reset local settings: All configurations saved in the <MAC>-local.cfg file on the phone will be reset. Changes associated with non-static settings made via the web user interface and phone user interface are saved in the <MAC>-local.cfg file.
- **Reset non-static settings**: All non-static parameters will be reset. After resetting the non-static settings, the phone will perform auto provisioning immediately.
- · Reset static settings: All static parameters will be reset.
- Reset userdata & local config: All the local cache data (for example, user data, history or directory) will be cleared. And all configurations saved in the <MAC>-local.cfg configuration file on the phone will be reset.
- Reset to Factory: All configurations on the phone will be reset.

You can reset the IP phone to default factory configurations. The default factory configurations are the settings that reside on the IP phone after it has left the factory. You can also reset the IP phone to custom factory configurations if required. The custom factory configurations are the settings defined by the user to keep some custom settings after resetting. You have to import the custom factory configuration files in advance.

Note: The Reset local settings/Reset non-static settings/Reset static settings/Reset userdata & local config option on the web user interface appears only if "static.auto_provision.custom.protect" is set to 1.

Topics

Resetting the IP phone to Default Factory Settings Resetting the IP phone to Custom Factory Settings Deleting the Custom Factory Settings Files

Resetting the IP phone to Default Factory Settings

Procedure

- 1. Click Settings > Upgrade.
- 2. Click Reset to Factory in the Reset to Factory field.
- The web user interface prompts the message "Do you want to reset to factory?".
- **3.** Click **OK** to confirm the resetting.

The phone will be reset to factory successfully after startup.

Note: Reset of your phone may take a few minutes. Do not power off until the phone starts up successfully.

Resetting the IP phone to Custom Factory Settings

After you enable the custom factory feature, you can import the custom factory configuration file, and then reset the IP phone to custom factory settings.

Procedure

- 1. From the web user interface, click Settings > Configuration.
- 2. In the **Import Factory Config** block, click **Browse** to locate the custom factory configuration file from your local system.
- 3. Click Import.
- 4. After the custom factory configuration file is imported successfully, you can reset the IP phone to custom factory settings.

Topic

Custom Factory Configuration

Custom Factory Configuration

The following table lists the parameters you can use to configure a custom factory.

Parameter	static.features.custom_factory_config.enable	<y000000000xx>.cfg</y000000000xx>				
Description	It enables or disables the Custom Factory Configuration feature.					
Permitted Values	 0-Disabled 1-Enabled, Import Factory Configuration item will be displayed on the IP phone's web user interface at the path Settings > Configuration. You can import a custom factory configuration file or delete the user-defined factory configuration via the web user interface. 					
Default	0					
Parameter	static.custom_factory_configuration.url	<y000000000xx>.cfg</y000000000xx>				
Description	It configures the access URL of the custom factory on Note : It works only if "static.features.custom_factory format of the custom factory configuration file must	v_config.enable" is set to 1 (Enabled) and the file				
Permitted Values	URL within 511 characters					
Default	Blank					
Web UI	Settings > Configuration > Import Factory Config					

Deleting the Custom Factory Settings Files

You can delete the user-defined factory configurations via the web user interface.

Procedure

- 1. From the web user interface, click Settings > Configuration.
- 2. Click Del/Delete in the Import Factory Config field.
 - The web user interface prompts you whether to delete the user-defined factory configuration.
- Click OK to delete the custom factory configuration files.
 The imported custom factory file will be deleted. The phone will be reset to default factory settings after resetting.

Packets Capture

You can capture packet in two ways: capturing the packets via the web user interface or using the Ethernet software. You can analyze the packet captured for troubleshooting purpose.

Topic

Capturing the Packets via Web User Interface

Capturing the Packets via Web User Interface

For Yealink phones, you can export the packets file to the local system and analyze it.

Procedure

- 1. From the web user interface, go to Settings > Configuration.
- 2. Click Start in the Pcap Feature field to start capturing signal traffic.
- 3. Reproduce the issue to get stack traces.
- 4. Click Stop in the Pcap Feature field to stop capturing.
- 5. Click Export to open the file download window, and then save the file to your local system.

ે	ealink w70)В			
•	Status	~			
	Account	~	 Default password is in use. Please change! 		
-	Account		Configuration		
8		~	BIN Configuration		
ų		~	Import Configuration	No selected file(.bin) Browse Imp	ort 🕐
۰	Settings		Export Configuration	Export	
			CFG Configuration		
			Import CFG Configuration File	No selected file(.cfg) Browse Imp	ort 🕜
			Export CFG Configuration File	All Settings 👻 Export	
			Diagnosis		
	Auto Provision		Pcap		
	Configuration		Рсар Туре	Normal 👻 🕜	
			Pcap Feature	Start Stop Export @	
			Module Log		
	Ring		-		
	Tones		Module Log Level	All • 3 •	
	TR069		Local Log		
	11069		Enable Local Log		
				Confirm Cancel	

Watch Dog

The IP phone provides a troubleshooting feature called "Watch Dog", which helps you monitor the IP phone status and provides the ability to get stack traces from the last time the IP phone failed. If the Watch Dog feature is enabled, the phone will automatically reboot when it detects a fatal failure. This feature can be configured using the configuration files or via the web user interface.

Topic

Watch Dog Configuration

Watch Dog Configuration

The following table lists the parameter you can use to configure watch dog.

Parameter	static.watch_dog.enable	<y000000000xx>.cfg</y000000000xx>				
Description	It enables or disables the Watch Dog feature.					
Permitted	ermitted 0-Disabled					
Values	1-Enabled, the phone will reboot automatically when the system crashed.					
Default	1					
Web UI	Settings > Preference > Watch Dog					

Analyzing Configuration Files

Wrong configurations may have an impact on phone use. You can export configuration file(s) to check the current configuration of the IP phone and troubleshoot if necessary. You can also import configuration files for a quick and easy configuration.

We recommend that you edit the exported CFG file instead of the BIN file to change the phone's current settings. The config.bin file is an encrypted file. For more information on config.bin file, contact your Yealink reseller.

Topics

Exporting CFG Configuration Files from Phone Importing CFG Configuration Files to Phone Exporting BIN Files from the Phone Importing BIN Files from the Phone

Exporting CFG Configuration Files from Phone

You can export the phone's configuration file to local and make changes to the phone's current feature settings. You can apply these changes to any phone by importing the configuration files via the web user interface.

You can export five types of CFG configuration files to the local system:

- <MAC>-local.cfg: It contains changes associated with non-static parameters made via the phone user interface and web user interface. It can be exported only if "static.auto_provision.custom.protect" is set to 1 (Enabled).
- <MAC>-all.cfg: It contains all changes made via the phone user interface, web user interface and using configuration files.
- **<MAC>-static.cfg**: It contains all changes associated with static parameters (for example, network settings) made via the phone user interface, web user interface and using configuration files.
- <MAC>-non-static.cfg: It contains all changes associated with non-static parameters made via the phone user interface, web user interface and using configuration files.
- <MAC>-config.cfg: It contains changes associated with non-static parameters made using configuration files. It can be exported only if "static.auto_provision.custom.protect" is set to 1 (Enabled).

Procedure

- 1. Go to Settings > Configuration.
- 2. In the Export CFG Configuration File block, click Export to open the file download window, and then save the file to your local system.

Importing CFG Configuration Files to Phone

You can import the configuration files from local to the phones via the web user interface. The configuration files contain the changes for phone features and these changes will take effect after importing.

Procedure

- 1. Go to Settings > Configuration.
- 2. In the Import CFG Configuration File block, click Browse to locate a CFG configuration file in your local system.

3. Click Import to import the configuration file.

Topic

Configuration Files Import URL Configuration

Configuration Files Import URL Configuration

The following table lists the parameters you can use to configure the configuration files import URL.

Parameter	static.custom_mac_cfg.url	<y000000000xx>.cfg</y000000000xx>			
Description	escription It configures the access URL of the custom MAC-Oriented CFG file.				
Permitted Values	URL within 511 characters				
Default	Blank				

Exporting BIN Files from the Phone

Procedure

- 1. From the web user interface, click Settings > Configuration > BIN Configuration.
- 2. In the Export Configuration block, click Export to open the file download window, and then save the file to your local system.

Importing BIN Files from the Phone

Procedure

- 1. From the web user interface, click Settings > Configuration > BIN Configuration.
- 2. In the Import Configuration block, click Browse to locate a BIN configuration file from your local system.
- 3. Click Import to import the configuration file.

Topic

BIN Files Import URL Configuration

BIN Files Import URL Configuration

The following table lists the parameter you can use to configure the BIN files import URL.

Parameter	static.configuration.url ^[1]	<y000000000xx>.cfg</y000000000xx>				
Description	It configures the access URL for the custom configura	tion files.				
	Note : The file format of the custom configuration file must be *.bin.					
Permitted Values	JRL within 511 characters					
Default	Blank					
Web UI	Settings > Configuration > Export or Import Config					

^[1]If you change this parameter, the phone will reboot to make the change take effect.

Exporting All the Diagnostic Files

Yealink phones support three types of diagnostic files (including Pcap trace, log files (boot.log and sys.log), and BIN configuration files) to help analyze your problem. You can export these files at a time and troubleshoot if

necessary. The file format of the exported diagnostic file is *.tar.

Procedure

- 1. From the web user interface, go to Settings > Configuration.
- Click Start in the Export All Diagnostic Files field to begin capturing signal traffic. The system log level will be automatically set to 6.
- 3. Reproduce the issue.
- Click Stop in the Export All Diagnostic Files field to stop the capture. The system log level will be reset to 3.
- 5. Click Export to open the file download window, and then save the diagnostic file to your local system.

A diagnostic file named <MAC>-DiagnoseInfo.tar is successfully exported to your local system.

Note: After exporting the diagnostic files, you can create a ticket to describe your problem at ticket.yealink.com, and Yealink support team will help you locate the root cause.

Device Status

Available information on device status includes:

- Base station status (IPv4 status or IPv6 status, firmware version, MAC address, machine ID and device certificate status, RFPI and network information).
- Handset (or Phone) status (handset model, hardware version, firmware version, IPUI code, SN code, and area).
- Line status
- Power status (only applicable to CP930W-Base/CP935W-Base phones.)

Topic

Viewing Device Status

Viewing Device Status

You can view device status via the handset user interface by goingto **OK** > **Status**. For CP930W-Base phones you can go to **Menu** > **Status**. For CP935W-Base phones you can go to **More** > **Status**.

You can also view the device status via the web user interface.

Procedure

- 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. For example, "http://192.168.0.10" for IPv4 or "http://[2005:1:1:1:215:65ff:fe64:6e0a]" for IPv6.
- 3. Enter the user name (admin) and password (admin) in the login page.
- 4. Click Login to log in.

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

Phone Reboot

You can reboot the IP phone remotely or locally.

Topics

Rebooting the IP Phone Remotely Rebooting the Device via the Handset User Interface Rebooting the Device via Web User Interface

Rebooting the IP Phone Remotely

You can reboot the phones remotely using a SIP NOTIFY message with "Event: check-sync" header. Whether the IP phone reboots or not depends on "sip.notify_reboot_enable". If the value is set to 1, or the value is set to 0 and the header of the SIP NOTIFY message contains an additional string "reboot=true", the phone will reboot immediately.

The NOTIFY message is formed as shown:

NOTIFY sip:<user>@<dsthost> SIP/2.0 To: sip:<user>@<dsthost> From: sip:sipsak@<srchost> CSeq: 10 NOTIFY Call-ID: 1234@<srchost> Event: check-sync;reboot=true

Topic

Notify Reboot Configuration

Notify Reboot Configuration

The following table lists the parameter you can use to configure notify reboot.

Parameter	sip.notify_reboot_enable	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the IP phone behavior when receiving a SIP NOTIFY message which contains the header "Event: check-sync".			
	0-The phone will reboot only if the SIP NOTIFY means	ssage contains an additional string "reboot=true".		
Permitted Values	1-The phone will reboot.			
	2-The phone will ignore the SIP NOTIFY message.			
Default	1			

Rebooting the Device via the Handset User Interface

You can reboot your device via the handset user interface.

Procedure

 Press OK > Settings > System Settings > Base Restart (default PIN: 0000). For CP930W-Base phones, go to Menu > Advanced Settings (default PIN:0000) > Reboot Config > Base Reboot. For CP935W-Base phones, go to More > Advanced (default PIN:0000) > Reboot > Base Reboot.

2. Tap Reboot.

The device begins rebooting. Any reboot of the device may take a few minutes.

Rebooting the Device via Web User Interface

You can reboot your IP phone via the web user interface.

Procedure

- 1. Click Settings > Upgrade.
- 2. Click Reboot.

The device begins rebooting. Any reboot of the device may take a few minutes.

Troubleshooting Solutions

This section describes solutions to common issues that may occur while using the device. Upon encountering a case not listed in this section, contact your Yealink reseller for further support.

Topics

IP Address Issues Time and Date Issues Phone Book Issues Audio Issues Firmware and Upgrading Issues System Log Issues Password Issues Power and Startup Issues Other Issues Base Issue Handset Issues Register Issue Display Issue Upgrade Issue

IP Address Issues

The device does not get an IP address

Do one of the following:

If your device connects to the wired network:

- Ensure that the Ethernet cable is plugged into the Internet port on the IP phone and the Ethernet cable is not loose.
- Ensure that the Ethernet cable is not damaged.
- . Ensure that the IP address and related network parameters are set correctly.
- Ensure that your network switch or hub is operational.

Solving the IP conflict problem

Do one of the following:

- Reset another available IP address for the IP phone.
- Check network configuration via handset user interface at the path OK > Settings > System Settings > Network (default PIN: 0000) > Basic > IPv4 (or IPv6). For CP930W-Base phones, go to Menu > Advanced Settings (default PIN: 0000) > Network > Basic > IPv4 (or IPv6). For CP935W-Base phones, go to More > Advanced (default PIN: 0000) > Network > WAN Port > IPv4 (or IPv6). If the Static IP is selected, select DHCP instead.

The Specific format in configuring IPv6 on Yealink phones

Scenario 1:

If the IP phone obtains the IPv6 address, the format of the URL to access the web user interface is "[IPv6 address]" or "http(s)://[IPv6 address]". For example, if the IPv6 address of your phone is "fe80::204:13ff:fe30:10e", you can enter the URL (for example, "[fe80::204:13ff:fe30:10e]" or "http(s)://[fe80::204:13ff:fe30:10e])" in the address bar of a web browser on your PC to access the web user interface.

Scenario 2:

Yealink phones support using FTP, TFTP, HTTP, and HTTPS protocols to download configuration files or resource files. You can use one of these protocols for provisioning.

When provisioning your IP phone obtaining an IPv6 address, the provisioning server should support IPv6 and the format of the access URL of the provisioning server can be "tftp://[IPv6 address or domain name]". For example, if the provisioning server address is "2001:250:1801::1", the access URL of the provisioning server can be "tftp:// [2001:250:1801::1]". For more information on provisioning, refer to Yealink SIP IP Phones Auto Provisioning Guide.

Time and Date Issues

Display time and date incorrectly

Check if the IP phone is configured to obtain the time and date from the NTP server automatically. If your phone is unable to access the NTP server, configure the time and date manually.

Phone Book Issues

Difference between a remote phone book and a local phone book

A remote phone book is placed on a server, while a local phone book is placed on the IP phone flash. A remote phone book can be used by everyone that can access the server, while a local phone book can only be used on a specific phone. A remote phone book is always used as a central phone book for a company; each employee can load it to obtain real-time data from the same server.

Audio Issues

Increasing or decreasing the volume

Press the volume key to increase or decrease the ringer volume when the IP phone is idle or ringing, or to adjust the volume of the engaged audio device (speakerphone or headset) when there is an active call in progress.

Get poor sound quality during a call

If you have poor sound quality/acoustics like intermittent voice, low volume, echo or other noises, the possible reasons could be:

- Users are seated too far out of recommended microphone range and sound faint, or are seated too close to sensitive microphones and cause echo.
- Intermittent voice is mainly caused by packet loss, due to network congestion, and jitter, due to message recombination of transmission or receiving equipment (for example, timeout handling, retransmission mechanism, buffer underrun).
- Noisy equipment, such as a computer or a fan, may cause voice interference. Turn off any noisy equipment.
- Line issues can also cause this problem; disconnect the old line and redial the call to ensure another line may provide a better connection.

There is no sound when the other party picks up the call

If the caller and receiver cannot hear anything - there is no sound at all when the other party picks up the call, the possible reason could be: the phone cannot send the real-time transport protocol (RTP) streams, in which audio data is transmitted, to the connected call.

Try to disable the 180 ring workaround feature.

Related Topic

Early Media

Play the local ringback tone instead of media when placing a long-distance number without plus 0

Ensure that the 180 ring workaround feature is disabled.

Related Topic

Early Media

Firmware and Upgrading Issues

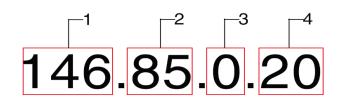
Fail to upgrade the phone firmware

Do one of the following:

- Ensure that the target firmware is not the same as the current firmware.
- Ensure that the target firmware is applicable to the IP phone model.
- Ensure that the current or the target firmware is not protected.
- Ensure that the power is on and the network is available in the process of upgrading.
- Ensure that the web browser is not closed or refreshed when upgrading firmware via the web user interface.

Verifying the firmware version

Go to OK > Status > Base/Handset when the handset is idle to check the firmware version. For CP930W-Base phones, go to Menu > Status > Base/Phone. For CP935W-Base phones, go to More > Status > Base Status/Phone Status. For example 146.85.0.20.



	ltem	Description				
1	146 The firmware ID for each device is 146.					
2	85	Major version. Note : The larger it is, the newer the major version is.				
3	0	A fixed number.				
4	20	Minor version. Note : With the same major version, the larger it is, the newer the minor version is.				

The IP phone does not update the configurations

Do one of the following:

- Ensure that the configuration is set correctly.
- Reboot the phone. Some configurations require a reboot to take effect.

- Ensure that the configuration is applicable to the IP phone model.
- The configuration may depend on support from a server.

System Log Issues

Fail to export the system log to a provisioning server (FTP/TFTP server)

Do one of the following:

- Ensure that the FTP/TFTP server is downloaded and installed on your local system.
- Ensure that you have configured the FTP/TFTP server address correctly via the web user interface on your IP phone.
- · Reboot the phone. The configurations require a reboot to take effect.

Fail to export the system log to a syslog server

Do one of the following:

- Ensure that the syslog server can save the syslog files exported from the IP phone.
- Ensure that you have configured the syslog server address correctly via the web user interface on your IP phone.
- · Reboot the phone. The configurations require a reboot to take effect.

Password Issues

Restore the administrator password

Factory reset can restore the original password. All custom settings will be overwritten after reset.

Related Topic

Resetting the IP phone to Default Factory Settings

The web screen displays "Default password is in use. Please change!"

The web screen prompts "Default password is in use. Please change!" message when the default password is in use. Click the warning message to change the password.

Yealink	W70B				About Language +	Lo
 Status 	v	O Default password is in use. Please characteristic	ngel		×	
Account Network	ž	Version	Firmware Version	146.85.0.15	NOTE	
Features		0	Hardware Version	146.0.0.0.1.0	Version It shows the firmware version and hardware version.	
Settings	~	Device Certificate	Device Certificate	Factory Installed	Network It shows the network settings of Internet (WAN) port. ② Click here to get more product documents.	
 Directory Security 	ž	Network	Internet Port	IPv4		
Security	Ť	-				
Applications	~		WAN Port Type	DHCP		
			WAN IP Address	10.81.8.20		
		IPv4	Subnet Mask	255.255.255.0		
		0	Gateway	10.81.8.254		
			Primary DNS	10.100.1.10		
			Secondary DNS	192.168.1.22		

Power and Startup Issues

Both PoE cable and power adapter is connected to the phone

The phones use the PoE preferentially. It is not applicable to CP930W-Base/CP935W-Base phones.

The power LED indicator has no lights

If no lights appear on the IP phone when it is powered up, do one of the following (not applicable to CP930W-Base/CP935W-Base phones.):

- Reboot your device.
- Replace the power adapter.

Other Issues

The difference among user name, register name, and display name

Both user name and register name are defined by the server. User name identifies the account, while register name matched with a password is for authentication purposes. The display name is the caller ID that will be displayed on the callee's phone LCD screen. Server configurations may override the local ones.

On code and off code

They are codes that the IP phone sends to the server when a certain action takes place. On code is used to activate a feature on the server side, while off code is used to deactivate a feature on the server side.

For example, if you set the Always Forward on code to be *78 (may vary on different servers), and the target number to be 201. When you enable Always Forward on the IP phone, the phone sends *78201 to the server, and then the server will enable Always Forward feature on the server side, hence being able to get the right status of the extension.

For anonymous call/anonymous call rejection feature, the phone will send either the on code or off code to the server according to the value of Send Anonymous Code/Send Rejection Code.

The difference between RFC 2543 Hold enabled and disabled

Capturing packets after you enable the RFC 2543 Hold feature. SDP media direction attributes (such as a=seendonly) per RFC 2543 is used in the INVITE message when placing a call on hold.

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54 2.018991	10.3.20.14	10.3.5.199	SIP/SDP	904 Request	INVITE sip:1021@10.3.5.199:5060, with session description		
55 2.021424	10.3.5.199	10.3.20.14	SIP	314 Status:			
	10.3.5.199	10.3.20.14	SIP		487 Request Cancelled		
57 2.037965	10.3.20.14	10.3.5.199	SIP	305 Request	: ACK sip:1010@10.3.5.199:5060		
	10.3.5.199	10.3.20.14	SIP	547 Status:			
60 4.650231		10.3.20.14	SIP/SDP		200 OK, with session description		
	10.3.20.14	10.3.20.4	SIP		: ACK sip:1021@10.3.20.4:5063		
	10.3.5.199	10.3.20.14	SIP		487 Request Cancelled		
193 6.067820		10.3.5.199	SIP		: ACK sip:1010@10.3.5.199:5060		
263 6.733904		10.3.20.4	SIP/SDP		: INVITE sip:1021@10.3.20.4:5063, in-dialog, with session descripti		
264 6./41532		10.3.20.14	SIP	336 Status:			
	10.3.20.4	10.3.20.14	SIP/SDP		200 OK, with session description		
269 6.803767	10.3.20.14	10.3.20.4	SIP	405 Request	: АСК sip:1021@10.3.20.4:5063		
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Capturing packets after you disable the RFC 2543 Hold feature. SDP media connection address c=0.0.0.0 per RFC 3264 is used in the INVITE message when placing a call on hold.

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56 3.074205	10.3.20.14	10.3.5.199	SIP/SDP	904 Request:	INVITE sip:1021@10.3.5.199:5060, with session description	
57 3.076752		10.3.20.14	SIP	314 Status:		
59 3.328526		10.3.20.14	SIP	546 Status:		
60 5.121648		10.3.20.14	SIP/SDP		200 OK, with session description	
61 5.141647		10.3.20.4	SIP		ACK sip:1021@10.3.20.4:5063	
85 5.463380		224.0.1.75	SIP		SUBSCRIBE sip:MAC001565770984@224.0.1.75	
182 6.429073		10.3.20.4	SIP/SDP		INVITE sip:1021@10.3.20.4:5063, in-dialog, with session description	
184 6.439004	10.3.20.4	10.3.20.14	SIP	335 Status:		
187 6.482474	10.3.20.4	10.3.20.14	SIP/SDP		200 OK, with session description	
189 6.496305	10.3.20.14	10.3.20.4	SIP	404 Request:	ACK sip:1021@10.3.20.4:5063	
B Message Header B Message Body Session Description Protocol Version (v): 0 Session Description Protocol Version (v): 0 B Owner/Creator, Session 1d (o): - 20038 20039 IN IP4 10.3.20.14 Session Name (s): SDP data B Connection Information (c): IN IP4 0.0.0.0 Connection Address Type: IN Connection Address Type: IP4 Connection Address: 0.0.0.0 B Time Description, name and address (m): audio 11856 RTP/AVP 18 9 0 8 101 B Media Description, name and address (m): audio 11856 RTP/AVP 18 9 0 8 101 B Media Attribute (a): rtpmap:16 R72/8000 B Media Attribute (a): rtpmap:0 FC/22/8000 B Media Attribute (a): rtpmap:0 FC/22/8000 B Media Attribute (a): rtpmap:0 FC/28000 B Media Attribute (a): rtpmap:0 FC/2800 B Media Attribute (a): rtpmap:0 FC/2800 B Media Attribute (a):						
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Base Issue

Why doesn't the power indicator on the base station light up?

Plug the supplied power adapter to the base station, if the power indicator doesn't light up, it should be a hardware problem. Please contact your vendor or the local distributor and send the problem description for help. If you cannot get a support from them, please send a mail which includes problem description, test result, your country and phone's SN to Support@yealink.com.

Why doesn't the network indicator on the base station slowly flash?

It means that the base station cannot get an IP address. Try connecting the base station to another switch port, if the network indicator still slowly flashes, please try a reset.

Handset Issues

How to check which area the handset is used for?

Go to OK > Status > Handset > Area.

Register Issue

Why cannot the handset be registered to the base station?

If the network works normally, you can check the compatibility between the base station and the handset. There are 2 sets of base stations, complied with the FCC and CE standard respectively. You can check it from the back of the base station. There are also 2 sets of handsets, American version/European version area respectively.

The handset in the American version is compatible with FCC standard base station.

The handset in the European version is compatible with CE standard base station.

Display Issue

Why does the handset prompt the message "Not Subscribed"?

Check the registration status of your handset. If your handset is not registered to the base station, register it manually.

Why does the handset prompt the message "Not in Range" or "Out Of Range"?

- Ensure that the base station is properly plugged into a functional AC outlet.
- Ensure that the handset is not too far from the base station.

Why does the handset prompt the message "Network unavailable"?

- Ensure that the Ethernet cable is plugged into the Internet port on the base station and the Ethernet cable is not loose.
- Ensure that the switch or hub in your network is operational.

Why does the handset display "No Service"?

The LCD screen prompts "No Service" message when there is no available SIP account on the DECT IP phone.

Do one of the following:

- Ensure that an account is actively registered on the handset at the path OK > Status > Line Status.
- Ensure that the SIP account parameters have been configured correctly.

Upgrade Issue

Why doesn't the DECT IP phone upgrade firmware successfully?

Do one of the following:

- Ensure that the target firmware version is not the same as the current one.
- Ensure that the target firmware is applicable to the DECT IP phone model.
- Ensure that the current or the target firmware is not protected.
- Ensure that the power is on and the network is available in the process of upgrading.
- Ensure that the web browser is not closed or refreshed when upgrading firmware via the web user interface.
- For handset, ensure the handset battery should not less than 40% and is connected to the base station.

Audio Features

This chapter describes the audio sound quality features and options you can configure for the IP phone.

Topics

Alert Tone Ringer Device Audio Volume Tones Distinctive Ring Tones Audio Codecs Packetization Time (PTime) Early Media Acoustic Clarity Technology DTMF Voice Quality Monitoring (VQM) Silent Charging

Alert Tone

You can configure the following audio alert for the phone:

- Voice mail tone: allow the IP phone to play a warning tone when receiving a new voice mail. You can customize the warning tone or select specialized tone sets (vary from country to country) for your IP phone.
- Dial tone: allow the IP phone to play a specific dial tone for a specified time.

Topic

Alert Tone Configuration

Alert Tone Configuration

The following table lists the parameters you can use to configure the alert tone.

Parameter	features.call.dialtone_time_out	<y000000000xx>.cfg</y000000000xx>				
Description	It configures the duration time (in seconds) that a dial tone plays before a call is dropped.					
	If it is set to 0, the call is not dropped.					
Permitted Values	Integer from 0 to 65535					
Default	15					
Parameter	features.voice_mail_tone_enable <y000000000xx>.cfg</y000000000xx>					
Description	It enables or disables the phone to play a warning tone when it receives a new voice mail.					
Description	Note: It works only if "account.X.display_mwi.enable" is set to 1 (Enabled).					
Permitted	0-Disabled					
Values	1-Enabled					
Default	1					
Web UI	Features > General Information > Voice Mail Tone					

Ringer Device

You can use either or both the speaker and the headset as the ringer devices. You can configure which ringer device to be used when receiving an incoming call. For example, if the ringer device is set to Headset, ring tone will be played through your headset.

It is not applicable to CP930W-Base/CP935W-Base phones.

The following table describes the headset types supported by different handsets.

Handset	3-segment Headset	4-segment Headset
W53H(3.5mm)	supports	Only supports international standards (I version)
W56H(3.5mm)	supports	Only supports international standards (I version)
W73H(3.5mm)	supports	Only supports international standards (I version)

Topic

Ringer Device Configuration

Ringer Device Configuration

The following table lists the parameters you can use to configure the ringer device.

Parameter	features.ringer_device.is_use_headset	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the ringer device for the phone.			
Permitted	0-Use Speaker			
Values	1-Use Headset			
Default	0			
Web UI	Features > Audio > Ringer Device for Headset			

Audio Volume

You can configure the sending volume and ringer volume for the phone.

Topics

Ringer Volume Configuration

Ringer Volume Configuration

You can configure the ringer volume as a fixed level, so the user cannot adjust the ringer volume on the phone. This feature is used to avoid missing calls when the user turns down the ringer volume.

The following table lists the parameters you can use to configure the ringer volume.

Parameter	force.voice.ring_vol	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the ring tone as a fixed volume.			
Permitted	Blank-the user can adjust the ringer volume on the phone.			
Values	0 to 5-the user cannot adjust the ringer volume c	on the phone, the ring tone is the configured volume.		
Default	Blank			

Tones

When receiving a message, the phone will play a warning tone. You can customize tones or select specialized tone sets (vary from country to country) to indicate different conditions of the IP phone.

Topics

Supported Tones Tones Configuration

Supported Tones

The default tones used on the phones are the US tone sets. Available tone sets for phones:

- Australia
- Austria
- Brazil
- Belgium
- China
- Czech
- Denmark
- Finland
- France
- Germany
- Great Britain
- Greece
- Hungary
- Lithuania
- India
- Italy
- Japan
- Mexico
- New Zealand
- Netherlands
- Norway
- Portugal
- Spain
- Switzerland
- Sweden
- Russia
- United States
- Chile
- Czech ETSI

Configured tones can be heard on the phones in the following conditions.

Condition	Description
Dial	When in the dialing interface
Ring Back	Ring-back tone
Busy	When the callee is busy
Call Waiting	Call waiting tone (For more information on call waiting, refer to Call Waiting)

Tones Configuration

The following table lists the parameters you can use to configure tones.

Parameter	voice.tone.country	<y000000000xx>.cfg</y000000000xx>			
Description	It configures the country tone for the phones.				
Permitted Values	Custom, Australia, Austria, Brazil, Belgium, Chile, China, Czech, Czech ETSI, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Lithuania, India, Italy, Japan, Mexico, New Zea- land, Netherlands, Norway, Portugal, Spain, Switzerland, Sweden, Russia, United States				
Default	Custom				
Web UI	Settings > Tones > Select Country				
Parameter	voice.tone.dial	<y000000000xx>.cfg</y000000000xx>			
	It customizes the dial tone.				
	tone list = element[,element] [,element]				
	Where				
	element = [!]Freq1[+Freq2][+Freq3][+Freq4] /Durati	on			
Description	Freq : the frequency of the tone (ranges from 200 to not played.	4000 Hz). If it is set to 0 Hz, it means the tone is			
	Duration : the duration (in milliseconds) of the dial tone, ranges from 0 to 30000ms.				
	You can configure at most eight different tones for one condition, and separate them by commas. (for example, 250/200,0/1000,200+300/500,200+500+800+1500/1000).				
	If you want the IP phone to play tones once, add an exclamation mark "!" before tones (for example, !250/200,0/1000, 200+300/500,200+500+800+1500/1000).				
	Note: It works only if "voice.tone.country" is set to C	ustom.			
Permitted Values	String				
Default	Blank				
Web UI	Settings > Tones > Dial				
Parameter	voice.tone.ring	<y000000000xx>.cfg</y000000000xx>			
	It customizes the ringback tone.				
Description	The value format is Freq/Duration. For more information on the value format, refer to the parameter "voice.tone.dial".				
	Note: It works only if "voice.tone.country" is set to C it to 0.	ustom. If you want to disable this warning tone, set			
Permitted Values	String				
Default	Blank				
Web UI	Settings > Tones > Ring Back				
Parameter	voice.tone.busy	<y000000000xx>.cfg</y000000000xx>			
	It customizes the tone when the callee is busy.				
Description	The value format is Freq/Duration. For more information on the value format, refer to the parameter "voice.tone.dial".				

	Note: It works only if "voice.tone.country" is set to Custom. If you want to disable this warning tone, set it to 0.						
Permitted Values	String						
Default	Blank						
Web UI	Settings > Tones > Busy						
Parameter	voice.tone.callwaiting	voice.tone.callwaiting <y00000000xx>.cfg</y00000000xx>					
Description	It customizes the call waiting tone. The value format is Freq/Duration. For more information on the value format, refer to the parameter "voice.tone.dial". Note : It works only if "voice.tone.country" is set to Custom. If you want to disable this warning tone, set it to 0.						
Permitted Values	String						
Default	Blank						
Web UI	Settings > Tones > Call Waiting						

Distinctive Ring Tones

The feature of distinctive ring tones allows certain incoming calls to trigger the phones to play distinctive ring tones.

The IP phone inspects the INVITE request for an "Alert-Info" header when receiving an incoming call. If the INVITE request contains an "Alert-Info" header, the phone strips out the URL or keyword parameter and maps it to the appropriate ring tone.

Note: If the caller already exists in the local directory, the ring tone assigned to the caller should be preferentially played.

Topics

Distinctive Ring Tones Configuration

Supported Alert-Info Headers Format

Yealink phones support Alert-Info headers in four formats: Bellcore-drN, ringtone-N (or MyMelodyN), <URL> and info=info text;x-line-id=0.

Note: If the Alert-Info header contains multiple types of keywords, the phone will process the keywords in the following order: AutoAnswer > URL > info text/Bellcore-drN/ringtone-N (ringtone-RingN) > MyMelodyN (MyMelodyRingN).

Topics

Alert-Info: Bellcore-drN Alert-Info: ringtone-N/Alert-Info: ringtone-RingN.wav (or Alert-Info: MyMelodyN/Alert-Info: MyMelodyRingN.wav) Alert-Info: info=info text;x-line-id=0

Alert-Info: Bellcore-drN

When the Alter-Info header contains the keyword "Bellcore-drN", the phone will play the desired ring tone.

The following table identifies the corresponding ring tones:

Value of N	Ring Tone	Ring Tone			
value of N	(features.alert_info_tone = 1)	(features.alert_info_tone = 0)			
1	Bellcore-dr1	Ring1.wav			
2	Bellcore-dr2	Ring2.wav			
3	Bellcore-dr3	Ring3.wav			
4	Bellcore-dr4	Ring4.wav			
5	Bellcore-dr5 Ring5.wav				
6	Ring6.wav				
7	Ring7.wav				
8	Ring8.wav				
9	Silent.wav				
10	Splash.wav				
N<1 or N>10	Ring1.wav				

Examples:

Alert-Info: ht	ttp://127.0.0.1/Bellcore-dr1
Alert-Info: te	st/Bellcore-dr1
Alert-Info: Be	ellcore-dr1
Alert-Info: Be	ellcore-dr1;x-line-id=1
Alert-Info: <h< td=""><th>http://10.1.0.31>;info=Bellcore-dr1</th></h<>	http://10.1.0.31>;info=Bellcore-dr1

The following table identifies the different Bellcore ring tone patterns and cadences. These ring tones are designed for the BroadWorks server.

Bellcore Tone	Pattern ID	Pattern	Cadence	Minimum Duration (ms)	Nominal Duration (ms)	Maximum Duration (ms)
Pollogra dri (standard)		Ringing	2s On	1800	2000	2200
Bellcore-dr1 (standard)	1	Silent	4s Off	3600	4000	4400
		Ringing	Long	630	800	1025
Ballacia di 2	2	Silent		315	400	525
Bellcore-dr2		Ringing	Long	630	800	1025
		Silent		3475	4000	4400

Bellcore Tone	Pattern ID	Pattern	Cadence	Minimum Duration (ms)	Nominal Duration (ms)	Maximum Duration (ms)
	3	Ringing	Short	315	400	525
		Silent		145	200	525
Bellcore-dr3		Ringing	Short	315	400	525
		Silent		145	200	525
		Ringing	Long	630	800	1025
		Silent		2975	4000	4400
	4	Ringing	Short	200	300	525
		Silent		145	200	525
Bellcore-dr4		Ringing	Long	800	1000	1100
		Silent		145	200	525
		Ringing	Short	200	300	525
		Silent		2975	4000	4400
Bellcore-dr5	5	Ringing		450	500	550

Note: If the user is waiting for a call, "Bellcore-dr5" is a splash ring tone reminding the user that the DND or Always Call Forward feature is enabled on the server side.

Alert-Info: ringtone-N/Alert-Info: ringtone-RingN.wav (or Alert-Info: MyMelodyN/Alert-Info: MyMelodyRingN.wav)

When the Alter-Info header contains the keyword "ringtone-N/ringtone-RingN" or "MyMolodyN/MyMelodyRingN", the phone will play the corresponding local ring tone (RingN.wav), or play the first local ring tone (Ring1.wav) for about 10 seconds if "N" is greater than 10 or less than 1.

Examples:

Alert-Info: ringtone-2

Alert-Info: ringtone-Ring2.wav

Alert-Info: ringtone-2;x-line-id=1

Alert-Info: <http://10.1.0.31>;info=ringtone-2

Alert-Info: <http://127.0.0.1/ringtone-2>

Alert-Info: MyMelody2

Alert-Info: MyMelodyRing2.wav

Alert-Info: MyMelody2;x-line-id=1

Alert-Info: <http://10.1.0.31>;x-line-id=0;info=MyMelody2

The following table identifies the corresponding local ring tones:

Value of N	Ring Tone
1	Ring1.wav

Value of N	Ring Tone
Ring1.wav	
2	
Ring2.wav	Ring2.wav
3	Ding? way
Ring3.wav	Ring3.wav
4	Diagturgu
Ring4.wav	Ring4.wav
5	Ding5 way
Ring5.wav	Ring5.wav
6	Dinge way
Ring6.wav	Ring6.wav
7	Ping7 way
Ring7.wav	Ring7.wav
8	Ping? wov
Ring8.wav	Ring8.wav
9	Silent.way
Silent.wav	Silent.wav
10	Splach way
Splash.wav	Splash.wav
N<1 or N>10	Ring1.wav

Alert-Info: info=info text;x-line-id=0

When the Alert-Info header contains an info text, the phone will map the text with the Internal Ringer Text preconfigured (or "distinctive_ring_tones.alert_info.X.text" is configured) on the IP phone, and then play the ring tone associated with the Internal Ringer Text (the ring tone can be configured by the parameter "distinctive_ring_ tones.alert_info.X.ringer"). If no internal ringer text maps, the phone will play the preconfigured local ring tone for about 10 seconds.

Example:

Alert-Info: info=family;x-line-id=0	
Alert-Info: <http: 10.1.0.31="">;info=family</http:>	
Alert-Info: <http: 10.1.0.31="">;info=family;x-line-id=0</http:>	

Auto Answer

If the INVITE request contains the following string types, the phone will answer incoming calls automatically without playing the ring tone:

- Alert-Info: Auto Answer
- Alert-Info: info = alert-autoanswer
- Alert-Info: answer-after = 0 (or Alert-Info: Answer-After = 0)
- Alert-Info: Intercom

If the auto answer tone feature is enabled, the phone plays a warning tone to alert you before answering an incoming call.

Related Topic

Auto Answer

Distinctive Ring Tones Configuration

The following table lists the parameters you can use to configure distinctive ring tones.

Parameter	distinctive_ring_tones.alert_info.X.text ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the internal ringer text to map the keywords contained in the Alert-Info header.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Settings > Ring > Internal Ringer Text	
Parameter	distinctive_ring_tones.alert_info.X.ringer ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the desired ring tone for each internal	ringer text.
Permitted Values	 Integer from 1 to 10 (the digit stands for the appropriate ring tone) or ring tone name: 1 or Ring1.wav 2 or Ring2.wav 3 or Ring3.wav 4 or Ring4.wav 5 or Ring5.wav 6 or Ring6.wav 7 or Ring7.wav 8 or Ring8.wav 9 or Silent.wav 10 or Splash.wav Custom ring tone name (for example, Customring.wav) 	

^[1]X is the ring tone ID. X=1-10.

Audio Codecs

CODEC is an abbreviation of COmpress-DECompress, capable of coding or decoding a digital data stream or signal by implementing an algorithm. The object of the algorithm is to represent the high-fidelity audio signal with a minimum number of bits while retaining the quality. This can effectively reduce the frame size and the bandwidth required for audio transmission.

The audio codec that the phone uses to establish a call should be supported by the SIP server. When placing a call, the phone will offer the enabled audio codec list to the server and then use the audio codec negotiated with the called party according to the priority.

Topics

Supported Audio Codecs Audio Codecs Configuration

Supported Audio Codecs

The following table summarizes the supported audio codecs on the phones:

Codec	Algorithm	Reference	Bit Rate	Sample Rate	Packetization Time
G722	G.722	RFC 3551	64 Kbps	16 Ksps	20ms
PCMA(G.711μ)	G.711 a-law	RFC 3551	64 Kbps	8 Ksps	20ms
PCMU(G.711A)	G.711 u-law	RFC 3551	64 Kbps	8 Ksps	20ms
G729(G729A)	G.729	RFC 3551	8 Kbps	8 Ksps	20ms
G726-16	G.726	RFC 3551	16 Kbps	8 Ksps	20ms
G726-24	G.726	RFC 3551	24 Kbps	8 Ksps	20ms
G726-32	G.726	RFC 3551	32 Kbps	8 Ksps	20ms
G726-40	G.726	RFC 3551	40 Kbps	8 Ksps	20ms
iLBC	iLBC	RFC 3952	15.2 Kbps 13.33 Kbps	8 Kps	20ms 30ms
			8-12 Kbps 16-20 Kbps	8 Ksps 12 Ksps	
opus	opus	RFC 6716	28-40 Kbps	16 Ksps	20ms
			48-64 Kbps 64-128 Kbps	24 Ksps 48 Ksps	

Note: The network bandwidth necessary to send the encoded audio is typically 5~10% higher than the bit rate due to packetization overhead. For example, a two-way G.722 audio call at 64 Kbps consumes about 135 Kbps of network bandwidth.

The Opus codec supports various audio bandwidths, defined as follows:

Abbreviation	Audio Bandwidth	Sample Rate (Effective)
NB (narrowband)	4 kHz	8 kHz
MB (medium-band)	6 kHz	12 kHz
WB (wideband)	8 kHz	16 kHz
SWB (super-wideband)	12 kHz	24 kHz
FB (fullband)	20 kHz	48 kHz

The following table lists the audio codecs supported by each phone model:

Supported Audio Codecs	Default Audio Codecs
G722, PCMA(G.711µ), PCMU(G.711A), G729(G729A), G726-16, G726-24,	G722, PCMA(G.711µ), PCMU
G726-32, G726-40, iLBC, Opus	(G.711A), G729(G729A)

Audio Codecs Configuration

The following table lists the parameters you can use to configure the audio codecs.

Parameter	account.X.codec. <payload_type>.enable^[1]</payload_type>	<mac>.cfg</mac>
Description	It enables or disables the specified audio codec.	

	The name (payload_type) of the audio codec:		
	g 722 -G722		
	pcmu -PCMU(G.711A)		
	pcma -PCMA(G.711μ)		
	g729 -G729(G729A)		
	g726_16 -G726-16		
	g726_24- G726-24		
	g726_32 -G726-32		
	g726_40- G726-40		
	opus-opus		
	ilbc-iLBC		
	Example:		
	account.1.codec.g722.enable = 1		
	Note: The name of the audio codec in this parameter should be the correct one as listed in the above		
Permitted	example, otherwise the corresponding configuration will not take effect. 0 -Disabled		
Values	1-Enabled		
	Default:		
	When the audio codec is G722, the default value is 1;		
	When the audio codec is PCMU(G.711A), the default value is 1;		
	When the audio codec is $PCMA(G.711\mu)$, the defau		
	When the audio codec is G729(G729A), the default value is 1;		
	When the audio codec is G726-16, the default value is 0;		
	When the audio codec is G726-24, the default value is 0;		
	When the audio codec is G726-32, the default value is 0;		
	When the audio codec is G726-40, the default value is 0;		
	When the audio codec is Opus, the default value is 0;		
	When the audio codec is iLBC, the default value is	0,	
Web UI	Account > Codec > Audio Codec		
Parameter	account.X.codec. <payload_type>.priority^[1]</payload_type>	<mac>.cfg</mac>	
	It configures the priority of the enabled audio codec.		
	The name of the audio codec:		
Description	g722 -G722		
	pcmu-PCMU(G.711A)		
	pcma-PCMA(G.711μ)		
	g729-G729(G729A)		

	g726_16-G726-16
	g726_24 -G726-24
	g726_32 -G726-32
	g726_40 -G726-40
	opus-opus
	ilbc-iLBC
	Example:
	account.1.codec.g722.priority = 1
	Note: The priority of the codec in the disable codec list is not specified, and numerical value 1 is defined as the highest priority in the enable codec list. The name of the audio codec in this parameter should be the correct one as listed in the above example, otherwise, the corresponding configuration will not take effect.
Permitted Values	Integer from 0 to 10
	When the audio codec is G722, the default value is 1;
	When the audio codec is PCMU(G.711A), the default value is 2;
	When the audio codec is PCMA(G.711 μ), the default value is 3;
	When the audio codec is G729(G729A), the default value is 4;
Default	When the audio codec is G726-16, the default value is 0;
Delault	When the audio codec is G726-24, the default value is 0;
	When the audio codec is G726-32, the default value is 0;
	When the audio codec is G726-40, the default value is 0;
	When the audio codec is opus, the default value is 0;
	When the audio codec is iLBC, the default value is 0;
Web UI	Account > Codec > Audio Codec

^[1]X is the account ID. X=1-10.

Packetization Time (PTime)

PTime is a measurement of the duration (in milliseconds) that how long the audio data in each RTP packet is sent to the destination, and defines how much the network bandwidth is used for the RTP stream transfer. Before establishing a conversation, codec and ptime are negotiated through SIP signaling. The valid values of ptime range from 10 to 60, in increments of 10 milliseconds. The default ptime is 20ms. You can also disable the ptime negotiation.

Topics

Supported PTime of Audio Codec PTime Configuration

Supported PTime of Audio Codec

The following table summarizes the valid values of ptime for each audio codec:

Codec	Packetization Time (Minimum)	Packetization Time (Maximum)
G722	10ms	40ms
РСМА	10ms	40ms
PCMU	10ms	40ms
G729	10ms	80ms
G726-16	10ms	30ms
G726-24	10ms	30ms
G726-32	10ms	30ms
G726-40	10ms	30ms
iLBC	20ms	30ms
opus	10ms	20ms

PTime Configuration

The following table lists the parameter you can use to configure the PTime.

Parameter	account.X.ptime ^[1]	<mac>.cfg</mac>
Description	It configures the ptime (in milliseconds) for the codec.	
	0-Disabled	
	10 -10	
	20- 20	
Permitted Values	30 -30	
	40 -40	
	50 -50	
	60 -60	
Default	20	
Web UI	Account > Advanced > PTime (ms)	

 $^{[1]}X$ is the account ID. X=1-10.

Early Media

The early media refers to the media (for example, audio and video) played to the caller before a SIP call is actually established.

You can also configure 180 ring workaround which defines whether to deal with the 180 message received after the 183 message. When the caller receives a 183 message, it suppresses any local ringback tone and begins to play the media received. 180 ring workaround allows the phones to resume and play the local ringback tone upon a subsequent 180 message received.

Topic

Early Media Configuration

Early Media Configuration

The following table lists the parameters you can use to configure the early media.

Parameter	phone_setting.is_deal180	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to deal with the 180 SIP message received after the 183 SIP mes- sage.	
Permitted Values	D-Disabled I-Enabled, the phone will resume and play the local ringback tone upon a subsequent 180 message received.	
Default	1	
Web UI	Features > General Information > 180 Ring Workaround	

Acoustic Clarity Technology

To optimize the audio quality in your network, Yealink phones support the acoustic clarity technology: Background Noise Suppression (BNS), Automatic Gain Control (AGC), Voice Activity Detection (VAD), Comfort Noise Generation (CNG) and jitter buffer.

Topics

Noise Suppression Background Noise Suppression (BNS) Automatic Gain Control (AGC) Voice Activity Detection (VAD) Comfort Noise Generation (CNG) Jitter Buffer Smart Noise Block

Noise Suppression

The impact noise in the room is picked-up, including paper rustling, coffee mugs, coughing, typing, and silverware striking plates. These noises, when transmitted to remote participants, can be very distracting.

You can enable the Noise Suppression feature to suppress these noises.

Topic

Noise Suppression Configuration

Noise Suppression Configuration

The following table lists the parameter you can use to configure noise suppression.

Parameter	voice.tns.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the Noise Suppression feature.	
Permitted	0-Disabled	
Values	1-Enabled	

Default	1
Supported	CP930W-Base, CP935W-Base
Devices	Cr 330 W-Dase, Cr 333 W-Dase

Background Noise Suppression (BNS)

Background noise suppression (BNS) is designed primarily for hands-free operation and reduces background noise to enhance communication in noisy environments.

Automatic Gain Control (AGC)

Automatic Gain Control (AGC) is applicable to the hands-free operation and is used to keep audio output at nearly a constant level by adjusting the gain of signals in some circumstances. This increases the effective user-phone radius and helps with the intelligibility of soft-talkers.

Voice Activity Detection (VAD)

VAD can avoid unnecessary coding or transmission of silence packets in VoIP applications, saving on computation and network bandwidth.

Topic

VAD Configuration

VAD Configuration

The following table lists the parameter you can use to configure VAD.

Parameter	voice.vad	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the VAD (Voice Activity Detection) feature.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Web UI	Settings > Voice > Echo Cancellation > VAD	

Comfort Noise Generation (CNG)

Comfort Noise Generation (CNG) is used to generate background noise for voice communications during periods of silence in a conversation.

Note: VAD is used to send CN packets when the phone detects a "silence" period; CNG is used to generate comfortable noise when the phone receives CN packets from the other side.

Topic

CNG Configuration

CNG Configuration

The following table lists the parameter you can use to configure CNG.

Parameter	voice.cng	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the CNG (Comfortable Noi	se Generation) feature.
	0-Disabled	
Default	1-Enabled 1	

Web UI Settings > Voice > Echo Cancellation > CNG	
---	--

Jitter Buffer

Yealink phones support two types of jitter buffers: fixed and adaptive. A fixed jitter buffer adds the fixed delay to voice packets. You can configure the delay time for the static jitter buffer on the phones. An adaptive jitter buffer is capable of adapting the changes in the network's delay. The range of the delay time for the dynamic jitter buffer added to packets can be also configured on the phones.

Topic

Jitter Buffer Configuration

Jitter Buffer Configuration

You can configure the mode of jitter buffer and the delay time for jitter buffer in the wired network or wireless network.

The following table lists the parameters you can use to configure the jitter buffer.

_			
Parameter	voice.jib.adaptive	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the type of jitter buffer in the wired network.		
Permitted	0-Fixed		
Values	1-Adaptive		
Default	1		
Web UI	Settings > Voice > Jitter Buffer > Type		
Parameter	voice.jib.min	<y000000000xx>.cfg</y000000000xx>	
	It configures the minimum delay time (in millisecon	ds) of the jitter buffer in the wired network.	
Description	Note : It works only if "voice.jib.adaptive" is set to 1 (Adaptive). The value of this parameter should be less than or equal to that of "voice.jib.normal".		
Permitted Values	Integer from 0 to 400		
Default	60		
Web UI	Settings > Voice > Jitter Buffer > Min Delay		
Parameter	voice.jib.max	<y000000000xx>.cfg</y000000000xx>	
	It configures the maximum delay time (in millisecon		
Description	Note : It works only if "voice.jib.adaptive" is set to 1 (Adaptive). The value of this parameter should be greater than or equal to that of "voice.jib.normal".		
Permitted Values	Integer from 0 to 400		
Default	240		
Web UI	Settings > Voice > Jitter Buffer > Max Delay		
Parameter	voice.jib.normal	<y000000000xx>.cfg</y000000000xx>	
	It configures the normal delay time (in milliseconds) of the jitter buffer in the wired network.	
Description	Note : It works only if "voice.jib.adaptive" is set to 0 (greater than or equal to that of "voice.jib.min" and le	(Fixed). The value of this parameter should be ess than or equal to that of "voice.jib.max".	
Permitted	Integer from 0 to 400		

Values	
Default	120
Web UI	Settings > Voice > Jitter Buffer > Normal

Smart Noise Block

You can use the Smart Noise Block feature to block out the local noises when there is no speech in a call.

It is only applicable to CP930W-Base/CP935W-Base phones.

Topic

Smart Noise Block Configuration

Smart Noise Block Configuration

The following table lists the parameter you can use to configure smart noise block.

Parameter	voice.ans_nb.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the Smart Noise Block featu Note: It works only if "voice.tns.enable" is set to 1	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Supported Devices	CP930W-Base, CP935W-Base	

DTMF

DTMF (Dual Tone Multi-frequency) tone, better known as touch tone. DTMF is the signal sent from the IP phone to the network, which is generated when pressing the IP phone's keypad during a call. Each key pressed on the IP phone generates one sinusoidal tone of two frequencies. One is generated from a high-frequency group and the other from a low-frequency group.

Topics

DTMF Keypad Transmitting DTMF Digit Suppress DTMF Display Transfer via DTMF Local DTMF Tone

DTMF Keypad

The DTMF keypad is laid out in a 4×4 matrix, with each row representing a low frequency, and each column representing a high frequency. Pressing a digit key (such as '1') will generate a sinusoidal tone for each of two frequencies (697 and 1209 hertz (Hz)).

DTMF Keypad Frequencies:

	1209 Hz	1336 Hz	1477 Hz	1633 Hz
697 Hz	1	2	3	А
770 Hz	4	5	6	В

	1209 Hz	1336 Hz	1477 Hz	1633 Hz
852 Hz	7	8	9	С
941 Hz	*	0	#	D

Note: The phones will not send the DTMF sequence when the call is placed on hold or is held.

Transmitting DTMF Digit

Three methods of transmitting DTMF digits on SIP calls:

- **RFC 2833** -- DTMF digits are transmitted by RTP Events compliant with RFC 2833. You can configure the payload type and sending times of the end RTP Event packet. The RTP Event packet contains 4 bytes. The 4 bytes are distributed over several fields denoted as Event, End bit, R-bit, Volume, and Duration. If the End bit is set to 1, the packet contains the end of the DTMF event. You can configure the sending times of the end RTP Event packet.
- **INBAND** -- DTMF digits are transmitted in the voice band. It uses the same codec as your voice and is audible to conversation partners.
- SIP INFO -- DTMF digits are transmitted by SIP INFO messages. DTMF digits are transmitted by the SIP INFO messages when the voice stream is established after a successful SIP 200 OK-ACK message sequence. The SIP INFO message can transmit DTMF digits in three ways: DTMF, DTMF-Relay, and Telephone-Event.

Topic

Transmitting DTMF Digit Configuration

Transmitting DTMF Digit Configuration

The following table lists the parameters you can use to configure the transmitting DTMF digit.

Parameter	account.X.dtmf.type ^[1]	<mac>.cfg</mac>	
Description	It configures the DTMF type.		
	0-INBAND, DTMF digits are transmitted in the voice	band.	
Permitted	1-RFC2833, DTMF digits are transmitted by RTP Events compliant to RFC 2833.		
	2-SIP INFO, DTMF digits are transmitted by the SIP	INFO messages.	
	3 -RFC2833 + SIP INFO, DTMF digits are transmitted by RTP Events compliant to RFC 2833 and the SIP INFO messages.		
Default	1		
Web UI	Account > Advanced > DTMF Type		
Parameter	account.X.dtmf.dtmf_payload ^[1] <mac>.cfg</mac>		
Description	It configures the value of DTMF payload.		
	Note: It works only if "account.X.dtmf.type" is set to 1 (RFC2833) or 3 (RFC2833 + SIP INFO).		
Permitted Values	Integer from 96 to 127		
Default	101		

Web UI	Account > Advanced > DTMF Payload Type(96~127)			
Parameter	account.X.dtmf.info_type ^[1] <mac>.cfg</mac>			
Description	It configures the DTMF info type. Note: It works only if "account.X.dtmf.type" is set to 2 (SIP INFO) or 3 (RFC2833 + SIP INFO).			
Permitted Values	1-DTMF-Relay 2-DTMF 3-Telephone-Event			
Default	1			
Web UI	Account > Advanced > DTMF Info Type			
Parameter	features.dtmf.repetition			
Description	It configures the repetition times for the phone to send the end RTP Event packet during an active call.			
Permitted Values	1, 2 or 3			
Default	3			
Parameter	features.dtmf.duration ^[2]	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the duration time (in milliseconds) for each digit when a sequence of DTMF tones is played out automatically. Note : If the time interval between two DTMF digits is less than this value, two or more same DTMF digits could be identified as one DTMF digit. This may cause the loss of one or more DTMF digits. For example, 2662 may be identified as 262. If so, you can modify the value of this parameter to a little lower than the default value.			
Permitted Values	Integer from 0 to			
Default	100			
Parameter	features.dtmf.volume	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the volume of the DTMF tone (in dB).			
Permitted Values	Integer from -33 to 0			
Default	-10			

 $^{[1]}X$ is the account ID. X=1-10.

^[2]If you change this parameter, the phone will reboot to make the change take effect.

Suppress DTMF Display

Suppress DTMF display allows the phones to suppress the display of DTMF digits during an active call. DTMF digits are displayed as "*" on the phone screen. Suppress DTMF display delay defines whether to display the DTMF digits for a short period of time before displaying as "*".

Topic

Suppress DTMF Display Configuration

Suppress DTMF Display Configuration

The following table lists the parameters you can use to configure the suppress DTMF display.

Parameter	features.dtmf.hide	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to suppress the display of DTMF digits during an active call.		
Permitted	0-Disabled		
Values	1-Enabled, the DTMF digits are displayed as asterisks.		
Default	0		
Web UI	Features > General Information > Suppress DTMF Display		
Parameter	features.dtmf.hide_delay <y00000000xx>.cfg</y00000000xx>		
	It enables or disables the phone to display the DTMF digits for a short period before displa		
	Note: It works only if "features.dtmf.hide" is set to 1 (Enabled).		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Web UI	Features > General Information > Suppress DTMF Display Delay		

Voice Quality Monitoring (VQM)

Voice quality monitoring feature allows the phones to generate various quality metrics for listening quality and conversational quality. These metrics can be sent between the phones in RTCP-XR packets. These metrics can also be sent in SIP PUBLISH messages to a central voice quality report collector. Yealink phones support two mechanisms for voice quality monitoring: RTCP-XR and VQ-RTCPXR.

Topics

RTCP-XR VQ-RTCPXR

RTCP-XR

The RTCP-XR mechanism, compliant with RFC 3611-RTP Control Extended Reports (RTCP XR), provides the metrics contained in RTCP-XR packets for monitoring the quality of calls. These metrics include network packet loss, delay metrics, analog metrics, and voice quality metrics.

Topic

RTCP-XR Configuration

RTCP-XR Configuration

The following table lists the parameters you can use to configure the RTCP-XR.

Parameter	voice.rtcp_xr.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to send RTCP-XR packets.	
	D-Disabled I-Enabled	
Default	0	

Web UI	Settings > Voice Monitoring > Voice RTCP-XR Report		
Parameter	voice.rtcp.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to send RTCP packets.		
	0-Disabled 1-Enabled		
Default	1		
Parameter	voice.rtcp_cname ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the cname of the RTCP packets.		
Permitted Values	String		
Default	Blank		

^[1]If you change this parameter, the phone will reboot to make the change take effect.

VQ-RTCPXR

The VQ-RTCPXR mechanism, compliant with RFC 6035, sends the service quality metric reports contained in SIP PUBLISH messages to the central report collector.

A wide range of performance metrics are generated in the following three ways:

- Based on current values, such as jitter, jitter buffer max, and round trip delay.
- Covers the time period from the beginning of the call until the report is sent, such as network packet loss.
- Computed using other metrics as input, such as listening Mean Opinion Score (MOS-LQ) and conversational Mean Opinion Score (MOS-CQ).

Topics

Voice Quality Reports VQ-RTCPXR Display Central Report Collector

Voice Quality Reports

Three types of quality reports can be enabled:

- Session: Generated at the end of a call.
- Interval: Generated during a call at a configurable period.
- Alert: Generated when the call quality degrades below a configurable threshold.

Topic

Voice Quality Reports Configuration

Voice Quality Reports Configuration

The following table lists the parameters you can use to configure the service quality reports.

		<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to send a session quality report to the central report collector at the end of each call.		
	0-Disabled 1-Enabled		
Default	0		

Web UI	Settings > Voice Monitoring > VQ RTCP-XR Session Report		
	phone_setting.vq_rtcpxr.interval_report.enable <y00000000xx>.cfg</y00000000xx>		
Description	It enables or disables the phone to send an interval quality report to the central report collector peri- odically throughout a call.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Settings > Voice Monitoring > VQ RTCP-XR Interval Report		
Parameter	phone_setting.vq_rtcpxr_interval_period	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the interval (in seconds) for the phone to send an interval quality report to the central report collector periodically throughout a call.		
	Note: It works only if "phone_setting.vq_rtcpxr.interval_report.enable" is se	t to 1 (Enabled).	
Permitted Values	Integer from 5 to 20		
Default	20		
Web UI	Settings > Voice Monitoring > Period for Interval Report		
Parameter	phone_setting.vq_rtcpxr_moslq_threshold_warning		
Description	It configures the threshold value of listening MOS score (MOS-LQ) multiplied by 10. The threshold value of MOS-LQ causes the phone to send a warning alert quality report to the central report collector. For example, a configured value of 35 corresponds to the MOS score 3.5. When the MOS-LQ value computed by the phone is less than or equal to 3.5, the phone will send a warning alert quality report to the central report collector. When the MOS-LQ value computed by the phone is greater than 3.5, the phone will not send a warning alert quality report to the central report collector.		
	If it is set to blank, warning alerts are not generated due to MOS-LQ.		
Permitted Values	Integer from 15 to 40		
Default	Blank		
Web UI	Settings > Voice Monitoring > Warning Threshold for Moslq		
Parameter	phone_setting.vq_rtcpxr_moslq_threshold_critical	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the threshold value of listening MOS score (MOS-LQ) multiplied by 10. The threshold value of MOS-LQ causes the phone to send a critical alert quality report to the central report collector. For example, a configured value of 28 corresponds to the MOS score 2.8. When the MOS-LQ value computed by the phone is less than or equal to 2.8, the phone will send a critical alert quality report to the central report collector. When the MOS-LQ value computed by the phone is greater than 2.8, the phone will not send a critical alert quality report to the central report collector. When the MOS-LQ value computed by the phone is greater than 2.8, the phone will not send a critical alert quality report to the central report collector.		
Permitted Values	Integer from 15 to 40		
Default	Blank		
Web UI	Settings > Voice Monitoring > Critical Threshold for Moslq		

Parameter	phone_setting.vq_rtcpxr_delay_threshold_warning	<y000000000xx>.cfg</y000000000xx>	
	It configures the threshold value of one-way delay (in milliseconds) that causes the phone to send a warning alert quality report to the central report collector.		
Description	For example, if it is set to 500, when the value of one way delay computed by the phone is greater than or equal to 500, the phone will send a warning alert quality report to the central report collector; when the value of one way delay computed by the phone is less than 500, the phone will not send a warning alert quality report to the central report collector.		
	If it is set to blank, warning alerts are not generated due to one-way delay. The one-way delay includes both network delay and end system delay.		
Permitted Values	10 to 2000		
Default	Blank		
Web UI	Settings > Voice Monitoring > Warning Threshold for Delay		
Parameter	phone_setting.vq_rtcpxr_delay_threshold_critical <y000000000xx>.cfg</y000000000xx>		
	It configures the threshold value of one-way delay (in milliseconds) that causes the phone to send a critical alert quality report to the central report collector.		
Description	For example, if it is set to 500, when the value of one-way delay computed by the phone is greater than or equal to 500, the phone will send a critical alert quality report to the central report collector; when the value of one way delay computed by the phone is less than 500, the phone will not send a critical alert quality report to the central report collector.		
	If it is set to blank, critical alerts are not generated due to one-way delay. The one-way delay includes both network delay and end system delay.		
		ne one-way delay includes	
Permitted Values		ne one-way delay includes	
	both network delay and end system delay.	ne one-way delay includes	

VQ-RTCPXR Display

You can check the voice quality data of the last call via the web user interface.

Topic

VQ-RTCPXR Display Configuration

VQ-RTCPXR Display Configuration

The following table lists the parameters you can use to configure VQ-RTCPXR display.

Parameter	phone_setting.vq_rtcpxr.states_show_on_web.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the voice quality data of the last call to be displayed on the web interface at the path Status > RTP Status .	
	0-Disabled 1-Enabled	
Default	0	
Web UI	Settings > Voice Monitoring > Display Report Options on Web	

Central Report Collector

To operate with the central report collector, the phones must be configured to forward their voice quality reports to the specified report collector. You can specify the report collector on a per-line basis.

Topic

Central Report Collector Configuration

Central Report Collector Configuration

The following table lists the parameters you can use to configure the central report collector.

Parameter	account.X.vq_rtcpxr.collector_name ^[1]	<mac>.cfg</mac>
Description	It configures the hostname of the central report collector that accepts voice quality reports contained in SIP PUBLISH messages.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Account > Advanced > VQ RTCP-XR Collector Nar	ne
Parameter	account.X.vq_rtcpxr.collector_server_host ^[1]	<mac>.cfg</mac>
	It configures the IP address of the central report collector that accepts voice quality reports contained in SIP PUBLISH messages.	
Permitted Values	IPv4 Address/FQDN	
Default	Blank	
Web UI	Account > Advanced > VQ RTCP-XR Collector Add	Iress
Parameter	account.X.vq_rtcpxr.collector_server_port ^[1]	<mac>.cfg</mac>
Description	It configures the port of the central report collector that accepts voice quality reports contained in SIP PUBLISH messages.	
Permitted Values	Integer from 0 to 65535	
Default	5060	
Web UI	Account > Advanced > VQ RTCP-XR Collector Port	

^[1]X is the account ID. X=1-10.

Silent Charging

You can enter the silent mode when the handset is charging. When you exit charging, the handset restores the previous volume.

Topics

Silent Charging Configuration

Silent Charging Configuration

The following table lists the parameters you can use to configure the silent charging.

Parameter	custom.handset.silent_charging	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the silent mode when the handset is charging.	

Permitted Values	0-Disabled	
	1-Enabled, the handset in silent mode when charging.	
Default	0	
Handset UI	W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > Audio > Silent Charging <u>CP930W:</u> Menu > Settings > Basic Settings > Sound > Silent Charging	
Support Device	W73H, W78H, W57R, W59R, W53H, W56H, CP930W	

Handset Customization

You can make the phone more personalized by customizing various settings.

Topics

Power LED Indicator of Handset Handset Keypad Light Handset Backlight Handset Wallpaper Handset Screen Saver Handset Name Language Time and Date **Input Method** Search Source List in Dialing **Call Display Display Method on Dialing** Key As Send **Recent Call Display in Dialing** Warnings Display **Advisory Tones** Bluetooth **DSS Keys**

Power LED Indicator of Handset

The handset power LED indicator indicates power status and phone status.

You can configure the power LED indicator behavior in the following scenarios:

- The handset is idle
- · The handset receives an incoming call
- The handset receives a voice mail

It is not applicable to CP930W/CP935W.

Topic

Power LED Indicator of Handset Configuration

Power LED Indicator of Handset Configuration

The following table lists the parameters you can use to configure the power LED indicator of the handset.

Parameter	phone_setting.common_power_led_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the handset power LED indic	ator to be turned on when the handset is idle.
Permitted	0 -Disabled (handset power LED indicator is off)	
Values	1-Enabled (handset power LED indicator is solid red)	
Default	0	
Web UI	Features > Power LED > Common Power Light On	
Parameter	phone_setting.ring_power_led_flash_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the handset power LED indicator to flash when the handset receives an incom- ing call.	
Permitted	0 -Disabled (handset power LED indicator is off)	

Values	1-Enabled (handset power LED indicator fast flashes (300ms) red)	
Default	1	
Web UI	Features > Power LED > Ringing Power Light Flas	h
Parameter	phone_setting.mail_power_led_flash_enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the handset power LED indic mail.	ator to flash when the handset receives a voice
Permitted	0-Disabled (handset power LED indicator does not	flash)
Values	1-Enabled (handset power LED indicator slowly fla	shes (1000ms) red)
Default	1	
Web UI	Features > Power LED > Voice/Text Mail Power Light Flash	
Parameler	phone_setting.missed_call_power_led_flash.en- able <y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the handset power LED indicator to flash when the handset receives an incom- ing call.	
rennitieu	0-Disabled (handset power LED indicator does not flash)	
Values	1-Enabled (handset power LED indicator slowly fla	shes (1000ms) red)
Default	1	
Web UI	Features > Power LED > MissCall Power Light Flash	
Parameter	features.registered_power_led_flash.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the power LED indicator to flash when the account registration successful.	
rennitieu	0-Disabled power LED indicator does not flash	
Values	1-Enabled (handset power LED indicator slow flashes (1000ms) red)	
Default	0	
Web UI	Features > Power LED > Registered Power LED Flash	

Handset Keypad Light

You can enable the handset keypad light to light up the keypad when any key is pressed. This helps you distinguish keys from each other in a dark environment.

Topic

Handset Keypad Light Configuration

Handset Keypad Light Configuration

The following table lists the parameter you can use to configure the handset keypad light.

Parameter	custom.handset.keypad_light.enable	<y000000000xx>.cfg</y000000000xx>
Description		stered to the same base station. It works only if "stat
Velues	-1-Do not modify the configuration.0-Disabled	

	1-Enabled
Default	-1
Supported Devices	W73H, W59R, W53H, W56H
Handset UI	OK > Settings > Display > Keypad LED

Handset Backlight

The handset supports different backlight status and you can configure it.

For W78H/W73H/W59R/W53H/W56H/W57R, the backlight in charger or out of charger can be configured independently. You can enable the backlight to be on for about 30 minutes when the handset is charged, and then you can check the charging state during this period. You can also enable the backlight to be on for about 30 minutes when the handset is not charged. The backlight will be turned off after the handset is idle for a period of time. When an incoming call arrives, a key is pressed or the status of handset changes, the backlight is automatically turned on.

For CP930W, the backlight automatically turns off, when the phone is charging and inactive for a specified time. You can only change the specified time by going to **Menu** > **Settings** > **Basic Settings** > **Display** > **Display Backlight**. For CP935W, you can adjust the active level, inactive level and choose backlight time. You can change the three parameters by going to **More** > **Basic** > **Display** > **Backlight**.

Topic

Handset Backlight Configuration

Handset Backlight Configuration

The following table lists the parameters you can use to configure the handset backlight.

Parameter	custom.handset.backlight_in_charger.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the handset backlight to be on for about 30 minutes when it is charged.	
Description	Note: It will take effect on all handsets that are registered on the same base station. It works only if "static.auto_provision.handset_configured.enable" is set to 1 (Enabled).	
	-1-Do not modify the handset configuration (Keep the original configuration of the handset).	
Permitted Val- ues	0-Disabled, the backlight will be turned off after t	he handset is idle for about 10 seconds.
	1-Enabled, the backlight will be turned off after the second seco	ne handset is idle for about 30 minutes.
Default	-1	
Supported Devices	W78H, W73H, W59R, W53H, W56H, W57R	
Handset UI	OK > Settings > Display > Display Backlight > In	Charger
Parameter	custom.handset.backlight_out_of_char- ger.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the handset backlight to b	e on for about 30 minutes when it is not charged.
Description	Note: It will take effect on all handsets that are registered on the same base station. It works only if "static.auto_provision.handset_configured.enable" is set to 1 (Enabled).	
	-1-Do not modify the handset configuration (Keep the original configuration of the handset).	
Permitted Val- ues	0 -Disabled, the backlight will be turned off after the handset is idle for about 10 seconds.	
	1-Enabled, the backlight will be turned off after the second seco	ne handset is idle for about 30 minutes.

Default	-1	
Supported Devices	W78H, W73H, W59R, W53H, W56H, W57R	
Handset UI	OK > Settings > Display > Display Backlight > Out Of Charger	
Parameter	phone_setting.on_call.backlight_mode <y00000000xx>.cfg</y00000000xx>	
Description	It configures the backlight brightness of the CP935W during a call.	
Permitted Val- ues	 0-When talking for about 2 minutes without any operation on the phone, the backlight is reduced to 10% brightness when the Inactive Level is chosen Low. 1-The backlight always maintains the intensity set by "phone_setting.active_backlight_level" during a call. 	
Default	0	
Supported Devices	CP935W	

Handset Wallpaper

Wallpaper is an image used as the background for the handset idle screen. Users can select an image from handset's built-in background.

Topic

Handset Wallpaper Configuration

Handset Wallpaper Configuration

The following table lists the parameter you can use to configure the handset wallpaper.

Parameter	custom.handset.wallpaper	<y000000000xx>.cfg</y000000000xx>	
	It configures the wallpaper displayed on the handset LCD screen. Note: It will take effect on all handsets that are registered on the same base station. It works only if "static.auto_provision.handset_configured.enable" is set to 1 (Enabled).		
Permitted Values	 1-Wallpaper1 2-Wallpaper2 3-Wallpaper3 4-Wallpaper4 5-Wallpaper5 		
Default	-1, do not change the wallpaper set on each handset.		
Supported Devices	W78H, W73H, W59R, W53H, W56H, W57R		
Handset UI	W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > Display > Wallpaper <u>CP935W:</u> More > Basic > Display > Wallpaper		

Handset Screen Saver

The screen saver of the handset is designed to protect your LCD screen. You can enable the screen saver to protect the LCD screen, an analog clock will be activated and appear on the LCD screen after the handset is idle for approximately 10 seconds.

It is only applicable to W78H/W73H/W59R/W56H/W53H/W57R handsets.

Topic

Handset Screen Saver Configuration

Handset Screen Saver Configuration

The following table lists the parameter you can use to configure the handset screen saver.

Parameter	custom.handset.screen_saver.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables screen saver feature. Note: It will take effect on all handsets that are registered on the same base station. It works only if "static.auto_provision.handset_configured.enable" is set to 1 (Enabled).		
Permitted Values	 -1-Do not modify the handset configuration (Keep the original configuration of the handset). 0-Disabled 1-Enabled, an analog clock will be activated and appear on the LCD screen if no user activity is sensed for approximately 10 seconds. 		
Default	-1		
Supported Devices	W78H, W73H, W59R, W53H, W56H, W57R		
Handset UI	OK > Settings > Display > Screen Saver		

Handset Name

The handset will be assigned a name by default if successfully registered to the base station. You can personalize the handset name.

Topic

Handset Name Configuration

Handset Name Configuration

The following table lists the parameter you can use to configure the handset name.

Parameter	handset.X.name ^[1]	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the name of the handset.			
-	Note: If it is set to blank, it will display the correspond	ding default handset name.		
Permitted	String within 24 characters	String within 24 characters		
Values				
	The handset name for handset 1 is Handset 1.			
	The handset name for handset 2 is Handset 2.			
Default	The handset name for handset 3 is Handset 3.			
	The handset name for handset 4 is Handset 4.			
	The handset name for handset 5 is Handset 5.			

	The handset name for handset 6 is Handset 6.		
	The handset name for handset 7 is Handset 7.		
	The handset name for handset 8 is Handset 8.		
	The handset name for handset 9 is Handset 9.		
	The handset name for handset 10 is Handset 10.		
Web UI	Status > Handset & Voip > Handset X ^[1]		
	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Settings > Handset Name		
Handset UI	DD Phone:		
	Menu > Basic Settings > Phone Name		

^[1]X is the handset ID. X=1-10.

Language

Yealink phones support multiple languages. Languages used on the handset user interface and web user interface can be specified respectively as required.

Topics

Supported Languages Language Display Configuration Language for Web Display Customization

Supported Languages

You can ask the distributor or Yealink FAE for language packs. You can also obtain the language packs online: http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

The following table lists available languages and associated language packs supported by the handset user interface and the web user interface.

Phone User Interface		Web User Interface			
Language	Language Pack	Language	Language Pack	Note Language Pack	
English	/	English	1.English.js	1.English_note.xml	
French	/	French	rench 4.French.js 4.French_note.xml		
German	/	German	5.German.js 5.German_note.xml		
Italian	/	Italian	6.Italian.js	6.ltalian_note.xml	
Polish	/	Polish	7.Polish.js	7.Polish_note.xml	
Portuguese	/	Portuguese	uese 8.Portuguese.js 8.Portuguese_note.xml		
Spanish	/	Spanish	9.Spanish.js 9.Spanish_note.xml		
Turkish	/	Turkish	10.Turkish.js 10.Turkish_note.xml		
Russian	/	Russian 11.Russian.js 11.Russian_note.xml		11.Russian_note.xml	

Language Display Configuration

The default language displayed on the phone/ user interface is English. If your web browser displays a language not supported by the IP phone, the web user interface will display English by default. You can specify the languages for the phone/ user interface and web user interface respectively.

The following table lists the parameters you can use to configure the language display.

Parameter	lang.wui	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the language used on the web user interface.		
Permitted Values	English, French, German, Italian, Polish, Portuguese, Spanish, Turkish, Russian, or the custom lan- guage name.		
Default	English		
Web UI	On the top-right corner of the web user interface		
Parameter	custom.handset.language <y00000000xx>.cfg</y00000000xx>		
Description	It configures the language used on the handset user interface. Note: It will take effect on all handsets that are registered on the same base station. It works only if "static.auto_provision.handset_configured.enable" is set to 1 (Enabled).		
Permitted Values	0-English 1-French 2-German 3-Italian 4-Polish 5-Portuguese 6-Spanish 7-Turkish 8- Russian 9-Czech (only for CP935W) 10-Swedish 11-Slovak (only for CP935W)		
Default	0		
Supported Devices	All handsets		
Handset UI	W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > Language <u>CP930W:</u> Menu > Settings > Basic Settings > Language <u>CP935W:</u> More > Basic > Language DDPhone:		

Menu > Basic Settings > Language

Language for Web Display Customization

You can customize the translation of the existing language on the web user interface. You can modify translation of an existing language or add a new language for web display.

You can ask the distributor or Yealink FAE for language packs. You can also obtain the language packs online: http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

Topics

Customizing a Language Pack for Web Display Custom Language for Web Display Configuration

Customizing a Language Pack for Web Display

When you add a new language pack for the web user interface, the language pack must be formatted as "X.name.js" (X starts from 14, "name" is replaced with the language name). If the language name is the same as the existing one, the newly uploaded language file will override the existing one. We recommend that the file name of the new language pack should not be the same as the existing one.

Note: To modify the translation of an existing language, do not rename the language pack.

Procedure

Open the desired language template pack (for example, 1.English.js) using an ASCII editor.

Modify the characters within the double quotation marks on the right of the colon. Do not modify the translation item on the left of the colon.

The following shows a portion of the language pack "1.English.js" for the web user interface:



Save the language pack and place it to the provisioning server.

Customizing a Language Pack for Note Display

When you add a new language pack for the note, the note language pack must be formatted as "X.name_note.xml" (X starts from 14, "name" is replaced with the language name). If the note language name is the same as the exist-

ing one, the new uploaded note language pack will override the existing one. We recommend that the filename of the new note language pack should not be the same as the existing one.

Procedure

Open the desired note language template pack (for example, 1.English_note.xml) using an XML editor.

Modify the text of the note field. Do not modify the note name.

The following shows a portion of the note language pack "1.English_note.xml" for the web user interface:

1.English_note.xml ×	
0,, 10,, 20,, 30,, 40,, 50,, 60,, 70,, 80,,	9
<pre>x?xml version="1.0" encoding="utf-8"?></pre>	
<pre><notedata></notedata></pre>	
Do not modify the note name.	
<status></status>	
<pre><note name="version"></note></pre>	
<head>Description:</head>	
<text>It shows the current firmware version and hardware version of the device.</text>	xt>
<note name="DeviceCertificate"> \ You can modify the translation of the note name.</note>	
<head>Description:</head>	
<text>It shows the Device Certificate of the device.</text>	
<pre></pre>	
<pre><note name="network"></note></pre>	
<head>Description:</head>	
<text>It shows the IP address mode of the device.</text>	
<pre><note name="network-ipv4"></note></pre>	
<head>Description:</head>	
<text>It shows the basic IPv4 network configurations.</text>	
<pre><note name="network-ipv6"></note></pre>	
<head>Description:</head>	
<text>It shows the basic IPv6 network configurations.</text>	

Save the note language pack and place it to the provisioning server.

Custom Language for Web Display Configuration

If you want to add a new language (for example, Wuilan) to phones, prepare the language file named as "14.Wuilan.js" for downloading. After the update, you will find a new language selection "Wuilan" at the top-right corner of the web user interface.

The following table lists the parameters you can use to configure a custom language for web display.

Parameter	wui_lang.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the custom language pack for the web user interface.		
Permitted Values	URL within 511 characters For example http://localhost/X.GUI.name.lang X starts from 014, "name" is replaced with the language name		
Default	Blank		
Parameter	wui_lang.delete <y00000000xx>.cfg</y00000000xx>		
		<y000000000xx2.01g< th=""></y000000000xx2.01g<>	
Description	It deletes the specified or all custom web language	,	
Permitted	It deletes the specified or all custom web language	,	
	It deletes the specified or all custom web language interface.	packs and note language packs of the web user	

Time and Date

Yealink phones maintain a local clock. You can choose to get the time and date from SNTP (Simple Network Time Protocol) time server to have the most accurate time and set DST (Daylight Saving Time) to make better use of daylight and to conserve energy, or you can set the time and date manually. The time and date can be displayed in several formats on the idle screen.

Topics

Time Zone NTP Settings DST Settings Time and Date Manually Configuration Time and Date Format Configuration Date Customization Rule

Time Zone

The following table lists the values you can use to set the time zone location.

Time Zone	Time Zone Name	Time Zone	Time Zone Name
-12	Eniwetok,Kwajalein	+2	Estonia(Tallinn)
-11	Midway Island	+2	Finland(Helsinki)
-10	United States-Hawaii-Aleutian	+2	Gaza Strip(Gaza)
-10	United States-Alaska-Aleutian	+2	Greece(Athens)
-9:30	French Polynesia	+2	Harare
-9	United States-Alaska Time	+2	Israel(Tel Aviv)
-8	Canada(Vancouver,Whitehorse)	+2	Jordan(Amman)
-8	Mexico(Tijuana,Mexicali)	+2	Latvia(Riga)
-8	United States-Pacific Time	+2	Lebanon(Beirut)
-8	Baja California	+2	Moldova(Kishinev)
-7	Canada(Edmonton,Calgary)	+2	Pretoria
-7	Mexico(Mazatlan,Chihuahua)	+2	Jerusalem
-7	United States-Mountain Time	+2	Russia(Kaliningrad)
-7	United States-MST no DST	+2	Bulgaria(Sofia)
-7	Chihuahua,La Paz	+2	Lithuania(Vilnius)
-7	Arizona	+2	Cairo
-6	Guatemala	+2	Istanbul
-6	El Salvador	+2	E.Europe
-6	Honduras	+2	Tripoli
-6	Nicaragua	+2	Romania(Bucharest)
-6	Costa Rica	+2	Syria(Damascus)

Time Zone	Time Zone Name	Time Zone	Time Zone Name
-6	Belize	+2	Turkey(Ankara)
-6	Canada-Manitoba(Winnipeg)	+2	Ukraine(Kyiv, Odessa)
-6	Chile(Easter Islands)	+3	East Africa Time
-6	Guadalajara	+3	Iraq(Baghdad)
-6	Monterrey	+3	Russia(Moscow)
-6	Mexico(Mexico City,Acapulco)	+3	St.Petersburg
-6	Saskatchewan	+3	Kuwait,Riyadh
-6	United States-Central Time	+3	Nairobi
-5	Bahamas(Nassau)	+3	Minsk
-5	Bogota,Lima	+3	Volgograd (RTZ 2)
-5	Canada(Montreal,Ottawa,Quebec)	+3:30	Iran(Teheran)
-5	Cuba(Havana)	+4	Armenia(Yerevan)
-5	Indiana (East)	+4	Azerbaijan(Baku)
-5	Peru	+4	Georgia(Tbilisi)
-5	Quito	+4	Russia(Samara)
-5	United States-Eastern Time	+4	Abu Dhabi,Muscat
-4:30	Venezuela(Caracas)	+4	Izhevsk,Samara (RTZ 3)
-4	Canada(Halifax,Saint John)	+4	Port Louis
-4	Atlantic Time (Canada)	+4:30	Afghanistan(Kabul)
-4	San Juan	+5	Kazakhstan(Aktau)
-4	Manaus,Cuiaba	+5	Kazakhstan(Aqtobe)
-4	Georgetown	+5	Ekaterinburg (RTZ 4)
-4	Chile(Santiago)	+5	Karachi
-4	Paraguay(Asuncion)	+5	Tashkent
-4	United Kingdom-Bermuda(Bermuda)	+5	Pakistan(Islamabad)
-4	United Kingdom(Falkland Islands)	+5	Russia(Chelyabinsk)
-4	Trinidad&Tobago	+5:30	India(Calcutta)
-3:30	Canada-New Foundland(St.Johns)	+5:30	Mumbai,Chennai
-3	Greenland(Nuuk)	+5:30	Kolkata,New Delhi
-3	Argentina(Buenos Aires)	+5:30	Sri Jayawardenepura
-3	Brazil(no DST)	+5:45	Nepal(Katmandu)

Time Zone	Time Zone Name	Time Zone	Time Zone Name
-3	Brasilia	+6	Kyrgyzstan(Bishkek)
-3	Cayenne,Fortaleza	+6	Kazakhstan(Astana, Almaty)
-3	Montevideo	+6	Russia(Novosibirsk,Omsk)
-3	Salvador	+6	Bangladesh(Dhaka)
-3	Brazil(DST)	+6:30	Myanmar(Naypyitaw)
-2:30	Newfoundland and Labrador	+6:30	Yangon (Rangoon)
-2	Brazil(no DST)	+7	Russia(Krasnoyarsk)
-2	Mid-Atlantic	+7	Thailand(Bangkok)
-1	Portugal(Azores)	+7	Vietnam(Hanoi)
-1	Cape Verde Islands	+7	Jakarta
0	GMT	+8	China(Beijing)
0	Greenland	+8	Singapore(Singapore)
0	Western Europe Time	+8	Hong Kong,Urumqi
0	Monrovia	+8	Таіреі
0	Reykjavik	+8	Kuala Lumpur
0	Casablanca	+8	Australia(Perth)
0	Denmark-Faroe Islands(Torshavn)	+8	Russia(Irkutsk, Ulan-Ude)
0	Ireland(Dublin)	+8	Ulaanbaatar
0	Edinburgh	+8:45	Eucla
0	Portugal(Lisboa,Porto,Funchal)	+9	Korea(Seoul)
0	Spain-Canary Islands(Las Palmas)	+9	Japan(Tokyo)
0	United Kingdom(London)	+9	Russia(Yakutsk,Chita)
0	Lisbon	+9:30	Australia(Adelaide)
0	Morocco	+9:30	Australia(Darwin)
+1	Albania(Tirane)	+10	Australia(Sydney,Melbourne,Canberra)
+1	Austria(Vienna)	+10	Australia(Brisbane)
+1	Belgium(Brussels)	+10	Australia(Hobart)
+1	Caicos	+10	Russia(Vladivostok)
+1	Belgrade	+10	Magadan (RTZ 9)
+1	Bratislava	+10	Guam,Port Moresby
+1	Ljubljana	+10	Solomon Islands

Time Zone	Time Zone Name	Time Zone	Time Zone Name
+1	Chad	+10:30	Australia(Lord Howe Islands)
+1	Copenhagen	+11	New Caledonia(Noumea)
+1	West Central Africa	+11	Chokurdakh (RTZ 10)
+1	Poland(Warsaw)	+11	Russia(Srednekolymsk Time)
+1	Spain(Madrid)	+11:30	Norfolk Island
+1	Croatia(Zagreb)	+12	New Zealand(Wellington,Auckland)
+1	Czech Republic(Prague)	+12	Fiji Islands
+1	Denmark(Kopenhagen)	+12	Russia(Kamchatka Time)
+1	France(Paris)	+12	Anadyr
+1	Germany(Berlin)	+12	Petropavlovsk-Kamchatsky (RTZ 11)
+1	Hungary(Budapest)	+12	Marshall Islands
+1	Italy(Rome)	+12:45	New Zealand(Chatham Islands)
+1	Switzerland(Bern)	+13	Nuku'alofa
+1	Sweden(Stockholm)	+13	Tonga(Nukualofa)
+1	Luxembourg(Luxembourg)	+13	Samoa
+1	Macedonia(Skopje)	+13:30	Chatham Islands
+1	Netherlands(Amsterdam)	+14	Kiribati
+1	Namibia(Windhoek)		

NTP Settings

You can set an NTP time server for the desired area as required. The NTP time server address can be offered by the DHCP server or configured manually.

Topic

NTP Configuration

NTP Configuration

The following table lists the parameters you can use to configure the NTP.

Parameter	local_time.manual_ntp_srv_prior	<y000000000xx>.cfg</y000000000xx>
Description	It configures the priority for the phone to use the NTP server address offered by the DHCP server.	
Permitted	0- High (use the NTP server address offered by the DHCP server preferentially)	
Values	1- Low (use the NTP server address configured manually preferentially)	
Default Value	0	
Web UI	Settings > Time & Date > NTP by DHCP Priority	
Parameter	local_time.dhcp_time	<y000000000xx>.cfg</y000000000xx>

Description	It enables or disables the phone to update time with the offset time offered by the DHCP server.	
Permitted	Note: It is only available to offset from Greenwich Mean Time GMT 0. 0-Disabled	
Values	1-Enabled	
Default	0	
Web UI	Settings > Time & Date > DHCP Time	
Parameter	local_time.ntp_server1	<y000000000xx>.cfg</y000000000xx>
Description	It configures the IP address or the domain name of	the primary NTP server.
Permitted Values	String within 99 characters	
Default	cn.pool.ntp.org	
Web UI	Settings > Time & Date > Primary Server	
Parameter	local_time.ntp_server2	<y000000000xx>.cfg</y000000000xx>
	It configures the IP address or the domain name of	the secondary NTP server.
Description	If the primary NTP server is not configured by the pa accessed, the phone will request the time and date	arameter "local_time.ntp_server1", or cannot be from the secondary NTP server.
Permitted Values	String within 99 characters	
Default	pool.ntp.org	
Web UI	Settings > Time & Date > Secondary Server	
Parameter	local_time.interval	<y000000000xx>.cfg</y000000000xx>
Description	It configures the interval (in seconds) at which the p	phone updates time and date from the NTP server.
Permitted Values	Integer from 15 to 86400	
Default	1000	
Web UI	Settings > Time & Date > Update Interval (15~8640	10s)
Parameter	local_time.time_zone	<y000000000xx>.cfg</y000000000xx>
Description	It configures the time zone.	
Permitted	-12 to +14	
Values	For available time zones, refer to Time Zone.	
Default	+8	
Web UI	Settings > Time & Date > Time Zone	
Parameter	local_time.time_zone_name <y00000000xx>.cfg</y00000000xx>	
Description	It configures the time zone name. Note : It works only if "local_time.summer_time" is set to 2 (Automatic) and the parameter "local_time time_zone" should be configured in advance.	
Permitted Values	String within 32 characters The available time zone names depend on the time zone configured by the parameter "local_time time_zone". For available time zone names, refer to Time Zone.	

Default	China(Beijing)
Web UI	Settings > Time & Date > Location

DST Settings

You can set DST for the desired area as required. By default, the DST is set to Automatic, so it can be adjusted automatically from the current time zone configuration.

The time zone and corresponding DST pre-configurations exist in the AutoDST file. If the DST is set to Automatic, the phone obtains the DST configuration from the AutoDST file.

You can customize the AutoDST file if required. The AutoDST file allows you to add or modify time zone and DST settings for your area each year.

Topics

Auto DST File Attributes Customizing Auto DST File DST Configuration

Auto DST File Attributes

The following table lists the description of each attribute in the template file:

Attributes	Туре	Values	Description
szTime	required	[+/-][X]:[Y], X=0~14, Y=0~59	Time Zone
szZone	required	String (if the content is more than one city, it is the best to keep their daylight saving time the same)	Time Zone name
		0/1	DST time type
іТуре	optional	0: DST by Date	(This item is needed if you want
		1: DST by Week	to configure DST.)
		Month/Day/Hour (for iType=0)	
		Month: 1~12	
		Day: 1~31	
		Hour: 0 (midnight)~23	
szStart	optional	 Month/Week of Month/Day of Week/Hour of Day(for iType=1)	Starting time of the DST
		Month: 1~12	
		Week of Month: 1~5 (the last week)	
		Day of Week: 1~7	
		Hour of Day: 0 (midnight)~23	
szEnd	optional	Same as szStart	Ending time of the DST
szOffset	optional	Integer from -300 to 300	The offset time (in minutes) of DST

Customizing Auto DST File

Before customizing, you need to obtain the AutoDST file. You can ask the distributor or Yealink FAE for DST template. You can also obtain the DST template online: http://support.vealink.com/decumentFront/forwardToDecumentFrontDisplayPage

port.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

- 1. Open the AutoDST file.
- 2. To add a new time zone, add <DST szTime="" szZone="" iType="" szStart="" szEnd="" szOffset=""/ > between <DSTData > and </DSTData > .
- **3.** Specify the DST attribute values within double quotes. For example:

Add a new time zone (+6 Paradise) with daylight saving time 30 minutes:

<DST szTime="+6" szZone="Paradise" iType="1" szStart="3/5/7/2" szEnd="10/5/7/3" szOffset="30"/>

<pre><dst sztime="+4:30" szzone="Afghanistan(Kabul)"></dst></pre>
<pre><dst sztime="+5" szzone="Kazakhstan(Aqtobe)"></dst></pre>
<pre><dst sztime="+5" szzone="Kyrgyzstan(Bishkek)"></dst></pre>
<pre><dst itype="0" pre="" sz<="" szend="11/1/0" szstart="4/15/0" sztime="+5" szzone="Pakistan(Islamabad)"></dst></pre>
<pre><dst sztime="+5" szzone="Russia(Chelyabinsk)"></dst></pre>
<pre><dst sztime="+5:30" szzone="India(Calcutta)"></dst></pre>
<pre><dst sztime="+5:45" szzone="Nepal (Katmandu) "></dst></pre>
<pre>ST szTime="+6" szZone="Paradise" iType="1" szStart="3/5/7/2" szEnd="10/5/7/3" szOffset="30"/></pre>
<pre><dst sztime="+6" szzone="Kazakhstan(Astana,Almaty)"></dst></pre>
<pre><dst sztime="+6" szzone="Russia(Novosibirsk,Omsk)"></dst></pre>

Modify the DST settings for the existing time zone "+5 Pakistan(Islamabad)" and add DST settings for the existing time zone "+5:30 India(Calcutta)".

9			.8,0,
<dst< s=""></dst<>	szTime="+3:30"	<pre>szZone="Iran(Teheran)" iType="0" szStart="3/22/0"</pre>	szEnd="9/22/0" szOffset="60"/>
<d>ST</d>	szTime="+4"	<pre>szZone="Armenia(Yerevan)" iType="1" szStart="3/5/7/2"</pre>	szEnd="10/5/7/3" szOffset="60"/
<dst< s=""></dst<>	szTime="+4"	<pre>szZone="Azerbaijan(Baku)" iType="1" szStart="3/5/7/4"</pre>	szEnd="10/5/7/5" szOffset="60"/
<dst< s=""></dst<>	szTime="+4"	szZone="Georgia(Tbilisi)" />	
<dst< td=""><td>szTime="+4"</td><td>szZone="Kazakhstan(Aktau)" /></td><td></td></dst<>	szTime="+4"	szZone="Kazakhstan(Aktau)" />	
<dstd><dst< d=""></dst<></dstd>	szTime="+4"	szZone="Russia(Samara)" />	
<dstd><dst< d=""></dst<></dstd>	szTime="+4:30"	szZone="Afghanistan(Kabul)"/> Modify it:	
<dst< s=""></dst<>	szTime="+5"	szZone="Kazakhstan (Agtobe) "/> iType="1" szStart="10/1/7/2" szEnd=	"4/1/7/3" szOffset="60"
<dst< s=""></dst<>	szTime="+5"	szZone="Kyrqyzstan(Bishkek)" />	
<d>ST</d>	szTime="+5"	<pre>szZone="Pakistan(Islamabad)" iType="0" szStart="4/15/0"</pre>	szEnd="11/1/0" szOffset="60"/
<d>ST</d>	szTime="+5"	szZone="Russia(Chelyabinsk)" />	
<dot +5:30"<="" style="border: 2px solid black; color: black; color:</td><td>szTime=" td=""><td><pre>szZone="India(Calcutta)" iType="1" szStart="9/5/7/3"</pre></td><td>szEnd="4/1/7/2" szOffset="60"/</td></dot>	<pre>szZone="India(Calcutta)" iType="1" szStart="9/5/7/3"</pre>	szEnd="4/1/7/2" szOffset="60"/	
<d>>DST</d>	szTime="+5:45"	szZone="Nepal (Katmandu) "/>	
<d><dot state<="" td=""></dot></d>	szTime="+6"	szZone="Kazakhstan (Astana, Almaty) "/>	Lange Contraction
<dst< td=""><td>szTime="+6"</td><td>szZone="Russia (Novosibirsk, Omsk)" /></td><td>d DST</td></dst<>	szTime="+6"	szZone="Russia (Novosibirsk, Omsk)" />	d DST
<dstd><dst< d=""></dst<></dstd>	szTime="+6:30"	szZone="Myanmar(Navpyitaw)" />	
<dst< td=""><td>szTime="+7"</td><td>szZone="Russia(Krasnoyarsk)" /></td><td></td></dst<>	szTime="+7"	szZone="Russia(Krasnoyarsk)" />	
<dst< s=""></dst<>	szTime="+7"	szZone="Thailand(Bangkok)"/>	
<dst< s=""></dst<>	szTime="+8"	szZone="China (Beijing) "/>	
	szTime="+8"	<pre>szZone="Singapore(Singapore)" /></pre>	

4. Save this file and place it to the provisioning server.

Related Topic

Time Zone

DST Configuration

The following table lists the parameters you can use to configure DST.

Parameter	local_time.summer_time	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the Daylight Saving Time (DST) featur	It configures the Daylight Saving Time (DST) feature.	
	0-Disabled		
Permitted Values	1-Enabled		
	2-Automatic		
Default	2		
Web UI	Settings > Time & Date > Daylight Saving Time		
Parameter	local_time.dst_time_type	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the Daylight Saving Time (DST) type. n Note : It works only if "local_time.summer_time" is set to 1 (Enabled).		
Description			
Permitted	0-DST by Date		

Veluee		
	1-DST by Week	
Default	0	
Web UI	Settings > Time & Date > Fixed Type	
Parameter	local_time.start_time	<y000000000xx>.cfg</y000000000xx>
Description	It configures the start time of the Daylight Saving Ti Note: It works only if "local_time.summer_time" is s	
	Month/Day/Hour-DST by Date, use the following mapping:	
	Month: 1=January, 2=February,, 12=December	
	Day: 1=the first day in a month,, 31= the last day	in a month
	Hour : 0=0am, 1=1am,, 23=11pm	
Permitted Values	Month/Week of Month/Day of Week/Hour of Day-D	ST by Week, use the following mapping:
	Month: 1=January, 2=February,, 12=December	
	Week of Month: 1=the first week in a month,, 5=	the last week in a month
	Day of Week: 1=Monday, 2=Tuesday,, 7=Sunday	
	Hour of Day: 0=0am, 1=1am,, 23=11pm	
Default	1/1/0	
Web UI	Settings > Time & Date > Start Date	
Parameter	local_time.end_time <y00000000xx>.cfg</y00000000xx>	
Description	It configures the end time of the Daylight Saving Ti	me (DST).
	Note: It works only if "local_time.summer_time" is a	
	Month/Day/Hour-DST by Date, use the following m	apping:
	Month: 1=January, 2=February,, 12=December	
	Day : 1=the first day in a month,, 31= the last day	in a month
	Hour: 0=0am, 1=1am,, 23=11pm	
Permitted Values	 Month/Week of Month/Day of Week/Hour of Day-D	ST by Week, use the following mapping:
	Month: 1=January, 2=February,, 12=December	
	Week of Month: 1=the first week in a month,, 5=the last week in a month	
	week of wonth : I=the first week in a month,, 5=1	
	Day of Week : 1=Monday, 2=Tuesday,, 7=Sunda	
Default	Day of Week: 1=Monday, 2=Tuesday,, 7=Sunda	
Default Web UI	Day of Week: 1=Monday, 2=Tuesday,, 7=Sunda Hour of Day: 0=0am, 1=1am,, 23=11pm	
Web UI	Day of Week: 1=Monday, 2=Tuesday,, 7=Sunda Hour of Day: 0=0am, 1=1am,, 23=11pm 12/31/23	
Web UI	Day of Week: 1=Monday, 2=Tuesday,, 7=Sunda Hour of Day: 0=0am, 1=1am,, 23=11pm 12/31/23 Settings > Time & Date > End Date local_time.offset_time It configures the offset time (in minutes) of Daylight	vy <y00000000xx>.cfg</y00000000xx>

Permitted Values	Integer from -300 to 300	
Default	60	
Web UI	Settings > Time & Date > Offset (minutes)	
Parameter	auto_dst.url	<y000000000xx>.cfg</y000000000xx>
Description	It configures the access URL of the DST file (AutoDST.xml). Note : It works only if "local_time.summer_time" is set to 2 (Automatic).	
Permitted Values	URL within 511 characters	
Default	Blank	

Time and Date Manually Configuration

You can set the time and date manually when the phones cannot obtain the time and date from the NTP time server.

The following table lists the parameter you can use to configure time and date manually.

Parameter	local_time.manual_time_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to obtain time and date from manual settings.	
Permitted	0 -Disabled, the phone obtains time and date from the NTP server.	
Values	1-Enabled	
Default	0	
Web UI	Settings > Time & Date > Manual Time	

Note: After the device reboots, it will be forcibly switched to obtain the time and date from the NTP server.

Time and Date Format Configuration

You can customize the time and date by choosing between a variety of time and date formats, including options to date format with the day, month, or year, and time format in 12 hours or 24 hours, or you can also custom the date format as required.

The following table lists the parameters you can use to configure time and date format.

Parameter	custom.handset.time_format	<y000000000xx>.cfg</y000000000xx>
Description	It configures the time format for all registered handsets. Note: It works only if "static.auto_provision.handset_configured.enable" is set to 1 (Enabled).	
Permitted Values	 0-Hour 12, the time will be displayed in 12-hour format with AM or PM specified. 1-Hour 24, the time will be displayed in 24-hour format (for example, 2:00 PM displays as 14:00). 	
Default	1	
Web UI	Settings > Time & Date > Time Format	
Handset UI	W73H/W59R/W53H/W56H: OK > Settings > Display > Time Format DD Phone:	

	Menu > Basic Settings > Time&Date > Time & Date Format > Time Format		
	CP930W:		
	Menu > Settings > Basic Settings > Display > Time Format		
	<u>CP935W:</u> More > Basic > Display > Time & Date Format > Time Format		
Peremeter		<y000000000xx>.cfg</y000000000xx>	
Farameter	It configures the date format for all registered handset		
Description	Note : The value configured by the parameter "Icl.datetime.date.format" takes precedence over that configured by this parameter.		
	0-WWW MMM DD		
	1-DD-MMM-YY		
	2-YYYY-MM-DD		
	3-DD/MM/YYYY		
	4-MM/DD/YY		
Permitted	5-DD MMM YYYY		
Values	6-WWW DD MMM		
	Use the following mapping:		
	"WWW" represents the abbreviation of the week;		
	"DD" represents a two-digit day;		
	"MMM" represents the first three letters of the month;		
	"YYYY" represents a four-digit year, and "YY" represe	ents a two-digit year.	
Default	0		
Web UI	Settings > Time & Date > Date Format		
	W73H/W59R/W53H/W56H:		
	OK > Settings > Display > Date Format		
	DD Phone:		
Llandoat III	Menu > Basic Settings > Time & Date > Time & Date Format > Date Format		
Handset UI	CP930W:		
	 Menu > Settings > Basic Settings > Display > Date Format		
	CP935W:		
	More > Basic > Display > Time & Date Format > Date	Format	
Parameter	local_time.time_format		
Description	It configures the time format.		
Permitted	0 -Hour 12, the time will be displayed in 12-hour forma	at with AM or PM specified.	
Values	1-Hour 24, the time will be displayed in 24-hour format (for example, 2:00 PM displays as 14:00).		
Default	1		
Web UI	Settings > Time & Date > Time Format		
i			

Parameter	local_time.date_format	<y000000000xx>.cfg</y000000000xx>	
	It configures the date format.		
Description	Note : The value configured by the parameter "Icl.datetime.date.format" takes precedence over that configured by this parameter.		
	0-WWW MMM DD (for Chinese display: MM DD WW\	N)	
	1-DD-MMM-YY (for Chinese display: YY-MMM-DD)		
	2-YYYY-MM-DD		
	3-DD/MM/YYYY (for Chinese display: YYYY/MM/DD)		
	4-MM/DD/YY (for Chinese display: YY/MM/DD)		
Permitted	5-DD MMM YYYY (for Chinese display: YYYY MMM I	(סכ	
Values	6-WWW DD MMM (for Chinese display: MM DD WW\	N)	
	Use the following mapping:		
	"WWW" represents the abbreviation of the week;		
	"DD" represents a two-digit day;		
	"MMM" represents the first three letters of the month;		
	"YYYY" represents a four-digit year, and "YY" represents a two-digit year.		
Default	0		
Web UI	Settings > Time & Date > Date Format		
Parameter	lcl.datetime.date.format	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the display format of the date.		
	Any combination of Y, M, D, W and the separator (for	example, space, dash, slash).	
	Use the following mapping:		
	\mathbf{Y} = year, \mathbf{M} = month, \mathbf{D} = day, \mathbf{W} = day of week		
	"Y"/"YY" represents a two-digit year, more than two "Y" letters (for example, YYYY) represent a four- digit year;		
Permitted Values	"M"/"MM" represents a two-digit month, "MMM" represents the abbreviation of the month, three or more than three "M" letters (for example, MMM) represent the long format of the month;		
	One or more than one "D" (for example, DDD) represents a two-digit day;		
	"W"/"WW" represents the abbreviation of the day of the week, three or more three "W" letters (for example, WWW) represent the long format of the day of the week.		
	For the more rules, refer to Date Customization Rule.		
	Note : It will take effect on all handsets that are registered on the same base station. If configured, users can only change the date format via the handset.		
Default	Blank		

Date Customization Rule

You need to know the following rules when customizing date formats:

Format	Description
NAM	It represents a two-digit year.
Y/YY	For example, 16, 17, 18
V is used more than twice (for evennes, VVV, VVVV)	It represents a four-digit year.
Y is used more than twice (for example, YYY, YYYY)	For example, 2016, 2017, 2018
N // A N A	It represents a two-digit month.
M/MM	For example, 01, 02,, 12
5 45 45 4	It represents the abbreviation of the month.
МММ	For example, Jan, Feb,, Dec
Dis used once or more than once (for evenue DD)	It represents a two-digit day.
D is used once or more than once (for example, DD)	For example, 01, 02,, 31
	It represents the abbreviation of the day of week (not applic
w/ww	able to CP930W/CP935W/DD Phones).
	For example, Mon., Tues., Wed., Thur., Fri., Sat., Sun.
Wie used more than twice (for evennes) (0000)	It represents the long format of the day of week (only applic
W is used more than twice (for example, WWW, WWWW)	able to CP930W/CP935W/DD Phones).
	For example, Monday, Tuesday,, Sunday

Input Method

You can specify the default input method for the DECT phone when searching for contacts.

Topic

Input Method Configuration

Input Method Configuration

The following table lists the parameter you can use to configure the input method.

Parameter	directory.search_default_input_method	<y000000000xx>.cfg</y000000000xx>
Description	It configures the default input method when the user searches for contacts in the Local Directory, LDAP, Remote Phone Book, Blocklist or Network Directory.	
Permitted Values	1-Abc 2-123 3-ABC 4-abc 5-ABГ 6-AÄÅ 7-aäå 8-SŚŠ 9-sśš 10-абв 11-AБВ 12-ах	

Default

1

Search Source List in Dialing

The search source list in dialing allows you to search entries from the source list when the phone is on the pre-dialing/dialing screen. You can select the desired entry to dial out quickly.

The search source list can be configured using a supplied super search template file (super_search.xml).

Topics

Search Source File Customization Search Source List Configuration

Search Source File Customization

You can ask the distributor or Yealink FAE for super search template. You can also obtain the super search template online: http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

Topics

Search Source File Attributes Customizing Search Source File

Search Source File Attributes

The following table lists the attributes you can use to add source lists to the super search file:

Attributes	Valid Values	Description	
	local_directory_search		
	calllog_search	The directory list (For example, "local_directory_search" for the	
id_name	remote_directory_search	local directory list).	
	Idap_search	Note : Do not edit this field.	
	BroadSoft_directory_search		
	Local Contacts		
	History	The display name of the directory list.	
display_name	Remote Phonebook		
	LDAP	Note: We recommend that you do not edit this field.	
	Network Directories		
priority	1 to 5	The priority of the search results.	
phoney	1 is the highest priority.	The phoney of the search results.	
	0/1		
enable	0: Disabled	Enable or disable the phone to search the desired directory list.	
	1: Enabled.		

Customizing Search Source File

- 1. Open the search source file.
- 2. To configure each directory list, edit the values within double quotes in the corresponding field. For example, enable the local directory search, disable the call log search and specify a priority. <item id_name="local_directory_search" display_name="Local Contacts" priority="1" enable="1" /> <item id_name="calllog_search" display_name="History" priority="2" enable="0" />

3. Save the change and place this file to the provisioning server.

Search Source List Configuration

The following table lists the parameters you can use to configure the search source list.

Parameter	super_search.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the custom super search file.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Directory > Settings > Search Source List In Dialing		
Parameter	search_in_dialing.local_directory.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to automatically sea results on the pre-dialing/dialing screen.	arch entries from the local directory, and display	
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Directory > Settings > Search Source List In Dialing		
Parameter	search_in_dialing.local_directory.priority	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the search priority of the local directory.		
Permitted Values	Integer greater than or equal to 0		
Default	1		
Web UI	Directory > Settings > Search Source List In Dialing		
Parameter	search_in_dialing.history.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to automatically search entries from the call history list, and display results on the pre-dialing/dialing screen.		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Directory > Settings > Search Source List In Dialing		
Parameter	search_in_dialing.history.priority	<y000000000xx>.cfg</y000000000xx>	
-	It configures the search priority of the call history list.		
Permitted Values	Integer greater than or equal to 0		
Default	2		
Web UI	Directory > Settings > Search Source List In Dialing		

-		
Parameter	search_in_dialing.remote_phone_book.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the phone to automatically search entries from the remote phone book, and dis- play results on the pre-dialing/dialing screen.	
	0-Disabled 1-Enabled	
Default	0	
Web UI	Directory > Settings > Search Source List In Dialing	
Parameter	search_in_dialing.remote_phone_book.priority	<y000000000xx>.cfg</y000000000xx>
Description	It configures the search priority of the remote phone	book.
Permitted Values	Integer greater than or equal to 0	
Default	3	
Web UI	Directory > Settings > Search Source List In Dialing	
Parameter	search_in_dialing.ldap.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the phone to automatically search entries from the LDAP, and display results on the pre-dialing/dialing screen.	
	0-Disabled 1-Enabled	
Default	0	
Web UI	Directory > Settings > Search Source List In Dialing	
Parameter	search_in_dialing.ldap.priority	<y000000000xx>.cfg</y000000000xx>
Description	It configures the search priority of the LDAP.	
Permitted Values	Integer greater than or equal to 0	
Default	4	
Web UI	Directory > Settings > Search Source List In Dialing	
Parameter	bw.plcm_phone_services.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to open the PLCM phonebook service.	
	0-Disabled 1-Enabled	
Default	0	
Parameter	bw.plcm_phone_services_update_interval	<y000000000xx>.cfg</y000000000xx>
Description	It configures the automatic update interval of the PLCM phonebook service.	
Permitted	Integer from 60 to 86400	

Values		
Default	1440	
Parameter	directory_setting.plcm_directory.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the directory list to display to F	PLCM phone book.
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	directory_setting.plcm_directory.priority	<y000000000xx>.cfg</y000000000xx>
Description	It configures the priority of the PLCM phone book on the directory list.	
Permitted Values	Integer greater than or equal to 0	
Default	11	
Parameter	search_in_dialing.plcm_directory.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to automatically search entries from the PLCM phone book, and dis- play results on the pre-dialing/dialing screen.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	search_in_dialing.plcm_directory.priority	<y000000000xx>.cfg</y000000000xx>
Description	It configures the search priority of the PLCM phone book.	
Permitted Values	Integer greater than or equal to 0	
Default	11	

Call Display

By default, the phones present the contact information when receiving an incoming call, dialing an outgoing call or engaging in a call.

You can configure what contact information presents and how to display the contact information. If the contact exists in the phone directory, the phone displays the saved contact name and number. If not, it will use the Calling Line Identification Presentation (CLIP) or Connected Line Identification Presentation (COLP) to display the contact's identity.

Topic

Call Display Configuration

Call Display Configuration

The following table lists the parameters you can use to configure the call display.

Parameter	phone_setting.called_party_info_display.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to display the local identity when it receives an incoming call.		
Description	Note : The information display method is configured by the parameter "phone_setting.call_info_dis- play_method".		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Settings > Call Display > Display Called Party Information		
Parameter	phone_setting.call_info_display_method	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the call information display method when the phone outgoing call or is during a call.	e receives an incoming call, dials an	
	0-Name+Number		
	1-Number+Name		
Permitted	2-Name		
Values	3-Number		
	4-Full Contact Info (display name <sip:xxx@domain.com>)</sip:xxx@domain.com>		
	Note: Name refers to the Label; Number refers to the User Name.		
Default	0		
Web UI	Settings > Call Display > Call Information Display Method		
Parameter	phone_setting.caller_party_info_display.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables to display the corresponding line account	when outgoing.	
Description	Note : If the handset is only assigned the incoming and outcoming permission of one account, the line account will not be displayed even if the configuration item is enabled.		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Parameter	account.X.update_ack_while_dialing ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to update the display of call ID according to the ACK message.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	sip.disp_incall_to_info ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display the identity contained in the To field of the INVITE mes- sage when it receives an incoming call.		
Permitted Values	0-Disabled 1-Enabled		

Default	0	
Parameter	phone_setting.line_status_display.mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures that the handset only displays outgoing line in Line	status.
Permitted	0 -Disabled, you can check the status of all registered Lines.	
Values	1-Enabled	
Default	0	
Parameter	handset.X.line_status_display_mode ^[1]	<mac>.cfg</mac>
Description	It controls the mode displayed after entering Line Status on the handset.	
Permitted Values	0 -Disabled, you can check the status of all registered Lines, including available or unavailable, whether DND, FWD, etc.	
Values	1-Enabled, only display the status of the available lines of the cu that are not assigned call rights.	rrent handset, and hide the accounts
Default	Blank	

^[1]X is the account ID. X=1-10.

^[2]If you change this parameter, the phone will reboot to make the change take effect.

Display Method on Dialing

When the phone is on the pre-dialing or dialing screen, the account information will be displayed on the phone screen.

Yealink phones support three display methods: Label, Display Name, and User Name. You can customize the account information to be displayed on the IP phone as required.

Topic

Display Method on Dialing Configuration

Display Method on Dialing Configuration

Parameter	features.caller_name_type_on_dialing	<y000000000xx>.cfg</y000000000xx>
Description	It configures the selected account information displ	ayed on the pre-dialing or dialing screen.
values	 1-Label, configured by the parameter "account.X.label". 2-Display Name, configured by the parameter "account.X.display_name". 3-User Name, configured by the parameter "account.X.user_name". 	
Default	3	
Web UI	Features > General Information > Display Method on Dialing	

Key As Send

Key as send allows you to assign the pound key ("#") or asterisk key ("*") as the send key.

Topic

Key As Send Configuration

Key As Send Configuration

The following table lists the parameters you can use to configure the key as send.

Parameter	features.key_as_send	<y000000000xx>.cfg</y000000000xx>
Description	It configures the "#" or "*" key as the send key.	
Permitted Values	 0-Disabled, neither "#" nor "*" can be used as the send key. 1-# key 	
	2-* key	
Default	0	
Web UI	Features > General Information > Key As Send	

Recent Call Display in Dialing

Recent call display allows you to view the placed calls list when the phone is on the dialing screen. You can select to place a call from the placed calls list.

Topic

Recent Call in Dialing Configuration

Recent Call in Dialing Configuration

The following table lists the parameter you can use to configure the recent call display in dialing.

Parameter	super_search.recent_call	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables Recent Call in Dialing feature.	
Permitted	0-Disabled	
Values	1-Enabled, users can view the placed calls list when the phone is on the dialing screen.	
Default	1	
Web UI	Directory > Settings > Recent Call In Dialing	

Warnings Display

Yealink phones support displaying the warning details about the issue in the **Status** screen when the default password is used.

Topic

Warnings Display Configuration

Warnings Display Configuration

The following table lists the parameter you can use to configure the warnings display.

Parameter	phone_setting.warnings_display.mode	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to display warnings when the default password is in use.	
Permitted	0-Disabled	
Values	1-Enabled	

Default

Advisory Tones

1

Advisory tones are the acoustic signals of your handset, which inform you of different actions and states.

It is not applicable to DD phones.

You can configure the following advisory tones independently for each other:

- Keypad Tone: plays when you press any key of the keypad. For CP930W, you can only configure it by navigating to Menu > Settings > Basic Settings > Sound > Advisory Tones > Keypad Tone. It is not applicable to CP935W.
- Key Tone: plays when you tap the dial pad. It is only applicable to CP935W, you can configure it by navigating to More > Basic > Sound > Advisory Tones > Key Tone.
- Touch Tone: plays when you tap the keys (except the off-hook key and the touch keypad). You can only configure it by navigating to Menu > Settings > Basic Settings > Sound > Advisory Tones > Touch Tone. For CP935W, you can only configure it by navigating to More > Basic > Sound > Advisory Tones > Touch Tone. It is only applicable to CP930W/CP935W.
- Confirmation: plays when you save settings or place the handset in the charger cradle. For CP930W, you can
 only configure it by navigating to Menu > Settings > Basic Settings > Sound > Advisory Tones > Confirmation.
 It is not applicable to CP935W.
- Low Battery: plays when battery capacity is low and the handset requires being charged. For CP930W, you can only configure it by navigating to Menu > Settings > Basic Settings > Sound > Advisory Tones > Low Battery. For CP935W, you can only configure it by navigating to More > Basic > Sound > Advisory Tones > Low Battery tery Tone.

Topic

Advisory Tones Configuration

Advisory Tones Configuration

The following table lists the parameters you can use to configure the advisory tones.

Parameter	custom.handset.keypad_tone.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the handset to play a tone when any key is pressed. For CP930W, it plays a tone only when the touch keypad is tapped.	
	Note: It will take effect on all handsets that are registered on the same base station. It works only if "static.auto_provision.handset_configured.enable" is set to 1 (Enabled) and the silent mode is off.	
Downsitte d	-1-Do not modify the handset configuration (Keep the original configuration of the handset).	
Permitted Values	0-Disabled	
	1-Enabled	
Default	-1	
Supported Devices	W78H, W73H, W59R, W53H, W56H, CP930W, W57R	
Handset UI	W78H/W73H/W59R/W57R/W53H/W56H:	
	OK > Settings > Audio > Advisory Tones > Keypad Tone	
	<u>CP930W:</u>	
	Menu > Settings > Basic Settings > Sound > Advisory Tones > Keypad Tone	

Parameter	custom.handset.confirmation_tone.enable <	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the handset to play a tone when a user saves settings or places the handset in the charger cradle.		
	Note: It will take effect on all handsets that are registered on the same base station. It works only if "static.auto_provision.handset_configured.enable" is set to 1 (Enabled) and the silent mode is off.		
	-1-Do not modify the handset configuration (Keep the original configuration of the handset).		
Permitted Values	0-Disabled		
	1-Enabled		
Default	-1		
Supported Devices	W78H, W73H, W59R, W53H, W56H, CP930W, W57R		
	W78H/W73H/W59R/W57R/W53H/W56H:		
Handset UI	OK > Settings > Audio > Advisory Tones > Confirmation <u>CP930W:</u>		
	Menu > Settings > Basic Settings > Sound > Confirmation		
Parameter	custom.handset.low_battery_tone.enable <	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the handset to play a tone when battery capacity is low.		
Description	Note : It will take effect on all handsets that are registered on the same base station. It works only if "static.auto_provision.handset_configured.enable" is set to 1 (Enabled) and the silent mode is off.		
_	-1-Do not modify the handset configuration (Keep the original configuration of the handset).		
Permitted Values	0-Disabled		
	1-Enabled		
Default	-1		
Supported Devices	W78H, W73H, W59R, W53H, W56H, CP930W, CP935W, W57R		
Handset UI	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Settings > Audio > Advisory Tones > Low Battery CP930W:		
	Menu > Settings > Basic Settings > Sound > Low Battery		
	<u>CP935W:</u>		
	More > Basic > Sound > Low Battery Tone		

Shortcut Customization

Shortcuts allow you to quickly and directly access the feature without scrolling through the menu when the phone is idle. You can customize six shortcuts on the handset in total.

It is only applicable to W73H/W78H/W59R/W56H/W53H/W57R.

Topics

Shortcut Customization Configuration Handset Shortcut Customization Configuration

Shortcut Customization Configuration

The following table lists the parameters you can use to customize the key function on the idle screen.

	custom.handset.defined_left_key.type	
Parameter	custom.handset.defined_right_key.type	<y000000000xx>.cfg</y000000000xx>
	It configures the role of the Left Softkey/Right Softkey on the idle screen.	
	0: current experience	
	1: History	
	2: missed calls	
	3: accepted calls	
	4: Redial	
	5: SpeedDial	
	6: Menu	
	7: Line Status	
	8: Outgoing Line	
	9: Call Forward	
	10: DND	
	11: Intercom	
	12: Directory	
	13: Local Directory	
Permitted	14: Network Directory	
Values	15: LDAP	
	16: Remote phonebook	
	17: Volume+	
	18: Volume-	
	19 : Balance	
	20: Retrieve	
	21: History	
	23: Shared Directory	
	24: Status	
	25: XML Browser	
	26: XML Dir (XML Phone Book)	
	28: Headset Call Retrieved	
	29 : Signin	
	30 : Login	
	31: Empty	
Default	0	
Parameter	custom.handset.defined_direction_left_key.type	<y000000000xx>.cfg</y000000000xx>

	custom.handset.defined_direction_right_key.type			
	custom.handset.defined_direction_up_key.type			
	custom.handset.defined_direction_down_key.type			
Description				
	ription It configures the role of the left/right/up/down navigation key on the idle screen.			
	0: current experience			
	1: History			
	2: missed calls			
	3: accepted calls			
	4: Redial			
	5: SpeedDial			
	6: Menu			
	7: Line Status			
	8: Outgoing Line			
	9: Call Forward			
	10: DND			
	11: Intercom			
	12: Directory			
	13: Local Directory			
Permitted	14: Network Directory			
Values	15: LDAP			
	16: Remote phonebook			
	17: Volume+			
	18: Volume-			
	19: Balance			
	20: Retrieve			
	21: History			
	23: Shared Directory			
	24: Status			
	25: XML Browser			
	26: XML Dir (XML Phone Book)			
	28: Headset Call Retrieved			
	29: Signin			
	30 : Login			
	31: Empty			

Default	0		
	custom.handset.defined_left_key.xml_url		
	custom.handset.defined_right_key.xml_url		
	custom.handset.defined_direction_left_key.xml_url	<y000000000xx>.cfg</y000000000xx>	
Parameter	custom.handset.defined_direction_right_key.xml_url		
	custom.handset.defined_direction_up_key.xml_url		
	custom.handset.defined_direction_down_key.xml_url		
	It configures the available access URL to browse the XML ob		
Description	Note : It works only if "custom.handset.defined_left_key.type"/"custom.handset.defined_right_key type"/"custom.handset.defined_direction_left_key.type"/"custom.handset.defined_direction_right_k type"/"custom.handset.defined_direction_up_key.type"/"custom.handset.defined_direction_down_ key.type" is set to 25 (XML Browser).		
Permitted Values	String within 512 characters		
Default	Blank		
	custom.handset.X.defined_left_key.xml_url ^[1]		
	custom.handset.X.defined_right_key.xml_url ^[1]		
	custom.handset.X.defined_direction_left_key.xml_url ^[1]		
Parameter	custom.handset.X.defined_direction_right_key.xml_url ^[1]	<mac>.cfg</mac>	
	custom.handset.X.defined_direction_up_key.xml_url ^[1]		
	custom.handset.X.defined_direction_down_key.xml_url ^[1]		
	It configures the available access URL to browse the XML object.		
Note: It works only if "custom.handset.defined_left_key.type"/"custom.hand type"/"custom.handset.defined_direction_left_key.type"/"custom.handset.defined_direction_up_key.type"/"custom.handset.defined_		om.handset.defined_direction_right_key	
Permitted Values	String within 512 characters		
Default	Blank		
[4]			

 $^{[1]}X$ is the account ID. X=1-10.

Bluetooth

CP930W-Base/CP935W-Base phones support Bluetooth. You can pair and connect the Bluetooth-enable mobile phone with your phone, and make and receive mobile calls on the phone. After connecting the Bluetooth-enabled mobile phone, you can also use your phone as a Bluetooth speaker for your mobile phone and PC. You can set up a conference among the calls on your IP phone, the PC and connected mobile phone. CP935W-Base also supports Bluetooth name editing, you can edit the Bluetooth name that you want.

Topic

Bluetooth Configuration

Bluetooth Configuration

You can activate or deactivate the Bluetooth mode, and personalize the Bluetooth device name for the IP phone. It is helpful for the other Bluetooth devices to identify and pair with your IP phone.

The following table lists the parameters you can use to configure Bluetooth.

Parameter	static.bluetooth.function.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the Bluetooth feature.		
Permitted	0 -Disabled, you are not allowed to trigger Bluetooth mode to on.		
Values	1-Enabled		
Default	1		
Supported Devices	CP930W-Base, CP935W-Base		
Parameter	bluetooth.connect_confirm.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to prompt users to confirm the connection request from the Bluetooth device.		
Permitted	0-Disabled		
Values	1-Enabled, the prompt will not appear during the call.		
Default	0		
Supported Devices	CP930W-Base, CP935W-Base		

^[1]If you change this parameter, the phone will reboot to make the change take effect.

DSS Keys

You can assign various functions to DSS keys. This section explains how to set these keys.

Topics

Line Keys

Line Keys

Line keys provide one-touch feature (for example, one-touch park). This allows you to quickly access features and to view the monitored status when the line keys are assigned with particular features (for example, BLF).

Topics

Line Keys Configuration

Line Keys Configuration

The following table lists the parameters you can use to configure line keys for DD phones and CP935W-Base.

Parameter	ddp.X.linekey.Y.type ^{[1][2]}		<y000000000xx>.cfg</y000000000xx>
Description	It configures the key feature.		
			39 -BLF List 56 -Retrieve Park
		310-DECT Intercom	114-Push-to-Talk

Default	0	
Supported	0	
Devices	DD Phone(Color Screen), CP935W-Base	
Phone UI	DD Phone: Menu > Features > Dsskey > Line Key X > Type CP935W: More > Features > Dsskey > Line Key X > Type	
Parameter	ddp.X.linekey.Y.line ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>
Description	It configures the desired line to apply the line key feature.	
Permitted Values	0, 1-10	
Default	Blank	
Supported Devices	DD Phone(Color Screen), CP935W-Base	
	DD Phone:	
Phone UI	Menu > Features > Dsskey > Line Key X > Account ID <u>CP935W:</u> More > Features > Dsskey > Line Key X > Account ID	
Parameter	ddp.X.linekey.Y.value ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>
	It configures the value for some line key features.	
Description	For example, when you assign the Speed Dial to the line key, this parameter is tact number you want to dial out.	used to specify the con-
Permitted Values	String within 99 characters	
Default	Blank	
Supported Devices	DD Phone(Color Screen), CP935W-Base	
	DD Phone:	
	Menu > Features > Dsskey > Line Key X > Value <u>CP935W:</u> More > Features > Dsskey > Line Key X >Value	
	ddp.X.linekey.Y.label ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>
Description	It configures the label displayed on the phone screen.	
Permitted	This is an optional configuration.	
Values	String within 99 characters	
Default	Blank	
Supported Devices	DD Phone(Color Screen), CP935W-Base	
	DD Phone:	
Phone UI	Menu > Features > Dsskey > Line Key X > Label <u>CP935W:</u> More > Features > Dsskey > Line Key X > Label	
Parameter	ddp.X.linekey.Y.extension ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>
	For the BLF/BLF list feature:	
200011011		

	It configures the pickup code.	
Permitted Values	String within 99 characters	
Default	Blank	
Supported Devices	DD Phone(Color Screen), CP935W-Base	
Phone UI	DD Phone: Menu > Features > Dsskey > Line Key X > Extension <u>CP935W:</u> More > Features > Dsskey > Line Key X > Extension	
Parameter	handset.x.blf_base_handset.enable <y00000000xx>.cfg</y00000000xx>	
Description	It configures whether the handset X can subscribe to other handsets via the base.	
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	

^[1]X is the DDphone/CP935W-Base ID. X=1-10.

^[2]Y is the line key ID. Y=1-10(for DDphone)/Y=1-30(for CP935W-Base).

Account Settings

This chapter shows you how to register accounts and configure account settings on Yealink devices.

Topics

Account Registration Outbound Proxy in Dialog Server Redundancy SIP Server Name Resolution Static DNS Cache Number of Active Handsets Number of Simultaneous Outgoing Calls Number Assignment

Account Registration

Registering an account makes it easier for the phones to receive an incoming call or dial an outgoing call. The W70B device supports registering multiple accounts, each account requires an extension or phone number.

Topics

Supported Accounts Accounts Registration Configuration Registration Settings Configuration

Supported Accounts

The number of registered accounts must meet the following:

Assigned Account(s)	Registered	
W73P/W76P/W79P/W53H/DDPhone/CP935W- Base	CP930W- Base W70B	
10	1	10

Accounts Registration Configuration

The following table lists the parameters you can use to register accounts.

Parameter	account.X.enable ^[1]	<mac>.cfg</mac>
Description	It defines the activation status of the account.	
	0-Disabled 1-Enabled	
Default	0	
Web UI	Account > Register > Line Active	
Parameter	account.X.label ^[1]	<mac>.cfg</mac>
Description	It configures the display label of the account.	
Permitted Values	String within 99 characters	
Default	Blank	
Web UI	Account > Register > Label	

D		
	account.X.display_name ^[1]	<mac>.cfg</mac>
-	It configures the display name of the account.	
Permitted Values	String within 99 characters	
Default	Blank	
Web UI	Account > Register > Display Name	
Parameter	account.X.auth_name ^[1]	<mac>.cfg</mac>
Description	It configures the user name for authentication regis	tration.
Permitted Values	String within 99 characters	
Default	Blank	
Web UI	Account > Register > Register Name	
Parameter	account.X.user_name ^[1]	<mac>.cfg</mac>
Description	It configures the user name of the account.	
Permitted Values	String within 99 characters	
Default	Blank	
Web UI	Account > Register > Username	
Parameter	account.X.password ^[1] <mac>.cfg</mac>	
Description	It configures password of the account.	
Permitted Values	String within 99 characters	
Default	Blank	
Web UI	Account > Register > Password	
Parameter	account.X.sip_server.Y.address ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the IP address or domain name of the	SIP server in which the account is registered.
Permitted Values	String within 256 characters	
Default	Blank	
Web UI	Account > Register > SIP Server Y > Server Host	
Parameter	account.X.sip_server.Y.port ^{[1][2]} <mac>.cfg</mac>	
Description	It configures the port of SIP server. If it is set to 0 when UDP is used ("account.X.sip_server.Y.transport_type" is set to 0), the phone uses a random port for responding to the messages from the server.	
Permitted Values	Integer from 0 to 65535	
Default	5060	

Web UI	Account > Register > SIP Server Y > Port		
Handset UI	W73H/W59R/W53H/W56H:		
	OK > Settings > Telephony > Server (default PIN: 0	000) > Server Y (Account X) > Port	
Parameter	account.X.outbound_proxy_enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to send requests t	o the outbound proxy server.	
	0-Disabled		
Values Default	1-Enabled 0		
Web UI	Account > Register > Enable Outbound Proxy Serv	er	
Hendoot III	W73H/W59R/W53H/W56H:		
Handset UI	OK > Settings > Telephony > Server (default PIN: 0 Outbound Server	000) > Server Y (Account X) > Outbound Proxy >	
Parameter	account.X.outbound_proxy.Y.address ^{[1][2]}	<mac>.cfg</mac>	
Description	It configures the IP address or domain name of the	outbound proxy server.	
Description	Note: It works only if "account.X.outbound_proxy_e	enable" is set to 1 (Enabled).	
Permitted Values	String within 256 characters		
Default	Blank		
Web UI	Account > Register > Outbound Proxy Server Y		
Parameter	account.X.outbound_proxy.Y.port ^{[1][2]}	<mac>.cfg</mac>	
Description	It configures the port of the outbound proxy server.		
Description	Note: It works only if "account.X.outbound_proxy_e	enable" is set to 1 (Enabled).	
Permitted Values	Integer from 0 to 65535		
Default	5060		
Web UI	Account > Register > Outbound Proxy Server Y > Port		
	W73H/W59R/W53H/W56H:		
Handset UI	OK > Settings > Telephony > Server (default PIN: 0000) > Outbound Proxy (Account X) > Port (only applicable to port sever 1)		
Parameter	account.X.reg_fail_retry_interval ^[1]	<mac>.cfg</mac>	
	It configures the re-registration period (in seconds)	after the account registration fails.	
Description	Note: It works only if "account.X.reg_failed_retry_min_time" and "account.X.reg_failed_retry_max_ time" are set to 0.		
Permitted Values	Integer from 0 to 1800		
Default	30		
Web UI	Account > Advanced > SIP Registration Retry Timer (0~1800s)		
Parameter	account.X.reg_failed_retry_min_time ^[1] <mac>.cfg</mac>		
Description	It configures the base time to wait (in seconds) for the phone to retry to re-register after the account registration fails.		

	Note : It is used in conjunction with the parameter "account.X.reg_failed_retry_max_time" to determine how long to wait. The algorithm is defined in RFC 5626. We recommend that you set this value to an integer between 10 to 120 if needed. If the values of this parameter and the parameter "account.X.reg_failed_retry_max_time" are set to 0, the interval configured by "account.X.reg_fail_retry_interval" will be used.	
Permitted Values	Integer greater than or equal to 0	
Default	0	
Parameter	account.X.reg_failed_retry_max_time ^[1]	<mac>.cfg</mac>
Description	It configures the maximum time to wait (in seconds) for the phone to retry to re-register after the account registration fails. Note: It is used in conjunction with the parameter "account.X.reg_failed_retry_min_time" to determine how long to wait. The algorithm is defined in RFC 5626. We recommend that you set this value to an integer between 60 to 1800 if needed. If the values of this parameter and the parameter "account.X.reg_failed_retry_min_time" are set to 0, the interval configured by "account.X.reg_fail_retry_interval" will be used.	
Permitted Values	Integer greater than or equal to 0	
Default	60	

 $^{[1]}X$ is the account ID. X=1-10.

^[2]Y is the server ID. Y=1-2.

Registration Settings Configuration

The following table lists the parameters you can use to change the registration settings.

Parameter	account.X.enable_user_equal_phone ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to add "user=phone" to the SIP header of the INVITE message.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Account > Advanced > Send user=phone		
Parameter	account.X.register_mac ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to add MAC address to the SIP header of the REGISTER message.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Account > Advanced > SIP Send MAC		
Parameter	account.X.register_line ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to add a line number to the SIP header of the REGISTER message. 0-9 stand for line1-line10.		
Permitted Values	0-Disabled 1-Enabled		

Default	0		
Web UI	Account > Advanced > SIP Send Line		
Parameter	account.X.unregister_on_reboot ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to unregister first before re-reg	istering account X after a reboot.	
Permitted Values	0 -Disabled 1 -Enabled		
	0		
Web UI	Account > Advanced > Unregister When Reboot		
Parameter	account.X.sip_server_type ^[1]	<mac>.cfg</mac>	
Description	It configures the type of SIP server.		
	0-Default		
	2-BroadSoft (It works only if "bw.enable" is set to 1 (Enabled))		
Permitted	8-Genesys		
Values	10-Genesys Advanced		
	12-Star2Star		
	15-Genband Standalone AS		
Default	0		
Web UI	Account > Advanced > SIP Server Type		
Parameter	sip.reg_surge_prevention ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the waiting time (in seconds) for account register after startup.		
Permitted Values	Integer from 0 to 60		
Default	0		
Web UI	Network > Advanced > Registration Random > Random Regist	ration (0~60s)	
Parameter	account.X.subscribe_register ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to subscribe to the registration	state change notifications.	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Account > Advanced > Subscribe Register		
Parameter	phone_setting.disable_account_without_username.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to disable the account whose username is empty.		
Permitted Values	0-Disabled 1-Enabled		
	0		
Parameter	account.X.register_expires_overlap ^[1]	<mac>.cfg</mac>	

Description	It configures the renewal time (in seconds) away from the registration lease.	
Permitted Values	Positive integer and -1	
Default	-1	
Parameter	account.X.subscribe_expires_overlap ^[1]	<mac>.cfg</mac>
Description	It configures the renewal time (in seconds) away from the subscription lease.	
Permitted Values	Positive integer and -1	
Default	-1	

^[2]If you change this parameter, the phone will reboot to make the change take effect.

Outbound Proxy in Dialog

An outbound proxy server can receive all initiating request messages and route them to the designated destination. If the device is configured to use an outbound proxy server within a dialog, all SIP request messages from the device will be sent to the outbound proxy server as a mandatory requirement.

Note: To use this feature, make sure the outbound server has been correctly configured on the device. For more information on how to configure the outbound server, refer to Server Redundancy.

Topic

Outbound Proxy in Dialog Configuration

Outbound Proxy in Dialog Configuration

The following table lists the parameter you can use to configure the outbound proxy in dialog.

Parameter	sip.use_out_bound_in_dialog	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to send all SIP rec a dialog.	uests to the outbound proxy server mandatorily in
	Note: It works only if "account.X.outbound_proxy_e	nable" is set to 1 (Enabled).
Permitted Values		
	a dialog.	none win be sent to the outbound proxy server in
Default	0	
Web UI	Features > General Information > Use Outbound P	roxy In Dialog

Server Redundancy

Server redundancy is often required in VoIP deployments to ensure continuity of phone service, for example, take the call server offline for maintenance, the server fails, or the connection between the device and the server fails.

Two types of redundancy are possible. In some cases, a combination of the two may be deployed:

• Failover: In this mode, the full phone system functionality is preserved by having a second equivalent capability call server take over from the one that has gone down/off-line. This mode of operation should be done using the

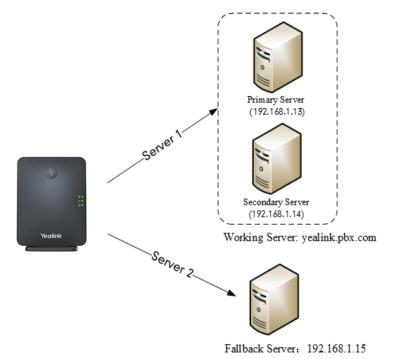
DNS mechanism from the primary to the secondary server. Therefore, if you want to use this mode, the server must be configured with a domain name.

 Fallback: In this mode, a second less featured call server with SIP capability takes over call control to provide the basic calling capability, but without some advanced features (for example, shared line and MWI) offered by the working server. The phones support configuration of two servers per SIP registration for the fallback purpose.

Note: For concurrent registration mode, it has a certain limitation when using some advanced features, and for successive registration mode, the phone service may have a brief interrupt while the server fails. So we recommend that you use the failover mode for server redundancy because this mode can ensure the continuity of the phone service and you can use all the call features while the server fails.

Phone Configuration for Redundancy Implementation

To assist in explaining the redundancy behavior, an illustrative example of how an IP phone may be configured is shown below. In the example, server redundancy for fallback and failover purposes is deployed. Two separate servers (a working server and a fallback server) are configured for per line registration.



- Working Server: Server 1 is configured with the domain name of the working server. For example yealink.pbx.com. DNS mechanism is used such that the working server is resolved to multiple servers with different IP addresses for failover purpose. The working server is deployed in redundant pairs, designated as primary and secondary servers. The primary server (for example, 192.168.1.13) has the highest priority server in a cluster of
 - servers resolved by the DNS server. The secondary server (for example, 192.168.1.13) has the rights phoney server in a cluster of servers resolved by the DNS server. The secondary server (for example, 192.168.1.14) backs up a primary server when the primary server fails and offers the same functionality as the primary server.
 - Fallback Server: Server 2 is configured with the IP address of the fallback server. For example 192.168.1.15. A fallback server offers less functionality than the working server.

Yealink devices support Failover and Fallback server redundancy types. In some cases, you can deploy a combination of the two server redundancy types. For more information on server redundancy, refer to Server Redundancy on Yealink IP Phones.

Topics

Behaviors When Working Server Connection Fails Registration Method of the Failover/Fallback Mode Fallback Server Redundancy Configuration Failover Server Redundancy Configuration

Behaviors When Working Server Connection Fails

For Outgoing Call

When you initiate a call, the phone will go through the following steps to connect the call:

- 1. Sends the INVITE request to the primary server.
- If the primary server does not respond correctly to the INVITE (that is, the primary server responds to the INVITE with 503 message or the request for responding with 100 Trying message times out (64*T1 seconds, defined in RFC 3261)), then tries to make the call using the secondary server.
- 3. If the secondary server is also unavailable, the phone will try the fallback server until it either succeeds in making a call or exhausts all servers at which point the call will fail.

At the start of a call, server availability is determined by SIP signaling failure. SIP signaling failure depends on the SIP protocol being used as described below:

- If TCP is used, then the signaling fails if the connection or the send fails.
- If UDP is used, then the signaling fails if ICMP is detected or if the signal times out. If the signaling has been attempted through all servers in the list (this list contains all the server addresses resolved by the DNS server) and this is the last server, then the signaling fails after the complete UDP timeout defined in RFC 3261. If it is not the last server in the list, the maximum number of retries depends on the configured retry counts (configured by the parameter "account.X.sip_server.Y.retry_counts").

Registration Method of the Failover/Fallback Mode

Registration method of the failover mode:

The IP phone must always register to the primary server first except in failover conditions. If this is unsuccessful, the phone will re-register as many times as configured until the registration is successful. When the primary server registration is unavailable, the secondary server will serve as the working server. As soon as the primary server registration succeeds, it returns to be the working server.

Registration methods of the fallback mode include (not applicable to outbound proxy servers):

- Concurrent registration (default): The IP phone registers to SIP server 1 and SIP server 2 (working server and fallback server) at the same time. Note that although the IP phone registers to two SIP servers, only one server works at the same time. If it fails, a fallback server can take over the basic calling capability, but without some advanced features (for example, shared lines and MWI) offered by the working server.
- Successive registration: The IP phone only registers to one server at a time. The IP phone first registers to the working server. In a failure situation, the phone registers to the fallback server, and the fallback server can take over all calling capabilities.

Fallback Server Redundancy Configuration

The following table lists the parameters you can use to configure fallback server redundancy.

Parameter	account.X.fallback.redundancy_type ^[1]	<mac>.cfg</mac>
Description	It configures the registration mode in fallback mode. Note: It is not applicable to outbound proxy servers.	
Permitted Values	0-Concurrent registration 1-Successive registration	
Default	0	
Parameter	account.X.fallback.timeout ^[1]	<mac>.cfg</mac>
Description	It configures the time interval (in seconds) for the phone to detect whether the working server is avail- able by sending the registration request after the fallback server takes over call control.	

	Note: It is not applicable to outbound proxy servers.	
Permitted Values	Integer from 10 to 2147483647	
Default	120	
Parameter	account.X.outbound_proxy_fallback_interval ^[1] <mac>.cfg</mac>	
Description	It configures the time interval (in seconds) for the phone to detect whether the working outbound proxy server is available by sending the registration request after the fallback server takes over call control. Note : It is only applicable to outbound proxy servers.	
Permitted Values	Integer from 0 to 65535	
Default	3600	
Web UI	Account > Register > Proxy Fallback Interval	

Failover Server Redundancy Configuration

The following table lists the parameters you can use to configure failover server redundancy.

Parameter	account.X.sip_server.Y.register_on_enable ^{[1][2]}	<mac>.cfg</mac>	
Description	It enables or disables the phone to send registration requests to the secondary server when encoun- tering a failover.		
Permitted Values	0 -Disabled, the phone will not attempt to register to the secondary server, since the phone assumes that the primary and secondary servers share registration information. So the phone will directly send the requests to the secondary server.		
	1-Enabled, the phone will register to the secondary server first, and	I then send the requests to it.	
Default	0		
Parameter	sip.skip_redundant_failover_addr	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone only to send requests to the servers with different IP addresses when encountering a failover.		
	0-Disabled 1-Enabled		
Default	1		
Parameter	account.X.sip_server.Y.expires ^{[1][2]}	<mac>.cfg</mac>	
Description	It configures the registration expiration time (in seconds) of SIP server	ver Y for a specific account.	
Permitted Values	Integer from 30 to 2147483647		
Default	3600		
Web UI	Account > Register > SIP Server Y > Server Expires		
Parameter	account.X.sip_server.Y.retry_counts ^{[1][2]}	<mac>.cfg</mac>	
Description	It configures the retry times for the phone to resend requests when the SIP server Y is unavailable or there is no response from the SIP server Y.		
	The phone moves to the next available server after three failed atte	ext available server after three failed attempts.	
Permitted	Integer from 0 to 20		

Values		
Default	3	
Web UI	Account > Register > SIP Server Y > Server Retry Counts	
Parameter	account.X.sip_server.Y.only_signal_with_registered ^{[1][2]}	<mac>.cfg</mac>
Description	It enables or disables the phone to only send requests to the registered server when encountering a failover. Note: It works only if "account.X.sip_server.Y.register_on_enable" is set to 1 (Enabled) and "accoun-	
Permitted Values	t.X.sip_server.Y.failback_mode" is set to 1, 2 or 3. 0 -Disabled 1 -Enabled	
Default	0	
Parameter	account.X.sip_server.Y.invite_retry_counts ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the number of retries attempted before sending reques when encountering a failover.	, , , , , , , , , , , , , , , , , , ,
Permitted Values	Integer from 1 to 10	
Default	3	
Parameter	account.X.sip_server.Y.failback_mode ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the mode for the phone to retry the primary server in failover. Note : It works only if "account.X.sip_server.Y.address" is set to the domain name of the SIP server.	
Permitted Values	 0-newRequests: all requests are sent to the primary server first, regardless of the last server that was used. 1-DNSTTL: the phone will send requests to the last registered server first. If the time defined by DNSTTL on the registered server expires, the phone will retry to send requests to the primary server. 2-Registration: the phone will send requests to the last registered server first. If the registration expires, the phone will retry to send requests to the primary server. 3-duration: the phone will send requests to the last registered server first. If the time defined by the "account.X.sip_server.Y.failback_timeout" parameter expires, the phone will retry to send requests to the primary server. 	
Default	0	
Parameter	account.X.sip_server.Y.failback_timeout ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the timeout (in seconds) for the phone to retry to send requests to the primary server after failing over to the current working server. If you set the parameter to 0, the phone will not send requests to the primary server until a failover event occurs with the current working server. If you set the parameter between 1 and 59, the timeout will be 60 seconds. Note : It works only if "account.X.sip_server.Y.failback_mode" is set to 3 (duration).	
Permitted Values	0, Integer from 60 to 65535	
	3600	
Default	3600	

Description	It enables or disables the phone to retry to re-subscribe after registering to the secondary se scription different IP addresses when encountering a failover.	
	Note: It works only if "account.X.sip_server.Y.failback_mode" is set	to 1, 2 or 3.
Permitted Values	 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the secondary server, for ensuring the normal use of the features associated with the subscription (for example, BLF, SCA). 	
Default	0	
Parameter	sip.forbidden_failover_signal.list	<mac>.cfg</mac>
Description	It configures whether RTCP can perform the failover.	
	PUBLISH INFO	
Default	Null	

^[2]Y is the server ID. Y=1-2.

SIP Server Name Resolution

If a domain name is configured for a server, the IP address(es) associated with that domain name will be resolved through DNS as specified by RFC 3263. The DNS query involves NAPTR, SRV and A queries, which allows the IP phone to adapt to various deployment environments. The IP phone performs NAPTR query for the NAPTR pointer and transport protocol (UDP, TCP, and TLS), the SRV query on the record returned from the NAPTR for the target domain name and the port number, and the A query for the IP addresses.

If an explicit port (except 0) is specified, A query will be performed only. If a server port is set to 0 and the transport type is set to DNS NAPTR, NAPTR and SRV queries will be tried before falling to A query. If no port is found through the DNS query, 5060 will be used.

Topic

SIP Server Name Resolution Configuration

SIP Server Name Resolution Configuration

The following table lists the parameters you can use to configure the SIP server name resolution.

Parameter	account.X.sip_server.Y.transport_type ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the type of transport protocol.	
	0 -UDP	
De une litte el	1-TCP	
Permitted Values		
Default	0	
Web UI	Account > Register > SIP Server Y > Transport	
Handaat III	andset UI OK > Settings > Telephony > Server (default PIN: 0000) > Server Y > Transport	
nanuset of		
Parameter	account.X.naptr_build ^[1]	<mac>.cfg</mac>

Description	It configures the way of SRV query for the phone to be performed when no result is returned from t	
	NAPTR query.	
Permitted	0-SRV query using UDP only	
Values	1-SRV query using UDP, TCP, and TLS.	
Default	0	
Parameter	sip.dns_transport_type	<y000000000xx>.cfg</y000000000xx>
Description	It configures the transport protocol the phone uses	to perform a DNS query.
Permitted	0 -UDP	
Values	1-TCP	
Default	0	
Parameter	static.network.dns.query_timeout ^[3]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the interval (in seconds) at which the phone retries to resolve a domain name when the DNS server does not respond.	
Permitted Values	Integer from 0 to 65535	
Default	3	
Parameter	static.network.dns.retry_times ^[3]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the retry times when the DNS server does not respond.	
Permitted Values	Integer from 0 to 65535	
Default	2	

[2]Y is the server ID. Y=1-2.

^[3]If you change this parameter, the phone will reboot to make the change take effect.

Static DNS Cache

Failover redundancy can only be utilized when the configured domain name of the server is resolved to multiple IP addresses. If the IP phone is not configured with a DNS server, or the DNS query returns no result from a DNS server, you can statically configure a set of DNS NAPTR/SRV/A records into the IP phone. The phone will attempt to resolve the domain name of the SIP server with static DNS cache.

Support for negative caching of DNS queries as described in RFC 2308 is also provided to allow faster failover when prior DNS queries have returned no results from the DNS server.

Topics

Behave with a Configured DNS Server Static DNS Cache Configuration

Behave with a Configured DNS Server

When the phone is configured with a DNS server, it will behave as follows to resolve the domain name of the server:

- The phone performs a DNS query to resolve the domain name from the DNS server.
- If the DNS query returns no results for the domain name, or the returned record cannot be contacted, the values in the static DNS cache (if configured) are used when their configured time intervals are not elapsed.
- If the configured time interval is elapsed, the phone will attempt to perform a DNS query again.
- If the DNS query returns a result, the phone will use the returned record from the DNS server and ignore the statically configured cache values.

When the phone is not configured with a DNS server, it will behave as follows:

- The phone attempts to resolve the domain name within the static DNS cache.
- The phone will always use the results returned from the static DNS cache.

Static DNS Cache Configuration

The following table lists the parameters you can use to configure static DNS cache.

Parameter	account.X.dns_cache_type ^[1]	<mac>.cfg</mac>	
Description	It configures whether the phone uses the DNS cache for domain name resolution of the SIP server and caches the additional DNS records.		
	0-Perform real-time DNS query rather than using DNS cache.		
Permitted Values	1-Use DNS cache, but do not record the additional records.		
	2-Use DNS cache and cache the additional DNS records.		
Default	1		
Parameter	account.X.static_cache_pri ^[1]	<mac>.cfg</mac>	
Description	It configures whether preferentially to use the static server.	DNS cache for domain name resolution of the SIP	
Permitted	0-Use domain name resolution from server prefere	ntially	
Values	1-Use static DNS cache preferentially		
Default	0		
Parameter	dns_cache_naptr.X.name ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the domain name to which NAPTR rec	ord X refers.	
Permitted Values	Domain name		
Default	Blank		
Parameter	dns_cache_naptr.X.order ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the order of NAPTR record X.		
Description	NAPTR record with the lower order is more preferred.		
Permitted Values	Integer from 0 to 65535		
Default	0		
Parameter	dns_cache_naptr.X.preference ^[2] <y00000000xx>.cfg</y00000000xx>		
Deserintion	It configures the preference of NAPTR record X.		
Description	NAPTR record with lower preference is more preference	PTR record with lower preference is more preferred.	
Permitted Values	Integer from 0 to 65535		

Default	0	
Parameter	dns_cache_naptr.X.replace ^[2]	<y000000000xx>.cfg</y000000000xx>
Description	It configures a domain name to be used for the nex	t SRV query in NAPTR record X.
Permitted Values	Domain name	
Default	Blank	
Parameter	dns_cache_naptr.X.service ^[2]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the transport protocol available for the	SIP server in NAPTR record X.
De un itte d	SIP+D2U-SIP over UDP	
Permitted Values	SIP+D2T-SIP over TCP	
	SIPS+D2T-SIPS over TLS	
Default	Blank	
Parameter	dns_cache_naptr.X.ttl ^[2]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the time interval (in seconds) that NAF should be consulted again.	TR record X may be cached before the record
Permitted Values	Integer from 30 to 2147483647	
Default	300	
Parameter	dns_cache_srv.X.name ^[2]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the domain name in SRV record X.	
Permitted Values	Domain name	
Default	Blank	
Parameter	dns_cache_srv.X.port ^[2]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the port to be used in SRV record X.	
Permitted Values	Integer from 0 to 65535	
Default	0	
Parameter	dns_cache_srv.X.priority ^[2] <y00000000xx>.cfg</y00000000xx>	
Description	It configures the priority for the target host in SRV record X.	
	Lower priority is more preferred.	
Permitted Values	Integer from 0 to 65535	
Default	0	
Parameter	dns_cache_srv.X.target ^[2]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the domain name of the target host for an A query in SRV record X.	
Permitted Values	Domain name	

Default	Blank		
Parameter	dns_cache_srv.X.weight ^[2]	<y000000000xx>.cfg</y000000000xx>	
	It configures the weight of the target host in SRV record X.		
Description	When priorities are equal, weight is used to differentiate the preference. Higher weight is more pre- ferred.		
Permitted Values	Integer from 0 to 65535		
Default	0		
Parameter	dns_cache_srv.X.ttl ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the time interval (in seconds) that SRV be consulted again.	record X may be cached before the record should	
Permitted Values	Integer from 30 to 2147483647		
Default	300		
Parameter	dns_cache_a.X.name ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the domain name in A record X.		
Permitted Values	Domain name		
Default	Blank		
Parameter	dns_cache_a.X.ip ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the IP address that the domain name i	n A record X maps to.	
Permitted Values	IP address		
Default	Blank		
Parameter		<y000000000xx>.cfg</y000000000xx>	
Description	It configures the time interval (in seconds) that A re- consulted again.	cord X may be cached before the record should be	
Permitted Values	Integer from 30 to 2147483647		
Default	300		
Parameter	static.network.dns.ttl_enable ^[3]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to use TTL (Time To Live) in the A record.		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Parameter	static.network.dns.last_cache_expired	<y000000000xx>.cfg</y000000000xx>	
Description		It configures the validity period of the expired DNS cache. Note: It works only if "static.network.dns.last_cache_expired.enable" is set to 1 (Enabled).	
Permitted	Integer from 0 to 65535		
Values	0 -the expired DNS cache can only be used once. After using, the phone will perform a DNS query		

	again.		
	1 to 65535 -the phone will use the expired DNS cache during the specified period. After that, the phone will perform a DNS query again.		
Default	3600		
Parameter	static.network.dns.last_cache_expired.enable <y00000000xx>.cfg</y00000000xx>		
	It enables or disables the phone to use the DNS cache (even if the cache has expired) when the DNS server fails to resolve the domain name.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		

 $^{[2]}X$ is the record ID. X=1-12.

^[3]If you change this parameter, the phone will reboot to make the change take effect.

Number of Active Handsets

The W70B base station supports up to 10 handsets, and you can limit the max number of active handsets. The active handsets are free to communicate, access menu, configure features and so on. Operation is restricted on the inactive handsets, and the idle screen of the handset prompts "Path Busy".

The number of active handsets will also affect the number of simultaneous active calls on the base station.

Call Supported	Number of Active Handsets	Maximum Number of Sim- ultaneous Active Calls	Maximum Number of Sim- ultaneous Calls
Wide-band Calls	5	10	10 (for opus) 20 (for other codecs)
Narrow-band Calls	10	10 (for opus) 20 (for other codecs)	10 (for opus) 20 (for other codecs)

Related Topics

Number of Simultaneous Outgoing Calls Number of Active Handsets Configuration

Number of Active Handsets Configuration

The following table lists the parameter you can use to configure the number of active handsets.

Parameter	base.active_handset.number ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the maximum number of active handsets.		
Permitted Values	5,10		
Default	5		
Web UI	Features > General Information > Number Of Active Handsets		

^[1]If you change this parameter, the phone will reboot to make the change take effect.

Number of Simultaneous Outgoing Calls

Number of simultaneous outgoing calls allows you to configure the max number of simultaneous outgoing calls for a specific account on a base.

The number of active handsets affects this feature.

Related Topics

Number of Active Handsets Number of Simultaneous Outgoing Calls Configuration

Number of Simultaneous Outgoing Calls Configuration

The following table lists the parameter you can use to configure the number of simultaneous outgoing calls.

Parameter	account.X.simultaneous_outgoing.num ^[1]	<mac>.cfg</mac>	
Description	It configures the max number of simultaneous outgoing calls for a specific account on a base station. Note: You should set the value of this parameter lower than or equal to "base.active_hand- set.number".		
Permitted Values	Integer from 1 to 10		
Default	10		
Web UI	Account > Advanced > Number Of Simultaneous O	utgoing Calls	

^[1]X is the account ID. X=1-10.

Number Assignment

After the handset is registered to the base station, you can assign one or more outgoing lines or incoming lines for the handset. The phone acts as the Handset 1 (Corded phone).

The handset can only use the assigned outgoing line(s) to place calls. When multiple outgoing lines are assigned to the handset, the handset uses the first line as the default outgoing line. You can change the default outgoing line of the handset.

The handset can only receive incoming calls via the assigned incoming line(s). You can assign incoming lines to all handsets that are registered to the same base station.

Note: You can only assign one outgoing line and one incoming line for the CP930W. And make sure that the outgoing line and the incoming line are the same line.

Topic

Number Assignment Configuration

Number Assignment Configuration

The following table lists the parameters you can use to assign lines.

Parameter	handset.X.incoming_lines ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the lines to receive incoming calls for a specific handset.	
	1-Line 1	
Permitted 2-Line 2		
Values	3 -Line 3	
	4 -Line 4	

	5-Line 5		
	6-Line 6		
	7-Line 7		
	8-Line 8 9-Line 9		
	10-Line 10		
	Multiple line IDs are separated by commas.		
	The incoming line for DECT phone is line 1- line 10.		
	The incoming line for handset 1 is line 1.		
	The incoming line for handset 2 is line 2.		
	The incoming line for handset 3 is line 3.		
	The incoming line for handset 4 is line 4.		
Default	The incoming line for handset 5 is line 5.		
	The incoming line for handset 6 is line 6.		
	The incoming line for handset 7 is line 7.		
	The incoming line for handset 8 is line 8.		
	The incoming line for handset 9 is line 9.		
	The incoming line for handset 10 is line 10.		
Web UI	Account > Number Assignment > Incoming lines		
	W78H/W73H/W59R/W57R/W53H/W56H:		
Handset UI	OK > Settings > Telephony > Incoming Lines (Default PIN:0000) > Handset X ^[1]		
nandset of	DD Phone:		
	Menu > Advanced Settings (default password: 0000) > Incoming Lines		
Parameter	handset.X.dial_out_lines ^[1] <y00000000xx>.cfg</y00000000xx>		
Description	It configures the lines to place outgoing calls for a specific handset.		
	Multiple line IDs are separated by commas. 1-Line 1		
	2-Line 2		
	3 -Line 3		
	4 -Line 4		
	5 -Line 5		
Value			
raidee	6-Line 6		
	7-Line 7		
	8-Line 8		
	8-Line 8 9-Line 9		

i lanuset UI	OK > Settings > Telephony > Default Line		
Handset UI	W78H/W73H/W59R/W57R/W53H/W56H:		
Web UI	Account > Number Assignment > Outgoing lines > I	Account > Number Assignment > Outgoing lines > Default	
Supported Devices	All handsets except CP930W		
Default	x		
Permitted Values	Integer from 1 to 10		
Description	It configures the default line to place outgoing calls	for a specific handset.	
Parameter	handset.X.dial_out_default_line ^[1]	<y000000000xx>.cfg</y000000000xx>	
Web UI	Account > Number Assignment > Outgoing lines		
	The outgoing line for handset 10 is line 10.		
	The outgoing line for handset 9 is line 9.		
	The outgoing line for handset 8 is line 8.		
	The outgoing line for handset 7 is line 7.		
	The outgoing line for handset 6 is line 6.		
	The outgoing line for handset 5 is line 5.		
	The outgoing line for handset 4 is line 4.		
	The outgoing line for handset 3 is line 3.		
	The outgoing line for handset 2 is line 2.		

[1]X is the handset ID. X=1-10.

Note: CP930W is a conference device, you can only assign one outgoing line and one incoming line for the CP930W. And make sure that the outgoing line and the incoming line are the same line.

Directory

The Yealink IP phone provides several types of phone directories.

Topics

Local Directory Lightweight Directory Access Protocol (LDAP) Remote Phone Book Shared Directory XML Phonebook Directory Search Settings Number Matching Settings

Local Directory

Yealink phones maintain a local directory that you can use to store contacts. You can store up to 100 contacts per handset, each with a name, a mobile number, and an office number.

Contacts and groups can be added either one by one or in batch using a local contact file. Yealink phones support both *.xml and *.csv format contact files, but you can only customize the *.xml format contact file.

Topics

Local Contact File Customization Local Contact Files and Resource Upload

Local Contact File Customization

You can ask the distributor or Yealink FAE for local contact template. You can also obtain the local contact template online: http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

Topics

Local Contact File Elements and Attributes Customizing Local Contact File Example: Using EDK Macro Strings as the Contact Number

Local Contact File Elements and Attributes

The following table lists the elements and attributes you can use to add groups or contacts in the local contact file. We recommend that you do not edit these elements and attributes.

Elements	Attributes	Description
		Specify the contact name.
		For example Jim
	display_name	Some characters (for example, ") are key syntax markers and may never appear in the content. Non-standard name formats may cause XML pars- ing to fail. You can use the escape sequence instead.
Contact		Error: display_name="Hurrell <mark>"&"</mark> Mclean"
		Correct 1: display_name="Hurrell <mark>&</mark> Mclean"
		Correct 2: display_name="Hurrell <mark>&</mark> Mclean"
		Note: The contact name cannot be blank.
	office_number	Specify the office number

Elements	Attributes	Description
	mobile_number	Specify the mobile number.
	other_number	Specify the other number

Customizing Local Contact File

- 1. Open the local contact file.
- To add a contact, add <contact display_name="" office_number="" mobile_number="" other_number=""/> to the file. Each starts on a new line.
- 3. Specify the values within double quotes.
 - For example:

<contact display_name="Lily"office_number="1020" mobile_number="1021" other_number="1112"/>

<contact display_name="Tom" office_number="2020" mobile_number="2021" other_number="2112"/>

4. Save the changes and place this file to the provisioning server.

Local Contact Files and Resource Upload

You can upload local contact files to add multiple contacts at a time.

The following table lists the parameter you can use to upload the local contact files.

Parameter	handset.X.contact_list.url ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the access URL of the contact file of a specific handset.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Directory > Local Directory > Import Contacts > Import to (Handset X)	

^[1]X is the handset ID. X=1-10.

Lightweight Directory Access Protocol (LDAP)

LDAP is an application protocol for accessing and maintaining information services for the distributed directory over an IP network. You can configure the phones to interface with a corporate directory server that supports LDAP version 2 or 3. The following LDAP servers are supported:

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

For more information on LDAP, refer to LDAP Directory on Yealink IP Phones.

Topics

LDAP Attributes LDAP Configuration Handset LDAP Configuration

LDAP Attributes

The following table lists the most common attributes used to configure the LDAP lookup on the phones.

Abbreviation	Name	Description
gn	givenName	First name
cn	commonName	LDAP attribute is made up from given name joined to surname.
sn	surname	Last name or family name
dn	distinguishedName	Unique identifier for each entry
dc	dc	Domain component
-	company	Company or organization name
-	telephoneNumber	Office phone number
mobile	mobilephoneNumber	Mobile or cellular phone number
ipPhone	IPphoneNumber	Home phone number

LDAP Configuration

The following table lists the parameters you can use to configure LDAP for all handsets.

Parameter	Idap.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the LDAP feature.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Directory > LDAP > All handsets > Enable LDAP		
Parameter	ldap.name_filter	<y000000000xx>.cfg</y000000000xx>	
	It configures the search criteria for LDAP contact na	ames lookup.	
	The "*" symbol in the filter stands for any character. The "%" symbol in the filter stands for the name entered by the user.		
	Example:		
	ldap.name_filter = ((cn=%)(sn=%))		
	When the cn or sn of the LDAP contact matches the entered name, the record will be displayed on the phone screen.		
	ldap.name_filter = (&(cn=*)(sn=%))		
	When the cn of the LDAP contact is set and the sn of the LDAP contact matches the ente records will be displayed on the phone screen.		
	dap.name_filter = (!(cn=%))		
	When the cn of the LDAP contact does not match the entered name, the records will be displayed on the phone screen.		
Permitted Values	String within 512 characters		
Default	Blank		
Web UI	Directory > LDAP > All handsets > LDAP Name Filter		

Parameter	ldap.number_filter	<y000000000xx>.cfg</y000000000xx>	
	It configures the search criteria for LDAP contact nu	imbers lookup.	
	The "*" symbol in the filter stands for any number. The "%" symbol in the filter stands for the number entered by the user.		
	Example:		
	ldap.number_filter = ((telephoneNumber=%)(mobile=%)(ipPhone=%))		
	When the number of the telephoneNumber, mobile search criteria, the record will be displayed on the p		
	ldap.number_filter = (&(telephoneNumber=*)(mobi	le=%))	
	When the telephoneNumber of the LDAP contact is the entered number, the record will be displayed or		
Permitted Values	String within 512 characters		
Default	Blank		
Web UI	Directory > LDAP >All handsets > LDAP Number Filter		
Parameter	ldap.tls_mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the connection mode between the LDAP server and the phone.		
	0 -LDAP—The unencrypted connection between the LDAP server and the IP phone (port 38 by default).		
	1-LDAP TLS Start—The TLS/SSL connection between the LDAP server and the IP phone (port 389 is used by default).		
	2-LDAPs—The TLS/SSL connection between the LDAP server and the IP phone (port 636 is used by default).		
Default	0		
Web UI	Directory > LDAP > All handsets > LDAP TLS Mode		
Parameter	ldap.host	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the IP address or domain name of the LDAP server.		
Permitted Values	IP address or domain name		
Default	Blank		
Web UI	Directory > LDAP > All handsets > LDAP Server Address		
Parameter	ldap.port	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the port of the LDAP server.		
Permitted Values	Integer from 1 to 65535		
Default	389 (LDAPS: 636)		
Web UI	Directory > LDAP > All handsets > Port		
Parameter	ldap.base	<y000000000xx>.cfg</y000000000xx>	

	which the LDAP search request begins. The search	base narrows the search scope and decreases	
	directory search time.		
	Example:		
	ldap.base = dc=yealink,dc=cn		
Permitted Values	String within 512 characters		
Default	Blank		
Web UI	Directory > LDAP > All handsets > LDAP Base		
Parameter	ldap.user <y000000000xx>.cfg</y000000000xx>		
	It configures the user name used to log into the LDAP server.		
Description	This parameter can be left blank in case the server allows anonymity to log into. Otherwise, you will need to provide the user name to log into the LDAP server.		
	Example:		
	ldap.user = cn=manager,dc=yealink,dc=cn		
Permitted Values	String within 512 characters		
Default	Blank		
Web UI	Directory > LDAP > All handsets > LDAP Username		
Parameter	Idap.password	<y000000000xx>.cfg</y000000000xx>	
	It configures the password to log into the LDAP server.		
Description	This parameter can be left blank in case the server allows anonymous to log into. Otherwise, you will need to provide the password to log into the LDAP server.		
Permitted Values	String within 512 characters		
Default	Blank		
Web UI	Directory > LDAP > All handsets > LDAP Password	I	
Parameter	Idap.max_hits <y00000000xx>.cfg</y00000000xx>		
Description	It configures the maximum number of search results to be returned by the LDAP server.		
Permitted	Integer from 1 to 1000		
Values			
values	50		
values	-	0)	
Values Default Web UI	50	0) <y000000000xx>.cfg</y000000000xx>	
Values Default Web UI	50 Directory > LDAP > All handsets > Max Hits (1~100	<pre><y000000000xx>.cfg pe returned by the LDAP server. It compresses the</y000000000xx></pre>	
Values Default Web UI Parameter	50 Directory > LDAP > All handsets > Max Hits (1~100 Idap.name_attr It configures the name attributes of each record to b search results. You can configure multiple name at	<pre><y000000000xx>.cfg pe returned by the LDAP server. It compresses the</y000000000xx></pre>	
Values Default Web UI Parameter Description	50 Directory > LDAP > All handsets > Max Hits (1~100 Idap.name_attr It configures the name attributes of each record to b search results. You can configure multiple name at	<pre><y000000000xx>.cfg pe returned by the LDAP server. It compresses the</y000000000xx></pre>	
Values Default Web UI Parameter Description	50 Directory > LDAP > All handsets > Max Hits (1~100 Idap.name_attr It configures the name attributes of each record to b search results. You can configure multiple name at Example :	<pre></pre> <e by="" compresses="" it="" ldap="" returned="" separated="" server.="" spaces.<="" th="" the="" tributes=""></e>	

Default	Blank				
Web UI	Directory > LDAP > All handsets > LDAP Name Attributes				
Parameter	-	dap.numb_attr <y00000000xx>.cfg</y00000000xx>			
	It configures the number attributes of each record to				
	Multiple number attributes are separated by spaces.				
Description					
	ldap.numb_attr = mobile ipPhone				
	This requires the "mobile" and "ipPhone" attributes set for each contact record on the LDAP server.				
Permitted Values	String within 512 characters				
Default	Blank				
Web UI	Directory > LDAP > All handsets > LDAP Number Attributes				
Parameter	dap.display_name <y00000000xx>.cfg</y00000000xx>				
	It configures the display name of the contact record displayed on the phone screen.				
	The value must start with a "%" symbol.				
Description	on Example:				
	ldap.display_name = %cn				
	The cn of the contact record is displayed on the phone screen.				
Permitted Values	String within 99 characters				
Default	Blank				
Web UI	Directory > LDAP > All handsets > LDAP Display N	ame			
Parameter	Idap.version	<y000000000xx>.cfg</y000000000xx>			
Description	It configures the LDAP protocol version supported by the IP phone. The version must be the same as the version assigned on the LDAP server.				
Permitted Values	2 or 3				
Default	3				
Web UI	Directory > LDAP > All handsets > Protocol				
Parameter	ldap.call_in_lookup <y00000000xx>.cfg</y00000000xx>				
Description	It enables or disables the phone to perform an LDA	P search when receiving an incoming call.			
Permitted Values	0-Disabled 1-Enabled				
Default	0				
Web UI	Directory > LDAP > All handsets > LDAP Lookup fo	r Incoming Call			
Parameter	ldap.call_out_lookup	<y00000000xx>.cfg</y00000000xx>			
Description	It enables or disables the phone to perform an LDAP search when placing a call.				
Permitted	0-Disabled				

Values	1-Enabled		
Default	1		
Web UI	 Directory > LDAP > All handsets > LDAP Lookup fo	r Callout	
Parameter	ldap.ldap_sort <y00000000xx>.cfg</y00000000xx>		
Description	It enables or disables the phone to sort the search	results in alphabetical order or numerical order.	
	0-Disabled 1-Enabled		
Default	0		
Web UI	Directory > LDAP > All handsets > LDAP Sorting Results		
Parameter	ldap.incoming_call_special_search.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to search the telephone numbers starting with "+" symbol a from the LDAP server if the incoming phone number starts with"+" or "00". When completing search, all the search results will be displayed on the phone screen.		
	Example:		
•	If the phone receives an incoming call from the phone number 0044123456789, it will search 0044123456789 from the LDAP server first, if no result found, it will search +44123456789 from the server again. The phone will display all the search results.		
	Note : It works only if "Idap.call_in_lookup" is set to ter" to be ((cn=%)(sn=%)(telephoneNumber=%)(m starting with "+" symbol.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	ldap.customize_label	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the display name of the LDAP phone book. If it is left blank, LDAP is displayed.		
Permitted	Note: It works only if "Idap.enable" is set to 1 (Enabled). String within 512 characters		
Default	Blank		
Web UI	Directory > LDAP > All handsets > LDAP Label		
Parameter	Idap.search_scope	<y000000000xx>.cfg</y000000000xx>	
Description	It controls the search scope when searching for LDAP contact.		
	sub-A recursive search of all levels below the base	domain name is performed.	
Permitted Values	one-A search of one level below the base domain name is performed.		
	base-A search at the base domain name level is performed.		
Default	sub		

Handset LDAP Configuration

The following table lists the parameters you can use to configure LDAP for each handsets.

Deveneter	handset.X.Idap.enable ^[1]		
		<mac>.cfg</mac>	
-	It enables or disables the LDAP feature.		
	0 -Disabled 1 -Enabled		
Default	0		
Web UI	Directory > LDAP > Handset X > Enable LDAP		
Parameter	handset.X.ldap.name_filter ^[1] <mac>.cfg</mac>		
	It configures the search criteria for LDAP contact names lookup.		
	The "*" symbol in the filter stands for any character. The "%" symbol in the filter stands for the name entered by the user.		
	Example:		
	ldap.name_filter = ((cn=%)(sn=%))		
	When the cn or sn of the LDAP contact matches the entered name, the record will be displayed on the phone screen.		
	ldap.name_filter = (&(cn=*)(sn=%))		
	When the cn of the LDAP contact is set and the sn of the LDAP contact matches the entered name, the records will be displayed on the phone screen.		
	ldap.name_filter = (!(cn=%))		
	When the cn of the LDAP contact does not match the entered name, the records will be displayed on the phone screen.		
Permitted Values	String within 512 characters		
Default	Blank		
Web UI	Directory > LDAP > Handset X > LDAP Name Filter		
Parameter	handset.X.Idap.number_filter ^[1]	<mac>.cfg</mac>	
	It configures the search criteria for LDAP contact numbers lookup.		
	The "*" symbol in the filter stands for any number. The "%" symbol in the filter stands for the number entered by the user.		
	Example:		
Description	ldap.number_filter = ((telephoneNumber=%)(mobile=%)(ipPhone=%))		
	When the number of the telephoneNumber, mobile or ipPhone of the contact record matches the search criteria, the record will be displayed on the phone screen.		
	ldap.number_filter = (&(telephoneNumber=*)(mobile=%))		
	When the telephoneNumber of the LDAP contact is set and the mobile of the LDAP contact matches the entered number, the record will be displayed on the phone screen.		
Permitted Values	String within 512 characters		
	Blank		
Web UI	Directory > LDAP > Handset X > LDAP Number Filter		
Parameter	handset.X.Idap.tls_mode ^[1]	<mac>.cfg</mac>	

Description	It configures the connection mode between the LDAP server and the phone.		
-	0-LDAP—The unencrypted connection between the LDAP server and the IP phone (port 389 is used		
	by default). 1-LDAP TLS Start—The TLS/SSL connection between the LDAP server and the IP phone (port 389 used by default).		
	2 -LDAPs—The TLS/SSL connection between the LDAP server and the IP phone (port 636 is used by default).		
Default	0		
Web UI	Directory > LDAP > Handset X > LDAP TLS Mode		
Parameter	handset.X.Idap.host ^[1]	<mac>.cfg</mac>	
Description	It configures the IP address or domain name of the LDAP server.		
Permitted Values	IP address or domain name		
Default	Blank		
Web UI	Directory > LDAP > Handset X > Server Address		
Parameter	handset.X.Idap.port ^[1]	<mac>.cfg</mac>	
Description	It configures the port of the LDAP server.		
Permitted Values	Integer from 1 to 65535		
Default	389 (LDAPS: 636)		
Web UI	Directory > LDAP > Handset X > Port		
Parameter	handset.X.Idap.base ^[1]	<mac>.cfg</mac>	
	It configures the LDAP search base which corresponds to the location of the LDAP phonebook from which the LDAP search request begins. The search base narrows the search scope and decreases directory search time.		
	Example:		
	ldap.base = dc=yealink,dc=cn		
Permitted Values	String within 512 characters		
Default	Blank		
Web UI	Directory > LDAP > Handset X > Base		
Parameter	handset.X.Idap.user ^[1]	<mac>.cfg</mac>	
	It configures the user name used to log into the LDAP server.		
Description	This parameter can be left blank in case the server allows anonymity to log into. Otherwise, you will need to provide the user name to log into the LDAP server.		
Example:			
	ldap.user = cn=manager,dc=yealink,dc=cn		
Permitted Values	String within 512 characters		

Default	Blank		
Web UI	Directory > LDAP > Handset X > User Name		
Parameter	handset.X.Idap.password ^[1]	<mac>.cfg</mac>	
	It configures the password to log into the LDAP server.		
Description	This parameter can be left blank in case the server allows anonymous to log into. Otherwise, you will need to provide the password to log into the LDAP server.		
Permitted Values	String within 512 characters		
Default	Blank		
Web UI	Directory > LDAP > Handset X > Password		
Parameter	handset.X.Idap.max_hits ^[1]	<mac>.cfg</mac>	
Description	It configures the maximum number of search results to be returned by the LDAP server.		
Permitted Values	Integer from 1 to 1000		
Default	50		
Web UI	Directory > LDAP > Handset X > Max Hits (1~1000)		
Parameter	handset.X.Idap.name_attr ^[1]	<mac>.cfg</mac>	
	It configures the name attributes of each record to be returned by the LDAP server. It compr search results. You can configure multiple name attributes separated by spaces.		
Description	Example:		
	ldap.name_attr = cn sn		
n	This requires the "cn" and "sn" attributes set for each contact record on the LDA	P server.	
Permitted Values	String within 512 characters		
Default	Blank		
Web UI	Directory > LDAP > Handset X > LDAP Name Attributes		
Parameter	handset.X.ldap.numb_attr ^[1]	<mac>.cfg</mac>	
	It configures the number attributes of each record to be returned by the LDAP server. It compresses the search results. You can configure multiple number attributes separated by spaces. Description		
Description			
	ldap.numb_attr = mobile ipPhone		
	This requires the "mobile" and "ipPhone" attributes set for each contact record on the LDAP server.		
Permitted Values	String within 512 characters		
Default	Blank		
Web UI	Directory > LDAP > Handset X > LDAP Number Attributes		
Parameter	handset.X.Idap.display_name ^[1]	<mac>.cfg</mac>	
Description	It configures the display name of the contact record displayed on the phone scr	een.	
	The value must start with a "%" symbol.		

	Evennle:	
	ldap.display_name = %cn	
Permitted	The cn of the contact record is displayed on the phone screen.	
Values	String within 512 characters	
Default	Blank	
Web UI	Directory > LDAP > Handset X > LDAP Display Name	
Parameter	handset.X.Idap.version ^[1]	<mac>.cfg</mac>
Description	It configures the LDAP protocol version supported by the IP phone. The version must be the same as the version assigned on the LDAP server.	
Permitted Values	2 or 3	
Default	3	
Web UI	Directory > LDAP > Handset X > Protocol	
Parameter	handset.X.ldap.call_in_lookup ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to perform an LDAP search when receiving an incoming call.	
	0-Disabled 1-Enabled	
Default	0	
Web UI	Directory > LDAP > Handset X > LDAP Lookup for Incoming Call	
Parameter	handset.X.ldap.call_out_lookup ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to perform an LDAP search when placing a call.	
	0-Disabled 1-Enabled	
Default	1	
Web UI	Directory > LDAP > Handset X > LDAP Lookup for Callout	
Parameter	handset.X.Idap.Idap_sort ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to sort the search results in alphabetical order or numerical order.	
	0-Disabled 1-Enabled	
	0	
Web UI	Directory > LDAP > Handset X > LDAP Sorting Results	
Parameter	handset.X.ldap.incoming_call_special_search.enable ^[1]	<mac>.cfg</mac>
	It enables or disables the phone to search the telephone numbers starting with from the LDAP server if the incoming phone number starts with"+" or "00". Wher search, all the search results will be displayed on the phone screen.	
Description	Example:	
	If the phone receives an incoming call from the phone number 0044123456789 0044123456789 from the LDAP server first, if no result found, it will search +44	

	server again. The phone will display all the search results.	
	Note : It works only if "Idap.call_in_lookup" is set to 1 (Enabled). You may need to set "Idap.name_filter" to be ((cn=%)(sn=%)(telephoneNumber=%)(mobile=%)) for searching the telephone numbers starting with "+" symbol.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	

^[1]X is the account ID. X=1-10.

Remote Phone Book

The remote phone book is a centrally maintained phone book, stored on the remote server. Users only need the access URL of the remote phone book. The IP phone can establish a connection with the remote server and download the phone book, and then display the remote phone book entries on the phone.

Yealink phones support up to 5 remote phone books. The remote phone book is customizable.

Topics

Remote Phone Book File Customization Remote Phone Book Configuration Example: Configuring a Remote Phone Book

Remote Phone Book File Customization

Yealink phones support remote phone book contact customization.

You can add multiple contacts at a time and/or share contacts between the phones using the supplied template files (Menu.xml and Department.xml).

You can ask the distributor or Yealink FAE for remote phone book template. You can also obtain the remote phone book template online: http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

Topics

Remote Phone Book File Elements Customizing Remote Phone Book File

Remote Phone Book File Elements

Yealink phones support two template files: Menu.xml and Department.xml.

The Menu.xml file defines the group/department of a remote phone book. The Department.xml file defines contact lists for a department/group, which is nested in Menu.xml file.

The following table lists the elements you can use to add groups or contacts in the remote phone book file. We recommend that you do not edit these elements.

Template	Element	Valid Values
Department.xml	<directoryentry> <name> Contact Name</name> <telephone> Contact Number</telephone> <directoryentry></directoryentry></directoryentry>	Add a contact in a depart- ment/group: Specify the contact name between <name> and </name> ; Specify the contact number between <telephone> andphone ></telephone>
Menu.xml	<menilitem></menilitem>	Add a contact department/group file:

Template	Element	Valid Values
	<name>Department</name> <url>Department URI</url> 	Specify the department/group name between <name> and </name> ; Specify the department/group access URL between <url> and</url>
	<softkeyitem></softkeyitem>	Specify a department/group file for a key:
	<name>#</name> <url>http://10.2.9.1:99/Department.xml</url> 	Specify *key, # key or digit key between <name> and </name> ; Specify the department/group access URL between <url> and</url>

Customizing Remote Phone Book File

1. Add contacts in a Department.xml file. Each starts on a new line.

```
For example, <br/>
```

<Name>Lily</Name> <Telephone>123456</Telephone>

</DirectoryEntry> <DirectoryEntry>

> <Name>Jim</Name> <Telephone>654321</Telephone>

</DirectoryEntry>

- 2. You can create multiple department.xml files, rename these files and specify multiple contacts in these files. For example, Market.xml with contact Lily and Jim, Propaganda.xml with other contacts and so on.
- 3. Save these files and place them on the provisioning server.
- 4. Copy the department files URLs and specify them in the Menu.xml file.

For example, <Menultem>

```
<Name > Market</Name>
<URL > http://192.168.0.1:99/Market.xml</URL>
```

```
</MenuItem>
<SoftKeyItem>
```

<Name>1</Name> <URL>http://192.168.0.1:99/Propaganda.xml</URL>

</SoftKeyItem>

5. Save Menu.xml file and place it to the provisioning server.

Remote Phone Book Configuration

The following table lists the parameters you can use to configure the remote phone book.

Parameter	remote_phonebook.data.X.url ^[1]	<y000000000xx>.cfg</y000000000xx>
-----------	--	-----------------------------------

Description	It configures the access URL of the remote phone book. Note: The size of a remote phone book file should be less than 1.5M.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Directory > Remote Phone Book > Remote URL	
Parameter	remote_phonebook.data.X.name ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the display name of the remote phone book item.	
Permitted Values	String within 99 characters	
Default	Blank	
Web UI	Directory > Remote Phone Book > Display Name	
Parameter	remote_phonebook.data.X.username ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the user name used to access the remote phone book X.	
Permitted Values	String	
Default	Blank	
Parameter	remote_phonebook.data.X.password ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the password used to access the remote phone book X.	
Permitted Values	String	
Default	Blank	
Parameter	remote_phonebook.display_name	<y0000000000xx>.cfg</y0000000000xx>
Description	It configures the display name of the remote phone book.	
-	If it is left blank, "Remote Phone Book" will be the display name.	
Permitted Values	String within 99 characters	
Default	Blank	
Parameter	features.remote_phonebook.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the phone to perform a remote phone book search for an incoming or outgoing call and display the matched results on the phone screen.	
	0-Disabled 1-Enabled	
Default	0	
Web UI	Directory > Remote Phone Book > Incoming/Outgoing Call Lookup	
Parameter	features.remote_phonebook.flash_time	<y000000000xx>.cfg</y000000000xx>
Description	It configures how often to refresh the local cache of the remote phone I If it is set to 3600, the phone will refresh the local cache of the remote p	
-	seconds (1 hour).	Shoho book every 0000

	If it is set to 0, the phone will not refresh the local cache of the remote phone book.	
Permitted Values	0, Integer from 3600 to 1296000	
Default	21600	
Web UI	Directory > Remote Phone Book > Update Time Interval(Seconds)	
Parameter	remote_phonebook.assignment.enable	<y000000000xx>.cfg</y000000000xx>
Description	It configures whether the remote phone book can be allocated.	
Permitted	0-Disabled	
Values	ues 1-Enabled	
Default	0	
Parameter	handset.X.remote_phonebook_access ^[2]	<mac>.cfg</mac>
	It sets the remote phonebook that handset can access.	
Description Multiple values are separated by commas.		
	Note: It works only if "remote_phonebook.assignment.enable" is set to 1.	
Permitted Values	Integer from 1 to 10	
Default	x	

[1]X is the phone book ID. X=1-10.

^[2]X is the handset ID. X=1-10.

Example: Configuring a Remote Phone Book

The following example shows the configuration for the remote phone book.

Customize the "Department.xml "and "Menu.xml" files, and then place these files to the provisioning server "http://192.168.10.25".

Example

remote_phonebook.data.1.url = http://192.168.10.25/Menu.xml

remote_phonebook.data.1.name = Yealink

remote_phonebook.data.2.url = http://192.168.10.25/Market.xml

remote_phonebook.data.2.name = Market

After provision, you can go to **OK** > **Directory** > **Remote Phone Book** for W73P/W76P/W79P/W53H or go to **Menu** > **Directory** > **Remote Phone Book** for CP930W-Base/DD phones, or go to **Directory** > **Remote Phone Book** for CP935W-Base to access the corporate directory.

Shared Directory

Users can manage contacts and use them in all handsets that are registered on the same base station.

The shared directory can store up to 100 contacts.

It is not applicable to DD phones.

Topics

Shared Directory Configuration Shared Contact File Customization

Shared Directory Configuration

The following table lists the parameters you can use to configure the shared directory.

Parameter	static.directory_setting.shared_contact.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the Shared Directory feature.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	All phones except DD phones		
Parameter	shared_contact_list.url <y00000000xx>.cfg</y00000000xx>		
	It configures the access URL of the shared contact file (*.xml) of the handsets.		
Description	Example:		
	shared_contact_list.url = http://192.168.10.25/contact.xml		
	Note: It works only if "static.directory_setting.shared_contact.enable" is set to 1 (Enabled).		
Permitted Values	URL within 511 characters		
Default	Blank		
Supported Devices	All phones except DD phones		
Web UI	Directory > DECT Directory > Import Contacts > Import to (Shared Directory) > Select .xml file form		

Shared Contact File Customization

You can customize the shared contacts using local contact template.

You can ask the distributor or Yealink FAE for local contact template. You can also obtain the template online: http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

Topics

Shared Contact File Elements and Attributes Customizing Shared Contact File

Shared Contact File Elements and Attributes

The following table lists the elements and attributes you can use to add contacts in the shared contact file. We recommend that you do not edit these elements and attributes.

Elements	Attributes	Description
	display name	Specify the contact name.
		Note: The contact name cannot be blank or duplicated.
Contact	office_number	Specify the office number.
	mobile_number	Specify the mobile number.
	other_number	Specify the other number.

Customizing Shared Contact File

- 1. Open the shared contact file.
- To add a contact, add <contact display_name="" office_number="" mobile_number="" other_number=""/> to the file. Each starts on a new line.
- 3. Specify the values within double quotes.
 - For example:

<contact display_name="Lily"office_number="1020" mobile_number="1021" other_number="1112"/>

- <contact display_name="Tom" office_number="2020" mobile_number="2021" other_number="2112"/>
- 4. Save the changes and place this file to the provisioning server.

XML Phonebook

You can get contacts by searching an XML phonebook in real time.

Topics

XML Phonebook Configuration

Handset XML Phonebook Configuration

XML Phonebook Configuration

The following table lists the parameters you can use to configure the XML phonebook.

Parameter	xml_phonebook.data.X.url ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the requested URL of the XML phonebook.		
· ·	Note: The contacts in the XML phonebook are all in the first level, and any nesting is not allowed.		
Permitted Values	String within 512 characters		
Default	Blank		
Parameter	xml_phonebook.data.X.name ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the name of the XML phonebook to be displayed	d on the handset.	
-	lf it is left blank, XML Dir x is displayed.		
Permitted Values	String within 64 characters		
Default	Blank		
Parameter	xml_phonebook.data.X.username ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the authentication user name to request the XML phonebook.		
Permitted Values	String within 64 characters		
Default	Blank		
Parameter	xml_phonebook.data.X.password ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the authentication password to request the XML phonebook.		
Permitted Values	String within 64 characters		

Default	Blank	
Parameter	xml_phonebook.data.max_hits	
Description	It configures the maximum number of contacts returned by the server when you perform a XML phone- book search. Note : Contacts with multiple numbers are counted as only one contact.	
Permitted Values	Integer from 1 to 800	
Default	50	

^[1]X is the XML phonebook ID. X=1-10.

Handset XML Phonebook Configuration

The following table lists the parameters you can use to configure the XML phonebook for each handsets.

Parameter	handset.X.xml_phonebook.data.url ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the requested URL of the XML phonebook.		
Description	Note: The contacts in the XML phonebook are all in the first level, and any nesting is not allowed.		
Permitted Values	String within 512 characters		
Default	Blank		
Parameter	handset.X.xml_phonebook.data.name ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the name of the XML phonebook to be displayed	d on the handset.	
Description	lf it is left blank, XML Dir x is displayed.		
Permitted Values	String within 64 characters		
Default	Blank		
Parameter	handset.X.xml_phonebook.data.username ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the authentication user name to request the XML phonebook.		
Permitted Values	String within 64 characters		
Default	Blank		
Parameter	handset.X.xml_phonebook.data.password ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the authentication password to request the XML phonebook.		
Permitted Values	String within 64 characters		
Default	Blank		

^[1]X is the handset ID. X=1-10.

Directory Search Settings

You can configure how the phones search contacts.

Topic

Directory Search Settings Configuration

Directory Search Settings Configuration

The following table lists the parameter you can use to configure directory search settings.

Parameter	directory.search_type	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the search type when searching the contact in Local Directory, Remote Phone Book, Net- work Directory or Blocklist.		
Permitted Values	 0-Approximate string matching, the phone will search the contact numbers or names contain the entered character(s). 1-Prefix matching, the phone will search the contact numbers or names start with the entered character(s). 		
Default	0		
Parameter	directory.containing_search.additional_sorting_mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the sorting mode in the search results. Note : It works only if "directory.search_type" is set to 0 (Approximate string matching).		
Permitted Values	 0-Sort by ASCII code order. 1-The contacts starting with the searched content are displayed first, and the remaining contacts are displayed in the ASCII code order. 		
Default	0		

Number Matching Settings

You can configure the pattern to match the contact numbers with the caller's phone number.

Topics

Number Matching Settings Configuration

Number Matching Settings Configuration

The following table lists the parameters you can use to configure number matching settings.

Parameter	phone_setting.reverse_lookup.contact_list.replace.pattern	<y000000000xx>.cfg</y000000000xx>
Description	It configures the matching pattern used to identify the replaced string of the contact number.	
Permitted Values	Regular Expression	
Default	Blank	
Related Parameters	phone_setting.reverse_lookup.contact_list.replace.with	
Parameter	phone_setting.reverse_lookup.contact_list.replace.with <y000000000xx>.c</y000000000xx>	
Description	It configures the string used to replace the certain matched one of the contact number.	
Permitted Values	String within 512 characters	

Default	Blank	
Delault	Diank	
Related Parameters	phone_setting.reverse_lookup.contact_list.replace.pattern	
Parameter	phone_setting.reverse_lookup.incoming_call.replace.pattern	
Description	It configures the matching pattern used to identify the replaced string of the caller's phone number.	
Permitted Values	Regular Expression	
Default	Blank	
Related Parameters	phone_setting.reverse_lookup.incoming_call.replace.with	
Parameter	phone_setting.reverse_lookup.incoming_call.replace.with arrows </ arrows </p	
Description	It configures the string used to replace the certain matched one of the caller's phone number.	
Permitted Values	String within 512 characters	
Default	Blank	
Related Parameters	phone_setting.reverse_lookup.incoming_call.replace.pattern	

Call Log

Yealink phones record and maintain phone events to a call log, also known as a call list.

Call log consists of four lists: Missed Calls, Placed Calls, Received Calls, and All Calls. Each call log list supports up to 100 entries.

Topics

Call Log Display Call Log Configuration

Call Log Display

The following table describes the detailed call log information:

Description	
Shows the name of the remote party.	
Shows the number of the remote party.	
Shows the call initiation time.	
Shows the duration of the call.	
 Shows what happened to the call. The valid display contents are: Rejected: Reject an incoming call. Forward to X: Forward an incoming call to X. For example, Forward to 1048 means you forward an incoming call to 1048. Busy: The outgoing call is rejected. Transfer to X: Transfer a call to X. For example, Transfer to 1048 means you transfer a call to 1048. X: Answer a transferred/forwarded call from remote party X; your call is transferred/forwarded to X. For example, 1048 means you answer a transferred/forwarded call from remote party 1048. 	

Related Topic

Call Log Configuration

Call Log Configuration

The following table lists the parameter you can use to change the call log settings.

	,	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to log the call history (missed calls, placed calls, received calls and forwarded calls) in the call lists.	
Permitted	 0-Disabled, the phone cannot log the placed calls, received calls, missed calls and the forwarded calls in the call lists. 1-Enabled 	
Default	1	
Web UI	Features > General Information > Save Call Log	

_			
Parameter	account.X.hide_local_number.enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to hide the account local number in the call history.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Account > Advanced > Account X > Hidden Local N	lumber	
Parameter	features.call_log_show_num	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the display type of the other parties' information in the call log lists. Note : It works only if "features.save_call_history" is set to 1 (Enabled).		
Permitted Values	 0-Name, the name is displayed preferentially; if there is no name, the number is displayed 1-Number 2-Name & Number, the name and number are displayed; if there is no name, the number is displayed 		
Default	0		
Web UI	Features > General Information > Call List Show Number		
Parameter	features.calllog_detailed_information <pre></pre>		
Description	It enables or disables the phone to indicate what happened to the call in the call log lists. It is applicable to the following scenarios: • Reject an incoming call • Forward an incoming call • The outgoing call is rejected • Transfer a call • Answer a transferred/forwarded call from the remote party; your call is transferred/forwarded to another party. Note: It works only if "features.save_call_history" is set to 1 (Enabled).		
Permitted Values	 0-Disabled 1-Enabled, you can get the detailed call-disposition information at the path via the phone via the phone user interface: History > Options > Detail > Relation. 		
Default	1		

^[1]X is the account ID. X=1-10.

Call Features

This chapter shows you how to configure the call feature on Yealink phones.

Topics

Dial Plan Emergency Dialplan and Enhanced 911 Off Hook Hot Line Dialing Call Timeout Anonymous Call **Call Number Filter IP Address Call** Auto Answer Anonymous Call Rejection **Call Waiting** Do Not Disturb (DND) Call Hold **Call Forward Call Transfer** Conference SD Card Recording Multicast Paging End Call on Hook

Dial Plan

Dial plan is a string of characters that governs the way how the phones process the inputs received from the IP phone's keypads. You can use the regular expression to define the dial plan.

It is only applicable to W90 multi-cell system.

Yealink phones support four patterns:

- **Replace rule**: is an alternative string that replaces the numbers entered by the user. Yealink phones support up to 100 replace rules.
- **Dial now**: is a string used to match numbers entered by the user. When entered numbers match the predefined dial now rule, the phone will automatically dial out the numbers without pressing the send key. Yealink phones support up to 20 dial now rules.
- Area code: are also known as Numbering Plan Areas (NPAs). They usually indicate geographical areas in one country. When entered numbers match the predefined area code rule, the phone will automatically add the area code before the numbers when dialing out them. Yealink phones only support one area code rule.
- Block out: prevents users from dialing out specific numbers. When entered numbers match the predefined block out rule, the phone screen prompts "Forbidden Number". Yealink phones support up to 10 block out rules.

You can configure these four patterns via the web user interface or auto provisioning. For replace rule and dial now, you can select to add the rule one by one or using the template file to add multiple rules at a time.

Topics

Basic Regular Expression Syntax for Four Patterns Replace Rule File Customization Dial Now File Customization Replace Rule Configuration Dial Now Configuration Area Code Configuration Block Out Configuration Example: Adding Replace Rules Using a Replace Rule File

Basic Regular Expression Syntax for Four Patterns

You need to know the following basic regular expression syntax when creating a dial plan:

Regular Expression	Description		
	The dot "." can be used as a placeholder or multiple placeholders for any string. Example:		
•	"12." would match "123", "1234", "12345", "12abc", and so on.		
	The "x" can be used as a placeholder for any character. Example:		
x	"12x" would match "121", "122", "123", "12a", and so on.		
	The dash "-" can be used to match a range of characters within the brackets. Example:		
-	"[5-7]" would match the number "5", "6" or "7".		
The comma "," can be used as a separator within the bracket. Example:			
,	"[2,5,8]" would match the number "2", "5" or "8".		
0	The square bracket "[]" 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 "91 5 1234", "91 6 1234", "91 7 1234".		
() The parenthesis "()" can be used to group together patterns, for instance, to logically c more patterns. Example:			
	"([1-9])([2-7])3" would match "923", "153", "673", and so on.		
	The "\$" followed by the sequence number of a parenthesis means the characters placed in the par- enthesis. The sequence number stands for the corresponding parenthesis. Example:		
	A replace rule configuration, Prefix: "001(xxx)45(xx)", Replace: "9001\$145\$2". When you dial out "0012354599" on your phone, the phone will replace the number with "9001 235 45 99 ". "\$1" means 3 digits in the first parenthesis, that is, "235". "\$2" means 2 digits in the second parenthesis, that is, "99".		

Replace Rule File Customization

The replace rule file helps create multiple replace rules. At most 100 replace rules can be added to the IP phone.

You can ask the distributor or Yealink FAE for the replace rule file template. You can also obtain the replace rule file template online: http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

Topics

Replace Rule File Attributes Customizing the Replace Rule File

Replace Rule File Attributes

The following table lists the attributes you can use to add replace rules to the replace rule file:

Attributes	Description	
Prefix	pecify the number to be replaced.	
Replace	Specify the alternate string instead of what the user enters.	
Specify a registered line to apply the replace rule.		
	Valid Values: 0-10	
LineID 0 stands for all lines;		
	1~10 stand for line1~line10	
Multiple line IDs are separated by commas.		

Customizing the Replace Rule File

- 1. Open the replace rule file.
- 2. To add a replace rule, add <Data Prefix="" Replace="" LineID=""/> to the file. Each starts on a new line.
- 3. Specify the values within double quotes.
 - For example,

<Data Prefix="2512" Replace="05922512" LineID="1"/>

4. Save the changes and place this file to the provisioning server.

Dial Now File Customization

The dial now file helps create multiple dial now rules. At most 20 dial now rules can be added to the IP phone.

You can ask the distributor or Yealink FAE for dial now file template. You can also obtain the dial now file template online: http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

Topics

Dial Now File Attributes Customizing the Dial Now File

Dial Now File Attributes

The following table lists the attributes you can use to add dial-now rules to the dial now file:

Attributes	Description
DialNowRule Specify the dial-now number.	
	Specify a registered line to apply the dial-now rule.
	Valid Values: 0-10
LineID	0 stands for all lines;
	1~10 stand for line1~line10
	Multiple line IDs are separated by commas.

Customizing the Dial Now File

- 1. Open the dial now file.
- 2. To add a dial-now rule, add <Data DialNowRule="" LineID="" /> to the file. Each starts on a new line.
- **3.** Specify the values within double quotes.

For example,

<Data DialNowRule="1001" LineID="0" />

4. Save the changes and place this file to the provisioning server.

Replace Rule Configuration

You can configure replace rules either one by one or in batch using a replace rule template.

The following table lists the parameters you can use to configure the replace rule.

Parameter	dialplan.replace.prefix.X ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	t configures the entered number to be replaced.	
Permitted Values	String within 32 characters	
Default	Blank	

Web UI	Settings > Dial Plan > Replace Rule > Prefix		
Parameter	dialplan.replace.replace.X ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the alternate number to replace the entered number.		
Description	The entered number is configured by "dialplan.replace.prefix.X".		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Settings > Dial Plan > Replace Rule > Replace		
Parameter	dialplan.replace.line_id.X ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the desired line to apply the replace ru the replace rule will apply to all lines on the phone.		
	Multiple line IDs are separated by commas.		
	Note:		
Permitted Values	0 to 10		
Default	Blank		
Web UI	Settings > Dial Plan > Replace Rule > Account		
Parameter	dialplan_replace_rule.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the replace rule template file.		
Description	For customizing replace rule template file, refer to Replace Rule File Customization.		
Permitted Values	URL within 511 characters		
Default	Blank		

^[1]X is from 1 to 10.

Dial Now Configuration

You can configure dial now rules either one by one or in batch using a dial now template.

The following table lists the parameters you can use to configure the dial now.

Parameter	dialplan.dialnow.rule.X ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the dial now rule (the string used to match the numbers entered by the user).		
Description	When entered numbers match the predefined dial now rule, the phone will automatically dia numbers without pressing the send key. Example:		
	dialplan.dialnow.rule.1 = 123		
Permitted Values	String within 511 characters		
Default	Blank		
Web UI	Settings > Dial Plan > Dial Now > Rule		
Parameter	dialplan.dialnow.line_id.X ^[1]	<y000000000xx>.cfg</y000000000xx>	

	It configures the desired line to apply the dial now rule.		
Description	The digit 0 stands for all lines. If it is left blank, the dial-now rule will apply to all lines on the phone.		
	Note: Multiple line IDs are separated by commas.		
Permitted Values	0 to 10		
Default	Blank		
Web UI	Settings > Dial Plan > Dial Now > Account		
Parameter	phone_setting.dialnow_delay	<y000000000xx>.cfg</y000000000xx>	
	It configures the delay time (in seconds) for the dial	now rule.	
Description	When entered numbers match the predefined dial now rule, the phone will automatically dial out the entered number after the designated delay time.		
	If it is set to 0, the phone will automatically dial out the entered number immediately.		
Permitted Values	Integer from 0 to 14		
Default	1		
Web UI	Features > General Information > Time Out for Dial Now Rule		
Parameter	dialplan_dialnow.url <y00000000xx>.cfg</y00000000xx>		
	It configures the access URL of the dial now templa	te file.	
Description	For customizing dial now template file, refer to Dial Now File Customization.		
Permitted Values	String within 511 characters		
Default	Blank		

^[1]X is from 1 to 20.

Area Code Configuration

The following table lists the parameters you can use to configure the area code.

Parameter	dialplan.area_code.code	<y000000000xx>.cfg</y000000000xx>
Description	It configures the area code to be added before the entered numbers when dialing out. Note : The length of the entered number must be between the minimum length configured by the para- meter "dialplan.area_code.min_len" and the maximum length configured by the parameter "dial- plan.area_code.max_len".	
Permitted Values	String within 16 characters	
Default	Blank	
Web UI	Settings > Dial Plan > Area Code > Code	
Parameter	dialplan.area_code.min_len <y00000000xx>.cfg</y00000000xx>	
Description	It configures the minimum length of the entered number.	
Permitted Values	Integer from 1 to 15	

Default	1	
Web UI	Settings > Dial Plan > Area Code > Min Length (1-15)	
Parameter	dialplan.area_code.max_len <y00000000xx>.cfg</y00000000xx>	
Description	It configures the maximum length of the entered number. Note: The value must be larger than the minimum length.	
Permitted Values	Integer from 1 to 15	
Default	15	
Web UI	Settings > Dial Plan > Area Code > Max Length (1-15)	
Parameter	dialplan.area_code.line_id	<y000000000xx>.cfg</y000000000xx>
Description	It configures the desired line to apply the area code rule. The digit 0 stands for all lines. If it is left blank, the area code rule will apply to all lines on the IP phone. Note: Multiple line IDs are separated by commas.	
Permitted	0 to 10	
Default	Blank	
Web UI	Settings > Dial Plan > Area Code > Account	

Block Out Configuration

The following table lists the parameters you can use to configure the block out.

Parameter	dialplan.block_out.number.X ^[1]	<y000000000xx>.cfg</y000000000xx>
	It configures the block out numbers.	
	Example:	
Description	dialplan.block_out.number.1 = 4321	
	When you dial the number "4321" on your phone, the dialing will fail and the phone screen will prompt "Forbidden Number".	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Settings > Dial Plan > Block Out > BlockOut NumberX ^[1]	
Parameter	dialplan.block_out.line_id.X ^[2] <y00000000xx>.cfg</y00000000xx>	
Description	It configures the desired line to apply the block out rule. The digit 0 stands for all lines. If it is left blank, the block out rule will apply to all lines on the IP phone. Note : Multiple line IDs are separated by commas.	
Permitted Values	0 to 10	
Default	Blank	

Web UI	Settings > Dial Plan > Block Out > Account
--------	--

^[1]X is from 1 to 10.

^[2]X is from 1 to 10.

Example: Adding Replace Rules Using a Replace Rule File

The following example shows the configuration for adding replace rules.

Customize the replace rule template file and place this file to the provisioning server "http://192.168.10.25".

Example

dialplan_replace_rule.url = http://192.168.10.25/DialPlan.xml

After provisioning, the rules defined in this file are added to the IP phone, and you can use the replace rules on the phone.

Emergency Dialplan and Enhanced 911

You can dial the emergency telephone number (emergency services number) at any time when the IP phone is powered on and has been connected to the network. It is available even if your phone keypad is locked or no SIP account is registered.

Yealink phones support emergency dialplan and enhanced 911.

Emergency Dial Plan

You can configure the emergency dial plan for the phone (for example, emergency number, emergency routing). The phone determines if this is an emergency number by checking the emergency dial plan. When placing an emergency call, the call is directed to the configured emergency server. Multiple emergency servers may need to be configured for emergency routing, avoiding that emergency calls could not get through because of the server failure. If the phone is not locked, it checks against the regular dial plan. If the phone is locked, it checks against the emergency dial plan.

Enhanced 911

E911 (Enhanced 911) is a location technology that enables the called party to identify the geographical location of the calling party. For example, if a caller makes an emergency call to E911, the feature extracts the caller's information for the police department to immediately identify the caller's location.

Topic

Emergency Dialplan and Enhanced 911 Configuration

Emergency Dialplan and Enhanced 911 Configuration

The following table lists the parameters you can use to configure emergency dialplan and Enhanced 911.

Parameter	dialplan.emergency.enable	<y000000000xx>.cfg</y000000000xx>
Description	Description It enables or disables the Emergency dialplan feature.	
	0-Disabled 1-Enabled	
Default	1	
		<y000000000xx>.cfg</y000000000xx>
Description	It configures the precedence of the source of emergency outbound identities when placing an emer- gency call.	

	Note : If the obtained LLDP-MED ELIN value is blank and no custom outbound identity, the PAI header will not be included in the SIP INVITE request. It works only if "dialplan.emergency.enable" is set to 1 (Enabled).		
	 ELIN-The outbound identity used in the P-Asserted-Identity (PAI) header of the SIP INVITE request is taken from the network using an LLDP-MED Emergency Location Identifier Number (ELIN). The custom outbound identity configured by "dialplan.emergency.custom_asserted_id" will be used if the phone fails to get the LLDP-MED ELIN value. CUSTOM-The custom outbound identity configured by "dialplan emergency custom_asserted_id" will 		
values			
	HELD-The phone will use the HELD protocol to retrieve location information from the Location Inform- ation Server.		
Default	ELIN		
Parameter	dialplan.emergency.custom_asserted_id	<y000000000xx>.cfg</y000000000xx>	
	It configures the custom outbound identity when placing an emergency call.		
Description	Note : It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dia plan.emergency.asserted_id_source" is not set to HELD .	.I-	
	A number with 10 to 25 digits - for example, 1234567890. The SIP URI constru- and SIP server (for example, abc.com) is included in the P-Asserted-Identity (PA example, <sip:1234567890@abc.com>).</sip:1234567890@abc.com>		
	SIP URI - for example, sip:1234567890123@abc.com. The full URI is included in the P-Asserted-Iden- tity (PAI) header and the address will be replaced by the emergency server (for example, <sip:1234567890123@emergency.com>).</sip:1234567890123@emergency.com>		
	TEL URI - for example, tel:+16045558000. The full URI is included in the P-Asserted-Ident header (for example, <tel:+16045558000>).</tel:+16045558000>		
Default	Blank		
Parameter	dialplan.emergency.server.X.address ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the IP address or domain name of the emergency server X to be us	sed for routing calls.	
Description	Note : If the account information has been configured (no matter whether the account registration succeeds or fails), the emergency calls will be dialed using the following priority: SIP server > emergency server; if not, the emergency server will be used. It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dialplan.emergency.asserted_id_source" is not set to HELD .		
Permitted Values	IP address or domain name		
Default	Blank		
Parameter	r dialplan.emergency.server.X.port ^[1] <v00000000xx></v00000000xx>		
	It configures the port of emergency server X to be used for routing calls.	<u>, </u>	
Description	Note : It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dial- plan.emergency.asserted_id_source" is not set to HELD .		
Permitted Values	Integer from 0 to 65535		
Default	5060		
Parameter	dialplan.emergency.server.X.transport_type ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the transport protocol the phones use to communicate with the emergency server X.		

	Note : It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dial- plan.emergency.asserted_id_source" is not set to HELD .		
	0-UDP		
Permitted	1-TCP		
Values	2-TLS		
	3-DNS-NAPTR		
Default	0		
	dialplan.emergency.X.value ^[2]		
Parameter	It configures the emergency number to use on your phones so a caller can configure	<y0000000000xx>.cfg</y0000000000xx>	
	vices in the local area when required.	actemergency ser-	
Description	Note: It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dia	ıl-	
_	plan.emergency.asserted_id_source" is not set to HELD .		
Permitted Values	Number or SIP URI		
Default	When $X = 1$, the default value is 911;		
Delault	When X = 2-255, the default value is Blank.		
Parameter	dialplan.emergency.X.server_priority ^[2]	<y000000000xx>.cfg</y000000000xx>	
	It configures the priority of which the emergency servers to be used first.		
	Multiple values are separated by commas. The servers to be used in the order listed (left to right).		
Description	The IP phone tries to make emergency calls using the emergency server with h with lower priority. The IP phone tries to send the INVITE request to each emerg times.		
	Note : If the account information has been configured (no matter whether the account registration succeeds or fails), the emergency calls will be dialed using the following priority: SIP server > emergency server; if not, the emergency server will be used. It works only if "dialplan.emergency.enable" is set to 1 (Enabled).		
Permitted Values	a combination of digits 1, 2 and 3		
Default	1, 2, 3		
Parameter	dialplan.emergency.held.server_url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the primary Location Information Server URL for the phone to send request.	HELD location	
Description	Note : It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dial- plan.emergency.asserted_id_source" is set to HELD .		
Permitted Values	String		
Default	Blank		
Parameter	dialplan.emergency.held.secondary.server_url	<y000000000xx>.cfg</y000000000xx>	
	It configures the secondary Location Information Server URL for the phone to send HELD location request.		
Description	Note: It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dial- plan.emergency.asserted_id_source" is set to HELD .		
Permitted	String		
	1		

Values			
Default	Blank		
Parameter	dialplan.emergency.held.request_type	<y000000000xx>.cfg</y000000000xx>	
	It configures the type of location request message.		
Description	Note: It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dial- plan.emergency.asserted_id_source" is set to HELD .		
De une itte d	SIMPLE or REDSKY or YEALINK		
Permitted Values	If it is set to SIMPLE , the phone will send the location request message defined in RFC5985.		
	If it is set to REDSKY , the phone will send the location request message define	d by REDSKY.	
Default	SIMPLE		
Parameter	dialplan.emergency.held.request_element.X.name ^[2]	<y000000000xx>.cfg</y000000000xx>	
	It configures the custom element name to be sent in a location request message	e.	
	Example:		
	dialplan.emergency.held.request_element.1.name = mac		
Description	dialplan.emergency.held.request_element.2.name = companyID		
	dialplan.emergency.held.request_element.3.name = nai		
	Note : It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dial- plan.emergency.asserted_id_source" is set to HELD .		
Permitted Values	String		
Default	Blank		
Parameter	dialplan.emergency.held.request_element.X.value ^[2]	<y000000000xx>.cfg</y000000000xx>	
	It configures the custom element value to be sent in a location request message	9.	
	Example:		
	dialplan.emergency.held.request_element.1.value = 001565B38ECB		
Description	dialplan.emergency.held.request_element.2.value = 6f2f2d50-c385-4b72-b84a-ce0ca3a77cb7		
	dialplan.emergency.held.request_element.3.value = 8611@pbx.yealink.com		
	Note: It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dial- plan.emergency.asserted_id_source" is set to HELD .		
Permitted Values	String		
Default	Blank		
Parameter	dialplan.emergency.held.username	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the user name authentication when the phone sends location information to the E911 Location Information Server.		
Note: It works only if "dialplan.emergency.held.request_type" is set to YEALINK.		(.	
Permitted			

Default	Blank	
Parameter	dialplan.emergency.held.password	<y000000000xx>.cfg</y000000000xx>
Description	It configures the password authentication when the phone sends location information to the E911 Location Information Server. Note: It works only if "dialplan.emergency.held.request_type" is set to YEALINK or REDSKY.	
Permitted	String	
Default	Blank	
Parameter	dialplan.emergency.held.secondary.username	<y0000000000xx>.cfg</y0000000000xx>
Description	It configures the user name authentication when the phone sends location infor ondary E911 Location Information Server. Note: It works only if "dialplan.emergency.held.request_type" is set to YEALINK	
Permitted	String	
Default	Blank	
Parameter	dialplan.emergency.held.secondary.password	<y000000000xx>.cfg</y000000000xx>
	It configures the password authentication when the phone sends location information to the sec- ondary E911 Location Information Server.	
	Note: It works only if "dialplan.emergency.held.request_type" is set to YEALINK	for REDSKY .
Permitted Values	String	
Default	Blank	
Parameter	dialplan.emergency.held.nai.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to send Network Access Identifier (nai) information to the E911 Loca- tion Information Server.	
Note: It works only if "dialplan.emergency.held.request_type" is set to YEALINK Permitted 0-Disabled		Kor REDSKY .
Velvee	1-Enabled	
Default		
	dialplan.emergency.held.location_retry_timer	<y000000000xx>.cfg</y000000000xx>
	It configures the time interval (seconds) for the phone to report location information to the E91 ion	
	Note: It works only if "dialplan.emergency.held.request_type" is set to YEALINK or REDSKY.0-The phone does not report the location to the E911 Location Information Server again when failed	
Permittedto report the location to the sever.Values60 to 86400-The phone reports the location to the E911 Location Information Serv cified time interval .		erver within the spe-
Default	0	
Parameter	dialplan.emergency.held.prompt_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to pop up the "Set E911 location failed! Please	contact your admin-

istrator." prompt when the phone failed to report location information to the server.		
0-Disabled		
dialplan.emergency.sip_header.geolocation_routing.enable	<y000000000xx>.cfg</y000000000xx>	
t enables or disables the phone to carry the geolocation-routing header informa NVITE message when the phone calls emergency number.	ation in the E911	
Note: It works only if "dialplan.emergency.held.request_type" is set to YEALINK		
D-The information "Geolocation-Routing: no" exists in the E911 INVITE message geolocation", "Supported: geolocation" do not exist.	e, and the information	
1-The information "Geolocation-Routing: yes" exists in the E911 INVITE message, and the information "geolocation", "Supported: geolocation" also exist.		
1		
sip.emgr.header	<y0000000000xx>.cfg</y0000000000xx>	
It configures the content of E911 INVITE header field when the phone calls the emergency number.		
priority:emergency-The E911 INVITE header field contains priority:emergency.		
String-The INVITE header field can be customized.		
priority:emergency		
lialplan.emergency.held.non_IIdp.chassisid_portid_enable	<y000000000xx>.cfg</y000000000xx>	
t configures the contents of held requests when the phone cannot connect to LI	DAP switch.	
The phone does not send the ChassisID and PortID fields to the server.		
1-The phone sends the ChassisID and PortID fields to the server, ChassisID field is the mac of the gateway, and PortID field is the mac of the phone.		
0		
lialplan.emergency.held.resync_period	<y000000000xx>.cfg</y000000000xx>	
It configures the time interval (minutes) for the phone to send held requests regularly to the E911 Loca- tion Information Server.		
0 -The phone will not periodically send held requests to the server.		
Integer from 1 to 10800-The phone sends held request to the server within the specified time interval.		
reger nom no robod-me phone sends held request to the server within the	specifica unic interval.	
	Note: It works only if "dialplan.emergency.held.request_type" is set to YEALINK -Enabled -Disabled Iialplan.emergency.sip_header.geolocation_routing.enable tenables or disables the phone to carry the geolocation-routing header information VITE message when the phone calls emergency number. Note: It works only if "dialplan.emergency.held.request_type" is set to YEALINK -The information "Geolocation-Routing: no" exists in the E911 INVITE message geolocation", "Supported: geolocation" do not exist. -The information "Geolocation-Routing: yes" exists in the E911 INVITE message geolocation", "Supported: geolocation" also exist. -The information "Geolocation-Routing: yes" exists in the E911 INVITE message geolocation", "Supported: geolocation" also exist. -The information "Geolocation-Routing: yes" exists in the E911 INVITE message geolocation", "Supported: geolocation" also exist. -the information "Geolocation-Routing: yes" exists in the E911 INVITE message geolocation", "Supported: geolocation" also exist. -the information use content of E911 INVITE header field when the phone calls the entiority:emergency. string-The INVITE header field can be customized. wriority:emergency.held.non_lldp.chassisid_portid_enable t configures the contents of held requests when the phone cannot connect to LID -The phone does not send the ChassisID and PortID fields to the server. -The phone sends the ChassisID and PortID fields to the server.	

^[1] X is from 1 to 3.

^[2] X is from 1 to 255.

Off Hook Hot Line Dialing

For security reasons, the phones support off hook hot line dialing feature, which allows the phone to automatically dial out the pre-configured number when you call any number. The SIP server may then prompts you to enter an activation code for call service. Only if you enter a valid activation code, the phone will use this account to dial out a call successfully.

Off hook hot line dialing feature is configurable on a per-line basis and depends on the support from a SIP server. The server actions may vary from different servers.

It is also applicable to the IP call and intercom call.

Note: Off hook hot line dialing feature limits the call-out permission of this account and disables the hotline feature. For example, when the phone goes off-hook using the account with this feature enabled, the configured hotline number will not be dialed out automatically.

Topic

Off Hook Hot Line Dialing Configuration

Off Hook Hot Line Dialing Configuration

The following table lists the parameters you can use to configure off hook hot line dialing.

Parameter	account.X.auto_dial_enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to automatically dial out a pre-configured number when a user calls any number.	
Permitted Values	 0-Disabled 1-Enabled, the phone will dial out the pre-configured number (configured by "account.X.auto_dial_ num"). 	
Default	0	
Parameter	account.X.auto_dial_num ^[1] <mac>.cfg</mac>	
Description	It configures the number that the phone automatically dials out when a user calls any number. Note: It works only if "account.X.auto_dial_enable" is set to 1 (Enabled).	
Permitted Values	String within 1024 characters	
Default	Blank	

^[1]X is the account ID. X=1-10.

Speed Dial

Speed dial allows you to speed up dialing contacts on the phone's idle screen using dedicated DSS keys.

Topic

Speed Dial Key Configuration

Speed Dial Key Configuration

The following table lists the parameter you can use to configure the speed dial.

Parameter	handset.x.features.key.y.speeddial	<y000000000xx>.cfg</y000000000xx>
	It configure Handset x Speed Dial Number or Speed Dial Internal Handset x.	
	Note: ① "X" means Handset 1-10; "y" means Key 2-9.	
Description	2 When "Handset x" refers to the handset and DD Phone, "Key 2-9" means the digital key 2-9.	
	$^{(3)}$ When "Handset x" refers to the headset, only digital key 2 is available and you can configure a speed dial number for the digital key 2.	
Permitted Values	String within 24 characters	

Default Blank

Call Timeout

Call timeout defines a specific period of time after which the phone will cancel the dialing if the call is not answered.

Topic

Call Timeout Configuration

Call Timeout Configuration

The following table lists the parameter you can use to configure call timeout.

Parameter	phone_setting.ringback_timeout	<y000000000xx>.cfg</y000000000xx>
	It configures the duration time (in seconds) in the ringback state. In If it is set to 180, the phone will cancel the dialing if the call is not answered after 180 seconds.	
Description		
Permitted	Integer from 1 to 3600	
Values		
Default	180	

Anonymous Call

Anonymous call allows the caller to conceal the identity information shown to the callee. The callee's phone LCD screen prompts an incoming call from anonymity.

Anonymous calls can be performed locally or on the server. When performing anonymous call on local, the phone sends an INVITE request with a call source "*From: "Anonymous" sip:anonymous@anonymous.invalid*". If performing Anonymous call on a specific server, you may need to configure anonymous call on code and off code to activate and deactivate server-side anonymous call feature.

Topic

Anonymous Call Configuration

Anonymous Call Configuration

The following table lists the parameters you can use to configure the anonymous call.

Parameter	account.X.anonymous_call ^[1]	<mac>.cfg</mac>
Description	It triggers the anonymous call feature to on or off.	
Permitted Values	 0-Off 1-On, the phone will block its identity from showing to the callee when placing a call. The callee's phone screen presents "Anonymous" instead of the caller's identity. 	
Default	0	
Web UI	Account > Basic > Local Anonymous	
Handset UI	W78H/W73H/W59R/W57R/W53H/W56H: OK > Call Features > Anonymous Call > Line X > Status	

	Menu > Features > Anonymous Call > Line X > Status	
	CP935W:	
	More > Features > Anonymous Call > Line X > Local Anonymous	
Parameter	account.X.send_anonymous_code ^[1]	<mac>.cfg</mac>
Description	It configures the phone to send anonymous on/off o ous call feature for a specific account.	code to activate/deactivate the server-side anonym-
Permitted	0 -Off Code, the phone will send anonymous off code to the server when you deactivate the ous call feature.	
Values	1-On Code, the phone will send anonymous on code to the server when you activate the anonymous call feature.	
Default	0	
Web UI	Account > Basic > Send Anonymous Code	
Parameter	account.X.anonymous_call_oncode ^[1]	<mac>.cfg</mac>
	It configures the anonymous call on code.	
Description	The phone will send the code to activate the anonymous call feature on server-side when you activate it on the phone.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Account > Basic > Send Anonymous Code > On Co	ode
Parameter	account.X.anonymous_call_offcode ^[1]	<mac>.cfg</mac>
	It configures the anonymous call off code.	
Description	The phone will send the code to deactivate the anonymous call feature on server-side when you deac tivate it on the phone.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Account > Basic > Send Anonymous Code > Off Code	
Parameter	features.anonymous.feature_key_sync.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables to synchronize the anonymous call status between the IP phone and the server.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	

^[1]X is the account ID. X=1-10.

Call Number Filter

Call number filter feature allows IP phone to filter designated characters automatically when dialing.

Topic

Call Number Filter Configuration

Call Number Filter Configuration

The following table lists the parameter you can use to configure call number filter.

Parameter	features.call_num_filter	<y000000000xx>.cfg</y000000000xx>
	It configures the characters the phone filters when dialing.	
	If the dialed number contains configured characters, the phone will automatically filter these char- acters when dialing.	
Description	n Example:	
	features.call_num_filter = -	
	If you dial 3-61, the phone will filter the character - and then dial out 361.	
	Note: If it is left blank, the phone will not automatica	Ily filter any characters when dialing.
Permitted Values	String within 99 characters	
Default	, -()	
Web UI	Features > General Information > Call Number Filter	

IP Address Call

You can set the phone whether to receive or place an IP call. You can neither receive nor place an IP call if you disable this feature.

Topic

IP Address Call Configuration

IP Address Call Configuration

The following table lists the parameter you can use to configure IP address call.

Parameter	features.direct_ip_call_enable	<y000000000xx>.cfg</y000000000xx>
Description		
	Note: If you want to receive an IP address call, make sure "sip.trust_ctrl" is set to 0 (Disabled).	
Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Features > General Information > Allow IP Call	

Auto Answer

Auto answer allows the handset to automatically answer an incoming call by picking up it from the charger cradle without having to press the off-hook key. The handset will not automatically answer the incoming call during a call even if the auto answer is enabled.

The auto answer feature works only if the handset is placed in the charger cradle.

It is not applicable to DD phone/CP930W-Base/CP935W-Base.

Topic

Auto Answer Configuration

Auto Answer Configuration

The following table lists the parameter you can use to configure the auto answer.

Parameter	custom.handset.auto_answer.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables a user to answer incoming calls by lifting the handset from the charger cradle without having to press the off-hook key. Note : It works if the handset is placed in the charger cradle and the parameter "static.auto_pro- vision.handset_configured.enable" is set to 1 (Enabled).	
Permitted Values	 -1-Do not modify the handset configuration (Keep the original configuration of the handset). 0-Disabled 1-Enabled 	
Default	-1	
Handset UI	OK > Settings > Telephony > Auto Answer	

Anonymous Call Rejection

Anonymous call rejection allows IP phone to automatically reject incoming calls from callers whose identity has been deliberately concealed.

Anonymous call rejection can be performed locally or on the server. When performing anonymous call rejection on local, the phone sends the server a status message "Status-Line: SIP/2.0 433 Anonymity Disallowed". If performing Anonymous call rejection on a specific server, you may need to configure anonymous call rejection on code and off code to activate and deactivate server-side anonymous call rejection feature.

Topic

Anonymous Call Rejection Configuration

Anonymous Call Rejection Configuration

The following table lists the parameters you can use to configure anonymous call rejection.

Parameter	account.X.reject_anonymous_call ^[1]	<mac>.cfg</mac>
Description	It triggers the anonymous call rejection feature to on or off.	
Permitted Values	 0-Off 1-On, the phone will automatically reject incoming calls from users enabled anonymous call feature. The anonymous user's phone screen presents "Forbidden". 	
Default	0	
Web UI	Account > Basic > Local Anonymous Rejection	
Handset UI	W78H/W73H/W59R/W57R/W53H/W56H: OK > Call Features > Anon. Call Rejection > Line X > Status DD Phone: Menu > Features > Anonymous Call > Line ID > Local Anonymous Rejection <u>CP935W:</u> More > Features > Anonymous Call > Line ID > Local Anonymous Rejection	
Parameter	account.X.anonymous_reject_oncode ^[1]	

	It configures the anonymous call rejection on code.	
Description	The phone will send the code to activate anonymous call rejection feature on server-side when you activate it on the phone.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Account > Basic > Send Anonymous Rejection Code > On Code	
Parameter	account.X.send_anonymous_rejection_code ^[1] <mac>.cfg</mac>	
Description	It configures the IP phone to send anonymous call rejection on/off code to activate/deactivate the server-side anonymous call rejection feature for account X.	
Permitted Values	 0-Off Code, the phone will send anonymous rejection off code to the server when you deactivate the anonymous call rejection feature. 1-On Code, the phone will send anonymous rejection on code to the server when you activate the anonymous call rejection feature. 	
Default	0	
Web UI	Account > Basic > Send Anonymous Rejection Code	
Parameter	account.X.anonymous_reject_offcode ^[1] <mac>.cfg</mac>	
Description	It configures the anonymous call rejection off code. The phone will send the code to deactivate anonymous call rejection feature on server-side when you deactivate it on the phone.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Account > Basic > Send Anonymous Rejection Code > Off Code	

^[1]X is the account ID. X=1-10.

Call Waiting

Call waiting enables you to receive another call when there is already an active call on your phone. If it is disabled, the new incoming call will be rejected automatically.

You can enable call waiting feature and set the phone to play a warning tone to avoid missing important calls during a call.

Yealink phones also support call waiting on code and off code to activate and deactivate server-side call waiting feature. They may vary on different servers.

Topic

Call Waiting Configuration

Call Waiting Configuration

The following table lists the parameters you can use to configure call waiting.

Parameter	call_waiting.enable	<y000000000xx>.cfg</y000000000xx>
Description	ption It enables or disables the call waiting feature.	
Permitted	0 -Disabled, a new incoming call is automatically rejected by the phone with a busy message during a	

	call.		
Values	1-Enabled, the phone screen will present a new incoming call during a call.		
Default	1		
Web UI	Features > General Information > Call Waiting		
	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Call Features > Call Waiting > Status DD Phone:		
	Menu > Features > Call Waiting > Call Waiting		
Handset UI	CP930W:		
	Menu > Features > Call Waiting > Status		
	CP935W:		
	More > Features > Call Waiting > Call Waiting		
Parameter	account.x.call_waiting.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the call waiting feature of acc Note : The "account.x.call_waiting.enable" has prior		
Pormittod	0- Disabled, a new incoming call is automatically re	jected by the phone with a busy message during a	
Values	 call. 1-Enabled, the phone screen will present a new incoming call during a call. 		
Default	0		
Parameter	call_waiting.tone	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to play the call wa call during a call.	ting tone when the phone receives an incoming	
	Note: It works only if "call_waiting.enable" is set to	1 (Enabled).	
	0-Disabled 1-Enabled		
Default			
Web UI	Features > Audio > Call Waiting Tone		
	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Call Features > Call Waiting > Tone		
	DD Phone:		
Handset UI	Menu > Features > Call Waiting > Play Tone		
	<u>CP930W:</u>		
	Menu > Features > Call Waiting > Tone		
	<u>CP935W:</u> More > Features > Call Waiting > Play Tone		
		<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone of account X to pla		
Description			
	Note: It works only if "call_waiting.enable" is set to 1 (Enabled).		
Permitted	0 -Disabled		

Values	1-Enabled	
Default	Blank	
Parameter	all_waiting.on_code <y00000000xx>.cfg</y00000000xx>	
Description	It configures the call waiting on code. The phone will send the code to activate call waiting on server-side when you activate it on the phone.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features > General Information > Call Waiting On C	Code
Parameter	account.x.call_waiting.on_code <y00000000xx>.cfg</y00000000xx>	
Description	It configures the call waiting on code of account X. The phone will send the code to activate call waiting on server-side when you activate it on the phone.	
Permitted Values	String within 32 characters	
Default	Blank	
Parameter	call_waiting.off_code	<y000000000xx>.cfg</y000000000xx>
Description	It configures the call waiting off code. The phone will send the code to deactivate call wa phone.	ting on server-side when you deactivate it on the
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features > General Information > Call Waiting Off Code	
Parameter	account.x.call_waiting.off_code <y00000000xx>.cfg</y00000000xx>	
Description	It configures the call waiting off code of account X. The phone will send the code to deactivate call waiting on server-side when you deactivate it on the phone.	
Permitted Values	String within 32 characters	
	Blank	

Do Not Disturb (DND)

DND feature enables the phone to reject all incoming calls automatically when you do not want to be interrupted. You can choose to implement DND locally on the phone or on the server-side.

Topics

DND Settings Configuration DND Feature Configuration DND Synchronization for Server-side Configuration

DND Settings Configuration

You can change the following DND settings:

- Enable or disable the DND feature. If disabled, the users have no permission to configure DND on their phone.
- Define the return code and the reason of the SIP response message for a rejected incoming call when DND is activated. The caller's phone screen displays the received return code.

The following table lists the parameters you can use to configure the DND settings.

Parameter	features.dnd.allow	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the DND feature.	
	 0-Disabled, DND cannot be activated and users are not allowed to configure DND on the phone. 1-Enabled 	
Default	1	
Parameter	features.dnd_refuse_code	<y000000000xx>.cfg</y000000000xx>
Description	It configures a return code and reason of SIP response messages when rejecting an incoming call by DND. A specific reason is displayed on the caller's phone screen. Note : It works only if "features.dnd.allow" is set to 1 (Enabled).	
Permitted Values	 404-Not Found 480-Temporarily Unavailable 486-Busy Here, the caller's phone screen will display the reason "Busy Here" when the callee enables DND feature. 603-Decline 	
Default	480	
Web UI	Features > General Information > Return Code When DND	

DND Feature Configuration

Yealink phones support DND on code and off code to activate and deactivate server-side DND feature. They may vary on different servers.

Topic

DND Configuration

DND Configuration

The following table lists the parameters you can use to configure DND.

Parameter	account.X.dnd.enable ^[1]	<mac>.cfg</mac>
	It triggers the DND feature to on or off. Note: It works only if "features.dnd.allow" is set to 1 (Enabled) and "features.dnd_mode" is set to 1 (Custom).	
Permitted Values	0-Off 1-On, the phone will reject incoming calls on account X.	
Default	0	
Web UI	Features > Forward& DND > DND > AccountX > DND Status	
Handset UI	W78H/W73H/W59R/W57R/W53H/W56H:	

	OK > Call Features > Do Not Disturb > LineX > Status		
	DD Phone:		
	Menu > Features > DND > AccountX > DND Status		
	CP930W:		
	Menu > Features > DND > LineX > Status <u>CP935W:</u> More > Features > DND > Custom DND > DND Status		
Parameter	account.X.dnd.on_code ^[1]	<mac>.cfg</mac>	
	It configures the DND on code to activate the server-side DND feat	Jre.	
Description	The phone will send the DND on code to the server when you activate the DND feature on the phone.		
• • • •	Note: It works only if "features.dnd.allow" is set to 1 (Enabled) and "features.dnd_mode" is set to 1 (Custom).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > Forward& DND > DND > AccountX > On Code		
Parameter	account.X.dnd.off_code ^[1]	<mac>.cfg</mac>	
	It configures the DND off code to deactivate the server-side DND feature. The phone will send the DND off code to the server when you deactivate the DND feature on the phone. Note: It works only if "features.dnd.allow" is set to 1 (Enabled) and "features.dnd_mode" is set to (Custom).		
Description			
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > Forward& DND > DND > AccountX > Off Code		

[1]X is the account ID. X=1-10.

DND Synchronization for Server-side Configuration

DND synchronization feature provides the capability to synchronize the status of the DND features between the IP phone and the server.

If the DND is activated in phone mode, the DND status changing locally will be synchronized to all registered accounts on the server; but if the DND status of a specific account is changed on the server, the DND status locally will be changed.

The following table lists the parameters you can use to configure DND synchronization for server-side.

Parameter	features.feature_key_sync.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables to synchronize the feature status between the IP phone and the server.	
Permitted 0-Disabled		
Values	1-Enabled, the phone sends a SUBSCRIBE message with event "as-feature-event".	

Default	0	
Parameter	account.X.dnd.feature_key_sync.enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the DND feature synchronization for account X. Note : The value configured by this parameter takes precedence over that configured by the parameter "features.dnd.feature_key_sync.enable". It works only if "account.X.feature_key_sync.enable" is set to 1 (Enabled).	
Velues	 0-Disabled 1-Enabled, server-based DND is enabled. Server and local phone DND are synchronized. 	
Default	Blank	

^[1]X is the account ID. X=1-10.

Call Hold

Call hold provides a service of placing an active call on hold. It enables you to pause activity on an active call so that you can use the phone for another task, for example, to place or receive another call.

When a call is placed on hold, the phones send an INVITE request with HOLD SDP to request remote parties to stop sending media and to inform them that they are being held. The phones support two call hold methods, one is RFC 3264, which sets the "a" (media attribute) in the SDP to sendonly, recvonly or inactive (for example, a=se-endonly). The other is RFC 2543, which sets the "c" (connection addresses for the media streams) in the SDP to zero (for example, c=0.0.0.0).

Topic

Call Hold Configuration

Call Hold Configuration

The following table lists the parameters you can use to configure call hold.

Parameter	sip.rfc2543_hold	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to use RFC 2543 (c=0.0.0.0) outgoing hold signaling.	
	0 -Disabled, SDP media direction attributes (such as a=sendonly) per RFC 3264 is used when placing a call on hold.	
Values	1-Enabled, SDP media connection address c=0.0.0.0 per RFC 2543 is used when placing a call on hold.	
Default	0	
Web UI	Features > General Information > RFC 2543 Hold	
Parameter	account.X.hold_use_inactive ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to use inactive outgoing hold signaling. Note : It works only if "sip.rfc2543_hold" is set to 0 (Disabled).	
Permitted Values	 0-Disabled, SDP media direction attribute "a=sendonly" is used when placing a call on hold. 1-Enabled, SDP media direction attribute "a=inactive" is used when placing a call on hold. RTP packets will not be sent or received. 	
Default	0	

^[1]X is the account ID. X=1-10.

Call Forward

You can forward calls in special situations, such as when the phone is busy or there is no answer, or forwarding all incoming calls to a contact immediately.

Topics

Call Forward Settings Configuration Call Forward Feature Configuration Call Forward Synchronization for Server-side Configuration

Call Forward Settings Configuration

You can change the following call forward settings:

- Enable or disable the call forward feature. If disabled, the users have no permission to configure call forward on their phone.
- Allow or disallow users to forward an incoming call to an international telephone number (the prefix is 00).
- Enable or disable the display of the Diversion header. The Diversion header allows the phone which receives a forwarded-call to indicate where the call was from.

The following table lists the parameters you can use to change the call forward settings.

Parameter	features.fwd.allow	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the call forward feature.	
	0-Disabled, call forward feature is not available to the users. 1-Enabled	
Default	1	
Parameter	forward.international.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to forward incoming calls to international numbers (the prefix is 00).	
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Features > General Information > Fwd International	
Parameter	features.fwd_diversion_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to present the diversion information when an incoming call is for- warded to the IP phone.	
Permitted Values	 0-Disabled 1-Enabled, the server can use the Diversion field with a SIP header to inform the phone of a call's history. 	
Default	1	
Web UI	Features > General Information > Diversion/History-Info	
Parameter	features.forward_call_popup.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to pop up the message when you forwards an incoming call to another party.	
Permitted Values	0-Disabled 1-Enabled	

Default

Call Forward Feature Configuration

Yealink phones support call forward on code and off code to activate and deactivate server-side call forward feature. They may vary on different servers.

Topic

Call Forward Configuration

1

Call Forward Configuration

The following table lists the parameters you can use to configure call forward.

Parameter	account.X.always_fwd.enable ^[1]	<mac>.cfg</mac>	
	It triggers always forward feature to on or off.		
Description	Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 1 (Custom).		
Permitted	0 -Off		
Values	1-On, incoming calls to the account X are forwarded to the destination number (configured by the para- meter "account.X.always_fwd.target") immediately.		
Default	0		
Web UI	Features > Forward&DND > Forward > AccountX >	Always Forward > On/Off	
	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Call Features > Call Forward > LineX > Always(Disabled/Enabled) > Status		
	DD Phone:		
Handset UI	Menu > Features > Call Forward > AccountX > Always Forward > Always Forward		
Tanaset of	CP930W:		
	Menu > Features > Call Forward > LineX > Always Forward > Status		
	CP935W:		
	More > Features > Call Forward > AccountX > Always Forward > Always Forward		
Parameter	account.X.always_fwd.target ^[1]	<mac>.cfg</mac>	
	It configures the destination number of the always forward.		
Description	Note: It works only if "features.fwd.allow" is set to 1 (Custom).	(Enabled) and "features.fwd_mode" is set to 1	
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > Forward&DND > Forward > AccountX > Always Forward > Target		
	W78H/W73H/W59R/W57R/W53H/W56H:		
Handset UI	OK > Call Features > Call Forward > LineX > Always(Enabled) > Target		
	DD Phone:		
	Menu > Features > Call Forward > AccountX > Always Forward > Forward to		
	CP930W:		

	Menu > Features > Call Forward > LineX > Always Forward > Target		
	CP935W:		
	More > Features > Call Forward > AccountX > Always Forward > Forward to		
Parameter	account.X.always_fwd.on_code ^[1]	<mac>.cfg</mac>	
	It configures the always forward on code to activate the server-side always forward feature.		
Description	The phone will send the always forward on code and the pre-configured destination number (con- figured by the parameter "account.X.always_fwd.target") to the server when you activate always for- ward feature on the phone.		
	Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 1 (Custom).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > Forward&DND > Forward > AccountX >	Always Forward > On Code	
Parameter	account.X.always_fwd.off_code ^[1]	<mac>.cfg</mac>	
	It configures the always forward off code to deactive	ate the server-side always forward feature.	
Description	The phone will send the always forward off code to the server when you deactivate always forward on feature on the phone.		
	Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 1 (Custom).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > Forward&DND > Forward > AccountX >	Always Forward > Off Code	
Parameter	account.X.busy_fwd.enable ^[1]	<mac>.cfg</mac>	
Description	It triggers the busy forward feature to on or off.		
Permitted Values	0-Off 1-On, incoming calls to the account X are forwarded to the destination number (configured by the parameter "account.X.busy_fwd.target") when the callee is busy.		
Default	0		
Web UI	Features > Forward&DND > Forward > AccountX > Busy Forward > On/Off		
	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Call Features > Call Forward > LineX > Busy(Disabled/Enabled) > Status		
	DD Phone:		
Handset UI	Menu > Features > Call Forward > AccountX > Busy Forward > Busy Forward		
	<u>CP930W:</u>		
	Menu > Features > Call Forward > LineX > Busy Forward > Status		
	<u>CP935W:</u>		
	More > Features > Call Forward > AccountX > Busy Forward > Busy Forward		
Parameter	account.X.busy_fwd.target ^[1]	<mac>.cfg</mac>	

Description	· ·	
(Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 1 (Custom).	
Permitted Values	String within 32 characters	
Default I	Blank	
Web UI	Features > Forward&DND > Forward > AccountX >	Busy Forward > Target
\ -	W78H/W73H/W59R/W57R/W53H/W56H:	
(OK > Call Features > Call Forward > LineX > Busy(Enabled) > Target	
[DD Phone:	
Handset UI	Menu > Features > Call Forward > AccountX > Bus	y Forward > Forward to
	CP930W:	
	Menu > Features > Call Forward > LineX > Busy Fo	rward > Target
(CP935W:	
1	More > Features > Call Forward > AccountX > Busy	Forward > Forward to
Parameter	account.X.busy_fwd.on_code ^[1]	<mac>.cfg</mac>
	It configures the busy forward on code to activate th	e server-side busy forward feature.
Description	The phone will send the busy forward on code and the pre-configured destination number (conf by the parameter "account.X.busy_fwd.target") to the server when you activate the busy forward ture on the phone.	
	Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 1 (Custom).	
Permitted Values	String within 32 characters	
Default I	Blank	
Web UI	Features > Forward&DND > Forward > AccountX >	Busy Forward > On Code
Parameter	account.X.busy_fwd.off_code ^[1]	<mac>.cfg</mac>
	It configures the busy forward off code to deactivate	the server-side busy forward feature.
	The phone will send the busy forward off code to the ture on the phone.	e server when you deactivate the busy forward fea-
(Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 1 (Custom).	
Permitted Values	String within 32 characters	
Default I	Blank	
Web UI	Features > Forward&DND > Forward > AccountX > Busy Forward > Off Code	
Parameter	account.X.timeout_fwd.enable ^[1]	<mac>.cfg</mac>
1	It triggers no answer forward feature to on or off.	
Description	Note: It works only if "features.fwd.allow" is set to 1 (Custom).	(Enabled) and "features.fwd_mode" is set to 1
Permitted (0-Off	

Values	1-On, incoming calls to the account X are forwarded to the destination number (configured by the para-	
	meter "account.X.timeout_fwd.target") after a period of ring time.	
Default	0	
Web UI	Features > Forward&DND > Forward > AccountX > No Answer Forward > On/Off	
	W78H/W73H/W59R/W57R/W53H/W56H:	
	OK > Call Features > Call Forward > LineX > No Ar	nswer(Disabled/Enabled) > Status
	DD Phone:	
Handset UI	Menu > Features > Call Forward > AccountX > No Answer Forward > No Answer Forward	
	CP930W:	
	Menu > Features > Call Forward > LineX > No Ans	wer Forward > Status
	CP935W:	
	More > Features > Call Forward > AccountX > No A	nswer Forward > No Answer Forward
Parameter	account.X.timeout_fwd.target ^[1]	<mac>.cfg</mac>
	It configures the destination number of the no answ	
Description	Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 1 (Custom).	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features > Forward&DND > Forward > AccountX > No Answer Forward > Target	
	W78H/W73H/W59R/W57R/W53H/W56H:	
	OK > Call Features > Call Forward > LineX > No Answer(Enabled) > Target	
	DD Phone:	
Handset UI	Menu > Features > Call Forward > AccountX > No Answer Forward > Forward to	
nanuset of	CP930W:	
	Menu > Features > Call Forward > LineX > No Answer Forward > Target	
	CP935W:	
	More > Features > Call Forward > AccountX > No A	nswer Forward > Forward to
Parameter	account.X.timeout_fwd.timeout ^[1] <mac>.cfg</mac>	
	It configures ring times (N) to wait before forwarding	
Description	Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 1 (Custom).	
Permitted Values	Integer from 0 to 20	
Default	2	
Web UI	Features > Forward&DND > Forward > AccountX >	No Answer Forward > After Ring Time(0~120s)
	W78H/W73H/W59R/W57R/W53H/W56H:	
Handset UI	OK > Call Features > Call Forward > LineX > No Answer(Enabled) > After Ring Time	
	DD Phone:	

	Menu > Features > Call Forward > AccountX > No Answer Forward > After Ring Time		
	CP930W:		
	Menu > Features > Call Forward > LineX > No Answer Forward > After Ring Time		
	CP935W:		
	More > Features > Call Forward > AccountX >No A	nswer Forward > After Ring Times	
Parameter	account.X.timeout_fwd.on_code ^[1]	<mac>.cfg</mac>	
	It configures the no answer forward on code to activ	vate the server-side no answer forward feature.	
1 locorintion	The phone will send the no answer forward on code and the pre-configured destination number (con- figured by the parameter "account.X.timeout_fwd.target") to the server when you activate no answer forward feature on the phone.		
	Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 1 (Custom).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > Forward&DND > Forward > AccountX >	No Answer Forward > On Code	
Parameter	account.X.timeout_fwd.off_code ^[1]	<mac>.cfg</mac>	
	It configures the no answer forward off code to dea	ctivate the server-side no answer forward feature.	
Description	The phone will send the no answer forward off code to the server when you deactivate no answer for- n ward feature on the phone.		
	Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 1 (Custom).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > Forward&DND > Forward > AccountX > No Answer Forward > Off Code		

Call Forward Synchronization for Server-side Configuration

Call forward synchronization feature provides the capability to synchronize the status of the call forward features between the IP phone and the server.

If the call forward is activated in phone mode, the forward status changing locally will be synchronized to all registered accounts on the server; but if the forward status of the specific account is changed on the server, the forward status locally will be changed.

The following table lists the parameters you can use to configure call forward synchronization for server-side.

Parameter	features.feature_key_sync.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables to synchronize the feature status between the IP phone and the server.	
Permitted Values	 0-Disabled 1-Enabled, the phone sends a SUBSCRIBE message with event "as-feature-event" to the server. 	
Default	0	
Parameter	account.X.forward.feature_key_sync.enable ^[1]	<mac>.cfg</mac>

	It enables or disables the forward feature synchronization for account X.
-	Note : The value configured by this parameter takes precedence over that configured by the parameter "features.forward.feature_key_sync.enable". It works only if "account.X.feature_key_sync.enable" is set to 1 (Enabled).
Permitted	0-Disabled
Values	1-Enabled, server-based call forward is enabled. Server and local phone call forward are syn- chronized.
Default	Blank

Call Transfer

Call transfer enables the phones to transfer an existing call to a third party. For example, if party A is in an active call with party B, party A can transfer this call to party C (the third party). Then, party B will begin a new call with party C, and party A will disconnect.

Yealink phones support call transfer using the REFER method specified in RFC 3515 and offer three types of transfer:

- Blind Transfer -- Transfer a call directly to another party without consulting. Blind transfer is implemented by a simple REFER method without Replaces in the Refer-To header.
- Semi-attended Transfer -- Transfer a call after hearing the ringback tone. The semi-attended transfer is implemented by a REFER method with Replaces in the Refer-To header.

The semi-attended transfer is applicable to that when users do not want to consult with the third party after hearing the ringback tone, and the third party has not answered the call, the users can cancel the transfer or implement the transfer.

• Attended Transfer (Consultative Transfer) -- Transfer a call with prior consulting. Attended transfer is implemented by a REFER method with Replaces in the Refer-To header.

Topic

Call Transfer Configuration

Call Transfer Configuration

The following table lists the parameters you can use to configure call transfer.

Parameter	features.transfer.allow	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the call transfer feature.		
Permitted	0 -Disabled, call transfer feature is not available to users.		
Values	1-Enabled		
Default	1		
Parameter	ransfer.semi_attend_tran_enable <y000000000xx>.cfg</y000000000xx>		
Description	n It enables or disables the semi-attended transfer.		
Permitted Values	 0-Disabled, when the user presses the TRAN key after hearing the ringback tone, the phone will blind transfer the call. 1-Enabled, when the user presses the TRAN key after hearing the ringback tone, the phone will trans- 		
Default	fer the call after the transferee answers the call. 1		

Web UI	Features > Transfer > Semi-Attended Transfer		
Parameter	account.X.transfer_refer_to_contact_header.enable ^[1] <mac>.cfg</mac>		
Description	It enables or disables the Refer-To header to use the information of the Contact header in the second 200 OK message when attended transfer.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	features.transfer_keep_session2_after_failed.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to keep the original call status a ded/attended transfer.	after the server rejects the semi-atten-	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	transfer.blind_tran_on_hook_enable	<y000000000xx>.cfg</y000000000xx>	
Description			
Permitted Values	Note: Blind transfer means transferring a call directly to another party without consulting. 0-Disabled 1-Enabled		
Default	1		
Web UI	Features > Transfer > Blind Transfer On Hook		
Parameter	transfer.on_hook_trans_enable	<y000000000xx>.cfg</y000000000xx>	
It enables or disables the phone to complete the semi-attended/attended transfer throug besides pressing the TRAN key.		attended transfer through on-hook	
	Note: Semi-attended transfer means transferring a call after hearing the ringback tone; Attended trans fer means transferring a call with prior consulting.		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Features > Transfer > Attended Transfer On Hook		

 $^{[1]}X$ is the account ID. X=1-10.

No Answer

No answer enables the phone to reply to the caller with the return code and reason when the handset does not answer an incoming call.

Topic

Call Transfer Configuration

No Answer Configuration

The following table lists the parameters you can use to configure the no answer feature.

Description	It configures a return code and reason for response messages when the handset does not answer an incoming call.
Permitted Values	404-Not Found 480-Temporarily Unavailable 486-Busy Here 600-Busy Everywhere 603-Decline
Default	486
Web UI	Features > General Information > Return Code When No Answer

Conference

The Yealink phones support local conference and network conference.

Topics

```
Conference Type Configuration
Local Conference Configuration
Network Conference Configuration
```

Conference Type Configuration

You can specify which type of conference to establish.

The following table lists the parameter you can use to set a conference type.

Parameter	account.X.conf_type ^[1]	<mac>.cfg</mac>
Description	It configures the conference type for a specific a	ccount.
Permitted	-Local Conference	
Values	-Network Conference	
Default)	
Web UI	Account > Advanced > Conference Type	

 $^{[1]}X$ is the account ID. X=1-10.

Network Conference Configuration

Network conference, also known as a centralized conference, provides you with the flexibility of call with multiple participants (more than three). The phones implement network conference using the REFER method specified in RFC 4579. This feature depends on the support from a SIP server

For network conference, if any party leaves the conference, the remaining parties are still connected.

The following table lists the parameter you can use to configure the network conference.

Parameter	account.X.conf_uri ^[1]	<mac>.cfg</mac>
Description	It configures the network conference URI for a specific account.	
2 coortipation	Note: It works only if "account.X.conf_type" is set to 2 (Network Conference).	
Permitted	SIP URI within 511 characters	
Values		

Default	Blank
Web UI	Account > Advanced > Conference URI

Local Conference Configuration

The local conference requires a host phone to process the audio of all parties. Yealink phones support up to 3 parties (5 parties for CP930W/CP935W)(including yourself) in a local conference call.

The following table lists the parameters you can use to configure the local conference.

Parameter	transfer.tran_others_after_conf_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to transfer the local conference call to the other two parties after the conference initiator exits the local conference call. Note : It works only if "account.X.conf_type" is set to 0 (Local Conference).	
Permitted Values	 0-Disabled, all parties are disconnected when the conference initiator drops the conference call. 1-Enabled, the other two parties remain connected when the conference initiator drops the conference call. 	
Default	0	

Push-to-Talk (PTT)

Starting with firmware 146.85.0.35, the push-to-talk feature is available on Yealink handsets, headsets and DD Phone. It allows the handset to be used like a handheld transceiver (walkie-talkie) among handsets, headsets, and DD Phone registered at the same base station.

Topic

Push-to-Talk (PTT) Configuration

Push-to-Talk (PTT) Configuration

The following table lists the parameters you can use to configure PTT.

Parameter	features.ptt.group.x.name	<y000000000xx>.cfg</y000000000xx>
Description	It configures the PTT group name.	
Permitted Values	String within 32 characters	
Default	GroupX	
Web UI	Features > Push-to-Talk > Group Name	
Parameter	features.ptt.group.x.member	<y000000000xx>.cfg</y000000000xx>
Description	It select the PTT groupX members. Note : ① You can only fill in a maximum of 10 members. ② The number of members is affected by the wide and narrow-band channels. A maximum of 5 calls are allowed simultaneously under the broadband. If there are more than 5 active members, switch to narrowband.	

Permitted Values	Integer from 1 to 10		
Default	Blank		
Web UI	Features > Push-to-Talk > Group Member		
Parameter	features.ptt.handset_accept.enable	<y000000000xx>.cfg</y000000000xx>	
	It configures whether the device receives the PTT meeting prompt.		
Description	Note: $\textcircled{1}$ This parameter is only applicable to the handset and DD Phone.		
	② PTT calls prompt will only be received by idle has a second	indsets.	
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Parameter	features.ptt.time	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the duration of the PTT message or PTT meeting. After auto provisioning, when the set- ting meeting duration is reached, your device will automatically exit the meeting.		
Permitted Values	60, 120, 240, 480, 0 (min) Note : The value 0 means that the meeting continues and all participants will not exit the meeting until the meeting ends.		
Default	3 mins		
Parameter	handset.x.ptt_presskey.idle_play.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the device to join and listen to the talk	in the same PTT group automatically or manually.	
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Parameter	handset.x.ptt_presskey.idle_play.track	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the channel where the device automatically plays the PTT talk sound.		
Permitted	0 -speaker channel		
Values	1-handset channel		
Default	0		
L			

SD Card Recording

CP930W-Base phones support manual recording during a call. Before recording, ensure that the SD card has been connected to the phone.

Note: Yealink phones support SD card in FAT32 or NTFS format.

The recorded calls are saved in "*.aac" format and include a date/time stamp, the other party's number/IP address/name (or the first person's number/IP address/name you called) and the recording file size. For example, 20160422-1515-Bob was created on Apr. 22, 2016, at 15:15 and you have a call with Bob. Recorded calls can be played on either the phone itself or on a computer using an application capable of playing *.aac files.

Important: 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 where you are. It is also very important to have the consent of the person you are calling before recording the conversation.

Topic

USB and SD Card Recording Configuration

USB and SD Card Recording Configuration

The following table lists the parameter you can use to configure SD-card and USB recording.

Parameter	features.usb_call_recording.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the USB call recording feature.		
Description	Note: It works only if "static.usbdisk.function.enable" is set to 1 (Enabled).		
Permitted	0 -Disabled		
Values	1-Enabled, the recorded calls will be saved to the USB flash drive.		
Default	0		
Supported Devices	CP935W-Base		
Parameter	features.sd_card_call_recording.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables call recording (using an SD card) feature.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Supported Devices	CP930W-Base		

Multicast Paging

Multicast Paging allows you to easily and quickly broadcast instant audio announcements to users who are listening to a specific multicast group on a specific channel.

Yealink phones support the following 31 channels:

- **0**: Broadcasts are sent to channel 0. Note that the Yealink phones running old firmware version (old paging mechanism) can be regarded as listening to channel 0. It is the default channel.
- 1 to 25: Broadcasts are sent to channel 1 to 25. We recommend that you specify these channels when broadcasting with Polycom phones which have 25 channels you can listen to.
- 26 to 30: Broadcasts are sent to channel 26 to 30.

The phones can only send and receives broadcasts to/from the listened channels. Other channels' broadcasts will be ignored automatically by the IP phone.

Topics

Multicast Paging Group Configuration Multicast Listening Group Configuration Multicast Paging Settings

Multicast Paging Group Configuration

Yealink phones support up to 31 groups for paging. You can assign multicast IP address with a channel for each group, and specify a label to each group to identify the phones in the group, such as All, Sales, or HR.

The following table lists the parameters you can use to configure a multicast paging group.

Parameter	multicast.paging_address.X.ip_address ^[1]	<y000000000xx>.cfg</y000000000xx>
-----------	--	-----------------------------------

It configures the IP address and port number of the multicast paging group in the paging list.		
IP address: port (224.0.0.1-239.255.255.255 port: 0-65535)		
Blank		
Directory > Multicast IP > Paging List > Paging Address		
multicast.paging_address.X.label ^[1] <y000000000xx>.cfg</y000000000xx>		
It configures the name of the multicast paging group to be displayed in the paging list.		
String		
Blank		
Directory > Multicast IP > Paging List > Label		
multicast.paging_address.X.channel ^[1] <y00000000xx>.cfg</y00000000xx>		
otion It configures the channel of the multicast paging group in the paging list.		
0-all the Yealink phones running old firmware version or Yealink phones listen to channel 0 or party available devices in the paging group can receive the RTP stream.Permitted Values1 to 25-the Polycom or Yealink phones preconfigured to listen to the channel can receive the R stream.		
		26 to 30-the Yealink phones preconfigured to listen to the channel can receive the RTP stream.
0		
Directory > Multicast IP > Paging List > Channel		
	IP address: port (224.0.0.1-239.255.255.255 port: 0 Blank Directory > Multicast IP > Paging List > Paging Add multicast.paging_address.X.label ^[1] It configures the name of the multicast paging group It will be displayed on the phone screen when place String Blank Directory > Multicast IP > Paging List > Label multicast.paging_address.X.channel ^[1] It configures the channel of the multicast paging group o-all the Yealink phones running old firmware versi party available devices in the paging group can rec 1 to 25-the Polycom or Yealink phones preconfigure stream. 26 to 30-the Yealink phones preconfigured to lister 0	

^[1]X ranges from 1 to 31.

Multicast Listening Group Configuration

Yealink phones support up to 31 groups for listening. You can assign multicast IP address with a channel for each group, and specify a label to each group to identify the phones in the group, such as All, Sales, or HR.

The following table lists the parameters you can use to configure the multicast listening group.

Parameter	multicast.listen_address.X.ip_address ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the multicast address and port number that the phone listens to.	
Permitted Values	IP address: port (224.0.0.1-239.255.255.255 port: 0-65535)	
Default	Blank	
Web UI	Directory > Multicast IP > Multicast Listening > Listening Address	
Parameter	multicast.listen_address.X.label ^[1] <y00000000xx>.cfg</y00000000xx>	
Description	It configures the label to be displayed on the phone screen when receiving the multicast paging calls.	
Permitted Values	String within 99 characters	
Default	Blank	

Web UI	Directory > Multicast IP > Multicast Listening > Label		
Parameter	multicast.listen_address.X.channel ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	on It configures the channel that the phone listens to.		
Permitted Values	 0-the phone can receive an RTP stream of the pre-configured multicast address from the phones r ning old firmware version, from the phones listen to the channel 0, or from the available third-party devices. 1 to 25-the phone can receive an RTP stream of the pre-configured multicast address on the chan 1 to 25 respectively from Yealink or Polycom phones. 		
26 to 30 -the phone can receive the RTP stream of the pre-complete nel 26 to 30 respectively from Yealink phones.		he pre-configured multicast address on the chan-	
Default	0		
Web UI	Directory > Multicast IP > Multicast Listening > Channel		

^[1]X ranges from 1 to 31.

Multicast Paging Settings

You can configure some general settings for multicast paging, for example, specify a codec, configure the volume and audio device for listening to a paging call.

By default, all the listening groups are considered with a certain priority from 1 (lower priority) to 31 (higher priority). If you neither want to receive some paging calls nor miss urgent paging calls when there is a voice call or paging call, or when DND is activated, you can use the priority to define how your phone handles different incoming paging calls.

Paging Barge

You can set your phone whether an incoming paging call interrupts an active call.

The Paging Barge defines the lowest priority of the paging group from which the phone can receive a paging call when there is a voice call (a normal phone call rather than a multicast paging call) in progress. You can specify a priority that the incoming paging calls with higher or equal priority are automatically answered, and the lower ones are ignored.

If it is disabled, all incoming paging calls will be automatically ignored.

Paging Priority

You can set your phone whether a new incoming paging call interrupts a current paging call.

The Paging Priority feature decides how the phone handles incoming paging calls when there is already a paging call on the phone. If enabled, the phone will ignore incoming paging calls with lower priorities, otherwise, the phone will answer incoming paging calls automatically and place the previous paging call on hold. If disabled, the phone will automatically ignore all incoming paging calls.

Topic

Multicast Paging Settings Configuration

Multicast Paging Settings Configuration

The following table lists the parameters you can use to change multicast paging settings.

Parameter	multicast.codec	<y000000000xx>.cfg</y000000000xx>
Description	It configures the codec for multicast paging.	
Permitted	PCMU, PCMA, G729, G722	

Values		
Default	G722	
Web UI	Features > General Information > Multicast Codec	
Parameter		y000000000xx>.cfg
	It enables or disables the phone to handle the incomi	
Description	multicast paging call on the phone.	
	0-Disabled, the phone will ignore the incoming multicast paging calls when there is an active mul-	
Permitted Values	ticast paging call on the phone.	
	1-Enabled, the phone will receive the incoming multicast paging call with a higher priority and ignore the one with a lower priority.	
Default	1	
Web UI	Directory > Multicast IP > Paging Priority Active	
Parameter	multicast.receive_priority.priority <>	y000000000xx>.cfg
Description	It configures the priority of the voice call (a normal phone call rather than a multicast paging call) in progress.	
	1 is the highest priority, 31 is the lowest priority.	
	0 -Disabled, all incoming multicast paging calls will be automatically ignored when a voice call is in progress.	
	1-1	
Permitted	2-2	
Values	3-3	
	31 -31	
	If it is set to other values, the phone will receive the incoming multicast paging call with a higher or equal priority and ignore the one with a lower priority when a voice call is in progress.	
Default	31	
Web UI	Directory > Multicast IP > Paging Barge	
Parameter	multicast.receive.ignore_dnd.priority <>	y000000000xx>.cfg
Description	It configures the lowest priority of the multicast paging call that can be received when DND is activ- ated in phone mode.	
	1 is the highest priority, 31 is the lowest priority.	a automatically imported when DND is activated in
	0-Disabled, all incoming multicast paging calls will be automatically ignored when DND is activated in phone mode.	
	1-1	
	2-2	
Values	3 -3	
	31 -31	

	If it is not set to 0 (Disabled), the phone will receive the incoming multicast paging call with a higher or same priority than this value and ignore that with a lower priority than this value when DND is activated in phone mode.		
Default	0		
Web UI	Directory > Multicast IP > Ignore DND		
Parameter	multicast.listen_address.X.volume ^[1] <y00000000xx>.cfg</y00000000xx>		
	It configures the volume of the speaker when receiving the multicast paging calls.		
Description	If it is set to 0, the current volume of the speaker takes effect. The volume of the speaker can be adjus- teed by pressing the Volume key in advance when the phone is during a call. You can also adjust the volume of the speaker during the paging call.		
	If it is set to 1 to 15, the configured volume takes effect and the current volume of the speaker will be ignored. You are not allowed to adjust the volume of the speaker during the paging call.		
Permitted Values	Integer from 0 to 15		
Default	0		
Parameter	multicast.receive.use_speaker	<y000000000xx>.cfg</y000000000xx>	
Description	h It enables or disables the phone to always use the speaker as the audio device when receiving the multicast paging calls.		
Permitted Values	 0-Disabled, the engaged audio device will be used when receiving the multicast paging calls. 1-Enabled 		
Default	0		

^[1]X ranges from 1 to 31.

End Call on Hook

You can configure whether to end a call when you place the handset into the charging cradle.

Topic

End Call on Hook Configuration

End Call on Hook Configuration

The following table lists the parameter you can use to configure the end call on hook.

Parameter	phone_setting.end_call_on_hook.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables to end a call when placing the handset into the charger cradle.	
Permitted Values	0-Never 1-Always	
Default	1	
Supported Devices	W78H, W73H, W59R, W53H, W56H, W57R	
Web UI	Features > General Information > End Call On Hook	

Advanced Features

The advanced features require server support. Consult your server partner to find out if these features are supported.

Topics

Call Park and Retrieve Busy Lamp Field Shared Line Intercom Action URI Voice Mail

Call Park and Retrieve

Call park allows users to park a call on a special extension and then retrieve it from another phone (for example, a phone in another office or conference room).

The phones support call park feature under the following modes:

- FAC mode: parks the call to the local extension or the desired extension through dialing the park code.
- **Transfer mode**: parks the call to the shared parking lot through performing a blind transfer. For some servers, the system will return a specific call park retrieve number (park retrieve code) from which the call can be retrieved after parking successfully.

Topic

Call Park and Retrieve Configuration

Call Park and Retrieve Configuration

The following table lists the parameters you can use to configure the call park and retrieve.

Parameter	features.call_park.park_mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures the call park mode.	
Permitted	1-FAC, park a call through dialing the call park code.	
Values	2-Transfer, blind transfer the call to a shared parking lot.	
Default	2	
Web UI	Features > Pick up & Park > Call Park Mode	
Parameter	features.call_park.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the call park feature.	
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	
Web UI	Features > Pick up & Park > Call Park	
Parameter	features.call_park.park_code	<y000000000xx>.cfg</y000000000xx>
Description	It configures the call park code for FAC call park mode or configures shared parking lot for Transfer call park mode.	
Permitted	String within 256 characters	

Values		
Default	Blank	
Web UI	Features > Pick up & Park > Call Park Code	
Parameter	features.call_park.park_retrieve_code	<y000000000xx>.cfg</y000000000xx>
Description	It configures the park retrieve code for FAC call park mode or configure fer call park mode.	es retrieve parking lot for Trans-
Permitted Values	String within 256 characters	
Default	Blank	
Web UI	Features > Pick up & Park > Park Retrieve Code	
Parameter	features.pickup.direct_pickup_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the user to use DPickup soft key when performir ture.	ng the directed call pickup fea-
Permitted Values	0-Disabled	
	1-Enabled, the phone will display the DPickup soft key on the Dialing	screen.
Default Ouwerseterd	0	
Supported Devices	DDPhone(Color Screen)	
Web UI	Features > Pick up & Park > Directed Call Pickup	
Parameter	features.pickup.direct_pickup_code	<y000000000xx>.cfg</y000000000xx>
	It configures the directed call pickup code on a phone basis.	
	Note: The code configured by "account.X.direct_pickup_code" takes precedence over that configured by this parameter.	
Permitted Values	String within 32 characters	
Default	Blank	
Supported Devices	DDPhone(Color Screen)	
Web UI	Features > Pick up & Park > Directed Call Pickup Code	
Parameter	features.pickup.group_pickup_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the user to use GPickup soft key when performing group call pickup feature.	
Permitted Values	String within 32 characters	
Default	Blank	
Supported Devices	DDPhone(Color Screen)	
Web UI	Features > Pick up & Park > Group Call Pickup	
Parameter	features.pickup.group_pickup_code	<y000000000xx>.cfg</y000000000xx>
Description	It configures the group pickup code.	
Description	Note: The code configured by this parameter takes precedence over the	nat configured by "fea-

	tures.pickup.group_pickup_code"	
Permitted Values	String within 32 characters	
Default	Blank	
Supported Devices	DDPhone(Color Screen)	
Web UI	Features > Pick up & Park > Group Call Pickup Code	
Parameter	account.X.direct_pickup_code ^[1]	<mac>.cfg</mac>
	It configures the directed call pickup code.	
Description	Note: The code configured by this parameter takes precedence over that configured by "fea- tures.pickup.direct_pickup_code".	
Permitted Values	String within 32 characters	
Default	Blank	
Supported Devices	DDPhone(Color Screen)	
Web UI	Account > Advanced > Directed Call Pickup Code	
Parameter	account.X.group_pickup_code ^[1]	<y000000000xx>.cfg</y000000000xx>
	It configures the group pickup code.	
Description	Note : The code configured by this parameter takes precedence over that configured by "fea- tures.pickup.group_pickup_code"	
Permitted Values	String within 32 characters	
Default	Blank	
Supported Devices	DDPhone(Color Screen)	
Web UI	Account > Advanced > Group Call Pickup Code	

Busy Lamp Field

The Busy Lamp Field (BLF) feature enables the IP phone to monitor specific remote lines for state changes on the phone.

Yealink phones support two methods of BLF configuration:

• Configure a line key as BLF key to monitor a specific remote line

Configure BLF List to monitor a list of specific remote lines

The BLF feature enables the following functions to the users:

- Monitor the status of line on their phone
- Display caller ID information
- Answer incoming calls to the monitored line (called directed call pickup)
- Park and retrieve calls to the monitored line
- Initiate an outgoing intercom call to the monitored line

- Barging In an Active Call by BLF List Key
- · Park the active call to the monitored users who are in the BLF list

Topics

BLF/BLF List Subscription Visual and Audio Alert for Monitor Lines Call Information Display Configuration

BLF/BLF List Subscription

Yealink phones support BLF using a SUBSCRIBE/NOTIFY mechanism as specified in RFC 3265.

BLF Subscription

When you configure the IP phone to monitor a specific line, the phone sends a SUBSCRIBE request with Request-URI containing the monitor line URI to the server, and then receives a NOTIFY request. The NOTIFY message contains an XML body with the status of the specific monitored line.

The following example shows a NOTIFY message for a BLF line "012":

[xml version="1.0"?
	<dialog-info entity-<br="" state="full" version="1" xmlns="urn:ietf:params:xml:ns:dialog-info">y="sip:012@10.20.10.42:5060"></dialog-info>
	<dialog id="0000"> <state> terminated</state> </dialog>

</dialog-info>

BLF List Subscription

When you configure the IP phone to monitor a list of specific remote lines, the phone sends a SUBSCRIBE request with Request-URI containing the BLF List URI, and then receives a NOTIFY request. The NOTIFY message contains an XML body with the status of each monitor line.

The following example shows a NOTIFY message for a BLF List, the BLF List contains 4605 and 4607:

<?xml version="1.0" <?xml version="1.0"?>

xmlns="urn:ietf:params:xml:ns:rlmi" xmlns="urn:ietf:params:xml:ns:rlmi" version="0" fullState="true">

<resource uri="sip:4605@pbx.yealink.com">

<name > 4605 Yealink</name>

<instance id="JQZxud2qeo" state="active" cid="8y35ri@broadworks"/>

</resource>

<resource uri="sip:4605@pbx.yealink.com">

<name > 4607 Yealink</name>

<instance id="pXHQ97tPyQ" state="active" cid="tYzwJM@broadworks"/>

</resource>

</list>

Topic

BLF/BLF List Subscription Configuration

BLF/BLF List Subscription Configuration

The following table lists the parameters you can use to configure BLF/BLF List subscription.

Parameter	account.X.blf.subscribe_period ^[1]	<mac>.cfg</mac>
Description	It configures the period (in seconds) of the BLF subscription.	
Permitted Values	Integer from 30 to 2147483647	
Default	1800	
Supported Devices	DD Phone(Color Screen)	
Web UI	Account > Advanced > Subscription Period (Seconds)	
Parameter	account.X.blf.subscribe_event ^[1]	<mac>.cfg</mac>
Description	It configures the event of the BLF subscription.	
Permitted	0-dialog	
Values	1-presence	
Default	0	
Supported Devices	DD Phone(Color Screen)	
Parameter	account.X.out_dialog_blf_enable ^[1] <mac>.cfg</mac>	
Description	It enables or disables the phone to handle NOTIFY messages out of the BLF dialog.	
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	
Supported Devices	DD Phone(Color Screen)	
Parameter	account.X.blf.match_host.enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables host match feature for BLF/BLF list feature.	
Permitted	0-Disabled	
Values	 Enabled, the phone can only recognize the NOTIFY message w one in the SUBSCRIBE message. 	hose host field is the same as the
Default	0	
Supported Devices	DD Phone(Color Screen)	
Parameter	sip.terminate_notify_sub_delay_time	<y000000000xx>.cfg</y000000000xx>
Description	Description It configures the interval (in seconds) for the phone to re-subscribe when it receives the NOTIFY sage with the subscription state of Terminated. If it is set to 0, the phone will re-subscribe immediately.	
Permitted Values	Integer greater than 0	
Default	0	
Supported Devices	DD Phone(Color Screen)	

Parameter	sip.sub_refresh_random	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to use the random renewal mechanism.		
	Note: It works only if "account.X.subscribe_expires_overlap" is set to 0 (Disabled).		
Permitted			
Values			
Default	0		
Supported Devices	DD Phone(Color Screen)		
Parameter	account.X.blf.blf_list_uri ^[1]	<mac>.cfg</mac>	
Description	It configures the BLF List URI to monitor a list of users for account	Х.	
Permitted Values	String within 256 characters		
Default	Blank		
Web UI	Account > Advanced > BLF List URI		
Supported Devices	DD Phone(Color Screen)		
Parameter	account.X.blf_list_code ^[1]	<mac>.cfg</mac>	
Description	It configures the feature access code that initiates a directed call p	pickup for account X.	
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Account > Advanced > BLF List Pickup Code		
Supported Devices	DD Phone(Color Screen)		
Parameter	account.X.blf_list_barge_in_code ^[1]	<mac>.cfg</mac>	
Description	It configures the serial numbers of the monitored users in the BLF list where you can park the active call for account X.Multiple serial numbers are separated by commas.		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Account > Advanced > BLF List Barge in Code		
Supported Devices	DD Phone(Color Screen)		
Parameter	account.X.blf_list_call_parked_code ^[1]	<mac>.cfg</mac>	
	It configures the feature access code for the call park for account	X.	
Description	Note: This parameter has a higher priority than "transfer.dsskey_deal_type", so that when you press the BLF list key during a call, the phone parks a call other than transferring the call. It works only if "account.X.blf_list_call_parked_code" is configured.		
Permitted	Blank		

	All	
Values	Serial numbers of monitored users in the BLF list	
Default	Blank	
Web UI	Account > Advanced > BLF List Call Parked Code	
Supported Devices	DD Phone(Color Screen)	
Parameter	account.X.blf_list_retrieve_call_parked_code ^[1]	<mac>.cfg</mac>
Description	It configures the feature access code that initiates retrieval of a parked call on the monitored user.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Account > Advanced >BLF List Retrieve Call Parked Code	
Supported Devices	DD Phone(Color Screen)	

Visual and Audio Alert for Monitor Lines

Visual and Audio Alert feature allows the phone to display the caller ID and play an audio alert when a BLF line receives an incoming call.

Topics

Visual and Audio Alert for BLF Lines Configuration

Visual and Audio Alert for BLF Lines Configuration

The following table lists the parameters you can use to configure a visual and audio alert for BLF lines.

Parameter	ddp.X.features.pickup.blf_visual_enable	<y000000000xx> .cfg</y000000000xx>
Description	It enables or disables thehandset to display a visual alert when the monitored user receives an incoming call.	
	0-Disabled 1-Enabled	
Default	0	
Supported Devices	DD Phone(Color Screen)	
Parameter	ddp.X.features.pickup.blf_visual.list 000000000xx .cfg	
Description	It configures the monitored users who want to enable the visual alert for BLF pickup feature. Multiple monitored users are separated by commas. Example: ddp.X.features.pickup.blf_visual.list = any or leave it blank The phone displays a visual alert when any monitored user receives an incoming call. ddp.X.features.pickup.blf_visual.list = 4604,4605 The phone displays a visual alert when monitored user 4604 or 4605 receives an incoming call.	

The phone displays a visual alert when any user in the List 1 receives an incoming call. ListX stands for the BLF list of account X configured by the parameter "account.X.blf.blf_list_uri".		
Note: It works only if "ddp.X.features.pickup.blf_visual_enable" is set to 1 (Enabled).		
any		
Monitored phone number		
ListX ^[1]		
any		
DD Phone(Color Screen)		
ddp.X.features.pickup.blf_audio_enable	<y000000000xx>.cfg</y000000000xx>	
It enables or disables the handset to play an audio alert when the monitored user receives an incoming call.		
0-Disabled		
0		
DD Phone(Color Screen)		
ddp.X.features.pickup.blf_audio.list	<y000000000xx>.cfg</y000000000xx>	
It configures the monitored users who want to enable the audio alert for BLF pickup feature.		
Multiple monitored users are separated by commas.		
Example:		
ddp.X.features.pickup.blf_audio.list = any or leave it blank		
The IP phone plays an audio alert when any monitored user receives an incoming call.		
ddp.X.features.pickup.blf_audio.list = 4604,4605		
The IP phone plays an audio alert when monitore		
ddp.X.features.pickup.blf_audio.list = List1		
The IP phone plays an audio alert when any user in the List 1 receives an incoming call. ListX stands for the BLF list of account X configured by the parameter "account.X.blf.blf_list_uri".		
Note: It works only if "ddp.X.features.pickup.blf_audio_enable" is set to 1 (Enabled).		
any		
any		
	stands for the BLF list of account X configured by Note: It works only if "ddp.X.features.pickup.blf_v any Monitored phone number ListX ^[1] any DD Phone(Color Screen) ddp.X.features.pickup.blf_audio_enable It enables or disables the handset to play an aud incoming call. 0 -Disabled 1 -Enabled 0 DD Phone(Color Screen) ddp.X.features.pickup.blf_audio.list It configures the monitored users who want to en Multiple monitored users are separated by comm Example: ddp.X.features.pickup.blf_audio.list = any or leav The IP phone plays an audio alert when any mor ddp.X.features.pickup.blf_audio.list = 4604,4605 The IP phone plays an audio alert when monitored ddp.X.features.pickup.blf_audio.list = List1 The IP phone plays an audio alert when any use	

Call Information Display Configuration

The following table lists the parameter you can use to configure call information display.

Parameter	features.blf.show_callinfo.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display the ca	II information by long pressing the BLF/BLF List	

	key.	
Permitted Values	 0-Disabled 1-Enabled, when the monitored line is ringing, during a call, or has a parked call, users can long press the BLF/BLF List key to view the call information, and then select to pick up the incoming call, barge in a conference, or retrieve the parked call. 	
Default	0	
Supported Devices	DD Phone(Color Screen)	

Shared Line

Yealink phones support Shared Call Appearance (SCA) to share a line. Shared call appearances enable more than one phone to share the same line or registration. The methods you use vary with the SIP server you are using.

The shared line users have the ability to do the following:

- Place and answer calls
- Place a call on hold
- Retrieve a held call remotely (not applicable to CP930W-Base phones)
- Barge in an active call (not applicable to CP930W-Base phones)
- Pull a shared call (not applicable to CP930W-Base phones)

Topic

Shared Call Appearance (SCA) Configuration

Shared Call Appearance (SCA) Configuration

In SCA scenario, an incoming call can be presented to multiple phones simultaneously. Any IP phone can be used to originate or receive calls on the shared line.

Yealink phones support SCA using a SUBSCRIBE/NOTIFY mechanism as specified in RFC 3265. The events used are:

- "call-info" for call appearance state notification.
- "line-seize" for the phone to ask to seize the line.

Topic

SCA Configuration

SCA Configuration

The following table lists the parameters you can use to configure SCA.

Parameter	account.X.shared_line ^[1]	<mac>.cfg</mac>
Description	It configures the registration line type.	
Permitted	0-Disabled	
Values	1-Shared Call Appearance	
Default	0	
Web UI	Account > Advanced > Shared Line	
Parameter	account.X.line_seize.expires ^[1]	<mac>.cfg</mac>

Description	t configures the line-seize subscription expiration time (in seconds).	
	Note: It works only if "account.X.shared_line" is set to 1 (Shared Call Appearance).	
Permitted Values	Integer from 0 to 65535	
Default	15	
Parameter	features.barge_in_via_username.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to use the user name of the account to barge in an active call.	
Permitted Values	 0-Disabled, user register name to barge in, the phone sends INVITE request with the register name when barging in a call 1-Enabled, the phone sends INVITE request with the user name when barging in a call 	
Default	0	
Supported Devices	All phones except CP930W-Base/CP935W-Base	

Intercom

Intercom is a useful feature in an office environment to quickly connect with the operator or the secretary. You can make internal intercom calls and external intercom calls on the phone. Internal intercom calls are made between handsets registered to the same base station. External intercom calls can be made by dialing the feature access code followed by the number. External intercom calls depend on support from a SIP server.

The handset can automatically answer an incoming external intercom call and play warning tone only when there is only one handset subscribed and no call in progress on the handset.

To automatically answer an incoming internal intercom call, you need to enable auto intercom feature on the handset. The following configuration types of auto intercom feature are available:

- On (Beep On): Auto intercom feature is on. The handset will answer an incoming internal intercom call automatically and play a warning tone.
- On (Beep Off): Auto intercom feature is on. The handset will answer an incoming internal intercom call automatically without a warning tone.
- Off: Auto intercom feature is off. You need to answer an incoming internal intercom call manually.

The CP930W-Base phones can not automatically answer either the external or internal intercom call, you can only answer it manually.

Topic

Intercom Configuration

Intercom Configuration

The following table lists the parameters you can use to configure intercom.

Parameter	features.intercom.headset_prior.enable	<y000000000xx>.cfg</y000000000xx>
Description	t configures the channel mode when an incoming intercom call is answered through the handset. The neadset should be connected in advance.	
Permitted	D-Speaker Mode	
Values	I-Headset Mode	
Default	1	
Supported	All phones except CP930W-Base/CP935W-Base	

Devices			
Parameter	custom.handset.auto_intercom	<y000000000xx>.cfg</y000000000xx>	
Description	It configures whether the DECT IP phone automatically answers an incoming internal intercom call and plays a warning tone. Note: It works only if "static.auto_provision.handset_configured.enable" is set to 1 (Enabled).		
Permitted Values	 0-Off, users need to answer incoming internal intercom calls manually. 1-On(Beep Off), the handset will answer an incoming internal intercom call automatically without a warning tone. 2-On(Beep On), the handset will answer an incoming internal intercom call automatically and play a warning tone. It works when the silent mode is off (silent mode is not applicable to CP930W-Base/CP935W-Base phones). 		
Default	0		
Supported Devices	W73H, W53H, W56H, W59R, W57R		
Handset UI	OK > Settings > Telephony > Auto Intercom		
Parameter	account.X.auto_external_intercom ^[1]	<mac>.cfg</mac>	
Description	It configures whether the DECT IP phone automatically answers ar and plays a warning tone. Note: It works only if there is no active call on the handset.	n incoming external intercom call	
Permitted Values	 0-Off,users need to answer incoming external intercom calls manually. 1-On(Beep Off), the handset will answer an incoming external intercom call automatically without a warning tone. 2-On(Beep On), the handset will answer an incoming external intercom call automatically and play a warning tone. It works when the silent mode is off (silent mode is not applicable to CP930W-Base/CP935W-Base phones). 		
Default	0		
Parameter	account.X.external_intercom.mute ^[1]	<mac>.cfg</mac>	
	It configures whether the DECT IP phone is mute after automatically answering an incoming external intercom call. Note: It works only if "account.X.auto_external_intercom" is set to 1 or 2 and "features.allow_mute" is set to 1.		
rennitieu	0-Disabled		
Values	1-Enabled		
	0		
Parameter		<mac>.cfg</mac>	
Description	It enables or disables the Dect IP phone automatically answers an incoming external intercom call while there is already an active call on the phone. Note: It works only if "account.X.auto_external_intercom" is set to 1 or 2 and "call_waiting.enable" is set to 1.		
Permitted	 0-Disabled, 1-Enabled, the handset will automatically answers incoming external Intercom and holds on the active call. 		

Default	0	
Parameter	account.X.external_intercom.barge_in_dialing.enable ^[1]	<mac>.cfg</mac>
1) accrintion	It configures whether to automatically answer external Intercom when dialing. Note: It works only if "account.X.external_intercom.barge.enable" is set to 0.	
Permitted Values	 0-Disabled, 1-Enabled, the handset will automatically answers incoming external Intercom and cancels dialing. 	
Default	0	
Parameter	custom.handset.x.auto_intercom	<mac>.cfg</mac>
Description	It configures whether the handsets will accept the intercom calling automatically.	
Permitted Values	 0-Disabled, 1-Enabled and without beep hint. 2-Enabled and with beep hint. 	
Default	0	

Action URL

Action URL allows the phone to interact with web server applications by sending an HTTP or HTTPS GET request.

You can specify a URL that triggers a GET request when a specified event occurs. Action URL can only be triggered by the predefined events (for example, Open DND). The valid URL format is: *http(s)://<server-IPAddress>/help.xml*?.

An HTTP or HTTPS GET request may contain a variable name and a variable value, separated by "=". Each variable value starts with \$ in the query part of the URL. The valid URL format is: *http(s)://<server-IPAddress>/help.xml?variable name=\$variable value*. The variable name can be customized by users, while the variable value is predefined. For example, a URL "http://192.168.1.10/help.xml?mac=\$mac" is specified for the event Mute, the \$mac will be dynamically replaced with the MAC address of the IP phone when the IP phone mutes a call.

Topics

predefined Events List Variable Values List Action URL Configuration

Predefined Events List

The following table lists the predefined events for the action URL.

Event	Description
Setup Completed	When the IP phone completes startup.
Registered	When the IP phone successfully registers an account.
Unregistered	When the IP phone logs out of the registered account.
Register Failed	When the IP phone fails to register an account.
Off Hook	When the IP phone is off hook.

Event	Description
On Hook	When the IP phone is on hook.
Incoming Call	When the IP phone receives an incoming call.
Outgoing Call	When the IP phone places a call.
Established	When the IP phone establishes a call.
Terminated	When the IP phone terminates a call.
	When the IP phone enables the DND mode.
Open DND	Note : When the DND mode is Phone, the phone sends the action URL for all accounts; when the DND mode is Custom, the phone only sends the action URL for the corresponding account.
	When the IP phone disables the DND mode.
Close DND	Note : When the DND mode is Phone, the phone sends the action URL for all accounts; when the DND mode is Custom, the phone only sends the action URL for the corresponding account.
	When the IP phone enables the always forward.
Always Forward On	Note : When the forward mode is Phone, the phone sends the action URL for all accounts; when the forward mode is Custom, the phone only sends the action URL for the corresponding account.
	When the IP phone disables the always forward.
Always Forward Off	Note : When the forward mode is Phone, the phone sends the action URL for all accounts; when the forward mode is Custom, the phone only sends the action URL for the corresponding account.
	When the IP phone enables the busy forward.
Busy Forward On	Note : When the forward mode is Phone, the phone sends the action URL for all accounts; when the forward mode is Custom, the phone only sends the action URL for the corresponding account.
	When the IP phone disables the busy forward.
Busy Forward Off	Note : When the forward mode is Phone, the phone sends the action URL for all accounts; when the forward mode is Custom, the phone only sends the action URL for the corresponding account.
	When the IP phone enables the no answer forward.
No Answer Forward On	Note : When the forward mode is Phone, the phone sends the action URL for all accounts; when the forward mode is Custom, the phone only sends the action URL for the corresponding account.
	When the IP phone disables the no answer forward.
No Answer Forward Off	Note : When the forward mode is Phone, the phone sends the action URL for all accounts; when the forward mode is Custom, the phone only sends the action URL for the corresponding account.
Transfer Call	When the IP phone transfers a call.
Blind Transfer	When the IP phone performs a blind transfer.
Attended Transfer	When the IP phone performs a semi-attended/attended transfer.

Event	Description
Hold	When the IP phone places a call on hold.
UnHold	When the IP phone resumes a held call.
Held	When a call of the IP phone is held by the other end of the call.
UnHeld	When a held call is resumed by the other end of the call.
Mute	When the IP phone mutes a call.
UnMute	When the IP phone un-mutes a call.
Missed Call	When the IP phone misses a call.
IP Changed	When the IP address of the IP phone changes.
ldle To Busy	When the state of the IP phone changes from idle to busy.
Busy To Idle	When the state of the IP phone changes from busy to idle.
Reject Incoming Call	When the IP phone rejects an incoming call.
Answer New Incoming Call	When the IP phone answers a new call.
Transfer Failed	When the IP phone fails to transfer a call.
Transfer Finished	When the IP phone completes transferring a call.
Forward Incoming Call	When the IP phone forwards an incoming call.
Autop Finish	When the IP phone completes auto provisioning by powering on.
Call Waiting On	When the IP phone enables the call waiting.
Call Waiting Off	When the IP phone disables the call waiting.
Headset	When the IP phone presses the HEADSET key.
Handfree	When the IP phone presses the Speakerphone key.
Cancel Call Out	When the phone cancels an outgoing call in the ring-back state.
Remote Busy	When an outgoing call is rejected.
Call Remote Canceled	When the remote party cancels the outgoing call in the ringing state.
Peripheral Information	When the accessory is unplugged or plugged.
VPN IP	When the phone IP address assigned by the VPN server changes.

Variable Values List

The following table lists predefined variable values.

Variable Value	Description
\$mac	The MAC address of the IP phone.
\$ip	The IP address of the IP phone.

Variable Value	Description
\$model	The IP phone model.
\$firmware	The firmware version of the IP phone.
\$active_url	The SIP URI of the current account when the IP phone places a call, receives an incoming call or establishes a call.
\$active_user	The user part of the SIP URI for the current account when the IP phone places a call, receives an incoming call or establishes a call.
\$active_host	The host part of the SIP URI for the current account when the IP phone places a call, receives an incoming call or establishes a call.
\$local	The SIP URI of the caller when the IP phone places a call. The SIP URI of the callee when the IP phone receives an incoming call.
\$remote	The SIP URI of the callee when the IP phone places a call. The SIP URI of the caller when the IP phone receives an incoming call.
\$display_local	The display name of the caller when the IP phone places a call. The display name of the callee when the IP phone receives an incoming call.
\$display_remote	The display name of the callee when the IP phone places a call. The display name of the caller when the IP phone receives an incoming call.
\$call_id	The call-id of the active call.
\$callerID	The display name of the caller when the IP phone receives an incoming call.
\$calledNumber	The phone number of the callee when the IP phone places a call.
\$handset_number	The handset number of base.

Action URL Configuration

The following table lists the parameters you can use to configure the action URL.

Parameter	action_url.setup_completed	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends after startup.	
Description	Example:	
	action_url.setup_completed = http://192.168.0.20/help.xml?IP=\$ip	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Setup Completed	
Parameter	action_url.registered	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends after an account is registered.	
Description	Example:	
	action_url.registered = http://192.168.0.20/help.xml	?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	

Web UI	Features > Action URL > Registered		
Parameter	action_url.unregistered	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends after an account is unregistered.		
Description	Example:		
	action_url.unregistered = http://192.168.0.20/help.xml?IP=\$ip		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > Unregistered		
Parameter	action_url.register_failed	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends after	a register failed.	
Description	Example:		
	action_url.register_failed = http://192.168.0.20/help	o.xml?IP=\$ip	
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > Register Failed		
Parameter	action_url.off_hook	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends when off hook.		
	It configures the action URL the phone sends wher	n off hook.	
Description		n off hook.	
Description			
Description	Example:		
Description Permitted Values	Example: action_url.off_hook = http://192.168.0.20/help.xml?		
Description Permitted Values Default	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters		
Description Permitted Values Default Web UI	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank		
Description Permitted Values Default Web UI Parameter	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > Off Hook	IP=\$ip <y00000000xx>.cfg</y00000000xx>	
Description Permitted Values Default Web UI Parameter	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > Off Hook action_url.on_hook It configures the action URL the phone sends wher	IP=\$ip <y00000000xx>.cfg</y00000000xx>	
Description Permitted Values Default Web UI Parameter Description	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > Off Hook action_url.on_hook It configures the action URL the phone sends wher	IP=\$ip <y000000000xx>.cfg n on hook.</y000000000xx>	
Description Permitted Values Default Web UI Parameter Description	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > Off Hook action_url.on_hook It configures the action URL the phone sends wher Example:	IP=\$ip <y000000000xx>.cfg n on hook.</y000000000xx>	
Description Permitted Values Default Web UI Parameter Description Permitted Values	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > Off Hook action_url.on_hook It configures the action URL the phone sends wher Example: action_url.on_hook = http://192.168.0.20/help.xml?	IP=\$ip <y000000000xx>.cfg n on hook.</y000000000xx>	
Description Permitted Values Default Web UI Parameter Description Permitted Values Default	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > Off Hook action_url.on_hook It configures the action URL the phone sends wher Example: action_url.on_hook = http://192.168.0.20/help.xml? URL within 511 characters	IP=\$ip <y000000000xx>.cfg n on hook.</y000000000xx>	
Description Permitted Values Default Web UI Parameter Description Permitted Values Default Web UI	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > Off Hook action_url.on_hook It configures the action URL the phone sends wher Example: action_url.on_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank	IP=\$ip <y000000000xx>.cfg n on hook.</y000000000xx>	
Description Permitted Values Default Web UI Parameter Description Permitted Values Default Web UI Parameter	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > Off Hook action_url.on_hook It configures the action URL the phone sends wher Example: action_url.on_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > On Hook	IP=\$ip <y000000000xx>.cfg n on hook. 'IP=\$ip <y000000000xx>.cfg</y000000000xx></y000000000xx>	
Description Permitted Values Default Web UI Parameter Description Permitted Values Default Web UI Parameter	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > Off Hook action_url.on_hook It configures the action URL the phone sends wher Example: action_url.on_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > On Hook action_url.incoming_call It configures the action URL the phone sends wher	IP=\$ip <y000000000xx>.cfg n on hook. 'IP=\$ip <y000000000xx>.cfg</y000000000xx></y000000000xx>	
Description Permitted Values Default Web UI Parameter Description Permitted Values Default Web UI Parameter Description	Example: action_url.off_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > Off Hook action_url.on_hook It configures the action URL the phone sends wher Example: action_url.on_hook = http://192.168.0.20/help.xml? URL within 511 characters Blank Features > Action URL > On Hook action_url.incoming_call It configures the action URL the phone sends wher	IP=\$ip <y000000000xx>.cfg n on hook. PIP=\$ip <y000000000xx>.cfg n receiving an incoming call.</y000000000xx></y000000000xx>	

Values			
Default	Blank		
Web UI	Features > Action URL > Incoming Call		
Parameter	action_url.outgoing_call	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends wher	placing a call.	
Description	Example:		
	action_url.outgoing_call = http://192.168.0.20/help.	xml?IP=\$ip	
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > Outgoing Call		
Parameter	action_url.call_established	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends wher	establishing a call.	
Description	Example:		
	action_url.call_established = http://192.168.0.20/he	elp.xml?IP=\$ip	
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > Established		
Parameter	action_url.call_terminated	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends when	terminating a call.	
Description	Example:		
	action_url.call_terminated = http://192.168.0.20/hel	p.xml?IP=\$ip	
Permitted Values	URL within 511 characters		
Default	Blank		
	Features > Action URL > Terminated		
Web UI	Features > Action URL > Terminated		
		<y000000000xx>.cfg</y000000000xx>	
Parameter			
Parameter	action_url.dnd_on It configures the action URL the phone sends wher		
Parameter Description	action_url.dnd_on It configures the action URL the phone sends wher	DND feature is activated.	
Parameter Description	action_url.dnd_on It configures the action URL the phone sends wher Example :	DND feature is activated.	
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Permitted	action_url.dnd_off = http://192.168.0.20/help.xml?IF	~=\$Ip	
Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > Close DND		
Parameter	action_url.always_fwd_on	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends wher	the always forward feature is activated.	
Description	Example:		
	action_url.always_fwd_on = http://192.168.0.20/hel	p.xml?IP=\$ip	
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > Always Forward On		
Parameter	action_url.always_fwd_off	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends when the always forward feature is deactivated.		
Description	Example: action_url.always_fwd_off = http://192.168.0.20/help.xml?IP=\$ip		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > Always Forward Off		
Parameter	action_url.busy_fwd_on	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends when the busy forward feature is activated.		
Description	Example:		
	action_url.busy_fwd_on = http://192.168.0.20/help.	xml?IP=\$ip	
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > Busy Forward On		
Parameter	action_url.busy_fwd_off	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends when the busy forward feature is deactivated.		
Description	Example:		
	action_url.busy_fwd_off = http://192.168.0.20/help.:	xml?IP=\$ip	
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > Busy Forward Off		
Parameter	action_url.no_answer_fwd_on	<y000000000xx>.cfg</y000000000xx>	

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Default Blank	Permitted Values	URL within 511 characters		
	Default	Blank		

Web UI	Features > Action URL > Attended Transfer		
Parameter	action_url.hold	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends when placing a call on hold.		
Description	Example:		
	action_url.hold = http://192.168.0.20/help.xml?IP=\$ip		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > Hold		
Parameter	action_url.unhold	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends when resuming a hold call.		
Description	Example:		
	action_url.unhold = http://192.168.0.20/help.xml?IP=\$ip		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > UnHold		
Parameter	action_url.held	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends wher	n a call is held by the other end of call.	
Description	Example:		
	action_url.held = http://192.168.0.20/help.xml?IP=\$ip		
Permitted Values	URL within 511 characters		
Default	Blank		
Parameter	action_url.unheld	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends wher	n a held call is resumed by the other end of call.	
Description	Example:		
	action_url.unheld = http://192.168.0.20/help.xml?IP=\$ip		
Permitted Values	URL within 511 characters		
Default	Blank		
Parameter	action_url.mute	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends wher	n muting a call.	
Description	Example:		
	action_url.mute = http://192.168.0.20/help.xml?IP=\$ip		
Permitted Values	URL within 511 characters		
Default	Blank		

Web UI	Features > Action URL > Mute			
Parameter	action_url.unmute	<y000000000xx>.cfg</y000000000xx>		
	It configures the action URL the phone sends when un-muting a call.			
Description	Example:			
	action_url.unmute = http://192.168.0.20/help.xml?IP=\$ip			
Permitted Values	URL within 511 characters			
Default	Blank			
Web UI	Features > Action URL > UnMute			
Parameter	action_url.missed_call	<y000000000xx>.cfg</y000000000xx>		
	It configures the action URL the phone sends when missed a call.			
Description	Example:			
	action_url.missed_call = http://192.168.0.20/help.xml?IP=\$ip			
Permitted Values	URL within 511 characters			
Default	Blank			
Web UI	Features > Action URL > Missed Call			
Parameter	action_url.busy_to_idle	<y000000000xx>.cfg</y000000000xx>		
	It configures the action URL the phone sends wher	h changed the state of the IP phone from busy to		
Description	idle. Example:			
	action_url.busy_to_idle = http://192.168.0.20/help.	/ml2IP_\$in		
Permitted	URL within 511 characters	(()) : Γ = φιμ		
values				
Default	Blank			
Web UI	Features > Action URL > Busy to Idle			
Parameter	action_url.idle_to_busy	<y000000000xx>.cfg</y000000000xx>		
	It configures the action URL the phone sends wher	n changed the state of the phone from idle to busy.		
Description	Example:			
	action_url.idle_to_busy = http://192.168.0.20/help.>	kml?IP=\$ip		
Permitted Values	URL within 511 characters			
Default	Blank			
Web UI	Features > Action URL > Idle to Busy			
Parameter	action_url.ip_change	<y000000000xx>.cfg</y000000000xx>		
	It configures the action URL the phone sends when changed the IP address of the phone.			
Description	Example: action_url.ip_change = http://192.168.0.20/help.xml?IP=\$ip			
Permitted	URL within 511 characters			

Values		
Default	Blank	
Web UI	Features > Action URL > IP Changed	
Parameter	action_url.reject_incoming_call	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher	rejected an incoming call.
Description	Example:	
	action_url.reject_incoming_call = http://192.168.0.2	20/help.xml?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Reject Incoming Call	
Parameter	action_url.answer_new_incoming_call	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher	answered a new incoming call.
Description	Example:	
	action_url.answer_new_incoming_call = http://192	168.0.20/help.xml?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Answer New Incoming Ca	11
Parameter	action_url.forward_incoming_call <y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends wher	forwarding an incoming call.
Description	Example:	
	action_url.forward_incoming_call = http://192.168.0	0.20/help.xml?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Forward Incoming Call	
Parameter	action_url.transfer_finished	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends when completed a call transfer.	
Description	Example:	
	action_url.transfer_finished = http://192.168.0.20/help.xml?IP=\$ip	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Transfer Finished	
Parameter	action_url.transfer_failed <y00000000xx>.cfg</y00000000xx>	
Description	It configures the action URL the phone sends wher	failed to transfer a call.
Seconption	Example:	

	action_url.transfer_failed = http://192.168.0.20/help.xml?IP=\$ip	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Transfer Failed	
Parameter	action_url.setup_autop_finish	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher	completed auto provisioning via power on.
Description	Example:	
	action_url.setup_autop_finish = http://192.168.0.20	/help.xml?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Autop Finish	
Parameter	action_url.call_waiting_on	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher	the call waiting feature is enabled.
Description	Example:	
	action_url.call_waiting_on = http://192.168.0.20/he	lp.xml?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Call Waiting On	
Parameter	action_url.call_waiting_off	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher	the call waiting feature is disabled.
Description	Example:	
	action_url.call_waiting_off = http://192.168.0.20/hel	p.xml?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Call Waiting Off	
Parameter	action_url.headset	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher	pressed the HEADSET key.
Description	n Example:	
	action_url.headset = http://192.168.0.20/help.xml?l	P=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Supported Devices		

Web UI	Features > Action URL > Headset	
Parameter	action_url.handfree	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher	pressed the Speakerphone key.
Description	Example:	
	action_url.handfree = http://192.168.0.20/help.xml?	IP=\$ip
Permitted Values	URL within 511 characters	
Supported Devices		
Web UI	Features > Action URL > Handsfree	
Parameter	action_url.cancel_callout	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher	canceling the outgoing call in the ring-back state.
Description	Example:	
	action_url.cancel_callout= http://192.168.0.20/help	.xml?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Cancel Call Out	
Parameter	action_url.remote_busy	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher	the outgoing call is rejected.
Description	Example:	
	action_url.remote_busy = http://192.168.0.20/help.	kml?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Remote Busy	
Parameter	action_url.call_remote_canceled	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher ringing state.	the remote party cancels the outgoing call in the
Description	Example:	
	action_url.call_remote_canceled= http://192.168.0.	20/help.xml?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Call Remote Canceled	
Parameter	action_url.peripheral_information	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher	you unplug or plug an accessory.
Description	Example:	
	action_url.peripheral_information = http://192.168.0.20/help.xml?IP=\$ip&WIFI=\$wifi_number	

Permitted Values	URL within 512 characters	
Default	Blank	
Web UI	Features > Action URL > Peripheral Information	
Parameter	action_url.vpn_ip <y00000000xx>.cfg</y00000000xx>	
Description	It configures the action URL the phone sends when the IP address assigned by the VPN server changes. Example: action_url.vpn_ip= http://192.168.0.20/help.xml?IP=\$ip	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > VPN IP	

Action URI

Yealink phones can perform the specified action by receiving and handling an HTTP or HTTPS GET request or accept a SIP NOTIFY message with the "Event: ACTION-URI" header from a SIP proxy server.

Topics

Supported HTTP/HTTPS GET Request Supported SIP Notify Message Action URI Configuration

Supported HTTP/HTTPS GET Request

Opposite to action URL, action URI allows the phones to interact with a web server application by receiving and handling an HTTP or HTTPS GET request. When receiving a GET request, the phone will perform the specified action and respond with a 200 OK message.

A GET request may contain a variable named as "key" and a variable value, which are separated by "=". The valid URI format is: http(s)://<phonelPAddress>/servlet?key=variable value.

Note: Yealink phones are compatible with other two old valid URI formats: http(s)://<phonelPAddress>/cgi-bin/Con-figManApp.com?key=variable value and http(s)://<phonelPAddress>/cgi-bin/cgiServer.exx?key=variable value.

For security reasons, the phones do not handle HTTP/HTTPS GET requests by default. You need to specify the trusted IP address for action URI. You can specify one or more trusted IP addresses on the IP phone, or configure the IP phone to receive and handle the URI from any IP address.

Supported SIP Notify Message

In addition, Yealink phones can perform the specified action immediately by accepting a SIP NOTIFY message with the "Event: ACTION-URI" header from a SIP proxy server. The message body of the SIP NOTIFY message may contain a variable named as "key" and a variable value, which are separated by "=".

This method is especially useful for users who always work in the small office/home office where a secure firewall may prevent the HTTP or HTTPS GET request from the external network.

Note: If you want to only accept the SIP NOTIFY message from your SIP server and outbound proxy server, you have to enable the Accept SIP Trust Server Only feature. For more information, refer to Accept SIP Trust Server Only.

If you use SIP NOTIFY message method, you do not need to specify the trusted IP address for action URI. However, you should enable the IP phone to receive the action URI requests.

Example of a SIP Notify with the variable value (OK):

Message Header
NOTIFY sip:3583@10.2.40.10:5062 SIP/2.0
Via: SIP/2.0/UDP 10.2.40.27:5063;branch=z9hG4bK4163876675
From: <sip:3586@10.2.1.48> ;tag=2900480538</sip:3586@10.2.1.48>
To: "3583" <sip:3583@10.2.1.48> ;tag=490600926</sip:3583@10.2.1.48>
Call-ID: 2923387519@10.2.40.10
CSeq: 4 NOTIFY
Contact: <sip:3586@10.2.40.27:5063></sip:3586@10.2.40.27:5063>
Max-Forwards: 70
User-Agent: Yealink
Event: ACTION-URI
Content-Type: message/sipfrag
Content-Length: 6
Message Body
key=OK

Action URI Configuration

The following table lists the parameters you can use to configure action URI.

Parameter	features.action_uri.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to receive the action	on URI requests.
	0-Disabled 1-Enabled	
Default	1	
Parameter	features.action_uri_limit_ip	<y000000000xx>.cfg</y000000000xx>
Description	It configures server address from which the phone receives the action URI requests. Multiple addresses are separated by commas. (for example, 10.1.4.3,10.1.4.23); Support asterisk wild- card, each asterisk represents a field of the IP address (10.10.*.* represents 10.10.0.0 to 10.10.255.255). Note: It works only if "features.action_uri.enable" is set to 1 (Enabled).	
Permitted Values	IP address Blank-the phone will reject any HTTP GET request. any-the phone will accept and handle HTTP GET requests from any IP address.	
Default	Blank	
Web UI	Features > Remote Control > Action URI Allow IP List	

Voice Mail

Yealink phones support voice mail.

You can configure a message waiting indicator (MWI) to inform users how many messages are waiting in their mailbox without calling the mailbox. Yealink phones support both audio and visual MWI alert when receiving new voice messages.

Topic

MWI for Voice Mail Configuration

MWI for Voice Mail Configuration

Yealink phones support both solicited and unsolicited MWI.

Unsolicited MWI: The IP phone sends a SUBSCRIBE message to the server for message-summary updates. The server sends a message-summary NOTIFY within the subscription dialog each time the MWI status changes. Unso-licited MWI is a server related feature.

Solicited MWI: The IP phone can subscribe to the MWI messages to the account or the voice mail number. For solicited MWI, you must enable MWI subscription feature on the phones.

The following table lists the parameters you can use to configure MWI for voice mail.

Parameter	account.X.subscribe_mwi ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to subscribe to the message waiting indicator.	
Permitted U-Disabled, the server automatically sends a message-summary NOTIFY in a new dialoc the MWI status changes (This requires server support).		
	1-Enabled, the phone will send a SUBSCRIBE me	ssage to the server for message-summary updates.
Default	0	
Web UI	Account > Advanced > Subscribe for MWI	
Parameter	account.X.subscribe_mwi_expires ^[1]	<mac>.cfg</mac>
Description	It configures MWI subscribe expiry time (in seconds	3).
Description	Note: It works only if "account.X.subscribe_mwi" is set to 1 (Enabled).	
Permitted Values	Integer from 0 to 84600	
Default	3600	
Web UI	Account > Advanced > MWI Subscription Period (Seconds)	
Parameter	account.X.sub_fail_retry_interval ^[1]	<mac>.cfg</mac>
Description	It configures the interval (in seconds) for the phone to re-subscribe when subscription fails.	
Permitted Values	Integer from 0 to 3600	
Default	30	
Parameter	account.X.subscribe_mwi_to_vm ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to subscribe to the message waiting indicator for the voice mail num- ber.	

	Note: It works only if "account.X.subscribe_mwi" is set to 1 (Enabled) and "voice_mail.number.X" is		
	configured.		
	 0-Disabled, the phone will subscribe to the message waiting indicator to a specific account. 1-Enabled 		
Default	0		
Web UI	Account > Advanced > Subscribe MWI to Voice Ma	il	
Parameter	voice_mail.number.X ^[1]	<mac>.cfg</mac>	
Description	It configures the voice mail number.		
Permitted Values	String within 99 characters		
Default	Blank		
Web UI	Account > Advanced > Voice Mail		
	W57R/ <u>W59R/W53H/W56H:</u>		
	OK > Voice Mail > Set Voice Mail > LineX > Numbe	r	
	<u>W73H:</u>		
	OK > Voice Mail > Line X > Set Number > Number		
Handset UI	DD Phone:		
	Menu > Message > Voice Mail > Set Voice Mail Code > AccountX Code		
	930W:		
	Menu > Message > Set Voice Mail Code > Number		
	<u>CP935W:</u>		
	More > Message > Set Voice Mail Code > Account	K Code	
Parameter	account.X.display_mwi.enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the MWI alert to indicate that	you have an unread voice mail message.	
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Web UI	Account > Advanced > Voice Mail Display		
Parameter	features.voice_mail_alert.enable <y00000000xx>.cfg</y00000000xx>		
Description	It enables or disables the phone to pop up the message when receiving the same amount of new voicemails.		
Permitted Values	0-Disabled 1-Enabled		
	1		

Device Management

You can enable the device management feature to connect device and report device information to the Yealink Device Management Platform (YDMP)/Yealink Management Cloud Service (YMCS), where you can view device information, manage devices, and diagnose devices.

Topic

Device Management Configuration

Device Management Configuration

The following table lists the parameters you can use to configure the device management feature.

Parameter	static.dm.enable ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the device management feature. Note : For T4XU, you do not need to set this parameter. On the contrary, you need to enable this feature on the phone (see phone UI below).	
Permitted Val- ues	0-Disabled 1-Enabled	
Default	0	
Phone UI	T42U/T43U/T46U/T48U: Menu > Security > Connect DM Service	
Parameter	static.dm.server.address ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the server address of the YDMP/YMCS.	
Permitted Val- ues	String within 512 characters	
Default	Blank	
Parameter	static.dm.server.port ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the server port of the YDMP/YMCS.	
Permitted Val- ues	Integer from 0 to 65535	
Default	443	
Parameter	phone_setting.qoe.enable	<y000000000xx>.cfg</y000000000xx>

^[1]If you change this parameter, the phone will reboot to make the change take effect.

General Features

This section shows you how to configure general features on Yealink phones.

Topics

Line Identification Presentation Return Code for Refused Call Accept SIP Trust Server Only 100 Reliable Retransmission SIP Session Timer Session Timer Reboot in Talking Reserve # in User Name Busy Tone Delay

Line Identification Presentation

Yealink phones can derive calling and connected line identification from SIP headers and display the name associated with the telephone number on the LCD screen.

Calling Line Identification Presentation (CLIP): It allows the phones to display the caller identity, derived from a SIP header contained in the INVITE message when receiving an incoming call. Yealink phones can derive caller identity from three types of SIP header: From, P-Asserted-Identity (PAI) and Remote-Party-ID (RPID). Identity presentation is based on the identity in the relevant SIP header.

Connected Line Identification Presentation (COLP): It allows the phones to display the identity of the connected party specified for outgoing calls. The phones can display the Dialed Digits, or the identity in a SIP header (Remote-Party-ID, P-Asserted-Identity or contact) received, or the identity in the From header carried in the UPDATE message sent by the callee as described in RFC 4916. Connected line identification presentation is also known as Called line identification presentation. In some cases, the remote party will be different from the called line identification due to call diversion.

Note: If the caller/callee already exists in the local directory, the local contact name assigned to the caller will be preferentially displayed and stored in the call log.

For more information on calling line identification presentation, refer to Calling and Connected Line Identification Presentation on Yealink IP Phones.

Topic

CLIP and COLP Configuration

CLIP and COLP Configuration

The following table lists the parameters you can use to configure the CLIP and COLP.

Parameter	account.X.cid_source ^[1]	<mac>.cfg</mac>
Description	It configures the identity of the caller.	
	0-FROM	
1-PAI		
Permitted	2-PAI-FROM	
Values	3-PRID-PAI-FROM	
	4-PAI-RPID-FROM	
	5-RPID-FROM	

	6-PREFERENCE, the phone uses the custom priority order for the sources of caller identity (con-	
	figured by the parameter "sip.cid_source.preference").	
Default	0	
Web UI	Account > Advanced > Caller ID Source	
Parameter	account.X.cid_source_privacy ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to process the Priv	acy header field in the SIP message.
	Note: The priority order: PPI > Privacy > PRID/PAI/F	
Permitted	0-Disabled, the phone does not process the Privac	y header.
Values	 Enabled, the phone screen presents anonymity i request. 	nstead if there is a Privacy: id in the INVITE
Default	1	
Parameter	account.X.cid_source_ppi ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to process the P-Preferred-Identity (PPI) header in the request mes- sage for caller identity presentation.	
Permitted	0-Disabled, the phone does not process the PPI he	ader.
Values	1-Enabled, the phone presents the caller identity fr	om the PPI header.
Default	0	
Parameter	sip.cid_source.preference	<y000000000xx>.cfg</y000000000xx>
	It configures the priority order for the sources of cal	er identity information.
-	Note: Yealink phones can derive caller identity fror tity (PAI), P-Preferred-Identity and Remote-Party-ID set to 6 (PREFERENCE).	n the following SIP headers: From, P-Asserted-Iden (RPID). It works only if "account.X.cid_source" is
Permitted Values	String	
Default	P-Preferred-Identity, P-Asserted-Identity, Remote-F	arty-ID, From
Parameter	account.X.cp_source ^[1]	<mac>.cfg</mac>
Description	It configures the identity of the callee according to the response message.	
	0-PAI-RPID	
	1-Dialed Digits	
Values	2-RFC4916, the caller sends the SIP request message which contains the from-change tag in the Supported header. The caller then receives an UPDATE message from the server and displays the iden- tity in the "From" header.	
	3-Contact	
	0	

Return Code for Refused Call

You can define the return code and reason of the SIP response message for the refused call. The caller's phone LCD screen displays the reason according to the received return code. Available return codes and reasons are:

- 404 (Not Found)
- 480 (Temporarily Unavailable)
- 486 (Busy Here)
- 600 (Busy Everywhere)
- 603 (Decline)

Topic

Return Code for Refused Call and not answer Configuration

Return Code for Refused Call and not answer Configuration

The following table lists the parameters you can use to configure the return code for the refused/ not answer call.

Parameter	features.normal_refuse_code	<y000000000xx>.cfg</y000000000xx>	
Description	It configures a return code and reason for SIP response messages when the phone rejects an incom- ing call. A specific reason is displayed on the caller's phone screen.		
	404-Not Found		
Permitted	480-Temporarily Unavailable		
Values	486-Busy Here		
	603-Decline		
Default	486		
Web UI	Features > General Information > Return Code When Refuse		
Parameter	features.unusual_refuse_code	<y000000000xx>.cfg</y000000000xx>	
Description	It configures a return code and reason for SIP responsion for SIP responsion of the second state of the second sec		
	404-Not Found		
Permitted	480-Temporarily Unavailable		
Values	486-Busy Here		
	603-Decline		
Default	404		
Web UI	Features > General Information > Return Code Wh	en Unknown Refuse	
Parameter	features.no_answer_code	<y000000000xx>.cfg</y000000000xx>	
Description	It configures a return code and reason of response messages when the handset does not answer an incoming call. A specific reason is displayed on the caller's phone screen.		
	404-Not Found		
Permitted	480-Temporarily Unavailable		
Values	486-Busy Here		
	603-Decline		
Default	486		
Web UI	Features > General Information > Return Code When No Answer		

Accept SIP Trust Server Only

Accept SIP trust server only enables the phones to only accept the SIP message from your SIP server and outbound proxy server. It can prevent the phone from receiving the ghost calls whose phone number maybe 100, 1000 and so on. If you enable this feature, the phone cannot accept an IP address call.

Topic

Accept SIP Trust Server Only Configuration

Accept SIP Trust Server Only Configuration

The following table lists the parameters you can use to configure accept SIP trust server only.

Parameter	· –	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to only accept the SIP message from the SIP and outbound proxy server.	
Permitted Values	0-Disabled 1-Enabled, users cannot accept the IP call	
Default	0	
Web UI	Features > General Information > Accept SIP Trust Server Only	

100 Reliable Retransmission

As described in RFC 3262, the 100rel tag is for the reliability of provisional responses. When presented in a Supported header, it indicates that the phone can send or receive reliable provisional responses. When presented in a Require header in a reliable provisional response, it indicates that the response is to be sent reliably.

Example of a SIP INVITE message:

INVITE sip:1024@pbx.test.com:5060 SIP/2.0

Via: SIP/2.0/UDP 10.3.6.197:5060;branch=z9hG4bK1708689023

From: "1025" <sip:1025@pbx.test.com:5060 > ;tag=1622206783

To: <sip:1024@pbx.test.com:5060 >

Call-ID: 0_537569052@10.3.6.197

CSeq: 2 INVITE

Contact: <sip:1025@10.3.6.197:5060 >

Authorization: Digest username="1025", realm="pbx.test.com", nonce="BroadWorksXi5stub71Ts2nb05BW", urii="sip:1024@pbx.test.com:5060", response="f7e9d35c55af45b3f89beae95e913171", algorithm=MD5, cnonce="0a4f113b", qop=auth, nc=00000001

Content-Type: application/sdp

Allow: INVITE, INFO, PRACK, ACK, BYE, CANCEL, OPTIONS, NOTIFY, REGISTER, SUBSCRIBE, REFER, PUBLISH, UPDATE, MESSAGE

Max-Forwards: 70

User-Agent: Yealink W70B 146.85.0.20

Supported: 100rel

Allow-Events: talk,hold,conference,refer,check-sync

Content-Length: 302

Topic

100 Reliable Retransmission Configuration

100 Reliable Retransmission Configuration

The following table lists the parameter you can use to configure the 100 reliable retransmission.

Parameter	account.X.100rel_enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the 100 reliable retransmission feature.	
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	
Web UI	Account > Advanced > Retransmission	

^[1]X is the account ID. X=1-10.

SIP Session Timer

SIP session timers T1, T2 and T4 are SIP transaction layer timers defined in RFC 3261. These session timers are configurable on the phones.

Timer T1

Timer T1 is an estimate of the Round Trip Time (RTT) of transactions between a SIP client and SIP server.

Timer T2

Timer T2 represents the maximum retransmitting time of any SIP request message. The re-transmitting and doubling of T1 will continue until the retransmitting time reaches the T2 value.

Example:

The user registers a SIP account for the IP phone and then set the value of Timer T1, Timer T2 respectively (Timer T1: 0.5, Timer T2: 4). The SIP registration request message will be re-transmitted between the IP phone and SIP server. The re-transmitting and doubling of Timer T1 (0.5) will continue until the retransmitting time reaches the Timer T2 (4). The total registration request retry time will be less than 64 times of T1 (64 * 0.5 = 32). The re-transmitting interval in sequence is 0.5s, 1s, 2s, 4s, 4s, 4s, 4s, 4s, 4s and 4s.

Timer T4

Timer T4 represents that the network will take to clear messages between the SIP client and server.

Topic

SIP Session Timer Configuration

SIP Session Timer Configuration

The following table lists the parameters you can use to configure the SIP session timer.

Parameter	sip.timer_t1	<y000000000xx>.cfg</y000000000xx>
Description	It configures the SIP session timer T1 (in seconds).	
Permitted Values	Float from 0.5 to 10	
Default	0.5	

Web UI	Settings > SIP > SIP Session Timer T1 (0.5~10s)	
Parameter	sip.timer_t2	<y000000000xx>.cfg</y000000000xx>
Description	It configures the SIP session timer T2 (in seconds).	
Permitted Values	Float from 2 to 40	
Default	4	
Web UI	Settings > SIP > SIP Session Timer T2 (2~40s)	
Parameter	sip.timer_t4 <y00000000xx>.cfg</y00000000xx>	
Description	It configures the SIP session timer T4 (in seconds).	
Permitted Values	Float from 2.5 to 60	
Default	5	
Web UI	Settings > SIP > SIP Session Timer T4 (2.5~60s)	

Session Timer

Session timer allows a periodic refresh of SIP sessions through an UPDATE request, to determine whether a SIP session is still active. Session timer is specified in RFC 4028. The phones support two refresher modes: UAC and UAS. Whether the endpoint functions as a UAC or a UAS depends on the UA that initiates the SIP request. If the initiator is configured as UAC, the other client or the SIP server will function as a UAS. If the initiator is configured as UAS, the other client or the SIP server will function as a UAC. The session expiration is negotiated via the Session-Expires header in the INVITE message. The negotiated refresher is always the UAC and it will send an UPDATE request at the negotiated session expiration. The value "refresher=uac" included in the UPDATE message means that the UAC performs the refresh.

Example of UPDATE message (UAC mode):

UPDATE sip:1058@10.10.20.34:5060 SIP/2.0 Via: SIP/2.0/UDP 10.10.20.32:5060;branch=z9hG4bK2104991394 From: "10111" <sip:10111@10.2.1.48:5060 > ;tag=2170397024 To: <sip:1058@10.2.1.48:5060 > ;tag=200382096 Call-ID: 4_1556494084@10.10.20.32 CSeq: 2 UPDATE Contact: <sip:10111@10.10.20.32:5060 > Max-Forwards: 70 User-Agent: Yealink W70B 146.85.0.20 Session-Expires: 90;refresher=uac Supported: timer Content-Length: 0

Topic

Session Timer Configuration

Session Timer Configuration

The following table lists the parameters you can use to configure the session timer.

Parameter	account.X.session_timer.enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the session timer.	
Permitted	J 0-Disabled	
Values	1-Enabled, the phone will send periodic UPDATE requests to refresh the session during a call.	
Default	0	
Web UI	Account > Advanced > Session Timer	
Parameter	account.X.session_timer.expires ^[1]	<mac>.cfg</mac>
	It configures the interval (in seconds) for refreshing	the SIP session during a call.
Description	An UPDATE will be sent after 50% of its value has elapsed. For example, if it is set to 1800 (1800 the phone will refresh the session during a call every 900 seconds.	
	Note: It works only if "account.X.session_timer.enal	ble" is set to 1 (Enabled).
Permitted Values	Integer from 90 to 7200	
Default	1800	
Web UI	Account > Advanced > Session Expires (90~7200s)
Parameter	account.X.session_timer.refresher ^[1]	<mac>.cfg</mac>
Description	It configures who refreshes the SIP session during	a call.
	Note: It works only if "account.X.session_timer.enable" is set to 1 (Enabled).	
Permitted	0 -UAC	
Values	1-UAS	
Default	0	
Web UI	Account > Advanced > Session Refresher	

^[1]X is the account ID. X=1-10.

Reboot in Talking

Reboot in talking feature allows the phones to reboot during an active call when it receives a reboot Notify message.

Topic

Reboot in Talking Configuration

Reboot in Talking Configuration

The following table lists the parameter you can use to configure the reboot in talking.

Parameter	features.reboot_in_talk_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to reboot during a	call when it receives a reboot Notify message.
	0-Disabled 1-Enabled	

Default	0
Web UI	Features > General Information > Reboot in Talking

Reserve # in User Name

Reserve # in User Name feature allows the phones to reserve "#" in user name. When Reserve # in User Name feature is disabled, "#" will be converted into "%23". For example, the user registers an account (user name: 1010#) on the phone, the phone will send 1010%23 instead of 1010# in the REGISTER message or INVITE message to the SIP server.

Example of a SIP REGISTER message:

INVITE sip:2@10.2.1.48:5060 SIP/2.0 Via: SIP/2.0/UDP 10.3.20.6:5060;branch=z9hG4bK1867789050 From: "1010" <sip:1010%23@10.2.1.48:5060>;tag=1945988802 To: <sip:2@10.2.1.48:5060> Call-ID: 0_2336101648@10.3.20.6 CSeq: 1 INVITE Contact: <sip:1010%23@10.3.20.6:5060>

Content-Type: application/sdp

Allow: INVITE, INFO, PRACK, ACK, BYE, CANCEL, OPTIONS, NOTIFY, REGISTER, SUBSCRIBE, REFER, PUBLISH, UPDATE, MESSAGE

Max-Forwards: 70

User-Agent: Yealink W70B 146.85.0.20

Allow-Events: talk,hold,conference,refer,check-sync

Content-Length: 300

Topic

Reserve # in User Name Configuration

Reserve # in User Name Configuration

The following table lists the parameter you can use to configure the reserve # in user name.

Parameter	sip.use_23_as_pound	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to reserve the pound sign (#) in the user name.	
Permitted Values	0-Disabled (convert the pound sign into "%23") 1-Enabled	
Default	1	
Web UI	Features > General Information > Reserve # in User Name	

Busy Tone Delay

The busy tone is an audible signal to indicate that the call is released by the other party. You can define the amount of time that the busy tone lasts.

Topic

Busy Tone Delay Configuration

Busy Tone Delay Configuration

The following table lists the parameter you can use to configure busy tone delay.

Parameter	features.busy_tone_delay	<y000000000xx>.cfg</y000000000xx>
Description	It configures the duration (in seconds) that the busy tone lasts when the call is released by the remote party.	
Permitted Values	 0-the phone will not play a busy tone. 1-1s, a busy tone lasts for 1 second on the phone. 3-3s, a busy tone lasts for 3 seconds on the phone. 5-5s, a busy tone lasts for 5 seconds on the phone 	
Default	0	
Web UI	Features > General Information > Busy Tone Delay (Seconds)	

Configuration Parameters

This section provides a description and permitted values of some settings.

Topics

BroadSoft Parameters Ethernet Interface MTU Parameter SIP Settings Parameters Call Settings Parameters

BroadSoft Parameters

This section shows the parameters you can use to configure the phone with BroadSoft server.

For more information on BSFT, refer to Yealink IP Phone Features Integrated with BroadSoft UC-One User Guide or Yealink IP Phones Deployment Guide for BroadSoft UC-One Environment.

BroadSoft Settings

Parameter	bw.enable ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the BroadSoft features.	
	0-Disabled	
Values	1-Enabled	
Default	0	

^[1]If you change this parameter, the phone will reboot to make the change take effect.

Broadsoft XSI

Parameter	account.X.xsi.user ^[1]	<mac>.cfg</mac>
Description	It configures the user name for XSI authentication. scription Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).	
Description		
Permitted Values	String within 99 characters	
Default	Blank	
Web UI	Applications > Broadsoft XSI > XSI Account > User ID	
Parameter	account.X.xsi.password ^[1]	<mac>.cfg</mac>
	It configures the password for XSI authentication.	
Description	scription Note: It works only if "sip.authentication_for_xsi" is set to 0 (User Login Credentials for Xs ation) and "bw.xsi.enable" is set to 1 (Enabled).	
Permitted Values	String within 99 characters	
Default	Blank	
Web UI	Applications > Broadsoft XSI > XSI Account > Password	
Parameter	account.X.xsi.host ^[1] <mac>.cfg</mac>	
Description	It configures the IP address or domain name of the Xtended Services Platform server.	
Description	Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).	

Permitted			
Values	IP address or domain name		
Default	Blank	Blank	
Web UI	Applications > Broadsoft XSI > XSI Account > Host Serve	er	
Parameter	account.X.xsi.server_type ^[1] <ma< th=""><th>C>.cfg</th></ma<>	C>.cfg	
Description	It configures the access protocol of the Xtended Services	s Platform server.	
Description	Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).	
Permitted	http-HTTP		
Values	https-HTTPS		
Default	http		
Web UI	Applications > Broadsoft XSI > XSI Account > XSI Server	Туре	
Parameter	account.X.xsi.port ^[1]	C>.cfg	
Description	It configures the port of the Xtended Services Platform se	erver.	
	Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).	
Permitted Values	Integer from 1 to 65535		
Default	80		
Web UI	Applications > Broadsoft XSI > XSI Account > Port	Applications > Broadsoft XSI > XSI Account > Port	
Permitted Values	Integer from 1 to 65535		
Default	443		
Parameter	bw.xsi.enable ^[2] <y00< th=""><th>0000000xx>.cfg</th></y00<>	0000000xx>.cfg	
Description	n It enables or disables the XSI authentication feature for t	he phone.	
	0-Disabled 1-Enabled		
	If it is set to 0 (Disabled), the following features are unav	ailable on the phone:	
	BroadWorks Anywhere		
	Remote Office		
	Line ID Blocking		
	Anonymous Call Rejection		
Permitted Values	Simultaneous Ring Personal		
	BroadSoft Directory		
	BroadSoft Call Log		
	Call Park Feature via XSI Mode		
	Call Waiting Feature via XSI Mode		
	Voice Messaging		
	Silent Alerting		

Default	0	
Parameter	sip.authentication_for_xsi <y00000000xx>.cfg</y00000000xx>	
Description	It configures the authentication mechanism for XSI access. Note : It works only if "bw.xsi.enable" is set to 1 (Enabled).	
Permitted	0 -User Login Credentials for XSI Authentication, the phone uses the XSI user ID and password for XSI authentication.	
	1-SIP Credentials for XSI Authentication, the phone uses the XSI user ID, the register name and pass- word of the SIP account for XSI authentication.	
Default	0	
Web UI	Applications > Broadsoft XSI > XSI Account > Allow SIP Authentication for XSI	

^[2]If you change this parameter, the phone will reboot to make the change take effect.

Broadsoft Call Decline

Parameter	account.X.features.call_decline.enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables call decline feature.	
Permitted Values	0-Disabled 1-Enabled	
Default	Blank	
Parameter	features.call_decline.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables call decline feature for the IP phone.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	

 $^{[1]}X$ is the account ID. X=1-10.

Broadsoft Network Directory

Parameter	bw.xsi.directory.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the network directory feature. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	bw_phonebook.group_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display the group directory. Note: It works only if "bw.xsi.directory.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		

Default	1	
Web UI	Applications > Broadsoft XSI > Network Directory > Group	
Parameter	bw_phonebook.personal_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to display the personal directory.	
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Applications > Broadsoft XSI > Network Directory > Per	sonal
Parameter	bw_phonebook.group_common_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to display the group common directory. Note: It works only if "bw.xsi.directory.enable" is set to 1 (Enabled).	
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Applications > Broadsoft XSI > Network Directory > Group Common	
Parameter	· · ·	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to display the enterprise directory. Note: It works only if "bw.xsi.directory.enable" is set to 1 (Enabled).	
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Applications > Broadsoft XSI > Network Directory > Ente	erprise
Parameter	bw_phonebook.enterprise_common_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to display the enterprise common directory.	
	Note: It works only if "bw.xsi.directory.enable" is set to 1 (Enabled). 0-Disabled 1-Enabled	
Default	1	
Web UI	Applications > Broadsoft XSI > Network Directory > Enterprise Common	
Parameter	bw_phonebook.enterprise_common_displayname	<y000000000xx>.cfg</y000000000xx>
	It configures the display name on the phone screen for	
	Note: It works only if "bw.xsi.directory.enable" and "bw_phonebook.enterprise_common_enable" are set to 1 (Enabled).	
Permitted Values	String within 99 characters	
Default	EnterpriseCommon	
Web UI	Applications > Broadsoft XSI > Network Directory > Enterprise Common	

Parameter	bw phonebook.custom	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the custom directory feature.	<y000000000000000000000000000000000000< th=""></y000000000000000000000000000000000000<>
Description		
Permitted	0-Disabled 1-Enabled	
	0	
	-	
	Applications > Broadsoft XSI > Network Directory > Ena	-
	bw_phonebook.group_displayname	<y000000000x>.cfg</y000000000x>
	It configures the display name on the phone screen for Note : It works only if "bw.xsi.directory.enable" and "bw_(Enabled).	
Permitted Values	String within 99 characters	
Default	Group	
Web UI	Applications > Broadsoft XSI > Network Directory > Group	
Parameter	bw_phonebook.enterprise_displayname	<y000000000xx>.cfg</y000000000xx>
	It configures the display name on the phone screen for the enterprise directory.	
Description	Note: It works only if "bw.xsi.directory.enable" and "bw_phonebook.enterprise_enable" are set to 1 (Enabled).	
Permitted Values	String within 99 characters	
Default	Enterprise	
Web UI	Applications > Broadsoft XSI > Network Directory > Ent	erprise
Parameter	bw_phonebook.personal_displayname	<y000000000xx>.cfg</y000000000xx>
	It configures the display name on the phone screen for the personal directory. Note : It works only if "bw.xsi.directory.enable" and "bw_phonebook.personal_enable" are set to 1 (Enabled).	
Permitted Values	String within 99 characters	
Default	Personal	
Web UI	Applications > Broadsoft XSI > Network Directory > Personal	
Parameter	bw.xsi.call_log.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the BroadSoft call log feature.	
Permitted	Note: It works only if "bw.xsi.enable" is set to 1 (Enabled). 0-Disabled 1-Enabled	
Default	0	
Web UI	Applications > Broadsoft XSI > Network Directory > Call Log > Network Call Log	
Parameter	bw.xsi.call_log.delete.enable	<y000000000xx>.cfg</y000000000xx>

	Note: It works only if "bw.xsi.call_log.enable" is set to 1 (Enabled).	
	0-Disabled	
Permitted Values	1-Enabled, if you delete the BroadSoft call log entry on the phone, the call log entry will be also deleted on the BroadWorks server	
Default	0	
Parameter	bw.xsi.call_log.multiple_accounts.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the user to view BroadSoft Call L Note: It works only if "bw.xsi.call_log.enable" is set to 1	5
Permitted Values	 0-Disabled, you will directly access the BroadSoft Call Log for the first account by default, and you can only view the BroadSoft call log entry for the first account 1-Enabled, you are allowed to select a specific account to access the BroadSoft Call Log and view the call log entry 	
Default	0	
Supported Devices	All phones except CP930W-Base	
Parameter	directory.update_time_interval	<y000000000xx>.cfg</y000000000xx>
Description	It configures the interval (in minutes) for the phone to update the data of the BroadSoft directory from the BroadSoft server.	
Permitted Values	Integer from 60 to 34560	
Default	60	
Parameter	bw.xsi.directory.update.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to automatically download all contacts in the BroadSoft Directory from the server.	
Permitted Values	Note: It works only if "bw.xsi.directory.enable" is set to 1 (Enabled). 0 -Disabled, the phone downloads partial contacts from the server (the maximum of contacts available for viewing at one time is determined by the server), and you can manually download the remaining contacts as needed.	
Default	1-Enabled	
	bw phonebook.group common displayname	<y000000000xx>.cfg</y000000000xx>
	It configures the display name on the phone screen for	
	Note: It works only if "bw.xsi.directory.enable" and "bw_phonebook.group_common_enable" are set	
Description	Note : It works only if "bw.xsi.directory.enable" and "bw_ to 1 (Enabled).	_phonebook.group_common_enable" are set
Description Permitted Values	Note : It works only if "bw.xsi.directory.enable" and "bw_ to 1 (Enabled). String within 99 characters	_phonebook.group_common_enable" are set
Permitted	to 1 (Enabled).	_phonebook.group_common_enable" are set
Permitted Values	to 1 (Enabled). String within 99 characters	
Permitted Values Default Web UI	to 1 (Enabled). String within 99 characters GroupCommon	
Permitted Values Default Web UI Parameter	to 1 (Enabled). String within 99 characters GroupCommon Applications > Broadsoft XSI > Network Directory > Gro	oup Common <y000000000xx>.cfg</y000000000xx>

Permitted	Dissipled the handast will enter Legal Calls agreen when pressing the History soft key		
Values	 0-Disabled, the handset will enter Local Calls screen when pressing the History soft key. 1-Enabled 		
values	1-Enabled		
Default	0		
Parameter	search_in_dialing.bw_directory.enable <y00000000xx>.cfg</y00000000xx>		
	It enables or disables the phone to automatically searc play the results on the pre-dialing/dialing screen.	h entries from the BroadSoft directory, and dis-	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	search_in_dialing.bw_directory.priority	<y000000000xx>.cfg</y000000000xx>	
Description	escription It configures the search priority of the BroadSoft directory.		
Permitted Values	Integer greater than or equal to 0		
Default	5		
Parameter	bw.xsi.directory.multiple_accounts.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It configures whether the sub-account can obtain BSFT network directory. Note : It works only if "bw.xsi.directory.enable" and "bw.enale" is set to 1 (Enabled).		
Permitted Values	 0-Disabled, all handsets obtain the network directory of account 1. 1-Enabled, each handset has its own network directory 		
	2-Enabled, support personal group sub-account, other	groups share XSI information of account 1.	
Default	0		

Broadsoft Call Park

Parameter	features.call_park.park_mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures the call park mode.	
Permitted	0-XSI	
Values	1-FAC, park a call through dialing the call park code.	
Default	0	
Web UI	Features > Pick up & Park > Call Park Mode	
Parameter	features.call_park.group_enable	<y000000000xx> .cfg</y000000000xx>
Description	It enables or disables the group call park feature.	
Permitted Values	 0-Disabled 1-Enabled, users can select GPark during a call to park a call to the first available user in the call park group. 	
Default	0	
Web UI	Features > Pickup & Park > Group Call Park	
Parameter	features.call_park.park_ring	<y000000000xx> .cfg</y000000000xx>
Description	It enables or disables the phone to play a warning tone when a call is parked against its line.	

Note: It works only if "features.call_park.park_visual_notify_enable" is set to 1 (Enabled).		
0-Disabled		
1-Enabled		
0		
Features > Pickup & Park > Audio Alert for Parked 0	Call	
features.call_park.park_visual_notify_enable <y000000000xx> .cfg</y000000000xx>		
It enables or disables the phone to display a parked indicator when a call is parked against its line.		
0-Disabled 1-Enabled		
0		
Features > Pickup & Park > Visual Alert for Parked Call Features > > Visual Alert for Parked Call		
features.call_park.group_park_code <y00000000xx>.cfg</y00000000xx>		
It configures the group call park code. Note: It works only if "features.call_park.park_mode" is set to 1 (FAC).		
String within 32 characters		
Blank		
Features > Pickup & Park > Group Call Park Code		
account.X.callpark_enable ^[1] <mac>.cfg</mac>		
It enables or disables Broadsoft call park feature.		
0-Disabled 1-Enabled, the phone sends the subscription package to the server with the header "Event:x-broad- works-callpark"		
1		
	D-Disabled I-Enabled D-Eatures > Pickup & Park > Audio Alert for Parked C eatures.call_park.park_visual_notify_enable t enables or disables the phone to display a parked D-Disabled I-Enabled D-Eatures > Pickup & Park > Visual Alert for Parked C eatures.call_park.group_park_code t configures the group call park code. Note: It works only if "features.call_park.park_mode String within 32 characters Blank Features > Pickup & Park > Group Call Park Code account.X.callpark_enable ^[1] t enables or disables Broadsoft call park feature. D-Disabled I-Enabled, the phone sends the subscription packat works-callpark"	

BroadSoft Call Waiting Sync

Parameter	call_waiting.mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures the call waiting mode.	
	Note: If it is set to 1 (XSI), it works only if "bw.xsi.enable" is set to 1 (Enabled).	
Permitted	0-Local	
Values	1-XSI, the status of the call waiting feature between the IP phone and the BroadWorks server can be synchronized.	
Default	0	

BroadSoft DND and Forward Sync

The BroadSoft synchronization feature provides the capability to synchronize the status of the DND and forward features between the IP phone and the server.

If the DND (or forward) is activated, the DND (or forward) status changing locally will be synchronized to all registered accounts on the server; but if the DND (or forward) status of a specific account is changed on the server, the DND (or forward) status locally will be changed.

Parameter	features.feature_key_sync.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables to synchronize the feature status between the phone and the server.	
Permitted Values	 0-Disabled 1-Enabled, the phone sends a SUBSCRIBE message with event "as-feature-event". 	
Default	0	
Parameter	account.X.feature_key_sync.enable ^[1]	<mac>.cfg</mac>
Description	It controls whether account X is allowed to send functionally synchronized subscription messages to the server.	
	0-Disabled 1-Enabled	
Default	Blank	

 $^{[1]}X$ is the account ID. X=1-10.

Ethernet Interface MTU Parameter

Parameter	static.network.mtu_value ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the Ethernet interface Maximum Transmission Unit (MTU) on the phones.	
Permitted Values	Integer from 1280 to 1500	
Default	1500	

^[1]If you change this parameter, the phone will reboot to make the change take effect.

SIP Settings Parameters

Parameter	account.X.custom_ua ^[1]	<mac>.cfg</mac>	
Description	It configures the suffix of User-Agent in SIP request messages from the phone.		
Permitted Values	String within 128 characters		
Default	Blank		
Parameter	account.X.check_cseq.enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to check if the CSeq sequence number in the request is lower than that in the previous request on the same dialog.		
Permitted Values	 0-Disabled 1-Enabled. If the CSeq sequence number in the request is lower than that in the previous request, the phone will reject the request. 		
Default	1		
Parameter	account.X.check_to_tag.enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to check if the To-tag is carried in the To header in renewal request.		

rennitteu	0-Disabled		
Values	1-Enabled. If the To-tag does not exist, the phone will reject the request.		
Default	0		
Parameter	sip.send_response_by_request	<y000000000xx>.cfg</y000000000xx>	
Description	It configures where the IP phone retrieves the destination address for response. The phone will then send all SIP response messages to the destination address.		
Permitted	0-from VIA header in the request message		
Values	1-from source address of the request message		
Default	1		
Parameter	sip.requesturi.e164.addglobalprefix	<y0000000000xx>.cfg</y0000000000xx>	
Description	It enables or disables the phone to add a global prefix "+" to the E.164 use	r parts in SIP: URI.	
Permitted	0-Disabled		
Values	1-Enabled, the phone will automatically add a prefix "+" to the number in the E.164 format when you dial using the SIP URI (for example 862512345000@sip.com).		
Default	0		
Parameter	sip.mac_in_ua	<y0000000000xx>.cfg</y0000000000xx>	
Description	It enables or disables the phone to carry the MAC address information in the User-Agent header.		
	0-Disabled		
Permitted Values	1-Enabled, the phone will carry the MAC address with colons (for example 00:15:65:7f:fb:7e) in the User-Agent header.		
	2-Enabled, the phone will carry the MAC address without colons (for example 0015657ffb7e) in the User-Agent header.		
Default	0		
Parameter	account.X.blf.subscribe_period ^[1]	<mac>.cfg</mac>	
Description	It configures the period (in seconds) of the BLF subscription.		
Permitted Values	Integer from 30 to 2147483647		
Default	1800		
Web UI	Account > Advanced > Subscription Period (Seconds)		
Parameter	push_xml.sip_notify	<y000000000xx>.cfg</y000000000xx>	
Des 1 1	It enables or disables the phone to process the push XML via SIP NOTIFY message.		
Description	Note : It is only applicable to modify configurations of the IP phones.		
	note: it is only applicable to modify configurations of the in-phones.		
Permitted	0-Disabled		
Permitted Values			

Call Settings Parameters

Parameter	phone_setting.end_call_net_disconnect.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to end the call if the network is unavailable during the call.		
Permitted			
Values	1-Enabled, the phone will end the call and go to the Idle screen after 5 seconds.		
Default	0		
Parameter	phone_setting.ringing_timeout	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the duration time (in seconds) in the ringing state.		
	If it is set to 180, the phone will stop ringing if the call is not answered within 180 seconds.		
Permitted	Integer from 1 to 3600		
Values			
Default	120		

Base Settings Parameters

Parameter	base.eco_mode.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the eco mode+ to turn off the transmission power when the phone is in the standby mode.		
Permitted Values	 0-Disabled 1-Enabled, there will be no signal interaction between the handset and the base station, the color of the signal strength indicator on the idle screen displays in green. 		
Default	0		
Supported Devices	All phones except CP930W-Base/CP935W-Base		
Handset UI	<u>W78H/W73H/W59R/W57R/W53H/W56H:</u> OK > Settings > System Settings > Eco Mode+		
Parameter	static.base.repeater_mode.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the repeater mode to extend the radio coverage of the base station.		
Permitted Values	0-Disabled 1-RT10, RT20 or RT20U 2-RT30		
Default	0		
Handset UI	W78H/W73H/W59R/W57R/W53H/W56H: OK > Settings > System Settings > Repeater Mode		
	<u>CP930W:</u> Menu > Settings > Advanced Settings (Default PIN: 0000) > Repeater Mode <u>CP935W:</u> More > Advanced (Default PIN: 0000) > Repeater Mode > Repeater Mode		

 $\ensuremath{^{[1]}}\xspace{If}$ If you change this parameter, the phone will reboot to make the change take effect.

Handset Settings Parameters

Parameter	custom.handset.eco_mode.enable	<y000000000xx>.cfg</y000000000xx>	
Decrintion	It enables or disables the eco mode to greatly reduce the transmission power and signal output when the phone is in the talk mode.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	All handsets except DD phones		
	W78H/W73H/W59R/W57R/W53H/W56H:		
	OK > Settings > System Settings > Eco Mode		
Handset UI	CP930W:		
Handset UI	Menu > Settings > Basic Settings > Eco Mode		
	CP935W:		
	More > Basic > Eco Mode > Eco Mode		
Parameter	handset.X.hac.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the HAC (Hearing Aid Compatibility) handset settings.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	All handsets except DD phones		

^[1]X is the handset ID. X=1 to 10.

Appendix

RFC and Internet Draft Support

The following RFC's and Internet drafts are supported:

- RFC 1321—The MD5 Message-Digest Algorithm
- RFC 1889—RTP Media control
- RFC 2112—Multipart MIME
- RFC 2327—SDP: Session Description Protocol
- RFC 2387—The MIME Multipart/Related Content-type
- RFC 2543—SIP: Session Initiation Protocol
- RFC 2617—Http Authentication: Basic and Digest access authentication
- RFC 2782—A DNS RR for specifying the location of services (DNS SRV)
- RFC 2806—URLs for Telephone Calls
- RFC 2833—RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals
- RFC 2915—The Naming Authority Pointer (NAPTR) DNS Resource Record
- RFC 2976—The SIP INFO Method
- RFC 3087—Control of Service Context using SIP Request-URI
- RFC 3261—SIP: Session Initiation Protocol (replacement for RFC 2543)
- RFC 3262—Reliability of Provisional Responses in the Session Initiation Protocol (SIP)
- RFC 3263—Session Initiation Protocol (SIP): Locating SIP Servers
- RFC 3264—An Offer/Answer Model with the Session Description Protocol (SDP)
- RFC 3265—Session Initiation Protocol (SIP) Specific Event Notification
- RFC 3266—Support for IPv6 in Session Description Protocol (SDP)
- RFC 3310—HTTP Digest Authentication Using Authentication and Key Agreement (AKA)
- RFC 3311—The Session Initiation Protocol (SIP) UPDATE Method
- RFC 3312—Integration of Resource Management and SIP
- RFC 3313—Private SIP Extensions for Media Authorization
- RFC 3323—A Privacy Mechanism for the Session Initiation Protocol (SIP)
- RFC 3324—Requirements for Network Asserted Identity
- RFC 3325—SIP Asserted Identity
- RFC 3326—The Reason Header Field for the Session Initiation Protocol (SIP)
- RFC 3361—DHCP-for-IPv4 Option for SIP Servers
- RFC 3372—SIP for Telephones (SIP-T): Context and Architectures
- RFC 3398—ISUP to SIP Mapping
- RFC 3420—Internet Media Type message/sipfrag
- RFC 3428—Session Initiation Protocol (SIP) Extension for Instant Messaging
- RFC 3455—Private Header (P-Header) Extensions to the SIP for the 3GPP
- RFC 3486—Compressing the Session Initiation Protocol (SIP)
- RFC 3489—STUN Simple Traversal of User Datagram Protocol (UDP) Through Network Address Translators (NATs)
- RFC 3515—The Session Initiation Protocol (SIP) Refer Method
- RFC 3550-RTP: Transport Protocol for Real-Time Applications
- RFC 3555—MIME Type Registration of RTP Payload Formats
- RFC 3581—An Extension to the SIP for Symmetric Response Routing
- RFC 3608—SIP Extension Header Field for Service Route Discovery During Registration
- RFC 3611—RTP Control Protocol Extended Reports (RTCP XR)

- RFC 3665—Session Initiation Protocol (SIP) Basic Call Flow Examples
- RFC 3666—SIP Public Switched Telephone Network (PSTN) Call Flows.
- RFC 3680—SIP Event Package for Registrations
- RFC 3702—Authentication, Authorization, and Accounting Requirements for the SIP
- RFC 3711—The Secure Real-time Transport Protocol (SRTP)
- RFC 3725—Best Current Practices for Third Party Call Control (3pcc) in the Session Initiation Protocol (SIP)
- RFC 3842—A Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol (SIP)
- RFC 3856—A Presence Event Package for Session Initiation Protocol (SIP)
- RFC 3863—Presence Information Data Format
- RFC 3890—A Transport Independent Bandwidth Modifier for the SDP
- RFC 3891—The Session Initiation Protocol (SIP) "Replaces" Header
- RFC 3892—The Session Initiation Protocol (SIP) Referred-By Mechanism
- RFC 3959—The Early Session Disposition Type for SIP
- RFC 3960—Early Media and Ringing Tone Generation in SIP
- RFC 3966—The tel URI for telephone number
- RFC 3968—IANA Registry for SIP Header Field
- RFC 3969—IANA Registry for SIP URI
- RFC 4028—Session Timers in the Session Initiation Protocol (SIP)
- RFC 4083—3GPP Release 5 Requirements on SIP
- RFC 4235—An INVITE-Initiated Dialog Event Package for the Session Initiation Protocol (SIP)
- RFC 4244—An Extension to the SIP for Request History Information
- RFC 4317—Session Description Protocol (SDP) Offer/Answer Examples
- RFC 4353—A Framework for Conferencing with the SIP
- RFC 4458—SIP URIs for Applications such as Voicemail and Interactive Voice Response (IVR)
- RFC 4475—Session Initiation Protocol (SIP) Torture
- RFC 4485—Guidelines for Authors of Extensions to the SIP
- RFC 4504—SIP Telephony Device Requirements and Configuration
- RFC 4566—SDP: Session Description Protocol.
- RFC 4568—Session Description Protocol (SDP) Security Descriptions for Media Streams
- RFC 4575—A SIP Event Package for Conference State
- RFC 4579—SIP Call Control Conferencing for User Agents
- RFC 4583—Session Description Protocol (SDP) Format for Binary Floor Control Protocol (BFCP) Streams
- RFC 4662—A SIP Event Notification Extension for Resource Lists
- RFC 4730—Event Package for KPML
- RFC 5009—P-Early-Media Header
- RFC 5079—Rejecting Anonymous Requests in SIP
- RFC 5359—Session Initiation Protocol Service Examples
- RFC 5589—Session Initiation Protocol (SIP) Call Control Transfer
- RFC 5630—The Use of the SIPS URI Scheme in SIP
- RFC 5806—Diversion Indication in SIP
- RFC 5954—Essential Correction for IPv6 ABNF and URI Comparison in RFC 3261
- RFC 6026—Correct Transaction Handling for 2xx Responses to SIP INVITE Requests
- RFC 6141—Re-INVITE and Target-Refresh Request Handling in SIP
- draft-ietf-sip-cc-transfer-05.txt—SIP Call Control Transfer
- draft-anil-sipping-bla-02.txt—Implementing Bridged Line Appearances (BLA) Using Session Initiation Protocol (SIP)

- draft-anil-sipping-bla-03.txt—Implementing Bridged Line Appearances (BLA) Using Session Initiation Protocol (SIP)
- draft-ietf-sip-privacy-00.txt—SIP Extensions for Caller Identity and Privacy, November
- draft-ietf-sip-privacy-04.txt—SIP Extensions for Network-Asserted Caller Identity and Privacy within Trusted Networks
- draft-levy -sip-diversion-08.txt—Diversion Indication in SIP
- draft-ietf-sipping-cc-conferencing-03.txt—SIP Call Control Conferencing for User Agents
- draft-ietf-sipping-cc-conferencing-05.txt—Connection Reuse in the Session Initiation Protocol (SIP)
- draft-ietf-sipping-rtcp-summary-02.txt—Session Initiation Protocol Package for Voice Quality Reporting Event
- draft-ietf-sip-connect-reuse-06.txt—Connection Reuse in the Session Initiation Protocol (SIP)
- draft-ietf-bliss-shared-appearances-15.txt—Shared Appearances of a Session Initiation Protocol (SIP) Address
 of Record (AOR)

To find the applicable Request for Comments (RFC) document, go to http://www.ietf.org/rfc.html and enter the RFC number.

Glossary

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My Term My definition