Yealink 亿联网络

SIP-T2 /T3 /T4 /T5 /CP920 IP Phones Administrator Guide



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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:

- T5 series phones, including T57W, T54W, T53W and T53.
- T4 series phones, including T4U (T48U, T46U, T43U, T42U), T4S (T48S, T46S, T42S, T41S), T48G, T46G, T42G, T41P and T40P/G.
- T3 series phones, including T33P/T33G, T31P/T31G/T31 and T30P/T30.
- T2 series phones, including T29G, T27G, T23P/G, T21(P) E2 and T19(P) E2.
- CP920 IP conference phones.
- Expansion modules, including EXP20, EXP40, EXP43 and EXP50.

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 and configure the most basic features available on the 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 V85.2

Documentations of the newly released T3 phones have also been added.

The following sections are new for this version:

Device Management

Major updates have occurred to the following section:

Custom Logo Configuration

Changes for Release V85, Guide Version V85.1

The following sections are new for this version:

- Out of Service
- PIN Code Provisioning Settings Configuration
- Smart Noise Filtering
- Unify Parameters
- Example: Using VPN based on L2TP Prototol
- Exporting the OpenVPN Configuration File from the Phone
- Importing the OpenVPN Configuration File to Phone
- Dsskey Page Reset Configuration

Major updates have occurred to the following sections:

- Bluetooth
- Language
- MWI for Voice Mail Configuration
- Call Park and Retrieve Configuration
- Call Transfer Configuration
- LDAP Configuration
- SCA Configuration
- BLA Configuration
- VPN Configuration
- Internet Port and PC Port Configuration
- Warnings Display
- BroadSoft Settings
- Wi-Fi Configuration
- Ethernet Interface MTU Parameters
- Call Display Configuration
- Network Conference Configuration
- Handset/Headset/Speakerphone Mode Configuration
- Power LED Indicator Configuration
- Macro Action Strings
- Web Server Type Configuration
- Return Code for Refused Call Configuration
- Return Code for Unanswered Call Configuration
- DND Settings Configuration
- Line Keys Configuration
- Multicast Paging Settings Configuration
- Ringer Volume Configuration
- Encryption and Decryption Configuration

- Custom Logo Configuration
- Supported Trusted Certificates

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Getting Started

This chapter describes where Yealink devices fit in your network and provides basic initialization instructions of devices.

Topics

Requirements Yealink IP Phones in a Network Initialization Process Overview Verifying Startup

Requirements

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

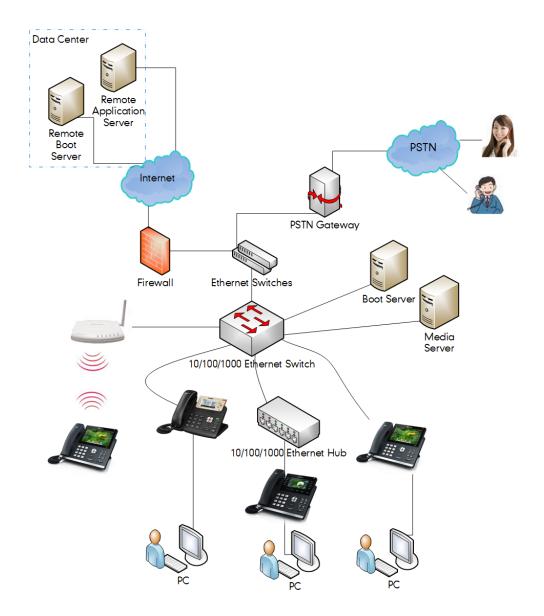
- A working IP network is established.
- VoIP gateways configured for SIP.
- The latest (or compatible) firmware of the device is available.
- A call server is active and configured to receive and send SIP messages.
- A text editor, such as Notepad++, to create and edit boot files, configuration files,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

Yealink IP Phones in a Network

Most Yealink phones are connected physically through a Category 5E (CAT5E) cable to a 10/100/1000Mbps Ethernet LAN, and send and receive all data using the same packet-based technology. Some phones support the wireless network.

Since the IP phone is a data terminal, digitized audio being just another type of data from its perspective, the phone is capable of vastly more than traditional business phones. Moreover, Yealink phones run the same protocols as your office personal computer, which means that you can develop many innovative applications without resorting to specialized technology.

There are many ways to set up a phone network using Yealink phones. The following shows an example of a network setup:



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 IP phone begins the initialization process, it cycles through the following steps:

- 1. The power LED indicator glows red.
- 2. The message "Welcome Initializing... please wait" appears on the phone screen when the phone starts up.
- 3. The main phone screen displays the following:
 - Time and date
 - Soft key labels
- 4. Press the OK/ √/ key or select Menu > Status to check the phone status, for example, firmware version. If the phone has successfully passed through these steps, it starts up properly and is ready for use.

Network Configurations

You can make custom network configurations.

Topics

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

IPv4 and IPv6 Wired 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

Wired Network IP Addressing Mode Configuration IPv4 Wired Network Configuration IPv6 Wired Network Configuration

Wired Network IP Addressing Mode Configuration

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

Parameter	static.network.ip_address_mode ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the IP addressing mode for the wired network.	
	0-IPv4	
Permitted Values	1 -IPv6 2 -IPv4 & IPv6	
Default	0	
Web UI	Network > Basic > Internet Port > Mode (IPv4/IPv6)	
	Color Screen Phones:	
	Menu > Advanced (default password: admin) > Network > WAN Port > IP Mode Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IP Mode	
Phone UI		

Parameter	static.network.preference ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It specifies IPv4 or IPv6 as the preferred wired network in a Dual-Stack mode. Note: It works only if "static.network.ip_address_mode" is set to 2 (IPv4 & IPv6).		
Description			
Permitted	0-IPv6		
Values	1-IPv4		
Default	0		
Web UI	Network > Basic > Internet Port > Preference(IPv4/I	Pv6)	
	ne UI Menu > Advanced (default password: admin) > Network > WAN Port > Preference Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > Preference		
Phone UI			
Parameter	account.X.sip_server_mode ^[2]	<mac>.cfg</mac>	
	It specifies the preferred network in a Dual-Stack mode when a domain name is configured for a SIP server. Note: It works only if "static.network.ip_address_mode" is set to 2 (IPv4 & IPv6).		
Description			
	0-Specify IPv4 as the preferred network and A que	ry will be performed preferentially.	
Permitted Values	1-Specify IPv6 as the preferred network and AAAA query will be performed preferentially.		
	2-The preferred network is configured by "static.network.preference".		
Default	o		

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

^[2]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

IPv4 Wired Network Configuration

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

Parameter	static.network.internet_port.type ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the Internet port type for IPv4 wired network.		
	Note: It works only if "static.network.ip_address_mo	only if "static.network.ip_address_mode" is set to 0 (IPv4) or 2 (IPv4 & IPv6).	
Permitted	0-DHCP		
Values	2-Static IP		
Default	0		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv4 Config > Configuration Type Other Phones:		
Web UI			
Web OI			
	Network > Basic > IPv4 Config		
	Color Screen Phones:		
Phone UI	hone UI Menu > Advanced (default password: admin) > Network > WAN Port > IPv4 Black-and-white Screen Phones:		

	Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv4		
Parameter	static.network.internet_port.ip ^[1] <y00000000xx>.cfg</y00000000xx>		
Description	It configures the IPv4 address for the wired network.		
-	Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP).		
Permitted Values	IPv4 Address		
Default	Blank		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Network > Basic > IPv4 Config > Configuration Type (Static IP) > IP Address		
Web OI	Other Phones:		
	Network > Basic > IPv4 Config > Static IP Address > IP Address		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > WAN Port > IPv4 > Static IP > IP Address		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv4 > Static IPv4 Client > IP Address		
Parameter	static.network.internet_port.mask ^[1] <y000000000xx>.cfg</y000000000xx>		
Description	It configures the IPv4 subnet mask for the wired network.		
Description	Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP).		
Permitted Values	Subnet Mask		
Default	Blank		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Network > Basic > IPv4 Config > Configuration Type (Static IP) > Subnet Mask		
Web of	Other Phones:		
	Network > Basic > IPv4 Config > Static IP Address > Subnet Mask		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > WAN Port > IPv4 > Static IP > Subnet Mask		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv4 > Static IPv4 Client > Subnet Mask		
Parameter	static.network.internet_port.gateway ^[1] <y000000000xx>.cfg</y000000000xx>		
Description	It configures the IPv4 default gateway for the wired network.		
Description	Note: It works only if "static.network.internet_port.type" is set to 2 (Static IP).		
Permitted Values	IPv4 Address		
Default	Blank		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Network > Basic > IPv4 Config > Configuration Type (Static IP) > Default Gateway Other Phones:		

	Natwork > Pagia > IPv4 Config > Static IP Address > Default Cataway		
	Network > Basic > IPv4 Config > Static IP Address > Default Gateway		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > N way	etwork > WAN Port > IPv4 > Static IP > Default Gate-	
	Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv4 > Static IPv4 Client > Default Gateway		
Parameter	static.network.static_dns_enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It triggers the static DNS feature to on or off for the wired network.		
Description	Note: It works only if "static.network.internet_port	type" is set to 0 (DHCP).	
Permitted	0-Off, the phone will use the IPv4 DNS obtained to the interval of the inte	rom DHCP.	
Values	1-On, the phone will use manually configured sta	tic IPv4 DNS.	
Default	0		
Web UI	Network > Basic > IPv4 Config > Static DNS		
	Color Screen Phones:		
Phone UI	Menu > Advanced (default password: admin) > N DNS	etwork > WAN Port > IPv4 > Type(DHCP) > Static	
Filone of	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > WAN DHCP IPv4 Client > Static DNS		
Parameter	static.network.primary_dns ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	static.network.primary_dns ^[1]	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the	
Description	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address_u	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the	
Description Permitted Values	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address_u DHCP environment, you need to make sure "stat	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the	
Description Permitted Values	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address_ DHCP environment, you need to make sure "stat IPv4 Address	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the	
Description Permitted Values Default	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address DHCP environment, you need to make sure "stat IPv4 Address Blank	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the c.network.static_dns_enable" is set to 1 (On).	
Description Permitted Values Default	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address DHCP environment, you need to make sure "stat IPv4 Address Blank T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the c.network.static_dns_enable" is set to 1 (On).	
Description Permitted Values Default	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address DHCP environment, you need to make sure "stat IPv4 Address Blank T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv4 Config > Static DNS > Pri	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the c.network.static_dns_enable" is set to 1 (On).	
Description Permitted Values Default	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address_ DHCP environment, you need to make sure "stat IPv4 Address Blank T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv4 Config > Static DNS > Pri <u>Other Phones:</u>	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the c.network.static_dns_enable" is set to 1 (On).	
Description Permitted Values Default Web UI	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address DHCP environment, you need to make sure "stat IPv4 Address Blank <u>T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:</u> Network > Basic > IPv4 Config > Static DNS > Pri <u>Other Phones:</u> Network > Basic > IPv4 Config > Static IP Addres	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the c.network.static_dns_enable" is set to 1 (On). mary DNS s > Primary DNS	
Description Permitted Values Default Web UI	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address_ DHCP environment, you need to make sure "stat IPv4 Address Blank T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv4 Config > Static DNS > Pri <u>Other Phones:</u> Network > Basic > IPv4 Config > Static IP Address <u>Color Screen Phones:</u>	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the c.network.static_dns_enable" is set to 1 (On). mary DNS s > Primary DNS	
Description Permitted Values Default Web UI	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address DHCP environment, you need to make sure "stat IPv4 Address Blank T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv4 Config > Static DNS > Pri Other Phones: Network > Basic > IPv4 Config > Static IP Address Color Screen Phones: Menu > Advanced (default password: admin) > N	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the c.network.static_dns_enable" is set to 1 (On). mary DNS s > Primary DNS etwork > WAN Port > IPv4 > Static IP > Pri.DNS	
Description Permitted Values Default Web UI	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address DHCP environment, you need to make sure "stat IPv4 Address Blank <u>T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:</u> Network > Basic > IPv4 Config > Static DNS > Pri <u>Other Phones:</u> Network > Basic > IPv4 Config > Static IP Address <u>Color Screen Phones:</u> Menu > Advanced (default password: admin) > N In the DHCP environment: Menu > Advanced (default password: admin) > N	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the c.network.static_dns_enable" is set to 1 (On). mary DNS s > Primary DNS etwork > WAN Port > IPv4 > Static IP > Pri.DNS	
Description Permitted Values Default Web UI	static.network.primary_dns ^[1] It configures the primary IPv4 DNS server for the Note : It works only if "static.network.ip_address DHCP environment, you need to make sure "stat IPv4 Address Blank <u>T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:</u> Network > Basic > IPv4 Config > Static DNS > Pri <u>Other Phones:</u> Network > Basic > IPv4 Config > Static IP Address <u>Color Screen Phones:</u> Menu > Advanced (default password: admin) > N In the DHCP environment: Menu > Advanced (default password: admin) > N (Enabled) > Pri.DNS	wired network. node" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In the <u>c.network.static_dns_enable</u> " is set to 1 (On). mary DNS <u>s > Primary DNS</u> etwork > WAN Port > IPv4 > Static IP > Pri.DNS etwork > WAN Port > IPv4 > DHCP > Static DNS	

	Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv4 > DHCP IPv4 Client > Static DNS (Enabled) > Pri.DNS		
Parameter	static.network.secondary_dns ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the secondary IPv4 DNS server for the wired network. 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).		
Description			
Permitted Values	IPv4 Address		
Default	Blank		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Wab 111	Network > Basic > IPv4 Config > Static DNS > Secondary DNS Other Phones: Network > Basic > IPv4 Config > Static IP Address > Secondary DNS		
Web OI			
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Ne	twork > WAN Port > IPv4 > Static IP > Sec.DNS	
	In the DHCP environment:		
	Menu > Advanced (default password: admin) > Network > WAN Port > IPv4 > DHCP > Static DNS (Enabled) > Sec.DNS		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv4 > Static IPv4 Client > Sec.DNS		
	In the DHCP environment:		
	Menu > Settings > Advanced Settings (default pass DHCP IPv4 Client > Static DNS (Enabled) > Sec.D		

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

IPv6 Wired Network 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 wired network.

Parameter	static.network.ipv6_internet_port.type ^[1]	<y000000000xx>.cfg</y000000000xx>
	It configures the Internet port type for IPv6 wired ne	twork.
Description	Note: It works only if "static.network.ip_address_mode" is set to 1 (IPv6) or 2 (IPv4 & IPv6).	
Permitted	0-DHCP	
Values 1-Static IP		
Default	0	
Weblu	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:	
Web UI	Network > Basic > IPv6 Config > Configuration Type	

Other Phones: Network > Basic > IPv6 Config Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 Parameter static.network.ipv6_intermet_port.ip ⁽¹⁾ <pre><pre><pre><pre><pre><pre><pre><pre< th=""><th></th><th></th><th></th></pre<></pre></pre></pre></pre></pre></pre></pre>				
Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 Parameter static network.ipv6 internet_port.ipl1		Other Phones:		
Phone UI Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 Parameter static.network.ipv6_internet_port.ip ^[1] <y000000000xx>.cfg Description tt configures the IPv6 address for the wired network. Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted IPv6 Address Default Blank T57W/T54W/T53W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IP Address Other Phones: Network > Basic > IPv6 Config > Static IP Address > IP Address Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Phone UI Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Parameter static.network.ipv6_prefix^[11] <y00000000xx>.cfg It configures the IPv6 prefix for the wired network. Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted It configures the IPv6 prefix for the wired network. Net: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted It configures the IPv6 prefix for the wired network.</y00000000xx></y000000000xx>				
Phone UI Black-and-white Screen Phones; Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 Parameter static.network.ipv6_intermet_port.ip ^[1] <y000000000xx>.cfg Description Note: It works only if "static.network.ipv6_intermet_port.type" is set to 1 (Static IP). Permitted IPv6 Address Default Blank T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U; Network > Basic > IPv6 Config > Configuration Type (Static IP) > IP Address Other Phones; Network > Basic > IPv6 Config > Static IP Address > IP Address Color Screen Phones; Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Phone UI Black-and-white Screen Phones; Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Parameter static.network.ipv6_intermet_port.type" is set to 1 (Static IP). Permitted Inconfures the IPv6 prefix for the wired network. Note: It works only if "static.network.ipv6_intermet_port.type" is set to 1 (Static IP). Permitted Inconfures the IPv6 prefix for the wired network. Note: It works only if "static.network.ipv6_intermet_port.type" is set to 1 (Static IP). Permitted Invonf vorks only if "static.ne</y000000000xx>		Color Screen Phones:		
Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 Parameter static.network.ipv6_intermet_port.ip ^[1] <y000000000xx>.cfg Description Rconfigures the IPv6 address for the wired network. > Permitted IPv6 Address Intermet_port.ipve" is set to 1 (Static IP). Permitted IPv6 Address Intermet_port.ipve" is set to 1 (Static IP). Permitted IPv6 Address Intermet_port.ipve" is set to 1 (Static IP). Permitted IPv6 Address Intermet_port.ipve" is set to 1 (Static IP). Values If STW/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Static IP Address Metwork > Basic > IPv6 Config > Static IP Address > IP Address IP Address IPv6 Address Phone UI Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address IPv6 Client > IP Address Parameter static.network.ipv6_intermet_port.ipve" is set to 1 (Static IP). IPvenitted Permitted Integer from 0 to 128 IPv6 Prefix(Ontig > Static IP > IPv6 Prefix(Ont28) Permitted Integer from 0 to 128 If STW/T54W/T53W/T53/T48U/T46U/T43U/T42U: Integer from 0 to 128 IPv6 Prefix(0-128) <th>Phone UI</th><td>Menu > Advanced (default password: admin) > Net</td><td>work > WAN Port > IPv6</td></y000000000xx>	Phone UI	Menu > Advanced (default password: admin) > Net	work > WAN Port > IPv6	
Parameter static.network.ipv6_internet_port.ip ^[1] <y00000000xx>.cfg Description It configures the IPv6 address for the wired network. Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted IPv6 Address Default Blank T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IP Address Other Phones: Network > Basic > IPv6 Config > Static IP Address > IP Address Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Phone UI Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Parameter static.network.ipv6_prefix^[1] vg00000000xx>.cfg it configures the IPv6 prefix for the wired network. Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted integer from 0 to 128 Default 64 T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128)<th></th><td colspan="3">Black-and-white Screen Phones:</td></y00000000xx>		Black-and-white Screen Phones:		
It configures the IPv6 address for the wired network. Description Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted Values IPv6 Address Default Blank T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IP Address Other Phones: Network > Basic > IPv6 Config > Static IP Address > IP Address Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Parameter static.network.ipv6_prefix11 vg00000000xx.cfg Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted Nateer from 0 to 128 Default 64 T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IP		Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6		
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Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted Values IPv6 Address Default Blank T577W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IP Address Other Phones: Network > Basic > IPv6 Config > Static IP Address > IP Address Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Black-and-white Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Static IPv6 Client > IP Address Parameter static.network.ipv6_prefix[1] vg000000000xx>.cfg It configures the IPv6 prefix for the wired network. Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted Nete: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted Nete: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted Nete: It works asic > IPv6 Config > Configuration Type (Static IP) > IPv6 Prefi	Description	It configures the IPv6 address for the wired network.		
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Default Blank T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IP Address Other Phones: Network > Basic > IPv6 Config > Static IP Address > IP Address Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IPv6 Client > IP Address Parameter static.network.ipv6_prefix[1] v000000000xx>.cfg It configures the IPv6 prefix for the wired network. Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted Values Default 64 T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IPv6 Prefix(0-128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0-128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0-128) Other Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 IP Prefix Phone UI Black-and-white Screen Phones: Menu > Advanced (default password: admin) > Net		IPv6 Address		
Tarameter Tarameter Tarameter Tarameter Static IP Tarameter Static IP Static IP Web UI Tarameter Static IP Static IP Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Phone UI Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Parameter static.network.ipv6_prefix ^[11] <y000000000xx>.cfg Description It configures the IPv6 prefix for the wired network. Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted Integer from 0 to 128 Default 64 T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IPv6 Prefix(0-128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0-128) Other Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 IP Prefix Phone UI Eack-and-white Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 IP Prefix Phone UI Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 iP Prefix Parameter</y000000000xx>				
Web UI Network > Basic > IPv6 Config > Configuration Type (Static IP) > IP Address Other Phones: Network > Basic > IPv6 Config > Static IP Address > IP Address Phone UI Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Parameter static.network.ipv6_prefix ¹¹ <y00000000xx.cfg< td=""> Description It configures the IPv6 prefix for the wired network. Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted Integer from 0 to 128 Default 64 T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Other Phones: Network > MAN Port > IPv6 > Static IP > IPv6 IP Prefix Phone UI Black-and-white Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IPv6 IP Prefix Black-and-white Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IPv6 IP Prefix Phone UI Blac</y00000000xx.cfg<>	Default			
Web UI Other Phones: Network > Basic > IPv6 Config > Static IP Address > IP Address Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Parameter static.IPv6 Client > IP Address Parameter static.network.ipv6_prefix ^[1] vg00000000xx>.cfg vg00000000xx>.cfg It configures the IPv6 prefix for the wired network. 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 T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IPv6 IP Prefix Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IPv6 IP Prefix Parameter static.network.ipv6_internet_port.gateway ^[11] <y00000000xx>.cfg Parameter static.network.ipv6 internet_port.gateway^[11] <td< th=""><th></th><th></th><th></th></td<></y00000000xx>				
Other Phones: Network > Basic > IPv6 Config > Static IP Address > IP Address Phone UI Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP < P Address Parameter static.network.ipv6_prefix ^[1] static IPv6 Client > IP Address Parameter static.network.ipv6_prefix for the wired network. Note: It works only if "static.network.ipv6_intermet_port.type" is set to 1 (Static IP). Permitted Integer from 0 to 128 Default 64 T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IPv6 IP Prefix Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IPv6 IP of IP		Network > Basic > IPv6 Config > Configuration Type	e (Static IP) > IP Address	
Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IPv6 Client > IP Address Parameter static IPv6 Client > IP Address Parameter static.network.ipv6_prefix ^[1] <y000000000xx>.cfg It configures the IPv6 prefix for the wired network. Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP). Permitted Integer from 0 to 128 Integer from 0 to 128 Default 64 157W/T54W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IPv6 IP Prefix Black-and-white Screen Phones: Menu > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IPv6 Client > IPv6 IP Prefix Parameter static.network.ipv6_internet_port.gateway^[1] <y00000000xx>.cfg It configures the IPv6 default gateway for the wired network. Static IPv6 Client > IPv6 Prefix</y00000000xx></y000000000xx>		Other Phones:		
Phone UI Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IP Address Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IPv6 Client > IP Address Parameter static.network.ipv6_prefix ^[1] <y000000000xx>.cfg Description It configures the IPv6 prefix for the wired network. y000000000xx>.cfg Permitted Integer from 0 to 128 Integer from 0 to 128 Default 64 Ymbox VI > Basic > IPv6 Config > Configuration Type (Static IP) > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IPv6 IP Prefix Black-and-white Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > IPv6 IP Prefix Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IPv6 Client > IPv6 IP Prefix Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IPv6 Client > IPv6 IP Prefix Parameter sta</y000000000xx>		Network > Basic > IPv6 Config > Static IP Address >	> IP Address	
Phone UI Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IPv6 Client > IP Address Parameter static.network.ipv6_prefix ^[1] <y00000000xx>.cfg It configures the IPv6 prefix for the wired network. 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 T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Configuration Type (Static IP) > IPv6 Prefix(0~128) Other Phones: Network > Basic > IPv6 Config > Static IP Address > IPv6 Prefix(0~128) Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 IP Prefix Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IPv6 IP Prefix Phone UI Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IP > IPv6 IP Prefix Parameter static.network.ipv6_internet_port.gateway^[1] <y00000000xx>.cfg Parameter static.network.ipv6_internet_port.gateway^[1] <y00000000xx>.cfg Description It configures the IPv6 default gateway for the wired network.</y00000000xx></y00000000xx></y00000000xx>		Color Screen Phones:		
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Description		Static IPv6 Client > IPv6 IP Prefix		
Description	Parameter	static.network.ipv6_internet_port.gateway ^[1] <y000000000xx>.cfg</y000000000xx>		
Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP).		It configures the IPv6 default gateway for the wired network.		
	Description	Note: It works only if "static.network.ipv6_internet_port.type" is set to 1 (Static IP)		
Permitted IPv6 Address	Permitted	Pv6 Address		

Values				
Default	Blank			
Web UI	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:			
	Network > Basic > IPv6 Config > Configuration Type (Static IP) > Default Gateway			
	Other Phones:			
	Network > Basic > IPv6 Config > Static IP Address	 Network > Basic > IPv6 Config > Static IP Address > Default Gateway		
	Color Screen Phones:			
Phone UI	Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > Default Gate- way			
	Black-and-white Screen Phones:			
	Menu > Settings > Advanced Settings (default pas Static IPv6 Client > Default Gateway	sword: admin) > Network > WAN Port > IPv6 >		
Parameter	static.network.ipv6_static_dns_enable ^[1]	<y000000000xx>.cfg</y000000000xx>		
Description	It triggers the static IPv6 DNS feature to on or off fo	r the wired network.		
Description	Note: It works only if "static.network.ipv6_internet_	port.type" is set to 0 (DHCP).		
Permitted	0-Off, the phone will use the IPv6 DNS obtained from	om DHCP.		
Values	1-On, the phone will use manually configured stati	c IPv6 DNS.		
Default	0			
Web UI	Network > Basic > IPv6 Config > IPv6 Static DNS (Static IPv6 DNS)		
	Color Screen Phones:			
Phone UI	Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Type(DHCP) > Static DNS			
	Black-and-white Screen Phones:			
	Menu > Settings > Advanced Settings (default pas DHCP IPv6 Client > Static DNS	sword: admin) > Network > WAN Port > IPv6 >		
Parameter	static.network.ipv6_primary_dns ^[1]	<y000000000xx>.cfg</y000000000xx>		
	It configures the primary IPv6 DNS server for the w	ired network.		
Description	Note: It works only if "static.network.ip_address_m environment, you also need to make sure "static.n	ode" is set to 1 (IPv6) or 2 (IPv4 & IPv6). In DHCP etwork.ipv6_static_dns_enable" is set to 1 (On).		
Permitted Values	IPv6 Address			
Default	Blank			
Default	Blank T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:			
		Primary DNS		
Default Web UI	<u>T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:</u>	• Primary DNS		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Static IPv6 DNS >			
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Static IPv6 DNS > Other Phones:			
Web UI	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Static IPv6 DNS > Other Phones: Network > Basic > IPv6 Config > Static IP Address Color Screen Phones:			
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Network > Basic > IPv6 Config > Static IPv6 DNS > Other Phones: Network > Basic > IPv6 Config > Static IP Address Color Screen Phones:	> Primary DNS		

	(Enabled) > Primary DNS		
	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IPv6 Client > Pri.DNS		
	In DHCP environment:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > DHCP IPv6 Client > Static DNS(Enabled) > Pri.DNS		
Parameter	static.network.ipv6_secondary_dns ^[1] <y000000000xx>.cfg</y000000000xx>		
Description	It configures the secondary IPv6 DNS server for the wired network.		
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		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Network > Basic > IPv6 Config > Static IPv6 DNS > Secondary DNS		
	Other Phones:		
	Network > Basic > IPv6 Config > Static IP Address > Secondary DNS		
	Color Screen Phones: Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > Static IP > Secondary DNS		
	In DHCP environment:		
Phone UI	Menu > Advanced (default password: admin) > Network > WAN Port > IPv6 > DHCP > Static DNS (Enabled) > Secondary DNS		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > Static IPv6 Client > Sec.DNS		
	In DHCP environment:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > WAN Port > IPv6 > DHCP IPv6 Client > Static DNS(Enabled) > Sec.DNS		
Parameter	static.network.ipv6_icmp_v6.enable ^[1] <y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to obtain IPv6 wired network settings via SLAAC (Stateless Addre Autoconfiguration).		
	Note: It works only if "static.network.ipv6_internet_port.type" is set to 0 (DHCP).		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T33P, T33G, T31P, T31G, T31, T30P, T30, T29G		
Web UI	Network > Advanced > ICMPv6 Status > Active		

 $\ensuremath{^{[1]}}\xspace$ 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, Option 2 and Option 100 DHCP Option 12 DHCP Option 120 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 Univer- sal 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.
Timezone/DST	100	Specify a POSIX timezone string.
SIP Server/Outbound Proxy Server	120	Convey a SIP server's or outbound proxy server's location to the client.

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, Option 2 and Option 100

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).

DHCP option 100 is used to specify the timezone information (time zone and daylight-saving offset). The priority is as follows: option 100 > option 2.

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			
	For T57W phones: SIP-T57W			
	For T54W phones: SIP-T54W			
	For T53 phones: SIP-T53			
	For T48U phones: SIP-T48U			
	For T48G phones: SIP-T48G			
	For T48S phones: SIP-T48S			
Default	efault For T46U phones: SIP-T46U			
	For T46G phones: SIP-T46G			
	For T46S phones: SIP-T46S			
	For T43U phones: SIP-T43U			
	For T42G phones: SIP-T42G			
	For T42S phones: SIP-T42S			
	For T42U phones: SIP-T42U			
	For T41P phones: SIP-T41P			

Web UI	Features > General Information > DHCP Hostname
	For CP920 phones: SIP-CP920
	For T19(P) E2 phones: SIP-T19P_E2
	For T21(P) E2 phones: SIP-T21P_E2
	For T23G phones: SIP-T23G
	For T23P phones: SIP-T23P
	For T27G phones: SIP-T27G
	For T29G phones: SIP-T29G
	For T30 phones: SIP-T30
	For T30P phones: SIP-T30P
	For T31 phones: SIP-T31
	For T31P phones: SIP-T31P
	For T31G phones: SIP-T31G
	For T33P phones: SIP-T33P
	For T33G phones: SIP-T33G
	For T40G phones: SIP-T40G
	For T40P phones: SIP-T40P
	For T41S phones: SIP-T41S

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

DHCP Option 120

DHCP option 120 is used by the SIP client to locate a SIP server or outbound proxy server.

Topic

DHCP Option 120 Configuration

DHCP Option 120 Configuration

The following table lists the parameter you can use to configure DHCP option 120.

Parameter	sip.dhcp.option120.mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures whether to use DHCP option 120 for obtaining the outbound proxy server IP address.	
	endary energinary educed and proxy certer te net configured, are address non prior epicer	
Default	0	

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 fo	rmat 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	
	Color Screen Phones:	
	Menu > Advanced (default password: admin) > Auto Provision > IPv4 DHCP Option Value	
Phone UI	Black-and-white Screen Phones:	
	Menu > Settings > Advanced Settings (default password: admin) > 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
ACS URL	17	Specify the access URL of the TR-069 ACS server.
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	31	Specify a list of Simple Network Time Protocol (SNTP) servers available to the

Parameters	DHCPv6 Option	Description
		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.IIdp.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	
Phone UI	Color Screen Phones:	

	Menu > Advanced (default password: admin) > Network > LLDP > LLDP Status			
	Black-and-white Screen Phones:			
	Menu > Settings > Advanced Settings (default password: admin) > Network > LLDP > LLDP Status			
Parameter	static.network.lldp.packet_interval ^[1] <y00000000xx>.cfg</y00000000xx>			
Description	It configures the interval (in seconds) that how ofter	the phone sends the LLDP request.		
Description	Note: It works only if "static.network.lldp.enable" is a	set to 1 (Enabled).		
Permitted Values	Integer from 1 to 3600			
Default	60			
Web UI	Network > Advanced > LLDP > Packet Interval (1~3600s)			
	Color Screen Phones:			
Phone UI	lenu > Advanced (default password: admin) > Network > LLDP > Packet Interval			
	Black-and-white Screen Phones:			
	Menu > Settings > Advanced Settings (default password: admin) > Network > LLDP > Packet Interval			

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 VLA	N ID through CDP.
Default	1	
Web UI	Network > Advanced > CDP > Active	
Phone UI	Color Screen Phones: Menu > Advanced (default password: admin) > Network > CDP > CDP Status Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > CDP > CDP Status	
Parameter	static.network.cdp.packet_interval ^[1] <y000000000xx>.cfg</y000000000xx>	
Description	It configures the interval (in seconds) that how often the phone sends the CDP request. Note: It works only if "static.network.cdp.enable" is set to 1 (Enabled).	
Permitted Values	Integer from 1 to 3600	
Default	60	

Web UI	Network > Advanced > CDP > Packet Interval (1~3600s)	
	Color Screen Phones:	
Phone UI	Menu > Advanced (default password: admin) > Network > CDP > CDP Interval	
	Black-and-white Screen Phones:	
	Menu > Settings > Advanced Settings (default password: admin) > Network > CDP > CDP Interval	

Manual VLAN Configuration

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

For CP920 phones, you can only configure VLAN for the Internet port manually, because they only have an Internet port.

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

Parameter	static.network.vlan.internet_port_enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the VLAN for the Internet port.		
	0-Disabled 1-Enabled		
Default	0		
Web UI	Network > Advanced > VLAN > WAN Port > Active		
	Color Screen Phones: Menu > Advanced (default password: admin) > Network > VLAN > WAN Port > VLAN Status		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > VLAN > WAN Port > VLAN Status		
Parameter	static.network.vlan.internet_port_vid ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the VLAN ID for the Internet port. 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)		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > VLAN > WAN Port > VID Number		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > VLAN > WAN Port > VID Number		
Parameter	static.network.vlan.internet_port_priority ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the VLAN priority for the Internet port.		
Description	7 is the highest priority, 0 is the lowest priority.		

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	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		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Netw	vork > VLAN > WAN Port > Priority	
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default passv ority	word: admin) > Network > VLAN > WAN Port > Pri-	
Parameter	static.network.vlan.pc_port_enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the VLAN for the PC port.		
Description	Note: It works only if "static.network.pc_port.enable"	is set to 1 (Auto Negotiation).	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Supported Devices	All phones except CP920		
Web UI	Network > Advanced > VLAN > PC Port > Active		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > VLAN > PC Port > VLAN Status		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > VLAN > PC Port > VLAN Status		
Parameter	static.network.vlan.pc_port_vid ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the VLAN ID for the PC port.		
Description	Note: It works only if "static.network.pc_port.enable" is set to 1 (Auto Negotiation) and "stat- ic.network.vlan.pc_port_enable" is set to 1 (Enabled).		
Permitted Values	Integer from 1 to 4094		
Default	1		
Supported Devices	All phones except CP920		
Web UI	Network > Advanced > VLAN > PC Port > VID (1-40)	94)	
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > VLAN > PC Port > VID Number		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > VLAN > PC Port > VID Number		
Parameter	static.network.vlan.pc_port_priority ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the VLAN priority for the PC port.		

	7 is the highest priority, 0 is the lowest priority.	
	Note : It works only if "static.network.pc_port.enable" is set to 1 (Auto Negotiation) and "stat- ic.network.vlan.pc_port_enable" is set to 1 (Enabled).	
Permitted Values	Integer from 0 to 7	
Default	0	
Supported Devices	All phones except CP920	
Web UI	Network > Advanced > VLAN > PC Port > Priority	
Phone UI	Color Screen Phones: Menu > Advanced (default password: admin) > Network > VLAN > PC Port > Priority Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Network > VLAN > PC Port > Pri- ority	

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

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.	
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Network > Advanced > VLAN > DHCP VLAN > Active	
	Color Screen Phones:	
	Menu > Advanced (default password: admin) > Network > VLAN > DHCP VLAN > DHCP VLAN	
Phone UI	Black-and-white Screen Phones:	
	Menu > Settings > Advanced Settings (default password: admin) > Network > VLAN > DHCP VLAN > DHCP VLAN	
Parameter	static.network.vlan.dhcp_option ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the DHCP option from which the phone will obtain the VLAN settings.	
Description	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)	
Dhana III	Color Screen Phones:	
Phone UI	Menu > Advanced (default password: admin) > Net	work > VLAN > DHCP VLAN > Option

Black-and-white Screen Phones:
Menu > Settings > Advanced Settings (default password: admin) > Network > VLAN > DHCP VLAN > Option

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 using lower preference of VLAN assignment method, or to close the VLAN feature when the phone cannot obtain VLAN ID.		
	The priority of each method is LLDP/CDP > Manual > 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.

Wi-Fi

Wi-Fi feature enables you to connect the phones to the organization's wireless network. Wi-Fi feature is only applicable to T57W/T54W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T42U/T42S/T41S/T29G/T27G/CP920 phones.

You can configure the phones to operate in IPv4, IPv6, or dual-stack (IPv4/IPv6) mode, and configure IPv4 or IPv6 wireless network settings manually.

Note: To use Wi-Fi feature on T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T42U/T42S/T41S/T29G/T27G phones, make sure the Wi-Fi USB dongle is properly connected to the USB port on the back of the phone.

Topics

Wi-Fi Configuration Wireless Network IP Addressing Mode Configuration IPv4 Wireless Network Configuration IPv6 Wireless Network Configuration

Wi-Fi Configuration

The following table lists the parameters you can use to configure Wi-Fi.

Parameter	static.wifi.function.enable ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the Wi-Fi feature.	
Permitted	0-Disabled	
Values	1-Enabled	
Default	1	
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46L T27G, CP920	J, T46S, T46G, T43U, T42U, T42S, T41S, T29G,
Parameter	static.network.redundancy.mode ^[1]	<y000000000xx>.cfg</y000000000xx>

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-	It configures the network connection mode to be used preferentially.		
	0 -If Wi-Fi mode is activated, the wired network is unavailable; Wi-Fi mode must be deactivated if you want to use the wired network.		
Permitted			
Values	1-Use wireless network preferentially.		
	2-Use wired network preferentially.		
	2		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46L T27G, CP920	J, T46S, T46G, T43U, T42U, T42S, T41S, T29G,	
Parameter	static.network.redundancy.failback.timeout[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the time to wait (minutes) for the phone to switch to the preferentially used network.		
Description	Note: It works only if "static.network.redundancy.mo	ode" is set to 1 or 2.	
	Integer from 0 to 1440		
Permitted	0 -The phone will not switch as long as the current r	network is available.	
Values	1 to 1440 –The phone will keep using the current network for the specified time after the preferentially used network becomes available. If the preferentially used network is still available after the specified time, the phone performs a network switch while the phone is not in use.		
Default	55		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46L T27G, CP920	J, T46S, T46G, T43U, T42U, T42S, T41S, T29G,	
Parameter	static.wifi.enable	<y000000000xx>.cfg</y000000000xx>	
Decerintion	It activates or deactivates the Wi-Fi mode.		
Description	Note: It works only if "static.wifi.function.enable" is s	set to 1 (Enabled).	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Supported		J. T46S. T46G. T43U. T42U. T42S. T41S. T29G.	
Devices	T27G, CP920	, , , , , , , , , , , , .	
Web UI	Network > Wi-Fi > Wi-Fi Active		
	Color Screen Phones:		
	Menu > Basic > Wi-Fi > Wi-Fi		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Wi-Fi		
Parameter	static.wifi.X.ssid ^[2]	<y000000000xx>.cfg</y000000000xx>	
	It configures the SSID of a specific wireless network	۲.	
Description	SSID is a unique identifier for accessing wireless a	ccess points.	
	Note: It works only if "static.wifi.enable" is set to 1 (E	Enabled).	
	ASCII code from 1 to 31 in length		
Permitted Values	•		
Values	•		

Web UI	Network > Wi-Fi > Add >SSID		
	Color Screen Phones:		
	Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network (press Add) > SSID		
	Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network > Option > Edit > SSID		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Wi-Fi (On) > Known Network (press Add) > SSID		
	Menu > Settings > Basic Settings > Wi-Fi > Wi-Fi (On) > Known Network > Option > Edit > SSID		
Parameter	static.wifi.X.priority ^[2]	<y000000000xx>.cfg</y000000000xx>	
	It configures the priority for a specific wireless network.		
Description	5 is the highest priority, 1 is the lowest priority.		
	Note : It works only if "static.wifi.enable" is set to 1 (Enabled).		
Permitted Values	Integer from 1 to 5		
Default	1		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, T27G, CP920		
Web UI	Network > Wi-Fi > Change Priority		
	Color Screen Phones:		
	Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network > Option > Move Up/Move Down		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Wi-Fi > Wi-Fi (C Down	On) > Known Network > Option > Move Up/Move	
Parameter	static.wifi.X.security_mode ^[2] <y00000000xx>.cfg</y00000000xx>		
	It configures the security mode of a specific wireless network.		
Description	It configures the security mode of a specific wireles Note : It works only if "static.wifi.enable" is set to 1 (tificate can be uploaded by the parameter "static.ne	s network. Enabled). If it is set to 802.1x EAP, the CA cer- etwork.802_1x.root_cert_url", the user certificate	
Description Permitted Values	It configures the security mode of a specific wireles Note : It works only if "static.wifi.enable" is set to 1 (s network. Enabled). If it is set to 802.1x EAP, the CA cer- etwork.802_1x.root_cert_url", the user certificate	
Permitted	It configures the security mode of a specific wireles Note : It works only if "static.wifi.enable" is set to 1 (tificate can be uploaded by the parameter "static.ne can be uploaded by the parameter "static.network.	s network. Enabled). If it is set to 802.1x EAP, the CA cer- etwork.802_1x.root_cert_url", the user certificate	
Permitted Values	It configures the security mode of a specific wireles Note : It works only if "static.wifi.enable" is set to 1 (tificate can be uploaded by the parameter "static.ne can be uploaded by the parameter "static.network. NONE, WEP, WPA/WPA2 PSK, 802.1x EAP	s network. Enabled). If it is set to 802.1x EAP, the CA cer- etwork.802_1x.root_cert_url", the user certificate 802_1x.client_cert_url".	
Permitted Values Default Supported	It configures the security mode of a specific wireles Note : It works only if "static.wifi.enable" is set to 1 (tificate can be uploaded by the parameter "static.net can be uploaded by the parameter "static.network. NONE, WEP, WPA/WPA2 PSK, 802.1x EAP NONE T57W, T54W, T53W, T53, T48U, T48S, T48G, T460	s network. Enabled). If it is set to 802.1x EAP, the CA cer- etwork.802_1x.root_cert_url", the user certificate 802_1x.client_cert_url".	
Permitted Values Default Supported Devices	It configures the security mode of a specific wireles Note : It works only if "static.wifi.enable" is set to 1 (tificate can be uploaded by the parameter "static.network. an be uploaded by the parameter "static.network. NONE, WEP, WPA/WPA2 PSK, 802.1x EAP NONE T57W, T54W, T53W, T53, T48U, T48S, T48G, T460 T27G, CP920	s network. Enabled). If it is set to 802.1x EAP, the CA cer- etwork.802_1x.root_cert_url", the user certificate 802_1x.client_cert_url".	
Permitted Values Default Supported Devices	It configures the security mode of a specific wireles Note : It works only if "static.wifi.enable" is set to 1 (tificate can be uploaded by the parameter "static.network. can be uploaded by the parameter "static.network. NONE, WEP, WPA/WPA2 PSK, 802.1x EAP NONE T57W, T54W, T53W, T53, T48U, T48S, T48G, T460 T27G, CP920 Network > Wi-Fi > Add >Secure Mode	I to solve the set to a solve th	
Permitted Values Default Supported Devices	It configures the security mode of a specific wireles Note : It works only if "static.wifi.enable" is set to 1 (tificate can be uploaded by the parameter "static.network. can be uploaded by the parameter "static.network. NONE, WEP, WPA/WPA2 PSK, 802.1x EAP NONE T57W, T54W, T53W, T53, T48U, T48S, T48G, T460 T27G, CP920 Network > Wi-Fi > Add >Secure Mode <u>Color Screen Phones:</u>	rk (press Add) > Security Mode	
Permitted Values Default Supported Devices	It configures the security mode of a specific wireles Note : It works only if "static.wifi.enable" is set to 1 (tificate can be uploaded by the parameter "static.network. none, wep, wpa/wpa2 pSK, 802.1x EAP NONE T57W, T54W, T53W, T53, T48U, T48S, T48G, T460 T27G, CP920 Network > Wi-Fi > Add >Secure Mode <u>Color Screen Phones:</u> Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Netwo	rk (press Add) > Security Mode	
Permitted Values Default Supported Devices Web UI	It configures the security mode of a specific wireles Note : It works only if "static.wifi.enable" is set to 1 (tificate can be uploaded by the parameter "static.net can be uploaded by the parameter "static.network. NONE, WEP, WPA/WPA2 PSK, 802.1x EAP NONE T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U T27G, CP920 Network > Wi-Fi > Add >Secure Mode <u>Color Screen Phones:</u> Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Netwo Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Netwo	rk (press Add) > Security Mode	
Permitted Values Default Supported Devices Web UI	It configures the security mode of a specific wireles Note : It works only if "static.wifi.enable" is set to 1 (tificate can be uploaded by the parameter "static.network. an be uploaded by the parameter "static.network. NONE, WEP, WPA/WPA2 PSK, 802.1x EAP NONE T57W, T54W, T53W, T53, T48U, T48S, T48G, T460 T27G, CP920 Network > Wi-Fi > Add >Secure Mode Color Screen Phones: Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Netwo Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Netwo Black-and-white Screen Phones:	s network. Enabled). If it is set to 802.1x EAP, the CA cer- etwork.802_1x.root_cert_url", the user certificate 802_1x.client_cert_url". J, T46S, T46G, T43U, T42U, T42S, T41S, T29G, rk (press Add) > Security Mode rk > Option > Edit > Security Mode	

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Note: It works only if "static.wifi.enable" is set to 1 (Enab	led).	
String within 64 characters		
Blank		
T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T40 T27G, CP920	6S, T46G, T43U, T42U, T42S, T41S, T29G,	
Network > Wi-Fi > Add > Password		
Color Screen Phones:		
Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network (press Add) > Password		
Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network > Option > Edit > Password		
Black-and-white Screen Phones:		
Menu > Settings > Basic Settings > Wi-Fi (On) > Known	Network (press Add) > Password	
Menu > Settings > Basic Settings > Wi-Fi > Wi-Fi (On) >	Known Network > Option > Edit > Password	
static.wifi.X.eap_type ^[2] <y00< th=""><th>00000000xx>.cfg</th></y00<>	00000000xx>.cfg	
It configures the EAP authentication mode of a specific v	wireless network.	
Note: It works only if "static.wifi.enable" is set to 1 (Enab 802.1x EAP.	Note: It works only if "static.wifi.enable" is set to 1 (Enabled) and "static.wifi.X.security_mode" is set to	
Auto, PEAP, TLS, TTLS or PWD		
Auto		
T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T40 T27G, CP920	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, T27G, CP920	
Network > Wi-Fi > Add > EAP Method		
static.wifi.X.eap_user_name ^[2] <y00< th=""><th>00000000xx>.cfg</th></y00<>	00000000xx>.cfg	
It configures the EAP authentication username of a spec	cific wireless network.	
Note: It works only if "static.wifi.enable" is set to 1 (Enabled) and "static.wifi.X.security_mode" is set to 802.1x EAP.		
ASCII code from 1 to 32 in length		
Blank		
T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T40 T27G, CP920	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, T27G, CP920	
Network > Wi-Fi > Add > Identity		
Color Screen Phones:		
Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network (pr	ress Add) > User Name	
Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network > C	Dption > Edit > User Name	
Black-and-white Screen Phones:		
Menu > Settings > Basic Settings > Wi-Fi > Wi-Fi (On) >	Known Network (press Add) > User Name	
5 5 ()		
	Note: It works only if "static.wifi.enable" is set to 1 (Enab String within 64 characters Blank T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T44 T27G, CP920 Network > Wi-Fi > Add > Password Color Screen Phones: Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network (pr Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network > O Black-and-white Screen Phones: Menu > Settings > Basic Settings > Wi-Fi (On) > Known Menu > Settings > Basic Settings > Wi-Fi (On) > Known Menu > Settings > Basic Settings > Wi-Fi (On) > Known Menu > Settings > Basic Settings > Wi-Fi (On) > Known Menu > Settings > Basic Settings > Wi-Fi (On) > Known Menu > Settings > Basic Settings > Wi-Fi (On) > Known Menu > Settings > Basic Settings > Wi-Fi (On) > Known Menu > Settings > Basic Settings > Wi-Fi (On) > Known Menu > Settings > Basic Settings > Wi-Fi (On) > Known Note: It works only if "static.wifi.enable" is set to 1 (Enab 802.1x EAP. Auto T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T44 T27G, CP920 Network > Wi-Fi > Add > EAP Method static.wifi.X.eap_user_name ^[2] voft t configures the EAP authentication username	

Parameter	static.wifi.X.802_1x.anonymous_identity ^[2]	<y000000000xx>.cfg</y000000000xx>
	It configures the anonymous identity (user name) for Wi-Fi 802.1X authentication.	
Description	Note : It works only if "static.wifi.enable" is set to 1 (Enabled) and "static.wifi.X.security_mode" is set to 802.1x EAP .	
Permitted Values	String within 255 characters	
Default	Blank	
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920	
Web UI	Network > Wi-Fi > Add > Anonymous Identity	
Phone UI	Color Screen Phones: Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network (press Add) > Anonymous Identity Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network > Option > Edit > Anonymous Identity Black-and-white Screen Phones: Menu > Settings > Basic Settings > Wi-Fi > Wi-Fi (On) > Known Network (press Add) > Anonymous Identity Identity Menu > Settings > Basic Settings > Wi-Fi > Wi-Fi (On) > Known Network (press Add) > Anonymous Identity Identity Menu > Settings > Basic Settings > Wi-Fi > Wi-Fi (On) > Known Network > Option > Edit > Anonymous Identity	
Parameter	static.wifi.X.eap_password ^[2]	<y000000000xx>.cfg</y000000000xx>
Permitted	It configures the EAP authentication password of a specific wireless network. Note: It works only if "static.wifi.enable" is set to 1 (Enabled) and "static.wifi.X.security_mode" is set to 802.1x EAP.	
Values	String within 64 characters	
	Blank	
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, T27G, CP920	
Web UI	Network > Wi-Fi > Add > Password	
	Color Screen Phones:	
	Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network (press Add) > Password	
Phone UI	Menu > Basic > Wi-Fi > Wi-Fi (On) > Known Network > Option > Edit > Password	
	Black-and-white Screen Phones:	
	Menu > Settings > Basic Settings > Wi-Fi > Wi-Fi (C	on) > Known Network (press Add) > Password
	Menu > Settings > Basic Settings > Wi-Fi > Wi-Fi (C	on) > Known Network > Option > Edit > Password
Parameter	static.wifi.show_scan_prompt	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to prompt you whe dongle to the IP phone.	ether to scan Wi-Fi after connecting Wi-Fi USB
Permitted Values	0-Disabled, the phone will enable the Wi-Fi feature (according to the priority) automatically. But if the p work, the phone will still display the Wi-Fi scanning 1-Enabled	hone fails to connect to any known wireless net-

Default	1
Supported	T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, T27G
Devices	153, 1460, 1465, 1466, 1460, 1465, 1466, 1430, 1420, 1425, 1415, 1296, 1276

^[2]X is Wi-Fi ID. X=1-5.

Wireless Network IP Addressing Mode Configuration

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

Parameter	static.network.wifi.ip_address_mode ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the IP addressing mode for the wireless network.		
	0-IPv4		
Permitted Values	1-IPv6		
	2-IPv4 & IPv6		
Default	0		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920		
Web UI	Network > Wi-Fi > Internet Port > Mode (IPv4/IPv6)		
	Color Screen Phones:		
Phone UI	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IP Mode		
	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default pass	word: admin) > Network > Wi-Fi Port > IP Mode	
Parameter	static.network.wifi.preference ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It specifies IPv4 or IPv6 as the preferred wireless no	etwork in a Dual-Stack mode.	
	Note: It works only if "static.network.wifi.ip_address_mode" is set to 2 (IPv4 & IPv6).		
Permitted	0 -IPv6		
Values	1-IPv4		
Default	0		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920		
Web UI	Network > Wi-Fi > Internet Port > Preference(IPv4/IPv6)		
	Color Screen Phones:		
Phone UI	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > Preference		
	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default pass	word: admin) > Network > Wi-Fi Port > Preference	

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

IPv4 Wireless Network Configuration

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

Parameter	static.network.wifi.internet_port.type ^[1]	<y000000000xx>.cfg</y000000000xx>
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	It configures the Internet port type for IPv4 wireless network.	
Description		
De une itte d	Note: It works only if "static.network.wifi.ip_address_mode" is set to 0 (IPv4) or 2 (IPv4 & IPv6). 0-DHCP	
Permitted Values		
	2-Static IP	
Default Currente d	0	
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920	
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:	
Web UI	Network > Wi-Fi > IPv4 Config > Configuration Type	
Web OI	Other Phones:	
	Network > Wi-Fi > IPv4 Config	
	Color Screen Phones:	
	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv4	
Phone UI	Black-and-white Screen Phones:	
	Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv4	
Parameter	static.network.wifi.internet_port.ip ^[1]	
	It configures the IPv4 address for the wireless network.	
Description	I Note: It works only if "static.network.wifi.internet_port.type" is set to 2 (Static IP).	
Permitted Values	IPv4 Address	
Default	Blank	
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920	
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:	
	Network > Wi-Fi > IPv4 Config > Configuration Type (Static IP) > IP Address	
Web UI	Other Phones:	
	Network > Wi-Fi > IPv4 Config > Static IP Address > IP Address	
	Color Screen Phones:	
	 Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv4 > Static IP > IP Address	
Phone UI	Black-and-white Screen Phones:	
Parameter	static.network.wifi.internet_port.mask ^[1] <y000000000xx>.cfg</y000000000xx>	
	It configures the IPv4 subnet mask for the wireless network.	
Description		
Permitted Values	IPv4 Address	
Default	Blank	
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920	
Web UI	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:	
	1	

r			
	Network > Wi-Fi > IPv4 Config > Configuration Type (Static IP) > Subnet Mask		
	Other Phones:		
	Network > Wi-Fi > IPv4 Config > Static IP Address > Subnet Mask		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv4 > Static IP > Subnet Mask		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv4 > Static IPv4 Client > Subnet Mask		
Parameter	static.network.wifi.internet_port.gateway ^[1] <y000000000xx>.cfg</y000000000xx>		
	It configures the IPv4 default gateway for the wireless network.		
Description	Note: It works only if "static.network.wifi.internet_port.type" is set to 2 (Static IP).		
Permitted Values	IPv4 Address		
Default	Blank		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
	Network > Wi-Fi > IPv4 Config > Configuration Type (Static IP) > Default Gateway		
Web UI	Other Phones:		
	Network > Wi-Fi > IPv4 Config > Static IP Address > Default Gateway		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv4 > Static IP > Default Gate- way		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv4 > Static IPv4 Client > Default Gateway		
Parameter	static.network.wifi.static_dns_enable ^[1] <y000000000xx>.cfg</y000000000xx>		
	It triggers the static DNS feature to on or off for the wireless network.		
Description	Note : It works only if "static.network.wifi.internet_port.type" is set to 0 (DHCP).		
Permitted	0 -Off, the phone will use the IPv4 DNS obtained from DHCP.		
Values	1-On, the phone will use manually configured static IPv4 DNS.		
Default	0		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920		
Web UI	Network > Wi-Fi > IPv4 Config > Static DNS		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv4 > Type(DHCP) > Static DNS		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv4 > DHCP IPv4 Client > Static DNS		

D	statio notvostovići primora, star[1]	
Parameter	static.network.wifi.primary_dns ^[1]	<y000000000xx>.cfg</y000000000xx>
	It configures the primary IPv4 DNS server for the wi	
Description	Note: It works only if "static.network.wifi.ip_address_mode" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In DHCP environment, you also need to make sure "static.network.wifi.static_dns_enable" is set to 1 (On).	
Permitted Values	IPv4 Address	
Default	Blank	
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920	
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:	
Web UI	Network > Wi-Fi > IPv4 Config > Static DNS > Prima	ary DNS
Web OI	Other Phones:	
	Network > Wi-Fi > IPv4 Config > Static IP Address >	Primary DNS
	Color Screen Phones:	
	Menu > Advanced (default password: admin) > Net	work > Wi-Fi Port > IPv4 > Static IP > Pri.DNS
	In DHCP environment:	
	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv4 > DHCP > Static DNS (Enabled) > Pri.DNS	
Phone UI	Black-and-white Screen Phones:	
	Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv4 > Static IPv4 Client > Pri.DNS	
	In DHCP environment:	
	Menu > Settings > Advanced Settings (default pass DHCP IPv4 Client > Static DNS (Enabled) > Pri.DN	
Parameter	static.network.wifi.secondary_dns ^[1]	<y000000000xx>.cfg</y000000000xx>
	It configures the secondary IPv4 DNS server for the	wireless network.
Description	Note: It works only if "static.network.wifi.ip_address_mode" is set to 0 (IPv4) or 2 (IPv4 & IPv6). In DHCP environment, you also need to make sure "static.network.wifi.static_dns_enable" is set to 1 (On).	
Permitted Values	IPv4 Address	
Default	Blank	
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S	5, T43U, T42U, T42S, T41S, T27G, CP920
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:	
Web 11	Network > Wi-Fi > IPv4 Config > Static DNS > Secondary DNS	
Web UI	Other Phones:	
	Network > Wi-Fi > IPv4 Config > Static IP Address >	Secondary DNS
	Color Screen Phones:	
Phone UI	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv4 > Static IP > Sec.I	
	In DHCP environment:	

Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv4 > DHCP > Static DNS (Enabled) > Sec.DNS
Black-and-white Screen Phones:
Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv4 > Static IPv4 Client > Sec.DNS
In DHCP environment:
Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv4 > DHCP IPv4 Client > Static DNS (Enabled) > Sec.DNS

IPv6 Wireless Network Configuration

If you configure the network settings on the phone for an IPv6 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 wireless network.

Parameter	static.network.wifi.ipv6_internet_port.type ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the Internet port type for IPv6 wireless network. Note: It works only if "static.network.wifi.ip_address_mode" is set to 1 (IPv6) or 2 (IPv4 & IPv6).		
Description			
Permitted	0-DHCP		
Values	1-Static IP		
Default	0		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Network > Wi-Fi > IPv6 Config > Configuration Type		
Web OI	Other Phones:		
	Network > Wi-Fi > IPv6 Config		
	Color Screen Phones:		
Phone UI	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv6		
Filone of	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv6		
Parameter	static.network.wifi.ipv6_internet_port.ip ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the IPv6 address for the wireless network.		
Description	Note: It works only if "static.network.wifi.ipv6_intern	et_port.type" is set to 1 (Static IP).	
Permitted Values	IPv6 Address		
Default	Blank		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920		

r i			
·	<u>T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:</u>		
Web UI	Network > Wi-Fi > IPv6 Config > Configuration Type (Static IP) > IP Address		
	Other Phones:		
	Network > Wi-Fi > IPv6 Config > Static IP Address > IP Address		
ľ	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network >	• Wi-Fi Port > IPv6 > Static IP > IP Address	
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: Static IPv6 Client > IP Address	admin) > Network > Wi-Fi Port > IPv6 >	
Parameter	static.network.wifi.ipv6_prefix ^[1] <y000< th=""><th>0000000xx>.cfg</th></y000<>	0000000xx>.cfg	
Decerintian	It configures the IPv6 prefix for the wireless network.		
Description	Note: It works only if "static.network.wifi.ipv6_internet_poi	t.type" is set to 1 (Static IP).	
Permitted Values	Integer from 1 to 128		
Default	64		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
W/a h. 1.11	Network > Wi-Fi > IPv6 Config > Configuration Type (Static IP) > IPv6 Prefix(0~128)		
Web UI	Other Phones:		
	Network > Wi-Fi > IPv6 Config > Static IP Address > IPv6 Prefix(0~128)		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv6 > Static IP > IPv6 IP Prefix		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv6 > Static IPv6 Client > IPv6 IP Prefix		
Parameter	static.network.wifi.ipv6_internet_port.gateway ^[1] <y000< th=""><th>0000000xx>.cfg</th></y000<>	0000000xx>.cfg	
	It configures the IPv6 default gateway for the wireless net	work.	
Description	n Note: It works only if "static.network.wifi.ipv6_internet_por	t.type" is set to 1 (Static IP).	
Permitted Values	IPv6 Address		
Default	Blank		
Supported . Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
W/a h. 1.11	Network > Wi-Fi > IPv6 Config > Configuration Type (Static IP) > Default Gateway		
Web UI	Other Phones:		
	Network > Wi-Fi > IPv6 Config > Static IP Address > Default Gateway		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv6 > Static IP > Default Gate way		

E	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv6 > Static IPv6 Client > Default Gateway		
Parameter s	static.network.wifi.ipv6_static_dns_enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It triggers the static IPv6 DNS feature to on or off for the wireless network.		
Description	Note: It works only if "static.network.wifi.ipv6_internet_port.type" is set to 0 (DHCP).		
Permitted ⁰	0-Off, the phone will use the IPv6 DNS obtained fro	m DHCP.	
Values 1	1-On, the phone will use manually configured static	Pv6 DNS.	
Default 0	0		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S	S, T43U, T42U, T42S, T41S, T27G, CP920	
Web UI	Network > Wi-Fi > IPv6 Config > Static IPv6 DNS		
<u>_</u>	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Net DNS	work > Wi-Fi Port > IPv6 > Type(DHCP) > Static	
	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default pass DHCP IPv6 Client > Static DNS	word: admin) > Network > Wi-Fi Port > IPv6 >	
Parameter s	static.network.wifi.ipv6_primary_dns ^[1]	<y000000000xx>.cfg</y000000000xx>	
1	It configures the primary IPv6 DNS server for the wi	reless network.	
	Note: It works only if "static.network.wifi.ip_address_mode" is set to 1 (IPv6) or 2 (IPv4 & IPv6). In DHCP environment, you also need to make sure "static.network.wifi.ipv6_static_dns_enable" is set to 1 (On).		
Permitted Values	IPv6 Address		
Default E	Blank		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S	S, T43U, T42U, T42S, T41S, T27G, CP920	
Ī	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Neb UI	Network > Wi-Fi > IPv6 Config > Static IPv6 DNS > Primary DNS		
	Other Phones:		
٦	Network > Wi-Fi > IPv6 Config > Static IP Address > Primary DNS		
<u>c</u>	Color Screen Phones:		
Ν	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv6 > Static IP > Pri.DNS		
lr	In DHCP environment:		
N			
(Menu > Advanced (default password: admin) > Net (Enabled) > Pri.DNS	work > Wi-Fi Port > IPv6 > DHCP > Static DNS	
(Phone UI		work > Wi-Fi Port > IPv6 > DHCP > Static DNS	
Phone UI	(Enabled) > Pri.DNS		
Phone UI	(Enabled) > Pri.DNS <u>Black-and-white Screen Phones:</u> Menu > Settings > Advanced Settings (default pass		

	DHCP IPv6 Client > Static DNS(Enabled) > Pri.DNS	
Parameter	static.network.wifi.ipv6_secondary_dns ^[1] <y000000000xx>.cfg</y000000000xx>	
	It configures the secondary IPv6 DNS server for the wireless network.	
Description	Note : It works only if "static.network.wifi.ip_address_mode" is set to 1 (IPv6) or 2 (IPv4 & IPv6). In DHCP environment, you also need to make sure "static.network.wifi.ipv6_static_dns_enable" is set to 1 (On).	
Permitted Values	IPv6 Address	
Default	Blank	
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920	
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:	
Web UI	Network > Wi-Fi > IPv6 Config > Static IPv6 DNS > Secondary DNS	
WED OI	Other Phones:	
	Network > Wi-Fi > IPv6 Config > Static IP Address > Secondary DNS	
	Color Screen Phones:	
	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv6 > Static IP > Sec.DNS	
	In DHCP environment:	
	Menu > Advanced (default password: admin) > Network > Wi-Fi Port > IPv6 > DHCP > Static DNS (Enabled) > Sec.DNS	
Phone UI	Black-and-white Screen Phones:	
	Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv6 > Static IPv6 Client > Sec.DNS	
	In DHCP environment:	
	Menu > Settings > Advanced Settings (default password: admin) > Network > Wi-Fi Port > IPv6 > DHCP IPv6 Client > Static DNS(Enabled) > Sec.DNS	
Parameter	static.network.wifi.ipv6_icmp_v6.enable ^[1] <y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to obtain IPv6 wireless network settings via SLAAC (Stateless Address Autoconfiguration).	
	Note: It works only if "static.network.wifi.ipv6_internet_port.type" is set to 0 (DHCP).	
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U	
Web UI	Network > Advanced > Wi-Fi ICMPv6 Status > Active	

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)	
Parameter	static.network.port.max_rtpport ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	n 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 (1024~65535)	
Parameter	features.rtp_symmetric.enable	<y000000000xx>.cfg</y000000000xx>
Description	It configures the symmetrical RTP feature.	
	0-Disabled	
Permitted 1-reject RTP packets arriving from a non-negotiated IP address		
Values	 Values 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	

^[1]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 speci	ic account.	
Description	Note: If it is set to 1 (STUN), it works only if "static.sip.nat_stun.enable" is set to 1 (Enabled); if it is set to 2 (Manual NAT), it works only if "static.network.static_nat.enable" is set to 1 (Enabled).		
	0-Disabled		
Permitted Values 1-STUN			
	2-Manual NAT		
Default	0		
Web UI	Account > Register > NAT		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Acc	counts > Account X > NAT Status	
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default pass	word: admin) > Accounts > AccountX > NAT Status	
	Note: Manual NAT cannot be configured via the ph	one user interface.	
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.enab	le" 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.	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
	1		

Web UI	Network > NAT > STUN > Active		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > NAT > NAT Status		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > NAT > NAT Statu		
Parameter	static.sip.nat_stun.server	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the IP address or domain name of the	STUN server.	
	Note: It works only if "static.sip.nat_stun.enable" is	set to 1 (Enabled).	
Permitted Values	String		
Default	Blank		
Web UI	Network > NAT > STUN > STUN Server		
	Color Screen Phones:		
Phone UI	Menu > Advanced (default password: admin) > Network > NAT > STUN Server		
	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > NAT > STUN Server		
Parameter	static.sip.nat_stun.port	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the port of the STUN server.		
-	Note: It works only if "static.sip.nat_stun.enable" is	set to 1 (Enabled).	
Permitted Values	Integer from 1024 to 65535		
Default	3478		
Web UI	Network > NAT > STUN > STUN Port (1024~65535	;)	
	Color Screen Phones:		
Phone UI	Menu > Advanced (default password: admin) > Network > NAT > STUN Port		
Filone of	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default pass	word: admin) > Network > NAT > STUN Port	
Parameter	static.ice.enable ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the ICE (Interactive Connectivity 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 F	Relays around NAT) feature.	
	0-Disabled		
Values	1-Enabled		

Default	0	
Web UI	Network > NAT > TURN > Active	
Parameter	static.sip.nat_turn.server ^[2]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the IP address or the domain name of	
	Note: It works only if "static.sip.nat_turn.enable" is s	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>
.	It configures the port of the TURN server.	
Description	Note: It works only if "static.sip.nat_turn.enable" is s	set to 1 (Enabled).
Permitted Values	Integer from 1024 to 65535	
Default	3478	
Web UI	Network > NAT > TURN > TURN Port (1024~65535	5)
Parameter	static.sip.nat_turn.username ^[2] <y00000000xx>.cfg</y00000000xx>	
D	It configures the user name to authenticate to the TURN server.	
Description	n	
Permitted Values	String	
Default	Blank	
Web UI	Network > NAT > TURN > User Name (Username)	
Parameter	static.sip.nat_turn.password ^[2] <y00000000xx>.cfg</y00000000xx>	
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. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

^[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.	
	0-Disabled	
Permitted	1-Default (the phone sends the corresponding packets according to the transport protocol)	
Values	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>	
Description	It configures the interval (in seconds) at which the phone sends a keep-alive package.	
	Note: It works only if "account.X.nat.udp_update_e	nable" 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. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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 Values	 0-Disabled 1-Enabled, the INVITE Contact header uses the port in the "rport" parameter but does not use the 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 and uses 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. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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.	
Description	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 <y00000000xx>.cfg</y00000000xx>	
Description	It specifies the local TLS listen port.	
	If it is set to 0, the phone will not listen to the TLS servio	ce.
Permitted Values	0, Integer from 1024 to 65535	
Default	5061	
Web UI	Settings > SIP > TLS SIP Port	

Internet Port and PC Port

Yealink phones support two Ethernet ports: Internet port and PC port. You can enable or disable the PC port on the phones. The CP920 phones have Internet port only.

Topics

Supported Transmission Methods Internet Port and PC Port Configuration

Supported Transmission Methods

Three optional methods of transmission configuration for the IP phone Internet port and PC port:

- Auto-negotiate
- Half-duplex (transmit in 10Mbps or 100Mbps)
- Full-duplex (transmit in 10Mbps, 100Mbps or 1000Mbps (1000Mbps is only applicable to T57W/T53W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T42U/T42G/T42S/T40G/T33G/T31G/T29G/T2-7G/T23G/CP920 phones))

Auto-negotiate is configured for both Internet and PC ports on the IP phone by default.

Internet Port and PC Port Configuration

The following table lists the parameters you can use to configure the Internet port and PC port.

Para- meter	static.network.pc_port.enable ^[1]	<y000000000xx>.cfg</y000000000xx>
Descrip- tion	It enables or disables the PC port.	
Per- mitted	0-Disabled	
	1-Auto Negotiation	

Default	1		
Sup- ported Devices	All phones except CP920		
Web UI	Network > PC Port > PC Port Active		
Para- meter	static.network.internet_port.speed_duplex ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the network speed over Ethernet of the Internet port.		
Descrip- tion	Note: For T57W/T54W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T42U/T42G/T42S/T40G/T33G/T31G/T- 29G/T27G/T23G/CP920 phones, you can set the transmission speed to 1000Mbps/Auto Negotiation to transmit in 1000Mbps if the phone is connected to the switch supports Gigabit Ethernet. We recommend that you do not change this parameter.		
	0-Auto Negotiation		
	1-Full Duplex 10Mbps		
Per-	2-Full Duplex 100Mbps		
	3-Half Duplex 10Mbps		
Values	4-Half Duplex 100Mbps		
	5-Full Duplex 1000Mbps (only applicable to T57W/T54W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T42U/T42G/T42S/T40G/T33G/T31G/T- 29G/T27G/T23G/CP920 phones)		
Default	0		
Web UI	Network > Advanced > Port Link > WAN Port Link		
Para- meter	static.network.pc_port.speed_duplex ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the network speed over Ethernet of the	PC port.	
Descrip- tion	Note : It works only if "static.network.pc_port.enable" is set to 1 (Auto Negotiation). For T57W/T54W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T42U/T42G/T42S/T40G/T33G/T31G/T- 29G/T27G/T23G phones, you can set the transmission speed to 1000Mbps/ Auto Negotiation to transmit in 1000Mbps if the phone is connected to the switch supports Gigabit Ethernet. We recommend that you do not change this parameter.		
	0-Auto Negotiation		
	1-Full Duplex 10Mbps		
Por	2-Full Duplex 100Mbps		
Per- mitted	3-Half Duplex 10Mbps		
Values	4-Half Duplex 100Mbps		
	5 -Full Duplex 1000Mbps (only applicable to T57W/T54W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T42U/T42G/T42S/T40G/T33G/T31G/T- 29G/T27G/T23G		
Default	0		
Sup- ported Devices	All phones except CP920		

Web UI	Network > Advanced > Port Link > PC Port Link	
Para- meter	static.network.vlan.pc_port_mode ^[1]	<y000000000xx>.cfg</y000000000xx>
Descrip- tion	It configures how the phone processes packets for the PC port when VLAN is enabled on the PC port.	
Per- mitted Values	 0-The phone forwards the packets sent from the PC port to the Internet port directly. 1-If there are no VLAN tags in the packets sent from the PC port to the Internet port, the phone tags the packets and then forward them; else, the phone forwards the packets directly. 	
Default	1	
Sup- ported Devices	All phones except CP920	
Para- meter	static.network.pc_port.mode ^[1]	<y000000000xx>.cfg</y000000000xx>
Descrip- tion	It configures the PC port mode.	
Per- mitted	0-The phone can only share the wired network with the connected PC, not the wireless network.	
Values	1-The phone can share both the wired network and	wireless network with the connected PC.
Default	0	
Sup- ported Devices	T57W, T54W, T53W, T53	
Case Scenario	When the phone is connected to the wireless network, the office's PC can obtain the network through the phone's PC port.	

VPN

Yealink phones use OpenVPN or L2TP (not available on T3 phones) to achieve VPN feature.

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

Topics

OpenVPN Related Files VPN Configuration Example: Using VPN based on L2TP Prototol Exporting the OpenVPN Configuration File from the Phone Importing the OpenVPN Configuration File to Phone

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 name of the OpenVPN certificates and key in the configuration file (vpn.cnf) for Yealink phones:

VPN Files	Description
ca.crt	CA certificate
client.crt	Client certificate
client.key	Private key of the client

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	escription It enables or disables the VPN feature.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Web UI	Network > Advanced > VPN > Active		
	Color Screen Phones:		
Phone UI	Menu > Advanced (default password: admin) > Netw	work > VPN > VPN Active	
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default pass)	tings > Advanced Settings (default password: admin) > Network > VPN > VPN Active	
Parameter	static.openvpn.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the *.tar file for Oper	VPN.	
•	Note: It works only if "static.network.vpn.mode" is se	t to 1 (OpenVPN).	
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Network > Advanced > VPN > OpenVPN > Upload \	/PN Config	
Parameter	static.network.openvpn_file.url ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the URL for uploading the OpenVPN co	onfiguration file (vpn.cnf).	
Description	Note: It works only if "static.network.vpn.mode" is se	t to 1 (OpenVPN).	
Permitted Values	String within 512 characters		
Default	Blank		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920		
Web UI	Network > Advanced > VPN > OpenVPN > Import VPN Configuration File		
Parameter	static.network.vpn.mode ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	Description It configures the VPN type.		
Permitted	0-L2TP		
Values	1-OpenVPN		

Default	1		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T27G and CP920		
Web UI	Network > Advanced > VPN > Mode		
Parameter	static.network.l2tp_server.address ^[1]	<y000000000xx>.cfg</y000000000xx>	
Deservicition	It configures the L2TP server address.		
Description	Note: It works only if "static.network.vpn.mode" is se	t to 0 (L2TP).	
Permitted Values	String within 512 characters		
Default	Blank		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T27G and CP920		
Web UI	Network > Advanced > VPN > Layer 2 Tunneling Pr	otocol(L2TP) > L2TP Server Address	
Parameter	static.network.l2tp_server.username ^[1]	<y000000000xx>.cfg</y000000000xx>	
Decerintien	It configures the user name of the L2TP server.		
Description	Note: It works only if "static.network.vpn.mode" is set to 0 (L2TP).		
Permitted Values	String within 512 characters		
Default	Blank		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T27G and CP920		
Web UI	Network > Advanced > VPN > Layer 2 Tunneling Pr	otocol(L2TP) > Authentication Name	
Parameter	static.network.l2tp_server.password ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the password of the L2TP server.		
Description	I Note: It works only if "static.network.vpn.mode" is set to 0 (L2TP).		
Permitted Values	String within 512 characters		
Default	Blank		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T27G and CP920		
Web UI	Network > Advanced > VPN > Layer 2 Tunneling Protocol(L2TP) > Authentication Password		

Example: Using VPN based on L2TP Prototol

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.

Exporting the OpenVPN Configuration File from the Phone

You can export the OpenVPN configuration file via web user interface.

Procedure

- 1. From the web user interface, click Network > Advanced > VPN.
- 2. Turn on VPN feature.
- 3. In the Export VPN Configuration File field, click Export to open the file download window, and then save the file to your local system.

Importing the OpenVPN Configuration File to Phone

You can import the OpenVPN configuration file from local to the phones via the web user interface. The changes in the configuration file will take effect after the file is imported.

Procedure

- 1. From the web user interface, click Network > Advanced > VPN.
- 2. Turn on VPN feature.
- In the Import VPN Configuration File field, click Browse to locate a OpenVPN configuration file in your local system.
- 4. Click Upload to import the configuration file.

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>	
	It configures the DSCP (Differentiated Services Code Point) for voice packets.		
Description	The default DSCP value for RTP packets is 46 (Expedi	ited Forwarding).	
Permitted Values	Integer from 0 to 63		
Default	46		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
	Network > Advanced > QoS > Voice QoS (0~63)		
Web UI	Other Phones:		
	Network > Advanced > Voice QoS > Voice QoS (0~63)		
Parameter	static.network.qos.signaltos ^[1] <y000000000xx>.cfg</y000000000xx>		
Description	It configures the DSCP (Differentiated Services Code F	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		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
	Network > Advanced > QoS > SIP QoS (0~63)		
Web UI	Other Phones:		
	Network > Advanced > Voice QoS > SIP QoS (0~63)		

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	iption It configures the 802.1x authentication method.	
Permitted	0-EAP-None, no authentication	

	1-EAP-MD5		
	2-EAP-TLS		
	3-EAP-PEAP/MSCHAPv2 (EAP-MSCHAPv2)		
Values	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		
	Color Screen Phones:		
Phone UI	Menu > Advanced (default password: admin) > Network > 802.1x	> 802.1x Mode	
	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) >	> Network > 802.1x > 802.1x Mode	
		<y000000000xx>.cfg</y000000000xx>	
Description	It configures the EAP In-Band provisioning method for EAP-FAST.		
	Note: It works only if "static.network.802_1x.mode" is set to 7 (EAF		
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 authors	entication.	
Description	It is used for constructing a secure tunnel for 802.1X authenticatio	n.	
	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] <y00000000xx>.cfg</y00000000xx>		
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		
Phone UI	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Network > 802.1x	> Identity	

	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > 802.1x > Identity		
	static.network.802_1x.md5_password ^[1]	<y0000000000xx>.cfg</y0000000000xx>	
	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		
	Color Screen Phones:		
Phone UI	Menu > Advanced (default password: admin) > Network > 802.1x	> MD5 Password	
	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin)	> Network > 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.		
	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 (EAI	P-TLS).	
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Network > Advanced > 802.1x > Device Certificates		
Parameter	static.network.802_1x.proxy_eap_logoff.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the 802.1x-logoff feature for the PC port.		
rennitteu	0-Disabled		
Values	1-Enabled, the 802.1x logoff message is sent to the authenticator when the PC is disconnected.		
Default	0		
Supported Devices	All phones except CP920		

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.

For more information on TR-069, refer to Yealink TR-069 Technote.

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 call (sep- 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 unsuccessful) of a file 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>	
	It enables or disables the TR-069 feature.		
-	0-Disabled		
Values	1-Enabled		
Default	0		
Web UI	Settings > TR069 > Enable TR069		
Parameter	static.managementserver.username	<y000000000xx>.cfg</y000000000xx>	
	It configures the TR-069 ACS server user name used to authenticate	the phone.	
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>	
Description	It configures the TR-069 ACS server password used to authenticate the	ne phone.	
	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>	
	•	<y0000000000xx2.clg< th=""></y0000000000xx2.clg<>	
	It configures the access URL of the TR-069 ACS server.		
		ecting DHCP option 43 or	
	It configures the access URL of the TR-069 ACS server. Note : The phones also support obtaining the URL of the ACS by dete DHCPv6 option 17. In a Dual-Stack mode, the value obtained from D	ecting DHCP option 43 or	
Permitted Values	It configures the access URL of the TR-069 ACS server. Note : The phones also support obtaining the URL of the ACS by dete DHCPv6 option 17. In a Dual-Stack mode, the value obtained from D priority than that obtained from DHCP option 43.	ecting DHCP option 43 or	
Permitted Values	It configures the access URL of the TR-069 ACS server. Note : The phones also support obtaining the URL of the ACS by dete DHCPv6 option 17. In a Dual-Stack mode, the value obtained from D priority than that obtained from DHCP option 43. URL within 511 characters	ecting DHCP option 43 or	
Permitted Values Default Web UI	It configures the access URL of the TR-069 ACS server. Note : The phones also support obtaining the URL of the ACS by dete DHCPv6 option 17. In a Dual-Stack mode, the value obtained from D priority than that obtained from DHCP option 43. URL within 511 characters Blank	ecting DHCP option 43 or	
Permitted Values Default Web UI Parameter	It configures the access URL of the TR-069 ACS server. Note : The phones also support obtaining the URL of the ACS by dete DHCPv6 option 17. In a Dual-Stack mode, the value obtained from D priority than that obtained from DHCP option 43. URL within 511 characters Blank Settings > TR069 > ACS URL	ecting DHCP option 43 or HCPv6 option 17 has a higher <y0000000000xx>.cfg</y0000000000xx>	
Permitted Values Default Web UI Parameter	It configures the access URL of the TR-069 ACS server. Note : The phones also support obtaining the URL of the ACS by dete DHCPv6 option 17. In a Dual-Stack mode, the value obtained from D priority than that obtained from DHCP option 43. URL within 511 characters Blank Settings > TR069 > ACS URL static.managementserver.connection_request_username	ecting DHCP option 43 or HCPv6 option 17 has a higher <y0000000000xx>.cfg</y0000000000xx>	
Permitted Values Default Web UI Parameter Description Permitted Values	It configures the access URL of the TR-069 ACS server. Note : The phones also support obtaining the URL of the ACS by dete DHCPv6 option 17. In a Dual-Stack mode, the value obtained from D priority than that obtained from DHCP option 43. URL within 511 characters Blank Settings > TR069 > ACS URL static.managementserver.connection_request_username It configures the user name used to authenticate the connection requ	ecting DHCP option 43 or HCPv6 option 17 has a higher <y0000000000xx>.cfg</y0000000000xx>	
Permitted Values Default Web UI Parameter Description Permitted Values	It configures the access URL of the TR-069 ACS server. Note : The phones also support obtaining the URL of the ACS by deter DHCPv6 option 17. In a Dual-Stack mode, the value obtained from D priority than that obtained from DHCP option 43. URL within 511 characters Blank Settings > TR069 > ACS URL static.managementserver.connection_request_username It configures the user name used to authenticate the connection required String within 128 characters	ecting DHCP option 43 or HCPv6 option 17 has a higher <y0000000000xx>.cfg</y0000000000xx>	
Permitted Values Default Web UI Parameter Description Permitted Values Default Web UI	It configures the access URL of the TR-069 ACS server. Note : The phones also support obtaining the URL of the ACS by deter DHCPv6 option 17. In a Dual-Stack mode, the value obtained from D priority than that obtained from DHCP option 43. URL within 511 characters Blank Settings > TR069 > ACS URL static.managementserver.connection_request_username It configures the user name used to authenticate the connection requ String within 128 characters Blank	ecting DHCP option 43 or HCPv6 option 17 has a higher <y0000000000xx>.cfg</y0000000000xx>	
Permitted Values Default Web UI Parameter Description Permitted Values Default Web UI Parameter	It configures the access URL of the TR-069 ACS server. Note : The phones also support obtaining the URL of the ACS by deter DHCPv6 option 17. In a Dual-Stack mode, the value obtained from D priority than that obtained from DHCP option 43. URL within 511 characters Blank Settings > TR069 > ACS URL static.managementserver.connection_request_username It configures the user name used to authenticate the connection requing String within 128 characters Blank Settings > TR069 > Connection Request Username	<pre>cting DHCP option 43 or HCPv6 option 17 has a higher <y0000000000xx>.cfg ests from the ACS server. <y0000000000xx>.cfg</y0000000000xx></y0000000000xx></pre>	
Permitted Values Default Web UI Parameter Description Permitted Values Default Web UI Parameter	It configures the access URL of the TR-069 ACS server. Note : The phones also support obtaining the URL of the ACS by deter DHCPv6 option 17. In a Dual-Stack mode, the value obtained from D priority than that obtained from DHCP option 43. URL within 511 characters Blank Settings > TR069 > ACS URL static.managementserver.connection_request_username It configures the user name used to authenticate the connection requined String within 128 characters Blank Settings > TR069 > Connection Request Username static.managementserver.connection_request_password	<pre>cting DHCP option 43 or HCPv6 option 17 has a higher <y0000000000xx>.cfg ests from the ACS server. <y000000000xx>.cfg</y000000000xx></y0000000000xx></pre>	

Values			
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 configuratio	n information to the ACS server.	
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Web UI	Settings > TR069 > Enable Periodic Inform		
Parameter	static.managementserver.periodic_inform_interval <y0000000000xx>.cfg</y0000000000xx>		
Decerintion	It configures the interval (in seconds) at which the phone reports its configuration to the ACS server.		
Description	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 Example: Deploying Phones from the Provisioning Server

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://sup-port.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 specific phone models
- 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 (y000000000000.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 phone.

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.
in the descent in some of a	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.
	The [\$MODEL] can be added to specify settings for specific phone models. \$MODEL represents the phone model name.
[\$MODEL]	The valid phone model names are T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T42G, T41P, T41S, T40P, T40G, T33P, T33G, T31P, T31G, T31, T30P, T30, T29G, T27G, T23P, T23G, T21P_E2, T19P_E2, and CP920.
	Multiple phone models are separated by commas. For example, [T46S, T23G].
	Note : The phone model name T21P_E2 is applicable to T21P E2 and T21 E2 phones.
	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.
	Enable or disable the exclude mode. The exclude mode applies to the con- figuration files specified in the boot file.
static.specific_model.excluded_ mode	0 -Disabled (Append Mode), the phone downloads its own model-specific con- figuration files and downloads other model-unspecified configuration files.
	1-Enabled (Exclude Mode), the phone attempts to download its own model-spe- cific configuration files; if there are no own model-specific configuration files

Attributes Description	
	found on the server, it downloads model-unspecified configuration files.
	Note : Exclude mode can only be used in boot files. If a boot file is used but "stat- ic.specific_model.excluded_mode" is not configured, the exclude mode is dis- abled 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.
- **3.** 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"

To specify configuration files for specific phone models, add specific phone models in front of include:config <> or include:config "". Multiple phone model names are separated by commas.

For example:

[T46S, T48S]include:config <configure/sip.cfg >

[T23G]include:config "http://10.2.5.206/configure/account.cfg"

file sip.cfg only applies to T46S and T48S phones, file account.cfg only applies to T23G phones

- 5. Specify the overwrite mode and exclude mode.
- For example: overwrite_mode = 1

static.specific_model.excluded_mode = 1

6. 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 following table lists the name of the common CFG file for each phone model:

Phone Model	Common CFG file
T57W	y0000000097.cfg
T54W	y0000000096.cfg
T53W/T53	y0000000095.cfg
T48U	y00000000109.cfg
T48G	y0000000035.cfg
T48S	y0000000065.cfg
T46U	y0000000108.cfg
T46G	y0000000028.cfg
T46S	y0000000066.cfg
T43U	y0000000107.cfg
T42G	y0000000029.cfg
T42S	y0000000067.cfg
T42U	y0000000116.cfg
T41P	y0000000036.cfg
T41S	y0000000068.cfg
T40P	y0000000054.cfg
T40G	y0000000076.cfg
T33P/T33G	y0000000124.cfg
T31P/T31G/T31	y0000000123.cfg
T30P/T30	y0000000127.cfg
T29G	y0000000046.cfg
T27G	y0000000069.cfg
T23P/G y0000000044.cfg	
T21(P) E2	y0000000052.cfg
T19(P) E2	y0000000053.cfg
CP920	y0000000078.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 phone user interface (for example, changes for time and date formats, ring tones, and DSS keys).

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.

This file supports the overwrite mode. That is, you can clear the user's personalized configurations settings by deleting a parameter or leaving the value of a parameter blank in the MAC-local CFG file on the server. Note that if there is no MAC-local CFG file found on the server, the MAC-local CFG file on the phone will not be cleared.

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 configuration 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: phone_setting.contrast = 7 local_time.time_format = 1 account.1.anonymous_call = 1 account.2.dnd.enable = 1 features.dnd.enable = 0

3. To specify parameters for specific phone models, add specific phone models in the front of the corresponding parameters. Multiple phone model names are separated by commas.

For example:

[T46S,T48S]voice_mail.number.1 = *5 [T27G]account.1.dnd.enable = 1

[T46S]account.2.dnd.enable = 1

[T48S]features.dnd.enable = 0

These parameters only apply to their own specific phone models.

4. 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
[\$MODEL]	The [\$MODEL] can be added in front of the configuration parameter to specify the value for specific phone models. \$MODEL represents the phone model. The valid phone model names are T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T42G, T41P, T41S, T40P, T40G, T33P, T33G, T31P, T31G, T31, T30P, T30, T29G, T27G, T23P, T23G, T21P_E2, T19P_ E2, and CP920. Multiple phone models are separated by commas. For example, [T46S, T23G]. Note : The phone updates model-specific configurations and those model-unspe- cified configurations. The phone model name T21P_E2 is applicable to T21P E2 and T21 E2 phones.

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.

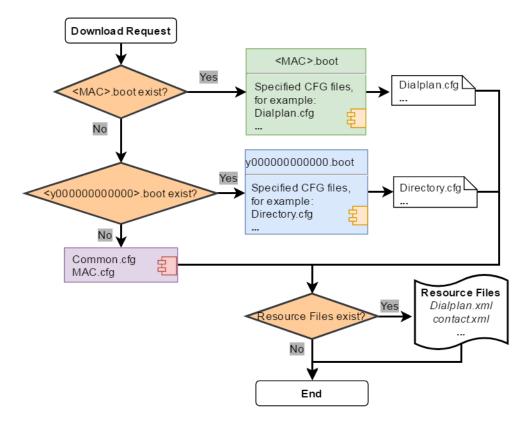
The following table lists the resource files Yealink supplies:

Template File	File Name	Description	Reference in Section
AutoDST Tem- plate	AutoDST.xml	Add or modify time zone and DST settings.	DST Settings
	For example,		Language for Phone Display Customization Language for Web Display Customization
Language Packs		Customize the translation of the existing lan- guage on the phone/web user interface.	
Language Facks	1.English_note.xml		
	1.English.js		

Template File	File Name	Description	Reference in Section	
Keypad Input Method File	ime.txt Russian_ime.txt	Customize the existing input method.	Keypad Input Method File Customization	
	Hebrew_ime.txt			
Onscreen Key-	keyboard_lang.xml		Onscreen Keyboard	
board Input	keyboard_ime_*.xml	Customize the onscreen keyboard input method.	Input Method File Cus-	
Method File	keyboard_layout_*.xml		tomization	
Replace Rule Template	DialPlan.xml	Customize replace rules for the dial plan.	Replace Rule File Customization	
Dial Now Tem- plate	DialNow.xml	Customize dial now rules for the dial plan.	Dial Now File Cus- tomization	
Softkey Layout Template	CallFailed.xml CallIn.xml Connecting.xml Dialing.xml RingBack.xml Talking.xml	Customize soft key layout for different call states.	Softkey Layout File Customization	
Directory Tem- plate	favorite_setting.xml	Customize the directory list.	Directory List File Cus- tomization	
Super Search Template	super_search.xml	Customize the search source list.	Search Source File Customization	
Local Contact File	contact.xml	Add or modify multiple local contacts.	Local Contact File Customization	
Remote Phone Book Template	Department.xml Menu.xml	Add or modify multiple remote contacts.	Remote Phone Book File Customization	
Screen Saver Template	CustomScreenSaver.xml	Customize the XML items (for example, noti- fications, company logo) which will be dis- played on the screen saver.	Screensaver Display 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.

Note: For the phone running firmware version 82 or earlier, it downloads configuration files referenced in the boot file in sequence.

For the phone running firmware version 83 or later, "static.specific_model.excluded_mode" determines which configuration files referenced in the boot file to be downloaded.

Provisioning Methods

Yealink provides two ways to provision your phones:

- Manual Provisioning: provisioning via the local phone 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 phone 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 phone 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 Viewing Configurations Configured via Different Provisioning Methods

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 phone 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 Navigating the Web User Interface

Accessing the Web User Interface

Procedure

- 1. Find the device IP address. Press the OK/ √/ key when the phone is idle or navigate to Menu > Status on the phone.
- 2. 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.

The request URI for T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U phones:

https://phoneIPAddress/api/auth/login?@username:password

Example: https://192.168.0.10/api/auth/login?@admin:admin

The request URI for other phones:

https://username:password@phoneIPAddress

Example: https://admin:admin@192.168.0.10

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.		
Description	Note: It works only if "static.wui.https_enable" is set to 1 (Enabled).		
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 web user interface of the phone.		
	Multiple domain names are separated by semicolons.		
	Example:		
Description	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 phone.		
	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.		
Permitted	String If it is left blank, you are only allowed to use the IP address to access the web user interface of the		
Values			

	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		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Net	work > Web Server > HTTP Status	
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default pass Status	word: admin) > Network > 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)	
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Net	work > Web Server > HTTP Port	
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Network > Web Server > HTTP Port		
Parameter	static.wui.https_enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables to access the web user interface of the phone over a secure tunnel (HTTPS).		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Network > Advanced > Web Server > HTTPS		
Phone UI	Color Screen Phones:		

	Menu > Advanced (default password: admin) > Network > Web Server > HTTPS Status			
	Black-and-white Screen Phones:			
	Menu > Settings > Advanced Settings (default password: admin) > Network > Web Server > HTTPS Status			
Parameter	static.network.port.https ^[1] <y00000000xx>.cfg</y00000000xx>			
Description	It configures the port used to access the web user in (HTTPS).	nterface of the phone over a secure tunnel		
Permitted Values	Integer from 1 to 65535			
Default	443			
Web UI	Network > Advanced > Web Server > HTTPS Port (1~65535)		
Phone UI	<u>Color Screen Phones:</u> Menu > Advanced (default password: admin) > Network > Web Server > HTTPS Port <u>Black-and-white Screen Phones:</u> Menu > Settings > Advanced Settings (default password: admin) > Network > Web Server > HTTPS Port			
Parameter	static.wui.default_https_enable ^[1]	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables to access the web user interface of the phone over a secure tunnel (HTTPS) by default. Note: It works only if "static.wui.https_enable" is set to 1 (Enabled).			
Permitted	0-Disabled			
Values	1-Enabled			
Default	1			
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920			

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

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 navigate to **Settings** > **Preference**:

Yealink			Log Out English(English) 🗸
	Status Account Network	Dsskey Features	Settings Directory Security
Preference	Live Dialpad	Disabled 👻 🕜	NOTE
Time & Date	Inter Digit Time(1~14s) Unused BackLight	4 🕜	Live Dialpad It allows IP phones to
Call Display	Active Backlight Level	8 • 0	automatically dial out the entered phone number after a
Upgrade	Backlight Time(seconds)	Always On 👻 🕜	specified period of time.
Auto Provision	Watch Dog	Enabled •	Backlight Specifies the brightness of the LCD screen display.
Configuration	Ring Type Upload Ringtone	Ring1.wav • ?	Contrast
Dial Plan		Upload Cancel	Specifies the contrast of the LCD screen display.
Voice	Walpaper	Default.jpg 👻 🕜	Ring Tones A ring tone that will alert you
Ring	Upload Wallpaper(480*272)	Browse No file selected.	 A ring tone that will alert you when a call comes in for the IP phone.
Tones	Screensaver Wait Time	6h • ?	You can click here to get more guides.
Softkey Layout	Screensaver Display Clock	Enabled 👻 🕜	niore guides.
TR069	Screensaver Type	System Click to	find all Yealink phone
Voice Monitoring	Confirm	100	mentations from the
SIP			alink support page
Power Saving		Tec	inink support page

Phone User Interface

The phone user interface makes configurations available to users and administrators; but the **Advanced/Advanced Settings** option is only available to administrators and requires an administrator password (default: admin).

You can configure the phones via the phone user interface on a per-phone basis.

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

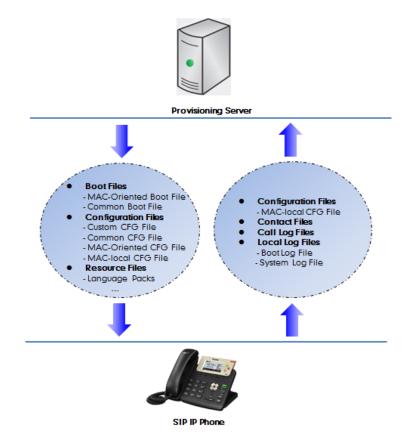
Related Topic

User and Administrator Identification

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 PIN Code 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 provisioning. Note : It has a higher priority than the value defined by the parameter "static.network.attempt_expired_ time".	
Permitted Values	Integer from 1 to 300	
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/HT	TPS connection	
	It configures the timeout (in seconds) to transfer a file for HTTP/HTTPS connection. Note : It has a lower priority than the value defined by the parameter "static.auto_provision.attempt_		
	Note : it has a lower priority than the value defined by the parameter 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>	
Decorintion	It configures the maximum number of attempts to transfer a file bef 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 b provisioning.	efore retrying the transfer via auto	
Permitted Values	Integer from 0 to 300		
Default	5		
Parameter	static.auto_provision.reboot_force.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
1	It enables or disables the phone to reboot after auto provisioning, even if there is no specific con- figuration requiring a reboot. Note : It works only for the current auto provisioning process. If you want the phone to reboot after every auto provisioning process, the parameter must be always contained in the configuration file and set to 1. If the phone reboots repeatedly after it is set to 1, you can try to set "static.auto_provision.power_on" to		
5	every auto provisioning process, the parameter must be always co set to 1.	ontained in the configuration file and	
Permitted	every auto provisioning process, the parameter must be always co set to 1. If the phone reboots repeatedly after it is set to 1, you can try to set	ontained in the configuration file and	
Permitted Values	every auto provisioning process, the parameter must be always co set to 1. If the phone reboots repeatedly after it is set to 1, you can try to set 0 (Off). 0 -Disabled	ontained in the configuration file and	
Permitted Values Default	every auto provisioning process, the parameter must be always co set to 1. If the phone reboots repeatedly after it is set to 1, you can try to set 0 (Off). 0-Disabled 1-Enabled Blank	ontained in the configuration file and	
Permitted Values Default Parameter	every auto provisioning process, the parameter must be always co set to 1. If the phone reboots repeatedly after it is set to 1, you can try to set 0 (Off). 0-Disabled 1-Enabled Blank features.action_uri_force_autop It enables or disables the phone to end the call for triggering auto receiving an HTTP or HTTPS GET request with the variable value	<pre>ontained in the configuration file and "static.auto_provision.power_on" to <y00000000000xx>.cfg provisioning immediately when set to AutoP during a call.</y00000000000xx></pre>	
Permitted Values Default Parameter Description	every auto provisioning process, the parameter must be always co set to 1. If the phone reboots repeatedly after it is set to 1, you can try to set 0 (Off). 0-Disabled 1-Enabled Blank features.action_uri_force_autop It enables or disables the phone to end the call for triggering auto	<pre>ontained in the configuration file and "static.auto_provision.power_on" to <y00000000000xx>.cfg provisioning immediately when set to AutoP during a call.</y00000000000xx></pre>	
Permitted Values Default Parameter Description Permitted Values	every auto provisioning process, the parameter must be always co set to 1. If the phone reboots repeatedly after it is set to 1, you can try to set 0 (Off). D-Disabled 1-Enabled Blank features.action_uri_force_autop It enables or disables the phone to end the call for triggering auto receiving an HTTP or HTTPS GET request with the variable value Note: It works only if "features.action_uri.enable" is set to 1 (Enabl D-Disabled, the phone triggers auto provisioning after the call.	<pre>ontained in the configuration file and "static.auto_provision.power_on" to <y00000000000xx>.cfg provisioning immediately when set to AutoP during a call.</y00000000000xx></pre>	
Permitted Values Default Parameter Description Permitted Values Default	every auto provisioning process, the parameter must be always co set to 1. If the phone reboots repeatedly after it is set to 1, you can try to set 0 (Off). 0-Disabled 1-Enabled Blank features.action_uri_force_autop It enables or disables the phone to end the call for triggering auto receiving an HTTP or HTTPS GET request with the variable value Note: It works only if "features.action_uri.enable" is set to 1 (Enabl 0-Disabled, the phone triggers auto provisioning after the call. 1-Enabled	<pre>ontained in the configuration file and "static.auto_provision.power_on" to <y00000000000xx>.cfg provisioning immediately when set to AutoP during a call.</y00000000000xx></pre>	
Permitted Values Default Parameter Description Permitted Values Default Parameter	every auto provisioning process, the parameter must be always co set to 1. If the phone reboots repeatedly after it is set to 1, you can try to set 0 (Off). 0-Disabled 1-Enabled Blank features.action_uri_force_autop It enables or disables the phone to end the call for triggering auto receiving an HTTP or HTTPS GET request with the variable value Note: It works only if "features.action_uri.enable" is set to 1 (Enabl 0-Disabled, the phone triggers auto provisioning after the call. 1-Enabled	<pre>ontained in the configuration file and "static.auto_provision.power_on" to <y0000000000xx>.cfg provisioning immediately when set to AutoP during a call. ed).</y0000000000xx></pre>	
Permitted Values Default Parameter Description Permitted Values Default Parameter Description	every auto provisioning process, the parameter must be always co set to 1. If the phone reboots repeatedly after it is set to 1, you can try to set 0 (Off). 0 -Disabled 1 -Enabled Blank features.action_uri_force_autop It enables or disables the phone to end the call for triggering auto receiving an HTTP or HTTPS GET request with the variable value Note : It works only if "features.action_uri.enable" is set to 1 (Enabl 0 -Disabled, the phone triggers auto provisioning after the call. 1 -Enabled	<pre>ontained in the configuration file and "static.auto_provision.power_on" to <y0000000000xx>.cfg provisioning immediately when set to AutoP during a call. ed).</y0000000000xx></pre>	
Permitted Values Default Parameter Description Permitted Values Default Parameter Description Permitted	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 set to 0 (Off). D-Disabled 1-Enabled Blank features.action_uri_force_autop It enables or disables the phone to end the call for triggering auto receiving an HTTP or HTTPS GET request with the variable value Note: It works only if "features.action_uri.enable" is set to 1 (Enabled D-Disabled, the phone triggers auto provisioning after the call. 1-Enabled 0 static.auto_provision.power_on It triggers the power on feature to on or off.	<pre>ontained in the configuration file and "static.auto_provision.power_on" to <y0000000000xx>.cfg provisioning immediately when set to AutoP during a call. ed).</y0000000000xx></pre>	

Web UI	Settings > Auto Provision > Power On	
Parameter	static.auto_provision.repeat.enable <y00000000xx>.cfg</y00000000xx>	
	It triggers the repeatedly feature to on or off.	
-	0-Off	
Values	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>
Description	It configures the time interval (in weeks) for the phone to perform 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 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>
Description	It configures the delay time (in minutes) to perform auto provisioning when the phone is inactive at reg- ular week. If it is set to 0, the phone performs auto provisioning at random between a starting time configured by 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).		
Permitted Values	Integer from 0 to 120		
Default	0		
Web UI	Settings > Auto Provision > Inactivity Time Expire(0~120min)		
Parameter	static.auto_provision.weekly.dayofweek		
	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 t phone performs auto provisioning by randomly selecting a day from Sunday and Monday every th weeks.		
	Note: It works only if "static.auto_provision.weekly.enable" is set to	o 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		
- .	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.		
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 pr	ovisioning.
	The auto provisioning occurs on a random day within this period b	
Description	The phone performs auto provisioning on a random day (for example, 18) based on the phone's MAC address.	
	Note: It works only if "static.auto_provision.flexible.enable" is set to	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 a	uto provisioning at random.
	Note: It works only if "static.auto_provision.flexible.enable" is set to	o 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 conf ic.auto_provision.weekly.begin_time", the phone performs auto pr	
	If it is set to a specific value greater than starting time configured b vision.weekly.begin_time", the phone performs auto provisioning and ending time.	
	If it is set to a specific value less than starting time configured by the parameter "static.auto_provision.weekly.begin_time", the phone performs auto provisioning at random between the startion that day and ending time in the next day.	
	Note: It works only if "static.auto_provision.flexible.enable" is set to	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.prompt.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to prompt you for the configuration update and the result (if any con- figuration changes) during auto provisioning.	

	Note : If the phone performs auto provisioning when receiving a SIP NOTIFY message which contains the header "Event: check-sync", the phone will display the prompt message no matter whether the configuration is updated.	
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	
Parameter	static.auto_provision.connect.keep_alive	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the long connection for downloading files vi	a auto provisioning.
Permitted Values	 0-Disabled, the phone uses the short connection for downloading 1-Enabled 	files via auto provisioning
Default	0	
Parameter	static.auto_provision.authentication.expired_time	<y000000000xx>.cfg</y000000000xx>
Description	It configures the timeout (in seconds) after which the authenticatio disappears.	n pop-up box for auto provisioning
Permitted	0-The authentication pop-up box does not disappear from the pho	one screen automatically.
Values	Integer from 10 to 86400 -The authentication pop-up box automatically disappears from the phone screen after the designated time.	
Default	7200	
Parameter	static.auto_provision.dns_resolv_nosys	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to resolve the access URL of the provisioning server using download libraries mechanism.	
Permitted Values	 0-Disabled, the phone resolves the access URL of the provisioning server using the system mechanism. 1-Enabled 	
Default	1	
Supported Devices	T42G, T41P, CP920	
Parameter	static.auto_provision.dns_resolv_nretry	<y000000000xx>.cfg</y000000000xx>
	It configures the retry times when the phone fails to resolve the ac	
Description	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 10	
Default	2	
Parameter	static.auto_provision.dns_resolv_timeout	<y000000000xx>.cfg</y000000000xx>
Description	It configures the timeout (in seconds) for the phone to retry to resolve the access URL of the pro- visioning server.	
Description	Note: For each different DNS server, it works only if "static.auto_provision.dns_resolv_nosys" is set 1 (Enabled).	
Permitted Values	Integer from 1 to 60	
Default	5	

^[1]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 provisio	ning	
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]}	<y000000000xx>.cfg</y000000000xx>	
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.

PIN Code Provisioning Settings Configuration

You can enable the users to trigger phones to perform provisioning by dialing a PIN code.

For more information on PIN code provisioning, refer to Yealink SIP IP Phones Auto Provisioning Guide.

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

Parameter	phone_setting.retain_pin.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to save the entered PIN co	de.
Permitted	0-Disabled	
Values	1-Enabled, the phone saves the entered PIN code and user	rs do not need to enter again.
Default	1	
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, ⁻ T31G, T31, T30P, T30, T27G and CP920	T46S, T42S, T41S, T33P, T33G, T31P,

Viewing Configurations Configured via Different Provisioning Methods

On the web user interface, you can click the question mark "?" after each configuration to see its detailed information. It is only applicable to T57W/T54W/T53W/T53/T48U/T48S/T46U/T46S/T43U/T42S/T42U/T41S/T27G/CP920 phones.

From the detailed information, you can do the following:

- Check whether settings you make using a higher priority provisioning method override settings made using a lower priority provisioning method.
- Reset a configuration to factory setting.
- See the default value of the desired configuration.

The table lists each parameter in the detailed information.

Parameter	Description	
Description	Description of this configuration item	
CFG Configuration	The parameter in the configuration file	
Valid Value	The permitted values	
	Web/Local:	Not Applicable: the value is not changed via phone or web user interface.
	(It appears only for a non-static parameter.)	Specific value: the value is changed via phone or web user interface. Click Reset to reset the value.
Configuration Source Values (This appears only when the para-	Config: (It appears only for a non-static parameter.)	Not Applicable: the parameter is not changed in the con- figuration files.
meter "static.auto_pro-		Specific value: the parameter is changed in the con- figuration files. Click Reset to reset the value.
	Static:	Not Applicable: the parameter is not configured in any provisioning method.
	(It appears only for a static parameter)	Specific value: the value is configured in any pro- visioning method. Click Reset to reset the value.

Parameter	Description	
	Default:	Default value

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 Note : It works only if the protocol type is not defined figured by the parameter "static.auto_provision.sen 1-http	t in the access URL of the provisioning server con-
Permitted Values	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	

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

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:

- Zero Touch: Zero Touch feature guides you to configure network settings and the provisioning server address via the phone user interface after startup.
- **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)/option 59 (for IPv6) or the custom option (if configured) that contains the provisioning server address.
- Static: You can manually configure the server address via the phone user interface or web user interface.

Topics

Zero Touch Provision Configuration PnP Provision Configuration DHCP Provision Configuration Static Provision Configuration

Zero Touch Provision Configuration

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

Parameter	static.zero_touch.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the zero touch for the phone to configure the network parameters and pro- visioning server address via the phone user interface during startup.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Web UI	Settings > Auto Provision > Zero Active	
Parameter	static.zero_touch.wait_time	<y000000000xx>.cfg</y000000000xx>
Description	It configures the duration time (in seconds) for the phone to display Zero Touch screen during startup.	
Permitted Values	Integer from 1 to 100	
Default	5	
Web UI	Settings > Auto Provision > Wait Time(1~100s)	
Parameter	static.zero_touch.network_fail_wait_times	<y000000000xx>.cfg</y000000000xx>
Description	It configures the reconnection times when zero touch module fails to obtain network parameters.	
Permitted Values	Integer from 1 to 2147483646	
Default	8	
Parameter	static.zero_touch.network_fail_delay_times	<y000000000xx>.cfg</y000000000xx>
Description	It configures the duration time (in milliseconds) of every reconnection when zero touch module fails to obtain network parameters.	

Permitted Values	Integer from 1000 to 2147483646	
Default	1000	
Parameter	static.features.hide_zero_touch_url.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to hide the provisioning URL item on the Zero Touch screen.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	

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 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	
Parameter	static.auto_provision.pnp_check_url.enable <y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to match the received provisioning URL with the last one from where the phone successfully requests the configuration via a PnP provision.	
Permitted	0-Disabled	
Values	1-Enabled, the phone performs a PnP provision again only when the provisioning URLs are matched.	
Default	0	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	

DHCP Provision Configuration

You can select to use IPv4 or IPv6 custom DHCP option according to your network environment. The IPv4 or IPv6 custom DHCP option must be in accordance with the one defined in the DHCP server.

Parameter	static.auto_provision.dhcp_option.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It triggers the DHCP Active feature to on or off.		
Values	 0-Off 1-On, the phone obtains the provisioning server address by detecting DHCP options. 		
Default Web UI	1 Settings > Auto Provision > DHCP Active		
Phone UI	Color Screen Phones: Menu > Advanced (default password: admin) > Auto Provision > DHCP Active		

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

	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Auto Provision > DHCP Active		
	static.auto_provision.dhcp_option.list_user_options <pre></pre>		
	It configures the IPv4 custom DHCP option for requesting provisioning server address.		
Description	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		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Auto Provision > IPv4 (Custom Option	
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Aut Option	to Provision > IPv4 Custom	
Parameter	static.auto_provision.dhcp_option.list_user6_options	<y000000000xx>.cfg</y000000000xx>	
	It configures the IPv6 custom DHCP option for requesting provisioning	server address.	
Description	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 135 to 65535, except 143		
Default	Blank		
Web UI	Settings > Auto Provision > IPv6 Custom Option		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Auto Provision > IPv6 Custom Option		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Aut Option	to Provision > IPv6 Custom	
Parameter	static.auto_provision.url_wildcard.pn	<y000000000xx>.cfg</y000000000xx>	
_	It configures the characters to replace the wildcard \$PN in the received URL of the provisioning server.		
Description			
Permitted Values	String within 32 characters		
	For T57W phones: T57W		
	For T54W phones: T54W		
Default	For T53W phones: T53W		
	For T53 phones: T53		
	For T48U phones: T48U		

-	1
	For T48G phones: T48G
	For T48S phones: T48S
	For T46U phones: T46U
	For T46G phones: T46G
	For T46S phones: T46S
	For T43U phones: T43U
	For T42G phones: T42G
	For T42S phones: T42S
	For T42U phones: T42U
	For T41P phones: T41P
	For T41S phones: T41S
	For T40P phones: T40P
	For T40G phones: T40G
	For T33G phones: T33G
	For T33P phones: T33P
	For T31G phones: T31G
	For T31P phones: T31P
	For T31 phones: T31
	For T30P phones: T30P
	For T30 phones: T30
	For T29G phones: T29G
	For T27G phones: T27G
	For T23P phones: T23P
	For T23G phones: T23G
	For T21(P) E2 phones: T21P_E2
	For T19(P) E2 phones: T19P_E2
	For CP920 phones: CP920

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 (for example, ring tones, wallpaper or DSS keys) 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

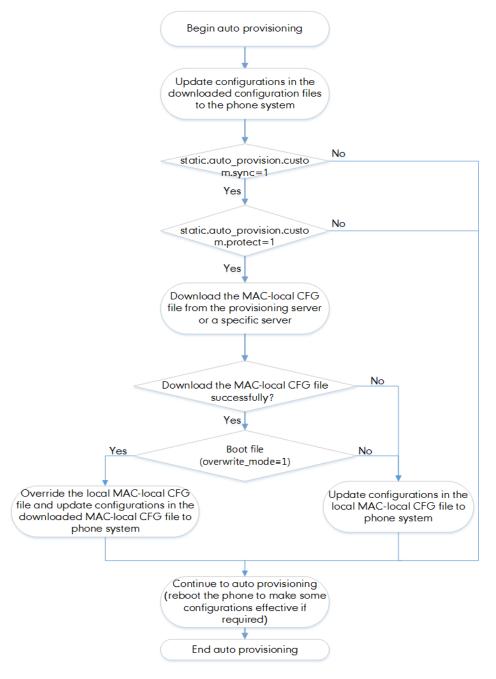
Keeping User's Personalized Settings Configuration

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>	
	It enables or disables the phone to keep the user's personalized settings after auto pro		
Description	Note : The provisioning priority mechanism (phone/web user interface > central provisioning > factory 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).		
Permitted	0-Disabled		
Values	1-Enabled, <mac>-local.cfg file generates and personalized non-static settings configured via the web or phone user interface will be kept after auto provisioning.</mac>		
Default	0		
Parameter	static.auto_provision.custom.sync	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to upload the <ma updates, and to download the <mac>-local.cfg file</mac></ma 		
Description	Note: It works only if "static.auto_provision.custom. path is configured by the parameter "static.auto_pro	protect" is set to 1 (Enabled). The upload/download ovision.custom.sync.path".	
Permitted Values	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	ption If it is left blank, the phone will try to upload/download the <mac>-local.cfg file to/from the server.</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>		
Description	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>		
Permitted	0 -PUT		
Values	1-POST		
Default	0		

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 loc-ally 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 phone user interface at the path: Menu > Advanced (default password: admin) > Reset Config > Reset local settings, Menu > Settings > Advanced Settings (default password: admin) > Reset Config > Reset local settings, Menu > Basic > Reset local settings or Menu > Settings > Basic Settings > Reset local settings.
- Via web user interface at the path: Settings > Upgrade > Reset Local Settings.
- Via auto provisioning: set "overwrite_mode = 1", delete the value of a parameter or comment out a parameter in <MAC>-local.cfg on the server, and then perform an auto provisioning.

Note: The **Reset local settings** option on the web/phone 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.

Example: Deploying Phones from the Provisioning Server

After setting up your provisioning server(s), you can deploy your phone devices. The following example shows you how to use the boot and configuration files to deploy phones from the provisioning server.

Procedure

- 1. Create a per-phone boot file and common boot file.
 - For example, 001565b09d886.boot and y000000000000.boot.
- 2. Create per-phone configuration files or common configuration files, and edit the feature parameters in the file you want to apply to the phones. For example,

	phone_setting.contrast = 7
	local_time.time_format = 1
Custom configuration file:	lang.gui = Chinese_S
CustomSettings.cfg	[T42S,T41S]voice_mail.number.1 = *5
	[T27G]account.1.dnd.enable = 1
	[T41S]account.1.dnd.enable = 0

	[T42S]features.dnd.enable = 0
	linekey.2.type=13
Custom configuration file:	linekey.2.line=1
Linekey.cfg	linekey.2.value = 4603
	linekey.2.label=Bill
	account.1.enable = 1
	account.1.label = Bill
	account.1.display_name = 1023
MAC-Oriented configuration files:	account.1.auth_name = 1023
001565b09d886.cfg	account.1.user_name = 1023
	account.1.password = 1023
	account.1.sip_server.1.address = 10.2.1.199
	account.1.sip_server.1.port = 5060

3. Place the configuration files to the home directory of the provisioning server. For example, D:\TFTP Provision.

4. Specify the configuration files paths in the boot file as desired. For example,

	include:config <tftp: 10.2.5.193="" customsettings.cfg=""></tftp:>
y00000000000.boot	[T46S,T48S]include:config "tftp:/10.2.5.193/Linekey.cfg"
	include:config <tftp: 10.2.5.193="" linekey.cfg=""></tftp:>
001565b09d886.boot	include:config <tftp: 001565b09d886.cfg="" 10.2.5.193=""></tftp:>

5. Place the boot files to the home directory of the provisioning server. For example, D:\TFTP Provision.

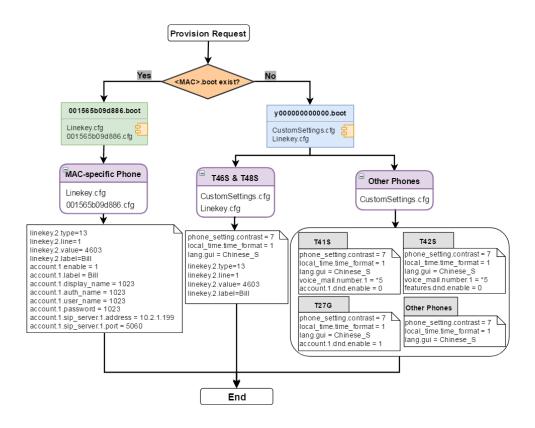
6. Reboot the phones to trigger auto provisioning.

For the phone with MAC 001565b09d886, it will download the 001565b09d886.boot file, and then download Linekey.cfg and 001565b09d886.cfg files referenced in the 001565b09d886.boot file in sequence from the provisioning server.

For the phones except for MAC-specific phone, they will request to download the y000000000000.boot file, and then request to download the referenced files. The phone-specific configuration file Linekey.cfg only applies to T46S and T48S phones. The only difference is that T46S and T48S phones will download both the two files since the exclude mode is disabled by default. The other phones will only download the CustomSettings.cfg file.

For the parameter settings in the CustomSettings.cfg file, the phone-specific parameters will only take effect on the specific phone models.

The following shows the provisioning flowchart for different phone models with phone-specific settings.



Security Features

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

Topics

User and Administrator Identification Auto Logout Time Phone Lock Transport Layer Security (TLS) Secure Real-Time Transport Protocol (SRTP) Encrypting and Decrypting Files Incoming Network Signaling Validation USB Port Lock

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 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	
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.	
Description	Note: It works only if "static.security.var_enable" is set to 1 (Enabled).	

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 password, "var" as the default var password and "admin" as the default administrator password.		
	The valid value format is <username>:<new passw<="" td=""><td>ord>.</td></new></username>	ord>.	
	Example:		
Description	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.		
	static.security.user_password = var:789 means setting the password of var to 789.		
	Note: The phones support ASCII characters 32-126(0x20-0x7E) in passwords. 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		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Change Password		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default password: admin) > Change Password		
	Note: You cannot change the user password via the phone user interface.		

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]	<y000000000xx>.cfg</y000000000xx>
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 phone user interface.	

	Note: It works only if "static.security.var_enable" is set to 1 (Enabled).	
	0-user	
Permitted 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 IP phone to prevent it from unauthorized use. Once the IP phone is locked, anyone must enter the password to unlock it.

Yealink phones offer three types for phone lock:

- Lock the Menu soft key: it prevents unauthorized users from accessing the menu, changing the personal settings for your phone.
- Lock the Function keys: it only allows unauthorized users to use the keypad for placing a call, answering or rejecting an incoming call and ending a call.
- Lock all keys: it only allows unauthorized users to use the keypad for dialing an emergency number or authorized numbers that set up by your administrator, answer or reject an incoming call and ending a call. The T57W/T48U/T48S/T48G phones only support All Keys type of phone lock.

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: The Volume key, HEADSET key and Speakerphone key are always available even when you lock the phone.

Topics

Operation Behaviors on Lock Phone Phone Lock Configuration

Operation Behaviors on Lock Phone

The following table lists the operation behavior when configuring the type of phone lock:

	All Keys	Function Keys	Menu key
	Allowable Behavior: You are allowed to press the desired Line Key (key type is Line) or the Speakerphone/off-hook key to enter the dialing screen.	-	The
Idle screen	Keys not Locked: Line keys (key type is Line), digit keys, HEADSET key,TVolume key, Speakerphone key, off-hook key, and on-hook key.a		Menu key (key type is
	Note : Line key is not applicable to T30P/T30/T19(P) E2/CP920 phones; Speakerphone key is not applicable to CP920 phones. Off-hook key and on- hook key are only applicable to CP920 phones.	Keys.	Menu) is locked.
	Allowable Behavior: You are allowed to answer or reject incoming calls.		
Incoming call	Keys not Locked: Answer and Reject soft key; OK/ √/ 〇, X, HEADSET key, Speakerphone key, off-hook key, and on-hook key.	The same	The Menu key (key
	Note : Pressing X key to reject the call is not applicable to T31P/T31G/T31/T30P/T30/T23P/T23G/T21(P) E2/T19(P) E2/CP920 phones; HEADSET key and Speakerphone key are not applicable to CP920 phones. Off-hook key and on-hook key are only applicable to CP920 phones.	Keys.	type is Menu) is locked.
	Allowable Behavior: You are allowed to press the Line Key (key type is Line), input or modify numbers, dial emergency numbers and return to the idle screen.	The same	The Menu key (key type is Menu) is locked.
Pre-dial- ing/Dialing screen	Keys not Locked : IME, More, Cancel, Send, Delete and Line soft key; line key (key type is Line), X, OK/ $\sqrt{/}$, Volume key, Speakerphone key, digit keys, HEADSET key, "*"/"#" (key as send), off-hook key and on-hook key.	as All Keys, but you can dial any	
	Note : Line key is not applicable to T30P/T30/T19(P) E2/CP920 phones; Speakerphone key is not applicable to CP920 phones. Off-hook key and on- hook key are only applicable to CP920 phones.	number.	
	Allowable Behavior: You are allowed to end the call, initiate a new call to the emergency number and resume a call.		
Talking	Keys not Locked : End Call, Cancel, Resume, NewCall soft key; line key (key type is Line), digit keys, X, Volume key, HEADSET key, Speakerphone key, off-hook key, and on-hook key.	The same as All Keys, but	The Menu key (key
	Note : Pressing X key to end the call is not applicable to T31P/T31G/T31/T30P/T30/T23P/T23G/T21(P) E2/T19(P) E2/CP920 phones; Line key is not applicable to T30P/T30/T19(P) E2/CP920 phones. HEADSET and Speakerphone key is not applicable to CP920 phones. Off-hook key and on-hook key are only applicable to CP920 phones.	you can dial any number.	type is Menu) is locked.

For T57W/T48U/T48S/T48G, all keys and screen are locked except the HEADSET key, Volume key, digit keys, # key, * key, and Speakerphone key.

Phone Lock Configuration

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

Parameter	phone_setting.phone_lock.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone lock feature.	
Permitted	0-Disabled	
Values	1-Enabled	

Default	0	0	
Web UI	Features > Phone Lock > Phone Lock Enable		
	Color Screen Phones:		
Phone UI	Menu > Basic > Phone Lock > Lock Enable		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Phone Lock > L	ock Enable	
Parameter	phone_setting.phone_lock.lock_key_type	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the type of phone lock.		
-	Note: It works only if "phone_setting.phone_lock.er	nable" is set to 1 (Enabled).	
Permitted	0-All Keys		
Values	1-Function Keys		
	2-Menu Key		
Default	0		
Supported Devices	All phones except T57W, T48U, T48S and T48G		
Web UI	Features > Phone Lock > Phone Lock Type		
	Color Screen Phones:		
Phone UI	Menu > Basic > Phone Lock > Lock Type		
	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Phone Lock > Lock Type		
Parameter	phone_setting.phone_lock.unlock_pin	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the password for unlocking the phone		
Permitted Values	Characters within 15 digits		
Default	123		
Web UI	Features > Phone Lock > Phone Unlock PIN (0~15	Digit)	
	Color Screen Phones:		
Dhana III	Menu > Basic > Change PIN		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Change PIN		
Parameter	phone_setting.phone_lock.lock_time_out	<y000000000xx>.cfg</y000000000xx>	
	It configures the idle time (in seconds) before the phone is automatically locked.		
Description	The default value is 0 (the phone is locked only by long pressing the pound key or pressing the phone lock DSS key).		
	Note: It works only if "phone_setting.phone_lock.enable" is set to 1 (Enabled).		
Permitted Values	Integer from 0 to 3600		
Default	0		

Web UI	Features > Phone Lock > Auto Lock (0~3600s)	
	Color Screen Phones: Menu > Basic > Phone Lock > Auto Lock Black-and-white Screen Phones:	
Phone UI		
	Menu > Settings > Basic Settings > Phone Lock > A	uto Lock
Parameter	phone_setting.emergency.number	<y000000000xx>.cfg</y000000000xx>
	It configures emergency numbers.	
	Multiple emergency numbers are separated by commas.	
	For T57W/T48U/T48S/T48G:	
	scription If "phone_setting.phone_lock.enable" is set to 1 (Enabled), you are only allowed to dial the c emergency numbers. For other phones:	
	If "phone_setting.phone_lock.enable" is set to 1 (Enabled) and "phone_setting.phone_lock.lock_key_ type" is set to 0 (All Keys), you are only allowed to dial the configured emergency numbers.	
Permitted Values	String within 99 characters	
Default	112,911,110	
Web UI	Features > Phone Lock > Emergency	

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.

Note: To improve the security of the phone web service, you cannot access the web user interface of the phone running firmware version V84 by default when the web browser only supports TLS 1.0 protocol. But you are allowed to configure the supported TLS version to use for handshake negotiation between the phone and web browser.

The compatible browsers are Google Chrome V22 or higher, Mozilla Firefox V27 or higher, Internet Explorer 8-10 (if TLS 1.1 or TLS 1.2 is enabled), Internet Explorer 11 and higher (TLS 1.1 and TLS 1.2 is enabled by default), Apple Safari V7 or higher, and Microsoft Edge.

Try to enable TLS 1.1 and/or TLS 1.2 protocols on web browsers when you cannot access the phone's web user interface using the lower version browser. If you still cannot access the phone's web user interface when using Internet Explorer, try to enable TLS 1.1 and disable TLS 1.2, or use other web browsers. Refer to the web resources for more information.

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
- ECDHE

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.

Resetting the IP phone to factory defaults will delete trusted and server certificates settings by default. However, this feature is configurable by the parameter "static.phone_setting.reserve_certs_config.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
- SIP Core
- QuoVadis Root CA 2
- QuoVadis Root Certification Authority
- USERTrust RSA Certification Authority

- Starfield Secure Certificate Authority G2
- HydrantID SSL ICA G2

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	1-TCP		
	2-TLS		
	3 -DNS NAPTR, if no server port is given, the phone performs the DNS NAPTR and SRV queries for the service type and port.		
Default	0		
Web UI	Account > Register > SIP Server Y > Transport		
Parameter	static.security.default_ssl_method ^[3]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the TLS version to use for handshake negotiation between the phone and server (for example, SIP registration server, provisioning server).		
	0-TLS 1.0		
rennitieu	3 -SSL V23 (automatic negotiation with the server. The phone starts with TLS 1.2 for negotiation.)		
Values	4-TLS 1.1		
	5-TLS 1.2		
Default	3		
Parameter	static.security.server_ssl_method ^[3]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the supported TLS version to use for h web browser.	andshake negotiation between the phone and	
	0 -TLS 1.0, TLS 1.1 and TLS 1.2		
Permitted Values	1-TLS 1.1 and TLS 1.2		
	2 -TLS 1.2		
Default	1		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T2	29G	
Parameter	static.security.trust_certificates ^[3]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to only trust the se	rver 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. 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 C connection.	Certificates list for the phone to authenticate for TLS	
Permitted	0-Default Certificates		
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 val certificate sent by the server.	idate the CommonName or 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.		
Ferninteu	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 server.	certificate used to authenticate 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		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Security > Trusted Certificates > Upload Trusted Certificate File		
	Other Phones:		
	Security > Trusted Certificates > Load Trusted Certificates File		
Parameter	static.trusted_certificates.delete	<y000000000xx>.cfg</y000000000xx>	
	It deletes all uploaded trusted certificates.		
Permitted Values	http://localhost/all		

Default	Blank		
Parameter	static.server_certificates.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the certificate the phone sends for authentication.		
Description	Note: The certificate you want to upload must be in *.pem or *.cer format.		
Permitted Values	URL within 511 characters		
Default	Blank		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
M/- 1- 1-11	Security > Server Certificates > Upload Server Cer	tificate File	
Web UI	Other Phones:		
	Security > Server Certificates > Load Server Certificates 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		
Values	1-Enabled		
Default	0		
Parameter	static.phone_setting.reserve_certs_config.enable [3]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to reserve the trusted and server certificates settings after the phone reset to factory defaults.		
	0-Disabled, "static.security.trust_certificates", "static	c.security.ca_cert", "static.security.cn_validation"	
r crimiticu	 and "static.security.dev_cert" will be reset. 1-Enabled, "static.security.trust_certificates", "static.security.ca_cert", "static.security.cn_validation", "static.security.dev_cert" and "static.phone_setting.reserve_certs_config.enable" will not be reset. 		
Values			
Default	static.security.dev_cent and static.phone_setting.reserve_cents_config.enable will not be reset.		
	`		

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

^[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.

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). You can configure the IP phone to include unencrypted RTP/RTCP streams in SDP offers by "account.X.srtp.unencrypted_rtp.enable"/"account.X.srtp.unencrypted_rtcp.enable".

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			
Description	It configures whether to use audio encryption service.		
Permitted Values	 0-Disabled 1-Optional, the phone will negotiate with the other phone what type of encryption to use for the session. 		
	2-Compulsory, the phone must use SRTP during a call.		
Default	0		
Web UI	Account > Advanced > RTP Encryption (SRTP)		
Parameter	account.X.srtp_lifetime ^[1]	<mac>.cfg</mac>	
Description	It configures the lifetime of the master key used for the cryptographic parameter in SDP. The value spe- cified is the number of SRTP packets. When the lifetime is set, a re-invite with a new key is sent when the number of SRTP packets sent for an outgoing call exceeds half the value of the master key lifetime.		
	Note: Setting this parameter to a non-zero value may affect the performance of the phone. It works only if "account.X.srtp_encryption" is set to 1 (Optional) or 2 (Compulsory).		
Permitted Values	Integer greater than or equal to 0 0-the master key lifetime is not set. 1 to 1024-the master key lifetime is 1024. 1025 to 2^48-the master key lifetime is the configured value. A value greater than 2^48-the master key lifetime is 2^48.		
Default	0		
Parameter	account.X.srtp.unencrypted_rtp.enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone's capability to incluusing SRTP. Note: It works only if "account.X.srtp_encryption" is		
	0-Disabled		
Permitted Values	1-Enabled, the phone offers both encrypted and un streams carry UNENCRYPTED_SRTP session para tiation, whether the RTP stream is encrypted or not	ameters) in SDP offers. After a successful nego-	
Default	0		
Parameter	account.X.srtp.unencrypted_rtcp.enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone's capability to include unencrypted RTCP streams in SDP offers when using SRTP.		
	Note: It works only if "account.X.srtp_encryption" is 0-Disabled	set to 1 (Uptional) or 2 (Compulsory).	
Permitted	U-Disabled 1-Enabled , the phone offers both encrypted and unencrypted RTCP streams (Unencrypted RTCP streams carry UNENCRYPTED_SRTCP session parameters) in SDP offers. After a successful negotiation, whether the RTCP stream is encrypted or not depends on the SDP answer.		
Values		,	
Values Default		,	

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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/32 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 Contact Files Encryption and Decryption Encryption and Decryption Configuration

Configuration Files Encryption Tools

Yealink provides three configuration files encryption tools:

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

The encryption tools support two encryption modes: RSA Mode and Compatibility Mode.

For more information on the encryption tools, refer to Yealink Configuration Encryption Tool User Guide.

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/32-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 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 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.

Contact Files Encryption and Decryption

Encrypted contact files can be used to protect against unauthorized access and tampering of private information (for example, contact number). It is helpful for protecting trade secrets.

You can configure the contact files to be automatically encrypted using 16-character/32 characters symmetric keys (configured by "static.auto_provision.aes_key.mac") when uploading to the server (by setting "static.auto_pro-vision.encryption.directory=1"). The encrypted contact files have the same file names as before. The encrypted contact files can be downloaded from the server and decrypted using 16-character/32 characters symmetric keys

during auto provisioning. If the parameter static.auto_provision.aes_key.mac" is left blank, "static.auto_provision.aes_key.com" will be used.

If the downloaded contact files are encrypted, the phone will try to decrypt <MAC>-contact.xml file using the plaintext AES key. After decryption, the phone resolves contact files and updates contact information onto the IP phone system.

Encryption and Decryption Configuration

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

	-		
Parameter	static.auto_provision.update_file_mode	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone only to download	the encrypted files.	
Permitted Values	 0-Disabled, the phone will download the configuration files (for example, sip.cfg, account.cfg, <mac>-local.cfg) and <mac>-contact.xml file from the server during auto provisioning no matter whether the files are encrypted or not. And then resolve these files and update settings onto the phone system.</mac></mac> 1-Enabled, the phone will only download the encrypted configuration files (for example, sip.cfg, account.cfg, <mac>-local.cfg) or <mac>-contact.xml file from the server during auto provisioning, and then resolve these files and update settings onto the phone system.</mac></mac> 		
Default	0		
Parameter	static.auto_provision.aes_key_in_file	<y000000000xx>.cfg</y000000000xx>	
Description	It configures how the phone decrypts files.		
	0 -The phone will decrypt the encrypted configuration files using plaintext AES keys configured on t phone.		
Permitted Values	1-The phone determines whether the file is an encrypted file generated in RSA mode. If yes, the phone will decrypt the encrypted configuration file using the phone built-in RSA private key or self-define RSA private key. If no, the phone will request the <xx>.enc file first and decrypt the file using RSA private key, when there is no <xx>.enc file, the phone will request the <xx_security>.enc file. Then the phone decrypt this file into the plaintext key (e.g., key2) using the phone built-in AES key (e.g., key1). The IP phone then decrypts the encrypted configuration file using the corresponding key (e.g., key2).</xx_security></xx></xx>		
Default	0		
Parameter	static.auto_provision.aes_key.com	<y000000000xx>.cfg</y000000000xx>	
	It configures the plaintext AES key for encrypting/de	ecrypting the Common 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^{*} - 0^{*} = 0^{*} $		
	Example:		
Description	static.auto_provision.aes_key.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.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.com".		
Permitted Values	16/32 characters		
Default	Blank		
	Settings > Auto Provision > Common AES Key		
Web UI	Settings > Auto Provision > Common AES Key		

	Menu > Advanced (default password: admin) > Auto Provision > Common AES		
	Black-and-white Screen Phones:		
Parameter	static.auto_provision.aes_key.mac	<y000000000xx>.cfg</y000000000xx>	
	It configures the plaintext AES key for encrypting/de <mac>-local.cfg and <mac>-contact.xml).</mac></mac>	ecrypting the MAC-Oriented files (<mac>.cfg,</mac>	
	The valid characters contain: 0 ~ 9, A ~ Z, a ~ z and ported: # \$ % * + , : = ? @ [] ^ _ { }.	the following special characters are also sup-	
Description	Example:		
Description	static.auto_provision.aes_key.mac = 0123456789a	_provision.aes_key.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.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.com".		
Permitted Values	16/32 characters		
Default	Blank		
Web UI	Settings > Auto Provision > MAC-Oriented AES Ke	/	
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Aut	nced (default password: admin) > Auto Provision > MAC-Oriented AES	
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default pass AES	word: admin) > Auto Provision > MAC-Oriented	
Parameter	static.autoprovision.X.com_aes ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>	
	It configures the plaintext AES key for decrypting th		
Description	If it is configured, it has a higher priority than the va vision.aes_key.com".	lue configured by the parameter "static.auto_pro-	
Permitted Values	16/32 characters		
Default	Blank		
Parameter	static.autoprovision.X.mac_aes ^{[1][2]}	<y000000000xx>.cfg</y000000000xx>	
	It configures the plaintext AES key for decrypting th		
	If it is configured, it has a higher priority than the value configured by the parameter "static.auto_pro- vision.aes_key.mac".		
Permitted Values	16/32 characters		
Default	Blank		
Parameter	static.auto_provision.encryption.directory	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to encrypt <mac>-contact.xml file using the plaintext AES key.</mac>		
Permitted Values	0 -Disabled, the contact file will be uploaded unencrypted and will replace the one (encrypted or unen- crypted) stored on the server if you have configured to back up the contacts to the server by the para-		

	meter "static.auto_provision.local_contact.backup.enable".		
	1-Enabled, the contact file will be uploaded encrypted and will replace the one (encrypted or unen- crypted) stored on the server if you have configured to back up the contacts to the server by the para- meter "static.auto_provision.local_contact.backup.enable". The plaintext AES key is configured by the parameter "static.auto_provision.aes_key.mac".		
Default	0		
Parameter	static.auto_provision.encryption.call_log	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to encrypt <mac></mac>	-calllog.xml file using the plaintext AES key.	
	0 -Disabled, the call log file will be uploaded unencrypted and will replace the one (encrypted or unen- crypted) stored on the server if you have configured to back up the call log to the server by the para- meter "static.auto_provision.local_calllog.backup.enable".		
	1-Enabled, the call log file will be encrypted upload crypted) stored on the server if you have configured meter "static.auto_provision.local_calllog.backup.e parameter "static.auto_provision.aes_key.mac".	to back up the call log to the server by the para-	
Default	0		
Parameter	static.auto_provision.encryption.config	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to encrypt <mac></mac>	local.cfg file using the plaintext AES key.	
Permitted Values	 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". 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". 		
Default	the parameter "static.auto_provision.aes_key.mac".		
Parameter	static.auto_provision.rsa_pri_key.url	<y000000000xx>.cfg</y000000000xx>	
	It configures the URL to import the self-define RSA	private key file.	
	Note : The key file must be in *.key format. It works o set to 1 (Enabled).	only if "static.auto_provision.rsa_pri_key.enable" is	
Permitted Values	URL within 511 characters		
Default	Blank		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920		
Web UI	Settings > Auto Provision > Import RSA Pri Key		
Parameter	static.auto_provision.rsa_pri_key.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the self-define RSA private k	еу.	
Permitted	0 -Disabled, the phone decrypts the encrypted configuration files using phone built-in RSA keys.		
Values	1-Enabled, the phone decrypts the encrypted configuration files using self-define RSA private key.		

Default	0		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920		
Web UI	Settings > Auto Provision > Self-Define RSA Pri Key		
Parameter	static.auto_provision.rsa_pri_key.delete <y000000000xx>.cfg</y000000000xx>		
Description	It deletes the self-define RSA private key file.		
Permitted Values	http://localhost/all		
Default	Blank		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920		

^[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.

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	1	
Permitted Values	INVITE, ACK, BYE, REGISTER, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, REFER, PRACK, UPDATE		
Default	Blank		
Parameter	sip.request_validation.digest.list	<y000000000xx>.cfg</y000000000xx>	
	It configures the name of the request method for which digest authentication will be applied.		
Description	n Example:		
	sip.request_validation.digest.list = INVITE, SUBSCRIBE		
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 p authentication.	arameter Realm when performing the digest
Permitted Values	A valid string	
Default	YealinkSPIP	
Parameter	sip.request_validation.event	<y000000000xx>.cfg</y000000000xx>
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	

USB Port Lock

You can lock the USB port on T57W/T53W/T53W/T53W/T53W/T48D/T48S/T48G/T46U/T46S/T46G/T43U/T42U/T42S/T41S/T29G/T27G/CP920 phones.

The following features are not available when you disable the USB port:

- Adding a Wallpaper from a USB Flash Drive
- Adding a Screensaver Picture from a USB Flash Drive
- Wi-Fi (except T57W/T54W/T53W/CP920)
- Bluetooth (except T57W/T54W/T53W/CP920)
- USB Recording

Topic

USB Port Lock Configuration

USB Port Lock Configuration

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

Parameter	static.usb.power.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the USB port.		
Permitted	 0-Disabled, the phone does not provide power to the USB port and not detect USB devices attached to the USB port. All the USB devices are disabled on the phone. 1-Enabled 		
Default	1		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, T27G, CP920		
Parameter	static.usbdisk.function.enable ^[1] <y00000000xx>.cfg</y00000000xx>		
Description	It enables or disables the USB flash drive feature. Note : It works only if "static.usb.power.enable" is set to 1 (Enabled).		
	0 -Disabled, the phone cannot detect the USB flash drive attached to the USB port. The USB item will not appear on the menu screen and there is no USB icon on the status bar. Only the USB flash drive		

	is disabled, other USB devices such as Bluetooth dongle are still available on the phone. 1-Enabled
Default	1
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, CP920

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

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.

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.

All configurations will be cleared on the T23P/T23G/T21(P) E2/T19(P) E2 phones when downgrading the phones from firmware version 84 to 83.

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
T57W/T54W/T53W/T53	96.x.x.x.rom	96.85.0.10.rom
(T5W firmware unified)		
T48U/T46U/T43U/T42U	100	100.04.0.00
(T4U firmware unified)	108.x.x.rom	108.84.0.30.rom
T48S/T46S/T42S/T41S	00	00.04.0.00
(T4S firmware unified)	66.x.x.rom	66.84.0.80.rom
T48G	35.x.x.rom	35.83.0.30.rom
T46G	28.x.x.rom	28.83.0.30.rom
T42G	29.x.x.rom	29.83.0.30.rom
T41P	36.x.x.rom	36.83.0.30.rom
T40P	54.x.x.rom	54.84.0.60.rom
T40G	76.x.x.rom	76.84.0.60.rom
T33P/T33G/T31P/T31G/T31/T30P/T30	101	404.05.0.40
(T3 firmware unified)	124.x.x.rom	124.85.0.10.rom
T29G	46.x.x.x.rom	46.83.0.30.rom
T27G	69.x.x.rom	69.84.0.80.rom
T23P/G	44.x.x.rom	44.84.0.60.rom
T21(P) E2	52.x.x.rom	52.84.0.60.rom
T19(P) E2	53.x.x.rom	53.84.0.60.rom

IP Phone Model	Firmware Name	Example
CP920	78.x.x.rom	78.84.0.80.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	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Settings > Upgrade > Upgrade Firmware <u>Other Phones:</u> Settings > Upgrade > Select And Upgrade Firmware		

Using Handsets with T57W/T54W/T53W/T53 Phones

You can turn Yealink T57W/T54W/T53W/T53 phone to the corded-cordless phone. The corded-cordless phone consists of a T57W/T54W/T53W/T53 phone, a DECT USB dongle DD10K and at least a handset. The supported handsets include W52H, W56H, W53H, CP930W and DD phone. The T57W/T54W/T53W/T53 phone acts as a base station and Handset 1. Users can register up to other four handsets to one phone. It allows users to manage calls when they are away from their desk.

To use this feature, you should insert a DD10K into the rear USB port on the phone in advance.

Note that you can still use the phone features as usual on the corded-cordless phone.

Note: To use this feature, you should set "static.usb.power.enable" to 1 (Enabled). When satellite mode is disabled, Yealink recommends using forward and DND features in custom mode.

Topics

Handset Backlight Handset Keypad Light Handset Wallpaper Handset Screen Saver Handset Name Number Assignment End Call on Hook Advisory Tones Base PIN DECT Intercom Shared Directory Satellite Mode Repeater Settings Parameters Handset Settings Parameters Handset Firmware Upgrade Configuration

Handset Backlight

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

For W53H/W56H, 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 navigating to **Menu** > **Settings** > **Basic Settings** > **Display** > **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 o	n for about 30 minutes when it is charged.
	Description Note: It will take effect on all handsets that are registered on the same phone. It works only if "st ic.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 Values	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 handset is idle for about 30 minutes.		
Default	-1		
Supported Devices	W53H, W56H		
Handset UI	OK > Settings > Display > Display Backlight > In Charger		
Parameter	custom.handset.backlight_out_of_charger.enable <y000000000xx>.cfg</y000000000xx>		
	It enables or disables the handset backlight to be on for about 30 minutes when it is not charged.		
	Note: It will take effect on all handsets that are registered on the same phone. It works only if "stat-		
	ic.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 Values	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 handset is idle for about 30 minutes.		
Default	-1		
Supported Devices	W53H, W56H		
Handset UI	OK > Settings > Display > Display Backlight > Out Of Charger		

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>
	It enables or disables the handset to turn on the keypad light (digital key, # key, * key, TRAN key, and Mute key) when any key is pressed.	
Note: It will take effect on all handsets that are registered to the same phone. It work ic.auto_provision.handset_configured.enable" is set to 1 (Enabled).		
Permitted	-1-Do not modify the configuration.0-Disabled	
	1-Enabled	
Default	-1	
Supported Devices	W53H, W56H	
Handset UI	OK > Settings > Display > Keypad LED	

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>
Description	It configures the wallpaper displayed on the handset LCD screen. Note: It will take effect on all handsets that are registered on the same phone. It works only if "stat- ic.auto_provision.handset_configured.enable" is set to 1 (Enabled).	
	1-Wallpaper1 2-Wallpaper2 3-Wallpaper3 4-Wallpaper4 5-Wallpaper5	
Default	-1, do not change the wallpaper set on each handset.	
Supported Devices	W53H, W56H	
Handset UI	OK > Settings > 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 W56H/W53H 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 phone. It works only if "stat- ic.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	W53H, W56H
Handset UI	OK > Settings > Display > Screen Saver

Handset Name

The handset will be assigned a name by default if successfully registered to the phone. 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 corresponding default handset name.	
Permitted Values	String within 24 characters	
	The handset name for handset 1 is Corded phone.	
	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.	
Web UI	Status > Handset > Handset Name > Handset X ^[1]	
T57W/T54W:		
	Menu > DECT Settings > Handsets > Handset $X^{[1]}$	
Phone UI	<u>T53W/T53:</u>	
	Menu > Settings > DECT Settings > Handsets > Handset X ^[1]	
	W53H/W56H:	
Handset UI	OK > Settings > Handset Name	
nanuset Of	DD Phone/CP930W:	
	Menu > Settings > Basic Settings > Phone Name	

^[1]X is the handset ID. X=2-5.

Number Assignment

After the handset is registered to the phone, 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 phone.

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	
	2 -Line 2	
Permitted	3 -Line 3	
Values	4 -Line 4	
	5 -Line 5	
	Multiple line IDs are separated by commas.	
	The incoming line for Corded phone is line 1-line5.	
	The incoming line for handset 2 is line 2.	
Default	The incoming line for handset 3 is line 3.	
	The incoming line for handset 4 is line 4.	
	The incoming line for handset 5 is line 5.	
Web UI	Account > Number Assignment > Incoming lines	
	W53H/W56H:	
Handset UI	OK > Settings > Telephony > Incoming Lines (Defau	IIt PIN:0000) > HandsetX ^[1]
nandset Of	DD Phone:	
	Menu > Settings > Advanced Settings (default pass	word: 0000) > Incoming Lines
Parameter	handset.X.dial_out_lines ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the lines to place outgoing calls for a specific handset.	
	Multiple line IDs are separated by commas. 1-Line 1	
Permitted	2 -Line 2	
Values	3-Line 3	
	4 -Line 4	
	5 -Line 5	
	The outgoing line for Corded phone is line 1-line5.	
Default	The outgoing line for handset 2 is line 2.	
	The outgoing line for handset 3 is line 3.	

	The outgoing line for handset 4 is line 4.	
	The outgoing line for handset 5 is line 5.	
Web UI	Account > Number Assignment > Outgoing lines	
Parameter	handset.X.dial_out_default_line ^[1] <y000000000xx>.cfg</y000000000xx>	
Description	It configures the default line to place outgoing calls for a specific handset.	
Permitted Values	Integer from 1 to 5	
Default	x	
Supported Devices	All handsets except CP930W	
Web UI	Account > Number Assignment > Outgoing lines > Default	
Handset UI	W53H/W56H:	
	OK > Settings > Telephony > Default Line	

^[1]X is the handset ID. X=1-5.

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.	
Velues	0-Never 1-Always	
Default	1	
Supported Devices	W53H, W56H	
Web UI	Features > General Information > End Call On Hook	

Advisory Tones

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.
- 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. It is only applicable to CP930W.

- 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.
- 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.

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>	
	It enables or disables the handset to play a tone when any key is pressed.		
Description	Note: It will take effect on all handsets that are registered on the same phone. It works only if "stat- ic.auto_provision.handset_configured.enable" is set to 1 (Enabled) and the silent mode is off.		
Permitted Values	 -1-Do not modify the handset configuration (Keep the original configuration of the handset). 0-Disabled 		
Default	1-Enabled -1		
Supported Devices	W53H, W56H, CP930W		
	W56H/W53H:		
Handset UI	OK > Settings > Audio > Advisory Tones > Keypad	Tone	
	CP930W:		
	Menu > Settings > Basic Settings > Sound > Adviso	pry Tones	
Parameter	custom.handset.confirmation_tone.enable	<y000000000xx>.cfg</y000000000xx>	
Deservitetien	It enables or disables the handset to play a tone when a user saves settings or places the handset in the charger cradle.		
Description	Note: It will take effect on all handsets that are registered on the same phone. It works only if "stat- ic.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	W53H, W56H, CP930W		
	W56H/W53H:		
Handset UI	OK > Settings > Audio > Advisory Tones > Confirmation CP930W :		
	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 phone. It wo		stered on the same phone. It works only if "stat-	

	ic.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	W53H, W56H, CP930W	
	W56H/W53H:	
Llando at III	OK > Settings > Audio > Advisory Tones > Low Battery	
Handset UI	CP930W:	
	Menu > Settings > Basic Settings > Sound > Low Battery	

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	
Handset UI	W53H/W56H: OK > Settings > System Settings > Change Base PIN DD Phone: Menu > Settings > Advanced Settings (default password: 0000) > Change Password <u>CP930W:</u> Menu > Settings > Advanced Settings (default PIN: 0000) > Change PIN	
Phone UI	T57W/T54W: Menu > DECT Settings > Change Base PIN T53W/T53: Menu > Settings > DECT Settings > Change Base PIN	

Parameter	base.double_pin_code.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables double PIN feature.	
Permitted Values	 0-Disabled, users use the PIN configured by "base.pin_code" to register the handset or access some features. 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	<y000000000xx>.cfg</y000000000xx>
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	

DECT Intercom

Intercom is a useful feature in an office environment to quickly connect with the operator or the secretary. Users can make internal intercom calls and external intercom calls on the handset. Internal intercom calls are made among handsets registered to the same phone.

The handset can automatically answer an incoming external intercom call and play warning tone.

Topic

DECT Intercom Configuration

DECT Intercom Configuration

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

Parameter	custom.handset.auto_intercom	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the auto intercom feature on the handset.	
	-1-Do not modify the configuration.	
Permitted	0 -Off, auto intercom feature is disabled. Users need to answer incoming internal intercom calls manu- ally.	
Values	1-On(Beep Off), the phone/handset answers an incoming internal intercom call automatical a warning tone.	
	2 -On(Beep On), the phone/handset answers an incoming internal intercom call automatically and plays a warning tone. It works when the silence mode is off.	
Default	-1	
Handset UI	OK > Settings > Telephony > Auto Intercom	
	<u>T57W/T54W:</u>	
Phone UI	Menu > DECT Settings > Auto Intercom > Auto Intercom	
I none of	T53W/T53:	
	Menu > Settings > DECT Settings > Auto Intercom > Auto Intercom	

Parameter	features.intercom.headset_prior.enable	<y000000000xx>.cfg</y000000000xx>
Description	It configures the channel mode when an incoming intercom call is automatically answered. Note : It works only if "custom.handset.auto_intercom" is set to 1 or 2. For the phone, the headset mode should be activated for use; for the handset registered to the phone, the headset should be con- nected in advance.	
Permitted Values	0-Speaker Mode 1-Headset Mode	
Default	1	

Shared Directory

Users can manage and call the contacts in the Shared Directory on the phone and all the registered handsets.

The shared directory can store up to 1000 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 handsets except DD phones	
Parameter	shared_contact_list.url	<y000000000xx>.cfg</y000000000xx>
Description	It configures the access URL of the shared contact file (*.xml) of the phone and registered handsets. 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 handsets 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.
	office_number	Specify the office number.
	mobile_number	Specify the mobile number.
	other_number	Specify the other number.
Contact	line	Do not modify this attribute and value.
	ring	Do not modify this attribute and value.
	default_photo	Do not modify this attribute and value.
	selected_photo	Do not modify this attribute and value.
	group_id_name	Do not modify this attribute and value.

Customizing Shared Contact File

- 1. Open the shared contact file.
- To add a contact, add <contact display_name="" office_number="" mobile_number="" other_number="" line="1" ring="Auto" default_photo="Default:default_contact_image.png" selected_photo="0" group_id_name="All
 Contacts"/ > 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.

Satellite Mode

Yealink desk phone can be bound with a handset. The handset can share the line and contacts with the phone. The call can be shifted between the phone and handset.

Important: Satellite mode is available only when one handset is registered to the phone.

The following is an example of receiving an incoming call:



Account: 1001

: Call Rings

When a call is made from 1001 to 1002, both the phone and the handset ring. Users can answer the call either on the phone or handset.

When using satellite mode, note the following:

- The incoming and outgoing lines originally assigned to the handset are disabled.
- Calls made from the handset are handled as calls made from the phone (in the above example, 1002). (The caller information for such calls will be that of extension 1002.)
- You can configure a mode for whether to continue the conversation on the handset when the phone goes offhook, or to send a busy signal to one of the paired phones while the device is not in a call but tries to initiate a call (prohibited on that device).

Topics

Satellite Mode Configuration Example: Configuring the Satellite Mode Feature

Satellite Mode Configuration

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

Parameter	features.ms.X.slave_handset_number[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It specifies which handset to use the satellite mode with the phone.		
	0-None, the satellite mode is disabled.		
	2-Handset 2		
Permitted Values	3-Handset 3		
	4-Handset 4		
	5-Handset 5		
Default	0		

Web UI	Status > Handset > Satellite Mode > Select Handset	
Phone UI	<u>T57W/T54W:</u> Menu > DECT Settings > Satellite Mode > Select handset <u>T53W/T53:</u> Menu > Settings > DECT Settings > Satellite Mode > Select handset	
Parameter	features.ms.X.mode ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the satellite mode for the phone. n Note: It works only if "features.ms.X.slave_handset_number" is configured correctly.	
Permitted Values	 0-Busy, users cannot switch the active call between the phone and handset. Regardless of the phone or the handset, the device which is during the call can initiate a new call. If users not in a call try to initiate a call on the phone/handset, the phone/handset will prompt "Path Busy". 1-Take over call, when the handset is during the call, users can retrieve the call after off-hook on the phone. When the phone is during the call, users can push the call to the handset. 	
Default	1	
Web UI	Status > Handset > Satellite Mode > Mode	
Phone UI	T57W/T54W: Menu > DECT Settings > Satellite Mode > Select mode T53W/T53: Menu > Settings > DECT Settings > Satellite Mode > Select mode	

 $^{[1]}X$ is the handset ID. X is equal to 1.

Example: Configuring the Satellite Mode Feature

You can configure the satellite mode only when one handset is registered to the phone.

The following table lists the supported phones and handsets:

Phone	Handset
T57W	
T54W	W53H
T53W	W56H
T53	

As an example, two W56H handsets along with two T54W phones are in use.



Group 1:

features.ms.1.slave_handset_number = 2

features.ms.1.mode = 0

After provisioning, users cannot switch the active call between the phone and handset. Only the device which is during the call can initiate a new call. If users not in a call try to initiate a call on the phone/handset, the phone/handset screen will prompt "Path Busy".

Group 2:

features.ms.1.slave_handset_number = 4

features.ms.1.mode = 1

After provisioning, when the handset is during the call, users can retrieve the call after off-hook on the phone. When the phone is during the call, users can push the call to the handset.

Repeater Settings Parameters

Parameter	static.base.repeater_mode.enable ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the repeater mode to extend the radio coverage of the phone.	
	0-Off	
Permitted Values	1-RT10/RT20	
	2 -RT30	
Default	0	
Phone UI	T57W/T54W: Menu > DECT Settings > Repeater > Repeater Mode T53W/T53: Menu > Settings > DECT Settings > Repeater > Repeater Mode	

 $\ensuremath{^{[1]}}\xspace$ 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>	
	It enables or disables the eco mode to greatly reduce the transmission power and signal output when the phone is in the talk mode.		
D	-1-Do not modify the handset configuration (Keep t	he original configuration of the handset).	
Permitted Values	0-Disabled		
	1-Enabled		
Default	-1		
Supported Devices	All handsets except DD phones		
Handset UI	OK > Settings > System Settings (Basic Settings) >	Eco Mode	
Parameter	custom.handset.color_scheme	<y000000000xx>.cfg</y000000000xx>	
	It configures the color scheme of the handset.		
Description	Note : It will take effect on all handsets that are registered on the same phone. It works only if the value of the parameter "static.auto_provision.handset_configured.enable" is set to 1 (Enabled).		
	 -1-Do not modify the handset configuration (Keep t 	he original configuration of the handset).	
Permitted Values	0-Color scheme 1		
	1-Color scheme 2		
Default	-1		
Supported Devices	W52H		
Handset UI	OK > Settings > Display > Color Schemes		
Parameter	custom.handset.missed_call_notify_light.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the message key LED to flas	h red when the handset misses a call.	
Description	ion Note: It will take effect on all handsets that are registered on the same phone. It works only if " ic.auto_provision.handset_configured.enable" is set to 1 (Enabled).		
	-1-Do not modify the handset configuration (Keep t)	he original configuration of the handset).	
Permitted Values	0-Disabled		
	1-Enabled		
Default	-1		
Supported Devices	W52H		
Handset UI	OK > Settings > Display > Notification Light > Missed Call		
Parameter	custom.handset.voice_mail_notify_light.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the message key LED to flas		
Description	Note: It will take effect on all handsets that are registered on the same phone. It works only if "stat- ic.auto_provision.handset_configured.enable" is set to 1 (Enabled).		
Permitted	-1-Do not modify the handset configuration (Keep the original configuration of the handset).		
·			

	0-Disabled		
Values	1-Enabled		
Default	-1		
Supported Devices	W52H		
Handset UI	OK > Settings > Display > Notification Light > Voice Mail		
Parameter	custom.handset.language <pre><y00000000xx>.cfg</y00000000xx></pre>		
	It configures the language used on the DECT handset user interface.		
Description	Note: It will take effect on all handsets that are registered on the same phone. It works only if "stat- ic.auto_provision.handset_configured.enable" is set to 1 (Enabled). For W56H/W53H/CP930W handset:		
	0-English		
	1-French		
	2-German		
	3-Italian		
	4-Polish		
	5-Portuguese		
	6-Spanish		
	7-Turkish		
	8-Swedish		
	9-Russian		
Permitted	For W52H handset:		
V-1	0-English		
	1-French		
	2-German		
	3-Italian		
	4-Polish		
	5-Portuguese		
	6-Spanish		
	7-Turkish		
	8-Czech		
	9-Swedish		
	10-Hebrew		
	11-Russian		
Default	0		
Supported Devices	W52H, W53H, W56H, CP930W		

[MEDIANE DIANE CH.		
ľ	W52H/W53H/W56H:		
Handset UI	OK > Settings > Language		
	<u>CP930W:</u>		
	Menu > Settings > Basic Settings > Language		
		000000000xx>.cfg	
Description	It enables or disables a user to answer incoming calls by lifting the handset from the charger cradle without pressing 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).		
	-1-Do not modify the handset configuration (Keep the original configuration of the handset).		
Permitted Values	0-Disabled		
	1-Enabled		
Default	-1		
Supported Devices	W53H, W56H		
Handset UI	OK > Settings > Telephony > Auto Answer		
Parameter	custom.handset.time_format <y00000000xx>.cfg</y00000000xx>		
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).		
rennitieu	0 -Hour 12, the time will be displayed in 12-hour format 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		
	Settings > Time&Date > Time Format		
	<u>W53H/W56H:</u>		
1	OK > Settings > Display > Time Format		
Handset UI	DD Phone:		
	Menu > Settings > Basic Settings > Time&Date > Time & Date Format > Time Format		
-	<u>CP930W:</u>		
	Menu > Settings > Basic Settings > Display > Time Format		
Parameter	custom.handset.date_format <y< th=""><th>000000000xx>.cfg</th></y<>	000000000xx>.cfg	
Description	It configures the date format for all registered handsets.		
(0-WWW MMM DD		
	1-DD-MMM-YY		
	2-YYYY-MM-DD		
Permitted Values	3-DD/MM/YYYY		
	4-MM/DD/YY		
ļ	5-DD MMM YYYY		

	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" repre	sents a two-digit year.	
Default	0		
Web UI	Settings > Time&Date > Date Format		
	W53H/W56H:		
	OK > Settings > Display > Date Format		
Handset UI	DD Phone:		
	Menu > Settings > Basic Settings > Time&Date > Ti	me & Date Format > Date Format	
	CP930W:		
	Menu > Settings > Basic Settings > Display > Date	Format	
Parameter	handset.X.hac.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the HAC (Hearing Aid Comp	atibility) handset settings.	
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	All handsets except DD phones		
Parameter	static.auto_provision.handset_configured.enable <y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the handsets to keep user pe	rsonalized settings after auto provisioning.	
-	Note: It is only applicable to the custom handset re		
	0 -Disabled, the phone will not deliver custom handset configurations via auto provisioning/handset reboot to the handset. The custom handset settings can be only changed via the handset user interface.		
Values	1-Enabled, the phone will deliver the custom handset configurations via auto provisioning to the hand- set. Handset reboot or registration will also trigger the phone to deliver the stored handset settings to the handset. 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		
Supported Devices	All handsets except DD phones		
Parameter	static.auto_provision.custom.handset.protect		
It enables or disables the handsets to keep user personalized settings after handsets to keep us			
	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.		
	0-Disabled		
Values	1-Enabled		

Default	1	
Supported Devices	All handsets except DD phones	
Parameter	handset.X.contact_list.url ^[2] <y00000000xx>.cfg</y00000000xx>	
Description	It configures the access URL of the contact file (*.xml) for a specific handset.	
	handset.2.contact_list.url= http://192.168.10.25/contact.xml	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Directory > Dect Directory > Import Contacts > Import to (Handset X) > Select .xml file form	

[1]X is the handset ID. X=1 to 5.

 $^{[2]}X$ is the handset ID. X=2 to 5.

Custom Handset Related Configurations

This section shows you the custom handset related configurations.

Parameter	Related Topic	
custom.handset.date_format		
custom.handset.time_format	Handset Settings Parameters	
custom.handset.eco_mode.enable	Handset Settings Parameters	
custom.handset.auto_answer.enable	Auto Answer Configuration	
custom.handset.missed_call_notify_light.enable	Handaat Cattinga Davamatara	
custom.handset.voice_mail_notify_light.enable	Handset Settings Parameters	
custom.handset.color_scheme	Handset Settings Parameters	
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	Handaat Backlight Configuration	
custom.handset.backlight_out_of_charger.enable	Handset Backlight Configuration	
custom.handset.screen_saver.enable	Handset Screen Saver Configuration	
custom.handset.auto_intercom	DECT Intercom Configuration	
custom.handset.language	Handset Settings Parameters	

Handset Firmware Upgrade Configuration

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

Parameter	over_the_air.url	<y00000000xx>.cfg</y00000000xx>	
	It configures the access URL of the handset firmwa		
	Note: The priority of parameter "over_the_air.url" is lower than "over_the_air.url.w56h"/over_the_air- .url.w53h/"over_the_air.url.w52h".		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Settings > Upgrade > Select and update handset fi	rmware.	
Parameter	over_the_air.url.w56h	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the W56H handset Note: The priority of parameter "over_the_air.url.w!		
Permitted	URL within 511 characters		
Default	Blank		
Parameter	over_the_air.url.cp930w	<y000000000xx>.cfg</y000000000xx>	
Description	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.handset_tip		
	It enables or disables to pop up a tip when upgrading the handset firmware from the provisioning server. Note: It works only if "over_the_air.base_trigger" and "over_the_air.handset_trigger" are set to 0 (Dis-		
Description	server. Note: It works only if "over_the_air.base_trigger" a		
Description	server.		
Description	server. Note: It works only if "over_the_air.base_trigger" an abled).	nd "over_the_air.handset_trigger" are set to 0 (Dis-	
Description Permitted	server. Note: It works only if "over_the_air.base_trigger" an abled). 0-Disabled	nd "over_the_air.handset_trigger" are set to 0 (Dis-	
Description Permitted Values Default	server. Note: It works only if "over_the_air.base_trigger" an abled). 0-Disabled 1-Enabled, the handset will pop up the message "H	nd "over_the_air.handset_trigger" are set to 0 (Dis-	
Description Permitted Values Default Supported Devices	server. Note: It works only if "over_the_air.base_trigger" an abled). 0 -Disabled 1 -Enabled, the handset will pop up the message "H 1	nd "over_the_air.handset_trigger" are set to 0 (Dis-	
Description Permitted Values Default Supported Devices Parameter Description	server. Note: It works only if "over_the_air.base_trigger" and abled). 0 -Disabled 1 -Enabled, the handset will pop up the message "H 1 All handsets except DD phones	nd "over_the_air.handset_trigger" are set to 0 (Dis- landset has a new firmware, update now?". <y0000000000xx>.cfg vare compulsively when the handset is registered</y0000000000xx>	
Description Permitted Values Default Supported Devices Parameter Description Permitted	server. Note: It works only if "over_the_air.base_trigger" and abled). 0-Disabled 1-Enabled, the handset will pop up the message "H 1 All handsets except DD phones over_the_air.handset_trigger It enables or disables to upgrade the handset firmw to a phone or turned on successfully. It is only applicable when the current handset firmw	and "over_the_air.handset_trigger" are set to 0 (Dis- landset has a new firmware, update now?". <y0000000000xx>.cfg rare compulsively when the handset is registered rare is different from the one on the provisioning (Enabled), it will pop up a tip on the handset to .handset_tip" is set to 0, you may go to Settings ></y0000000000xx>	

Default	1	
Supported Devices	All handsets except DD phones	
Parameter	over_the_air.base_trigger	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables to upgrade the handset firmw handset firmware from the provisioning server.	vare compulsively when the phone detects a new
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 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.url.w52h <y00000000xx>.cfg</y00000000xx>	
Description	It configures the access URL of the W52H handset firmware file. Note: The priority of parameter "over_the_air.url.w52h" is higher than "over_the_air.url".	
Permitted Values	URL within 511 characters	
Default	Blank	
Parameter	over_the_air.url.w53h <y00000000xx>.cfg</y00000000xx>	
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".	
Permitted Values	URL within 512 characters	
Default	Blank	

Audio Features

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

Topics

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

Alert Tone

You can configure the following audio alert for the phone:

- Redial tone: allow the phones to continue to play the dial tone after inputting the preset numbers on the dialing screen.
- 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.
- Send tone: allow the IP phone to play a key tone when you press the send key. It works only if the key tone is enabled.
- Dial tone: allow the IP phone to play a specific dial tone for a specified time.
- . Key tone: allow the IP phone to play a key tone when you press any key.

Topic

Alert Tone Configuration

Alert Tone Configuration

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

Parameter	features.redial_tone	<y000000000xx>.cfg</y000000000xx>
	It configures that after you enter a specific number on the dialing screen, the phone will replay tone.	
Description	features.redial_tone = 123 The phone will continue to play the dial tone after e	ntering "123" on the dialing screen.
Permitted Values	Integer within 6 digits	
Default	Blank	
Web UI	Features > Audio > Redial Tone	

Parameter	account.X.dial_tone ^[1]	<mac>.cfg</mac>
Description	It configures the dial tone for the phone.	
	0-Default (depend on the country tone by "voice.tone.country")	
Permitted Values	11-440/250 0/250	
values	2 -1000/250,0/250	
Default	0	
Parameter	features.call.dialtone_time_out	<y000000000xx>.cfg</y000000000xx>
Description	It configures the duration time (in seconds) that a d	ial 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.
	Note: It works only if "account.X.display_mwi.enable" is set to 1 (Enabled).	
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Features > General Information > Voice Mail Tone	
Parameter	features.send_key_tone	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to play a key tone	when a user presses a send key.
	Note: It works only if "features.key_tone" is set to 1 (Enabled).	
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Features > Audio > Send Tone	
Parameter	features.key_tone	<y000000000xx>.cfg</y000000000xx>
Description	кеураа.	
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Features > Audio > Key Tone	
	Color Screen Phones:	
Phone UI	Menu > Basic > Sound > Key Tone	
	Black-and-white Screen Phones:	
	Menu > Settings > Basic Settings > Sound > Key Tone	

Touch Tone

If you enable touch tone and tap the keys (except the off-hook key), the phone will produce a sound when it is not on the dialing/pre-dialing screen and not in a call.

It is only applicable to CP920 phones.

Topic

Touch Tone Configuration

Touch Tone Configuration

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

Parameter	features.touch_tone	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the touch tone.	
Permitted Values	 0-Disabled 1-Enabled, when you tap the keys (except the Off-r is not on the dialing/pre-dialing screen and not in a 	
Default	1	
Supported Devices	CP920	
Web UI	Features > Audio > Touch Tone	

Ring Tones

Ring tones are used to play for incoming calls. You can select a built-in ring tone or a custom ring tone for the phone system or specific line registration. To set the custom ring tones, you need to upload the custom ring tones to the IP phone in advance.

You can also specify a period of time after which the phone will stop ringing if the call is not answered.

Topics

Custom Ringtone Limit Ringtone Configuration

Custom Ringtone Limit

The ring tone format must meet the following:

Phone Model	Format	Single File Size
T57W/T54W/T48U/T48S/T46U/T46S	.wav	<=8MB
T48G/T46G/T33P/T33G/T31P/T31G/T31/T30P/T30/T29G	.wav	<=8MB (2.4MB of space should be reserved for the phone)
T53W/T53/T43U/T42U/T42S/T41S/T42G/T41P/T40P/T40G /T27G/T23P/T23G/T21(P) E2/T19(P) E2/CP920	.wav	<=100KB

Note: The ring tone file must be in PCMU/PCMA audio format, mono channel, 8K sample rate, and 16-bit resolution.

Ringtone Configuration

example, Customring.wav) Default Ring1.wav T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Settings > Preference > Upload Ringtone > System Ring Other Phones: Settings > Preference > Ring Type Color Screen Phones: Menu > Basic > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Parameter account.X.ringtone.ring_type[1] Zaccount.1.ringtone.ring_type = Ring3.wav It configures a ring tone. Example: account.1.ringtone.ring_type = Common It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phonesting.ring_type". Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (rexample, Customring.wav) Perfault Common Web UI Account > Basic > Ring Type Color Screen Phones: Color Screen Phones:	Parameter	phone_setting.ring_type	
Permitted Values Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Ring1.wav Ring1.wav Ring1.wav Web UI Settings > Preference > Upload Ringtone > System Ring Other Phones: Settings > Preference > Ring Type Color Screen Phones: Settings > Preference > Ring Type Color Screen Phones: Menu > Basic > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Parameter account X.ringtone.ring_type[1] <mac>.cfg It configures a ring tone. Example: account X.ringtone.ring_type = Common It means configuring Ring3.wav for account1. account 1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phonesting.ring_type". Common, Ring1.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones: Color Screen Phones: <th>Description</th><th colspan="2">It configures a ring tone for the phone.</th></mac>	Description	It configures a ring tone for the phone.	
Yalues For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (rexample, Customring.wav) Default Ring1.wav Meab T57WT54WT53WT53/T48U/T46U/T43U/T42U: Settings > Preference > Upload Ringtone > System Ring Other Phones: Settings > Preference > Ring Type Color Screen Phones: Menu > Basic > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Parameter account X.ringtone.ring_type ^[1] <mac>.cfg It configures a ring tone. Example: account 1.ringtone.ring_type = Ring3.wav Description It means configuring Ring3.wav for account1. account 1.ringtone.ring_type = Common Ring1.wav, Silent.wav, Silent.wav, Silent.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Permitted Yalues For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Kocount > Ring1.wav Web UI Account > Basic > Ring Type Account > Ring 1.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Common Web UI Account > Basic > Ring Type Color Screen Phones:</mac>			
example, Customring.wav) pefault Ring1.wav T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Settings > Preference > Upload Ringtone > System Ring Other Phones: Settings > Preference > Ring Type Color Screen Phones: Menu > Basic > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Black-and-white Screen Phones: account1.ringtone.ring_type = Ring3.wav It configures a ring tone. Example: account1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phonesting.ring_type". Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (reample, Customring.wav) Default Common Meb UI Account > Basic > Ring Type Color Screen Phones: Color		For T3 phones:	
Image: Setting solution of the set		Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav)	
Web UI Settings > Preference > Upload Ringtone > System Ring Other Phones: Settings > Preference > Ring Type Phone UI Color Screen Phones: Menu > Basic > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Parameter account.Xringtone.ring_type[1] <mac>.cfg It configures a ring tone. Example: account.1.ringtone.ring_type = Ring3.wav Description It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phonesting.ring_type". Permitted Values Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Permitted Common Web UI Account > Basic > Ring Type Color Screen Phones: Color Screen Phones:</mac>	Default	Ring1.wav	
Web UI Other Phones: Settings > Preference > Ring Type Color Screen Phones: Menu > Basic > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Parameter account.X.ringtone.ring_type[1] <mac>.ofg It configures a ring tone. Example: account.1.ringtone.ring_type = Ring3.wav Description It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones: Color Screen Phones:</mac>		T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:	
Other Phones: Settings > Preference > Ring Type Color Screen Phones: Menu > Basic > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Parameter account.X.ringtone.ring_type ^[1] <mac>.cfg It configures a ring tone. Example: account.1.ringtone.ring_type = Ring3.wav It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phonesting.ring_type". Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (rexample, Customring.wav) Default Common Web UI Account > Basic > Ring Type Quarter Screen Phones: Color Screen Phones:</mac>	WebIII	Settings > Preference > Upload Ringtone > System Ring	
Phone UI Color Screen Phones: Menu > Basic > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Parameter account.X.ringtone.ring_type[1] <mac>.cfg It configures a ring tone. Example: account.1.ringtone.ring_type = Ring3.wav Description It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Permitted Values Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones: Color Screen Phones:</mac>		Other Phones:	
Phone UI Menu > Basic > Sound > Ring Tones > Common Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Parameter accountX.ringtone.ring_type ^[1] <mac>.cfg It configures a ring tone. Example: account 1.ringtone.ring_type = Ring3.wav Description It means configuring Ring3.wav for account1. account 1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Permitted Values Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones: Color Screen Phones:</mac>			
Phone UI Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Parameter account.X.ringtone.ring_type ^[1] <mac>.cfg It configures a ring tone. Example: account.1.ringtone.ring_type = Ring3.wav Description It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones: Color Screen Phones:</mac>		Color Screen Phones:	
Black-and-white Screen Phones: Menu > Settings > Basic Settings > Sound > Ring Tones > Common Parameter account.X.ringtone.ring_type ^[1] <mac>.cfg It configures a ring tone. Example: account.1.ringtone.ring_type = Ring3.wav treass contiguring Ring3.wav for account1. Description It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones: Color Screen Phones:</mac>	Phone UI	Menu > Basic > Sound > Ring Tones > Common	
Parameter account.X.ringtone.ring_type[¹] <mac>.cfg It configures a ring tone. Example: account.1.ringtone.ring_type = Ring3.wav Description It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Permitted Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones: Color Screen Phones:</mac>		Black-and-white Screen Phones:	
Pescription It configures a ring tone. Example: account.1.ringtone.ring_type = Ring3.wav It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones:			
Description Example: account.1.ringtone.ring_type = Ring3.wav Description It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Permitted Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones:	Parameter	account.X.ringtone.ring_type ^[1] <mac>.cfg</mac>	
Pescription account.1.ringtone.ring_type = Ring3.wav It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Permitted Values For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Pefault Common Web UI Account > Basic > Ring Type		It configures a ring tone.	
Description It means configuring Ring3.wav for account1. account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Web UI Account > Basic > Ring Type Color Screen Phones:		Example:	
account.1.ringtone.ring_type = Common It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Web UI Account > Basic > Ring Type Color Screen Phones:			
It means account1 will use the ring tone selected for the phone configured by the parameter "phone setting.ring_type". Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones:	Description	It means configuring Ring3.wav for account1.	
setting.ring_type". Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Web UI Account > Basic > Ring Type Color Screen Phones:		account.1.ringtone.ring_type = Common	
Permitted Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones:		It means account1 will use the ring tone selected for the phone configured by the parameter "phone_ setting.ring_type".	
Values For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (rexample, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones:		Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav,	
Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (sexample, Customring.wav) Default Common Web UI Account > Basic > Ring Type Color Screen Phones:		For T3 phones:	
Web UI Account > Basic > Ring Type Color Screen Phones:		Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav)	
Color Screen Phones:	Default	Common	
	Web UI	Account > Basic > Ring Type	
		Color Screen Phones:	
Menu > Basic > Sound > Ring Tones > AccountX Phone UI	Dhone III	Menu > Basic > Sound > Ring Tones > AccountX	
Black-and-white Screen Phones:		Black-and-white Screen Phones:	
Menu > Settings > Basic Settings > Sound > Ring Tones > AccountX		Menu > Settings > Basic Settings > Sound > Ring Tones > AccountX	
Parameter pstn.account.X.ring_type ^[2] <mac>.cfg</mac>	Parameter	pstn.account.X.ring_type ^[2] <mac>.cfg</mac>	
Description It configures a ring tone for PSTN account X.	Description	It configures a ring tone for PSTN account X.	

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

	Example:		
	pstn.account.1.ring_type = Ring3.wav		
	It means PSTN account 1 will use the Ring3.wav as the ring tone.		
	pstn.account.1.ring_type = Common		
	It means PSTN account 1 will use the ring tone selected for the IP phone configured by the parameter "phone_setting.ring_type".		
Permitted Values	Common, Ring1.wav, Ring2.wav, Ring3.wav, Ring Ring8.wav, Silent.wav, Splash.wav or custom ring		
Default	Common		
Supported Devices	CP920		
Web UI	Account > Basic > Ring Type		
Phone UI	Menu > Settings > Basic Settings > Sound > Ring 1	ones > PSTN Account X	
Parameter	ringtone.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the custom ring ton	e file.	
Permitted Values	URL within 511 characters		
Default	Blank		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Settings > Preference > Upload Ringtone > Custom Ring > Upload Ringtone		
	Other Phones:		
	Settings > Preference > Upload Ringtone		
Parameter	ringtone.delete <y00000000xx>.cfg</y00000000xx>		
Description	It deletes all custom ring tone files.		
Permitted Values	http://localhost/all		
Default	Blank		
Parameter	phone_setting.ringing_timeout <y00000000xx>.cfg</y00000000xx>		
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 Values	Integer from 1 to 3600		
Default	120		
Parameter	phone_setting.ring_for_tranfailed	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the ring tone when the phone fails to transfer a call and display "Transfer failed" on the screen.		
Permitted	Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Rin Silent.wav or Splash.wav	g5.wav, Ring6.wav, Ring7.wav, Ring8.wav,	
Values	For T3 phones:		

	Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav
Default	Ring1.wav

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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

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

Supported Alert-Info Headers Format 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: <URL> 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 tone:

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		

Value of N	Ring Tone	Ring Tone	
Value of N	(features.alert_info_tone = 1)	(features.alert_info_tone = 0)	
7	Ring7.wav		
8	Ring8.wav		
9	Silent.wav		
10	Splash.wav		
N<1 or N>10	Ring1.wav		

For T3 phones:

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	Silent.wav		
6	Splash.wav		
N<1 or N>6	Ring1.wav		

Examples:

Alert-Info: http://127.0.0.1/Bellcore-dr1

Alert-Info: test/Bellcore-dr1

Alert-Info: Bellcore-dr1

Alert-Info: Bellcore-dr1;x-line-id=1

Alert-Info: <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)
Bellcore-dr1(stand-	1	Ringing	• 2s On	1800	2000	2200
ard)		Silent	• 4s Off	3600	4000	4400
	2	Ringing	Long	630	800	1025
Bellcore-dr2		Silent		315	400	525
Belicore-ur2		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
Delles to dr?		Ringing	Short	315	400	525
Bellcore-dr3		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
Belicore-dr4		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 ring splash tone that reminds 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) in 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 tone:

Value of N	Ring Tone
1	Ring1.wav
Ring1.wav	

Value of N	Ring Tone
2	Ring2.wav
Ring2.wav	hingz.wav
3	Diagoway
Ring3.wav	Ring3.wav
4	Directore
Ring4.wav	Ring4.wav
5	Directore
Ring5.wav	Ring5.wav
6	
Ring6.wav	Ring6.wav
7	D: 7
Ring7.wav	Ring7.wav
8	
Ring8.wav	Ring8.wav
9	
Silent.wav	Silent.wav
10	
Splash.wav	Splash.wav
N<1 or N>10	Ring1.wav

For T3 phones:

Value of N	Ring Tone
1	Ring1.wav
Ring1.wav	·
2	Bing? way
Ring2.wav	Ring2.wav
3	Bing? way
Ring3.wav	Ring3.wav
4	Pingd wov
Ring4.wav	Ring4.wav
5	Silent.way
Silent.wav	Silent.wav
6	Calach way
Splash.wav	Splash.wav
N<1 or N>6	Ring1.wav

Alert-Info: <URL>

When the Alert-Info header contains a remote URL, the phone will try to download the WAV ring tone file from the URL and then play the remote ring tone if "account.X.alert_info_url_enable" is set to 1 (or the item called "Distinctive Ring Tones" on the web user interface is Enabled), or play the preconfigured local ring tone in about 10 seconds if "account.X.alert_info_url_enable" is set to 0 or if the IP phone fails to download the remote ring tone.

Example:

Alert-Info: http://192.168.0.12:8080/Custom.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 in about 10 seconds.

Example:

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

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

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

Auto Answer

If the INVITE request contains the following type of strings, 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 the 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	account.X.alert_info_url_enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to download the ring tone from the URL contained in the Alert-Info header.		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Account > Advanced > Distinctive Ring Tones		
Parameter	features.alert_info_tone	<y000000000xx>.cfg</y000000000xx>	
Description	It enables and disables the phone to map the keywords in the Alert-Info header to the specified Bellcore ring tones.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	distinctive_ring_tones.alert_info.X.text ^[2]	<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		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Settings > Ring > Internal Ringer X ^[2] > Text		
	Other Phones:		
	Settings > Ring > Internal Ringer Text		
Parameter	distinctive_ring_tones.alert_info.X.ringer ^[2] <y000000000xx>.cfg</y000000000xx>		
Description	It configures the desired ring tone for each internal ringer text.		
Permitted Values	It configures the desired ring tone for each internal ringer text. 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 Ring6.wav 7 or Ring7.wav 8 or Ring8.wav 9 or Silent.wav 10 or Splash.wav For T3 phones: 1 or Ring1.wav 2 or Ring3.wav 4 or Ring4.wav 5 or Silent.wav 5 or Silent.wav 6 or Splash.wav		
Default	1		
Web UI	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Settings > Ring > Internal Ringer X ^[2] > File <u>Other Phones:</u> Settings > Ring > Internal Ringer File		

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

 $^{[2]}X$ is the ring tone ID. X=1-10.

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.

If the ringer device is set to Headset or Headset&Speaker, the headset (either a wired headset, Bluetooth headset or USB headset) should be connected to the IP phone and the headset mode also should be activated in advance. The USB headset is only applicable to T57W/T54W/T53W/T53/T48U/T48S/T46U/T46S/T43U/T42S/T42U/T41S phones.

You can press the HEADSET key to activate the headset mode. For more information, refer to the Yealink phonespecific user guide.

It is not applicable to CP920 phones.

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. Note : To use speaker, make sure "features.speaker_mode.enable" is set to 1 (Enabled). To use the headset, make sure "features.headset_mode.enable" is set to 1 (Enabled).			
Permitted Values	D-Use Speaker I-Use Headset 2-Use Headset & Speaker			
Default	0			
Supported Devices	All phones except CP920			
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 Sending 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.	
renniceu	Blank-the user can adjust the ringer volume on the phone.	
Values	0 to 15 -the user cannot adjust the ringer volume on the phone, the ring tone is the configured volume.	
Default	Blank	
Parameter	phone_setting.voice.ring_vol_min	<y000000000xx>.cfg</y000000000xx>
Description	It configures the adjustable minimum ringer volu	me on the phone.

	Note : It only takes effect on the ringer volume of the speaker on the phone. After the headset is connected, the ringer volume can only be controlled by the headset itself.
Permitted Values	Integer from 0 to 15
Default	0
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920

Sending Volume Configuration

You can configure the sending volume of currently engaged audio devices (handset, speakerphone or headset) when the phone is in use.

Parameter	voice.handfree_send ^[1]	<y000000000xx>.cfg</y000000000xx>
	It configures the sending volume of the speaker.	
Description	Note : We recommend that you modify this parameter cautiously. An unsuitable value may render the voice quality bad.	
Permitted Values	Integer from -50 to 50	
Default	0	
Web UI	Features > Audio > Handfree Send Volume (-50~5	0)
Parameter	voice.handfree.autoreset_spk_vol	<y000000000xx>.cfg</y000000000xx>
Description	It configures the speaker's volume level during a ca	ll.
Permitted	0 -The speakerphone volume at the end of a call persists between calls.	
Values	1 to 15-The speakerphone volume does not persist between calls, and resets to this specified leve each new call.	
Default	0	
Parameter	voice.handset_send ^[1]	<y000000000xx>.cfg</y000000000xx>
	It configures the sending volume of the handset.	
Description	Note: We recommend that you modify this parameter cautiously. An unsuitable value may render the voice quality bad.	
Permitted Values	Integer from -50 to 50	
Default	0	
Supported Devices	All phones except CP920	
Web UI	Features > Audio > Handset Send Volume (-50~50)	
Parameter	voice.handset.autoreset_spk_vol	<y000000000xx>.cfg</y000000000xx>
Description	It configures the handset's volume level during a call.	
Permitted	0 -The handset volume at the end of a call persists between calls.	
Values	1 to 15 -The handset volume does not persist between calls, and resets to this specified level each new call.	

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

Default	0	
Supported		
Devices	All phones except CP920	
Parameter	voice.headset_send ^[1]	<y000000000xx>.cfg</y000000000xx>
_	It configures the sending volume of the headset.	
	Note : We recommend that you modify this paramet voice quality bad.	er cautiously. An unsuitable value may render the
Permitted Values	Integer from -50 to 50	
Default	0	
Supported Devices	All phones except CP920	
Web UI	Features > Audio > Headset Send Volume (-50~50)
Parameter	voice.headset.autoreset_spk_vol	<y000000000xx>.cfg</y000000000xx>
Description	It configures the headset's volume level during a ca	ll.
Permitted	0-The headset volume at the end of a call persists I	petween calls.
Values	1 to 15 -The headset volume does not persist between calls, and resets to this specified level each new call.	
Default	0	
Supported Devices	All phones except CP920	
Parameter	voice.side_tone ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the volume of the sidetone.	
Permitted Values	Integer from -100 to 0	
Default	-25	
Parameter	voice.handset.tia4965.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the handset's volume level to level for the current call exceeds the standards.	be reset to level 11 after the call if the volume
	Note : The value configured by the parameter "voice.handset.autoreset_spk_vol" takes precedence over that configured by this parameter.	
	0-Disabled	
Values	1-Enabled, if the handset's volume level for the current call is adjusted to level 12/13/14/15, the volume level automatically resets to 11 after the call. That is, the initial volume level is 11 for the next call.	
Default	1	
Supported Devices	All phones except T48G, T46G, T42G, T41P, T29G	and CP920
Parameter	voice.headset.tia4965.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the headset's volume level to be reset to level 11 after the call if the volume level for the current call exceeds the standards.	
	Note : The value configured by the parameter "voice.headset.autoreset_spk_vol" takes precedence	

	over that configured by this parameter.
Permitted Values	 0-Disabled 1-Enabled, if the headset's volume level for the current call is adjusted to level 12/13/14/15, the volume level automatically resets to 11 after the call. That is, the initial volume level is 11 for the next call.
Default	1
Supported Devices	All phones except T48G, T46G, T42G, T41P, T29G and CP920

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

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
Secondary Dial	When adding a comma "," to the digit map (For more information on digit map, refer to Dial Plan Defined by Digit Map (New Dial Plan Mechanism))
Ring Back	Ring-back tone
Busy	When the callee is busy
Congestion	When the network is congested
Call Wait- ing	Call waiting tone (For more information on call waiting, refer to Call Waiting)
Dial Recall	When receiving a callback
Info	When receiving a special message
Stutter	When receiving a voice mail (For more information on voice mail tone, refer to Alert Tone)
Message	When receiving a text message (For more information on text message, refer to Alert Tone)
Auto Answer	When automatically answering a call (For more information on the auto answer, refer to Auto Answer)
Stutter Dial	When receiving a text message

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.		
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	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		
Description	element = [!]Freq1[+Freq2][+Freq3][+Freq4] /Duration		
200011911011	Freq : the frequency of the tone (ranges from 200 to 4000 Hz). If it is set to 0 Hz, it means the tone is not played.		
	For T40P/T40G/T23P/T23G/T21(P) E2/T19(P) E2:		
	A tone is comprised of at most two different frequencies.		

	For other phones:	
	A tone is comprised of at most four different frequencies.	
	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 !250/200,0/1000, 200+300/500,200+500+800+150	
	Note: It works only if "voice.tone.country" is set to C	
Permitted	String	
Default	Blank	
Web UI	Settings > Tones > Dial	
Parameter	features.partition_tone ^[1]	<y000000000xx>.cfg</y000000000xx>
_	It enables or disables the phone to play the differen	t dial tones when there is no active account.
Description	Note: It works only if "voice.tone.dial" is configured.	
Permitted	0-Disabled	
Values	1-Enabled. If there is an active account, the phone will play the default dial tone. If there is no active account, the phone will play the dial tone configured by "voice.tone.dial".	
Default	0	
Parameter	voice.tone.secondary_dial	<y000000000xx>.cfg</y000000000xx>
	It customizes the secondary dial 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	350+440/3000	
Web UI	Settings > Tones > Secondary Dial	
Parameter	voice.tone.ring	<y000000000xx>.cfg</y000000000xx>
	It customizes the ringback tone.	
	The value format is Freq/Duration. For more informative formation formation and the second structure of the second structure o	ation on the value format, refer to the parameter
	Note : It works only if "voice.tone.country" is set to Custom. If you want to disable this warning it to 0.	
Permitted Values	String	
Default	Blank	
Web UI	Settings > Tones > Ring Back	
Parameter	voice.tone.busy	<y000000000xx>.cfg</y000000000xx>

	It austomizes the tang when the collegie busy	
	It customizes the tone when the callee is busy.	
Description	The value format is Freq/Duration. For more inform "voice.tone.dial".	ation on the value format, refer to the parameter
	Note: It works only if "voice.tone.country" is set to Custom. If you want to disable this warning tone, it to 0.	
Permitted Values	String	
Default	Blank	
Web UI	Settings > Tones > Busy	
Parameter	voice.tone.congestion	<y000000000xx>.cfg</y000000000xx>
	It customizes the tone when the network is congest	ed.
Description	The value format is Freq/Duration. For more inform "voice.tone.dial".	ation on the value format, refer to the parameter
	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 > Congestion	
Parameter	features.congestion_tone.codelist <y00000000xx>.cfg</y00000000xx>	
	It configures the return code to play the congestion tone.	
	Multiple codes are separated by commas.	
Description	Example:	
	features.congestion_tone.codelist = 403,503,603	
	Note: The congestion tone can be customized by "voice.tone.congestion".	
Permitted Values	any code that the server can return	
Default	Blank	
Parameter	voice.tone.callwaiting	<y000000000xx>.cfg</y000000000xx>
	It customizes the call waiting 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 Custom. If you want to disable this warning tone, set it to 0.	
Permitted Values	String	
Default	Blank	
Web UI	Settings > Tones > Call Waiting	
Parameter	voice.tone.dialrecall	<y000000000xx>.cfg</y000000000xx>
Description	It customizes the callback 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 > Dial Recall		
Parameter	voice.tone.info	<y000000000xx>.cfg</y000000000xx>	
	It customizes the info tone. The phone will play the info tone with the special information, for example, the number you are calling is not in service.		
Description	The value format is Freq/Duration. For more informative voice.tone.dial".	ation on the value format, refer to the parameter	
	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 > Info		
Parameter	voice.tone.stutter	<y000000000xx>.cfg</y000000000xx>	
	It customizes the tone when the IP phone receives	a voice mail.	
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 > Stutter		
Parameter	voice.tone.message	<y000000000xx>.cfg</y000000000xx>	
	It customizes the tone when the phone receives a text message. The value format is Freq/Duration. For more information on the value format, refer to the parameter tion "voice.tone.dial".		
Description			
	Note: It works only if "voice.tone.country" is set to Custom. If you want to disable this warning tone, se it to 0.		
Permitted Values	String		
	Blank		
		All phones except CP920	
Supported Devices	All phones except CP920		

Parameter	voice.tone.autoanswer	<y000000000xx>.cfg</y000000000xx>
	It customizes the warning tone for the auto answer.	
Description	The value format is Freq/Duration. For more information on the value format, refer to the pa "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 > Auto Answer	
Parameter	voice.tone.stutterdial	<y000000000xx>.cfg</y000000000xx>
	It customizes the dial tone when DND or call forward is activated or the phone has a new voice mes- sage.	
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 and "voice.tone.stutter_dial_tone.apply_ dnd.enable"/"voice.tone.stutter_dial_tone.apply_to_fwd.enable"/"voice.tone.stutter_dial_tone.appl to_vm.enable" is set to 1 (Enabled). If you want to disable this warning tone, set it to 0.	
Permitted Values	String within 512 characters	
Default	Blank	
Supported Devices	T57W, T54W, T53W, T53, T33P, T33G, T31P, T31G, T31, T30P, T30	
Web UI	Settings > Tones > Stutter Dial	
Parameter	voice.tone.stutter_dial_tone.apply_to_dnd.enable <y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to play a specified	dial tone when DND is activated on the phone.
Description	The dial tone is configured by "voice.tone.stutterdial".	
	Note : It works only if "voice.tone.country" is set to Custom.	
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	
Supported Devices	T57W, T54W, T53W, T53, T33P, T33G, T31P, T31G, T31, T30P, T30	
Parameter	voice.tone.stutter_dial_tone.apply_to_fwd.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the phone to play a specified dial tone when call forward is activated on the phone.	
Description	The dial tone is configured by "voice.tone.stutterdial".	
	Note: It works only if "voice.tone.country" is set to C	ustom.
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	

Supported Devices	T57W, T54W, T53W, T53, T33P, T33G, T31P, T31G, T31, T30P, T30		
Parameter	oice.tone.stutter_dial_tone.apply_to_vm.enable <y00000000xx>.cfg</y00000000xx>		
Description	It enables or disables the phone to play a specified dial tone when the phone has a new voice mes- sage. The dial tone is configured by "voice.tone.stutterdial". Note : It works only if "voice.tone.country" is set to Custom.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Supported Devices	T57W, T54W, T53W, T53, T33P, T33G, T31P, T31G, T31, T30P, T30		

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
G.722.1c		RFC 5577	48 Kbps	32 Ksps	20ms
G.722.1c	G.722.1c	RFC 5577	32 Kbps	32 Ksps	20ms
G.722.1c		RFC 5577	24 Kbps	32 Ksps	20ms
G.722.1	G.722.1	RFC 5577	24 Kbps	16 Ksps	20ms
G722	G.722	RFC 3551	64 Kbps	16 Ksps	20ms
РСМА	G.711 a-law	RFC 3551	64 Kbps	8 Ksps	20ms
PCMU	G.711 u-law	RFC 3551	64 Kbps	8 Ksps	20ms
G729	G.729	RFC 3551	8 Kbps	8 Ksps	20ms

Codec	Algorithm	Reference	Bit Rate	Sample Rate	Packetization Time
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
G723_53/ G723_63	G.723.1	RFC 3551	5.3 Kbps 6.3 Kbps	8 Ksps	30ms
iLBC_15_2kbps	iLBC	RFC 3952	15.2 Kbps	8 Ksps	20ms
iLBC_13_33kbps	iLBC	RFC 3952	13.33 Kbps	8 Ksps	30ms
			8-12 Kbps	8 Ksps	
	opus RFC 6716	16-20 Kbps	12 Ksps		
opus		RFC 6716	28-40 Kbps	16 Ksps	20ms
		48-64 Kbps	24 Ksps		
			64-128 Kbps	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

Note: The T40P/T40G/T23P/T23G/T21(P) E2/T19(P) E2 phones support using WB for Opus encoding, and using NB, MB, WB, SWB and FB for Opus decoding.

The T57W/T54W/T53W/T53/T48U/T48S/T46U/T46S/T43U/T42U/T42S/T41S/T27G phones support using WB (default) or NB for Opus encoding, and using NB, MB, WB, SWB and FB for Opus decoding.

The CP920 phones support using anyone from NB to WB for opus encoding, and using NB, MB, WB, SWB and FB for opus decoding.

The phones support up to two calls or a three-way conference when using Opus.

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

Phone Model	Supported Audio Codecs	Default Audio Codecs
T48G/T46G/T42G/T41P/T29G	G722, PCMA, PCMU, G729, G726-16,	G722, PCMA, PCMU,

Phone Model	Supported Audio Codecs	Default Audio Codecs
	G726-24, G726-32, G726-40, G723_53, G723_63, iLBC_15_2kpbs, iLBC_13_ 33kpbs	G729
T57W/T54W/T53W/T53/T48U/T48S/T46U/T46S/ T43U/T42S/T42U/T41S/T33P/T33G/T31P/T31G/ T31/T30P/T30/T27G	G726-24 G726-32 G726-40 G723 53	G722, PCMA, PCMU, G729
T40P/T40G/T23P/T23G/T21(P) E2/ T19(P) E2	G722, PCMA, PCMU, G729, G726-16, G726-24, G726-32, G726-40, opus, iLBC_ 15_2kpbs, iLBC_13_33kpbs	G722, PCMA, PCMU, G729
CP920	G.722.1c (48k0/s), G.722.1c (32k0/s), G.722.1c (24kb/s), G.722.1 (24kb/s), G722, PCMU, PCMA, G729, G726-40, G726-32, G726-24, G726-16, G723, 53, G723, 63	G.722.1c (48kb/s), G.722.1c (32kb/s), G.722.1c (24kb/s), G.722.1 (24kb/s), G.722.1 (24kb/s), G722, PCMU, PCMA, G729

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] <mac>.cfg</mac></payload_type>
	It enables or disables the specified audio codec.
	The name (payload_type) of the audio codec:
	g722_1c_48kpbs-G.722.1c (48kb/s)(only for CP920)
	g722_1c_32kpbs-G.722.1c (32kb/s) (only for CP920)
	g722_1c_24kpbs-G.722.1c (24kb/s) (only for CP920)
	g722_1_24kpbs-G.722.1 (24kb/s) (only for CP920)
	g 722 -G722
	pcmu-PCMU
	pcma-PCMA
Decerintien	g 729 -G729
Description	g726_16 -G726-16
	g726_24 -G726-24
	g726_32 -G726-32
	g726_40 -G726-40
	g723_53 -G723_53
	g723_63-G723_63
	opus-Opus
	ilbc_15_2kpbs-iLBC_15_2kbps
	ilbc_13_33kpbs-iLBC_13_33kbps
	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			
De une late el	example, otherwise the corresponding configuration will not take effect.			
Permitted Values	0-Disabled 1-Enabled			
	Default:			
	When the audio codec is G.722.1c (48kb/s), the default value is 1;			
	When the audio codec is G.722.1c (32kb/s), the default value is 1;			
	When the audio codec is G.722.1c (24kb/s), the default value is 1;			
	When the audio codec is G.722.1 (24kb/s), the default value is 1;			
	When the audio codec is G722, the default value is 1;			
	When the audio codec is PCMU, the default value is 1;			
	When the audio codec is PCMA, the default value is 1;			
Default	When the audio codec is G729, the default value is 1;			
Delault	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 G723_53, the default value is 0;			
	When the audio codec is G723_63, the default value is 0;			
	When the audio codec is Opus, the default value is 0;			
	When the audio codec is iLBC_15_2kbps, the default value is 0;			
	When the audio codec is iLBC_13_33kpbs, the default value is 0;			
Web UI	Account > Codec > Audio Codec			
Parameter	account.X.codec. <payload_type>.priority^[1] <mac>.cfg</mac></payload_type>			
	It configures the priority of the enabled audio codec.			
	The name of the audio codec:			
	g722_1c_48kpbs- G.722.1c (48kb/s)			
	g722_1c_32kpbs-G.722.1c (32kb/s)			
	g722_1c_24kpbs-G.722.1c (24kb/s)			
Description	on g722_1_24kpbs-G.722.1 (24kb/s)			
	g722 -G722			
	pcmu-PCMU			
	pcma-PCMA			
	g729- G729			
	g726_16-G726-16			

ļ	g726_24- G726-24		
9	g726_32 -G726-32		
9	g726_40- G726-40		
9	g723_53-G723_53		
ę	g723_63-G723_63		
	opus-Opus		
i	ilbc_15_2kpbs-iLBC_15_2kbps		
i	ilbc_13_33kpbs-iLBC_13_33kbps		
l I	Example:		
ć	account.1.codec.g722.priority = 1		
د د د	Note: The priority of the codec in the disable codec defined as the highest priority in the enable codec I should be the correct one as listed in the above exa will not take effect.	ist. The name of the audio codec in this parameter	
Permitted	Integer from 0 to 13 (17 for CP920 phones)		
\ \	When the audio codec is G722.1c (48kb/s), the default value is 1;		
	When the audio codec is G722.1c (32kb/s), the defa	ault value is 2;	
	When the audio codec is G722.1c (24kb/s), the default value is 3;		
l l	When the audio codec is G722.1 (24kb/s), the default value is 4;		
	When the audio codec is G722, the default value is 1 (5 for CP920 phones);		
	When the audio codec is PCMU, the default value is 2 (6 for CP920 phones);		
	When the audio codec is PCMA, the default value is 3 (7 for CP920 phones);		
	When the audio codec is G729, the default value is 4 (8 for CP920 phones);		
Default	When the audio codec is G726_16, the default value is 0;		
	When the audio codec is G726_24, the default value is 0;		
, i i i i i i i i i i i i i i i i i i i	When the audio codec is G726_32, the default valu	e is 0;	
, N	When the audio codec is G726_40, the default valu	e is 0;	
	When the audio codec is G723_53, the default valu	e is 0;	
	When the audio codec is G723_63, the default value is 0;		
	When the audio codec is Opus, the default value is 0;		
	When the audio codec is iLBC_15_2kbps, the default value is 0;		
V	When the audio codec is iLBC_13_33kpbs, the default value is 0;		
Web UI	Account > Codec > Audio Codec		
Parameter	account.X.codec.opus.para ^[1]	<mac>.cfg</mac>	
Description	It configures the sample rate of the Opus audio cod	ec.	
i crimited	opus-fb-Opus-FB (48KHz) (only for T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U/CP920)		
Values	opus-swb-Opus-SWB (24KHz) (only for T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U/CP920)		

	opus-wb-Opus-WB (16KHz)		
	opus-mb-Opus-MB (12KHz) (only for T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U/CP920)		
	opus-nb-Opus-NB (8KHz)		
Default	opus-wb (opus-fb for CP920 phones)		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920		
Web UI	Account > Codec > Opus Sample Rate		
Parameter	voice.g726.aal2.enable <y00000000xx>.cfg</y00000000xx>		
Description	on It enables or disables the phone to use the AAL2-G726-16, 24, 32 and 40 MIME type.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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
PCMA	10ms	40ms
PCMU	10ms	40ms
G729	10ms	80ms
G726-16	10ms	30ms
G726-24	10ms	30ms
G726-32	10ms	30ms (40ms for T40P/T40G/T23P/T23G/T21(P) E2/T19(P) E2)

Codec	Packetization Time (Minimum)	Packetization Time (Maximum)	
G726-40	10ms	30ms	
G723_53/ G723_63	30ms	60ms	
iLBC	20ms	30ms	
opus	10ms	20ms	
iLBC_15_2kpbs	20ms, 40ms, 60ms		
iLBC_13_33kpbs	30ms, 60ms		

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		
, and co	40 -40		
	50 -50		
	60 -60		
Default	20		
Web UI	Account > Advanced > PTime (ms)		

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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.

Current implementation supports early media through the 183 message. When the caller receives a 183 message with SDP before the call is established, a media channel is established. This channel is used to provide the early media stream for the caller.

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.early_media.rtp_sniffer.timeout ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the time to wait for the phone to play the local ringback tone when the early media cannot be played.	
Permitted Values	 -1-Do not play the local ringback tone 0-Play the local ringback tone immediately 1-100-Wait for a specified time to play the local ringback tone 	
Default	1	
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	 0-Disabled 1-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	
Parameter	phone_setting.change_183_to_180	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to handle the received second 183 message as the 180 message.	
Permitted Values	 0-Disabled 1-Enabled, the phone will play the early media first and play the local ringback tone when receiving the second 183 message. 	
Default	0	

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

Headset Prior

Headset prior allows users to use headset preferentially if a headset is physically connected to the IP phone. This feature is especially useful for permanent or full-time headset users.

It is not applicable to CP920 phones.

Note: It is not applicable to the Bluetooth headset and USB headset.

Topic

Headset Prior Configuration

Headset Prior Configuration

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

Parameter	features.headset_prior	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables to preferentially use the headset mode for all incoming and outgoing calls.	

	Note: It works only if "features.headset_mode.enable" is set to 1 (Enabled).	
Permitted Values	 0-Disabled, the headset mode will be deactivated after the call, if you switch the headset mode to speakerphone/handset mode. 1-Enabled, the headset mode will not be deactivated after the call, even if you switch the headset 	
	mode to speakerphone/handset mode.	
Default	0	
Supported Devices	All phones except CP920	
Web UI	Features > General Information > Headset Prior	
Parameter	features.headset.ctrl_call.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the user to initiate or end a call by pressing the HEADSET key. Note: It works only if "features.headset_mode.enable" is set to 1 (Enabled).	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Supported Devices	All phones except CP920	

Dual Headset

The dual headset allows you to use two headsets on one IP phone. To use this feature, you need to physically connect two headsets to the headset and handset jacks respectively. Once the IP phone connects to a call, the headset connected to the headset jack has the full-duplex capability, with the headset connected to the handset jack is only used for listening.

Note: The dual headset is not applicable to the Bluetooth headset and USB headset. It is not applicable to CP920 phones.

Topic

Dual Headset Configuration

Dual Headset Configuration

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

Parameter	features.headset_training	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the dual headset feature. Note : It works only if "features.headset_mode.enable" is set to 1 (Enabled).	
Permitted Values	 0-Disabled 1-Enabled, users can use two headsets on one phone. When the IP phone joins a call, the headset connected to the headset jack has the full-duplex capability, with the headset connected to the handset jack is only used for listening. 	
Default	0	
Supported Devices	All phones except CP920	
Web UI	Features > General Information > Dual Headset	

Acoustic Clarity Technology

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

Topics

Acoustic Echo Cancellation (AEC) Noise Suppression Background Noise Suppression (BNS) Automatic Gain Control (AGC) Voice Activity Detection (VAD) Comfort Noise Generation (CNG) Jitter Buffer Smart Noise Block Acoustic Shield Smart Noise Filtering

Acoustic Echo Cancellation (AEC)

Yealink phones employ advanced AEC for hands-free operation. You can configure the AEC feature to remove the echo of the local loudspeaker from the local microphone without removing the near-end speech.

AEC is not normally required for calls via the handset. In some cases, where echo is experienced by the remote party, AEC may be used to reduce/avoid echo when you use the handset.

Note: Utilizing acoustic echo cancellation will introduce a small increase of delay into an audio path which might cause a lower voice quality.

Topic

AEC Configuration

AEC Configuration

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

Parameter	voice.echo_cancellation	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the AEC (Acoustic Echo Canceller) feature.	
	0-Disabled 1-Enabled	
Default	1	
Web UI	Settings > Voice > Echo Cancellation > ECHO	

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.

It is only applicable to CP920 phones.

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.	
Velues	0-Disabled 1-Enabled	
Default	1	
Supported Devices	CP920	
Web UI	Settings > Voice > Noise Proof > Noise Suppression	

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 Noise Generation) feature.	
Permitted Values	0-Disabled 1-Enabled	
Default	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 <pre><y00000000xx>.cfg</y00000000xx></pre>		
	It configures the minimum delay time (in millisecon		
Description	cription Note: It works only if "voice.jib.adaptive" is set to 1 (Adaptive). The value of this parameters 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 millisecor	ids) 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 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 <y00000000xx>.cfg</y00000000xx>		
Description	It configures the normal delay time (in milliseconds) of the jitter buffer in the wired network. Note : It works only if "voice.jib.adaptive" is set to 0 (Fixed). The value of this parameter should be greater than or equal to that of "voice.jib.min" and less than or equal to that of "voice.jib.max".		
Permitted Values	Integer from 0 to 400		
Default	120		
Web UI	Settings > Voice > Jitter Buffer > Normal		
Parameter	voice.jib.wifi.adaptive	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the type of jitter buffer in the wireless n	etwork.	
Veluee	0-Fixed 1-Adaptive		
Default	1		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, T27G, CP920		
Parameter	voice.jib.wifi.min	<y000000000xx>.cfg</y000000000xx>	
	It configures the minimum delay time (in milliseconds) of the jitter buffer in the wireless network. Note : It works only if "voice.jib.wifi.adaptive" is set to 1 (Adaptive). The value of this parameter should be less than or equal to that of "voice.jib.wifi.normal".		
Permitted Values	Integer from 0 to 500		
Default	60		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46L T27G, CP920	J, T46S, T46G, T43U, T42U, T42S, T41S, T29G,	
Parameter	voice.jib.wifi.max	<y000000000xx>.cfg</y000000000xx>	
	It configures the maximum delay time (in millisecon Note : It works only if "voice.jib.wifi.adaptive" is set to be greater than or equal to that of "voice.jib.wifi.nor	o 1 (Adaptive). The value of this parameter should	
Permitted Values	Integer from 0 to 500		
Default	500		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, T27G, CP920		
Parameter	voice.jib.wifi.normal	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the normal delay time (in milliseconds) of the jitter buffer in the wireless network. Note : It works only if "voice.jib.wifi.adaptive" is set to 0 (Fixed). The value of this parameter should be greater than or equal to that of "voice.jib.wifi.min" and less than or equal to that of "voice.jib.wifi.min".		
Permitted Values	Integer from 0 to 500		
Default	240		

Supported T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, Devices T27G, CP920

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 CP920 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 feature.	
	Note: It works only if "voice.tns.enable" is set to 1 (Enabled).	
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	
Supported Devices	CP920	
Web UI	Settings > Voice > Noise Proof > Smart Noise Blo	ck

Acoustic Shield

The acoustic shield feature is designed for background noise suppression when you are using the phone handset or a connected headset.

It is particularly used in the open office environment, such as the call center, where background noise can impact far-end audio quality.

It is only applicable to T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U phones.

Topic

Acoustic Shield Configuration

Acoustic Shield Configuration

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

Parameter	features.acoustic_shield.mode	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the acoustic shield feature during the call.	
Permitted Values	 0-Disabled 1-Enabled, you need to manually enable acoustic shield by pressing the Acous.S On soft key during the call. 2-Auto, the acoustic shield is automatically enabled when the call is set up. You can press the Acous.S Off soft key during the call to disable it. 	
Default	0	
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U	

Web UI	Settings > Voice > Acoustic Shield > Acoustic Shield Mode	
Parameter	features.acoustic_shield.level	<y000000000xx>.cfg</y000000000xx>
Description	It configures the noise suppression level for handsets and headsets. The higher value represents the better noise suppression effect. If it is set to 3, the phone automatically shields the noise out of 20 centimeters (7.9 inches) when you are using the phone handset or a headset.	
Permitted Values	Integer from 1 to 3	
Default	2	
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U	

Smart Noise Filtering

The phones can block out the slight noise from the far party when there is no speech in a call, and at the same time filter out the common transient noise (door closing, table knocking, and so on).

Topic

Smart Noise Filtering Configuration

Smart Noise Filtering Configuration

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

Parameter	features.noise_filtering_rev.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to block out the slig in a call. Note : After smart noise filtering is enabled, if the far background music will also be eliminated when the	end is playing music or calling a voice service, the
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T33P, T33G, T31P, T31G, T31, T30P, T30, CP920	
Web UI	Settings > Voice > Smart Noise Filtering > Smart No	ise Filtering

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
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.		
Permitted	 0-INBAND, DTMF digits are transmitted in the voice band. 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>	

	It configures the value of DTMF payload.	
Description	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).
Values	1-DTMF-Relay 2-DTMF 3-Telephone-Event	
Default	1	
Web UI	Account > Advanced > DTMF Info Type	
Parameter	features.dtmf.repetition	<y000000000xx>.cfg</y000000000xx>
Description	It configures the repetition times for the phone to send the end RTP Event packet during an active call.	
	1, 2 or 3	
Permitted Values	1, 2 or 3	
	1, 2 or 3 3	
Values Default		
Values Default Web UI	3	<y00000000xx>.cfg</y00000000xx>
Values Default Web UI Parameter Description	3 Features > General Information > DTMF Repetition features.dtmf.duration ^[2] It configures the duration time (in milliseconds) for played out automatically. Note : If the time interval between two DTMF digits	<y000000000xx>.cfg each digit when a sequence of DTMF tones is is less than this value, two or more same DTMF hay cause the loss of one or more DTMF digits. For</y000000000xx>
Values Default Web UI Parameter Description	3 Features > General Information > DTMF Repetition features.dtmf.duration ^[2] It configures the duration time (in milliseconds) for played out automatically. Note : If the time interval between two DTMF digits digits could be identified as one DTMF digit. This n	<y000000000xx>.cfg each digit when a sequence of DTMF tones is is less than this value, two or more same DTMF hay cause the loss of one or more DTMF digits. For</y000000000xx>
Values Default Web UI Parameter Description	3 Features > General Information > DTMF Repetition features.dtmf.duration ^[2] It configures the duration time (in milliseconds) for played out automatically. Note : If the time interval between two DTMF digits digits could be identified as one DTMF digit. This n example, 2662 may be identified as 262. If so, you	<y000000000xx>.cfg each digit when a sequence of DTMF tones is is less than this value, two or more same DTMF hay cause the loss of one or more DTMF digits. For</y000000000xx>
Values Default Web UI Parameter Description Permitted	3 Features > General Information > DTMF Repetition features.dtmf.duration ^[2] It configures the duration time (in milliseconds) for played out automatically. Note : If the time interval between two DTMF digits digits could be identified as one DTMF digit. This n example, 2662 may be identified as 262. If so, you lower than the default value.	<y000000000xx>.cfg each digit when a sequence of DTMF tones is is less than this value, two or more same DTMF hay cause the loss of one or more DTMF digits. For</y000000000xx>
Values Default Web UI Parameter Description Permitted Values Default	3 Features > General Information > DTMF Repetition features.dtmf.duration ^[2] It configures the duration time (in milliseconds) for played out automatically. Note : If the time interval between two DTMF digits i digits could be identified as one DTMF digit. This n example, 2662 may be identified as 262. If so, you lower than the default value. Integer from 0 to 700	<y000000000xx>.cfg each digit when a sequence of DTMF tones is is less than this value, two or more same DTMF hay cause the loss of one or more DTMF digits. For</y000000000xx>
Values Default Web UI Parameter Description Permitted Values Default Parameter	3 Features > General Information > DTMF Repetition features.dtmf.duration ^[2] It configures the duration time (in milliseconds) for played out automatically. Note : If the time interval between two DTMF digits digits could be identified as one DTMF digit. This n example, 2662 may be identified as 262. If so, you lower than the default value. Integer from 0 to 700 100	<pre><y000000000xx>.cfg each digit when a sequence of DTMF tones is is less than this value, two or more same DTMF hay cause the loss of one or more DTMF digits. For can modify the value of this parameter to a little</y000000000xx></pre>
Values Default Web UI Parameter Description Permitted Values Default Parameter	3 Features > General Information > DTMF Repetition features.dtmf.duration ^[2] It configures the duration time (in milliseconds) for played out automatically. Note : If the time interval between two DTMF digits digits could be identified as one DTMF digit. This n example, 2662 may be identified as 262. If so, you lower than the default value. Integer from 0 to 700 100 features.dtmf.volume	<pre><y000000000xx>.cfg each digit when a sequence of DTMF tones is is less than this value, two or more same DTMF hay cause the loss of one or more DTMF digits. For can modify the value of this parameter to a little</y000000000xx></pre>
Values Default Web UI Parameter Description Permitted Values Default Parameter Description Permitted	3 Features > General Information > DTMF Repetition features.dtmf.duration ^[2] It configures the duration time (in milliseconds) for played out automatically. Note : If the time interval between two DTMF digits i digits could be identified as one DTMF digit. This n example, 2662 may be identified as 262. If so, you lower than the default value. Integer from 0 to 700 100 features.dtmf.volume It configures the volume of the DTMF tone (in dB).	<pre><y000000000xx>.cfg each digit when a sequence of DTMF tones is is less than this value, two or more same DTMF hay cause the loss of one or more DTMF digits. For can modify the value of this parameter to a little</y000000000xx></pre>

Description	It configures the minimum inter-digit time (in milliseconds) between digits when a sequence of DTMF tones is played out automatically.
Permitted Values	Integer from 0 to 300
Default	50

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

^[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	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to display the DTMF digits for a short period before displaying isks during an active call.	
	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	

Transfer via DTMF

Call transfer is implemented via DTMF on some servers. The IP phone sends specified DTMF digits to the server for transferring calls to third parties.

Topic

Transfer via DTMF Configuration

Transfer via DTMF Configuration

The following table lists the parameters you can use to configure the transfer via DTMF.

Parameter	features.dtmf.replace_tran	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to send designated DTMF sequences for transfer function when pressing the Tran/Transfer soft key or TRAN/TRANSFER key.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Web UI	Features > General Information > DTMF Replace Tran		
Parameter	features.dtmf.transfer <y00000000xx>.cfg</y00000000xx>		
Description	It configures the DTMF sequences to be transmitted to perform call transfer. Valid values are: 0-9, *, # and A-E. Note: It works only if "features.dtmf.replace_tran" is set to 1 (Enabled).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > General Information > Tran Send DTMF		

Local DTMF Tone

Local DTMF tone allows the phones to play a local DTMF tone during an active call. If this feature is enabled, you can hear the DTMF tone when pressing the IP phone's keypad during a call.

Topic

Local DTMF Tone Configuration

Local DTMF Tone Configuration

The following table lists the parameter you can use to configure the local DTMF tone.

Parameter	features.play_local_dtmf_tone_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to play a local DTMF tone.		
Velues	 0-Disabled 1-Enabled, you can hear the DTMF tone when pressing the phone's keypad during a call. 		
Default	1		
Web UI	Features > General Information > Play Local DTMF Tone		

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 ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to send RTCP-XR packets.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Settings > Voice Monitoring > Voice RTCP-XR Report		
Parameter	voice.rtcp.enable ^[1]	<y00000000xx>.cfg</y00000000xx>	
Description	It enables or disables the phone to send RTCP packets.		
Permitted Values	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.

Parameter	phone_setting.vq_rtcpxr.session_report.enable	<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		
Values	1-Enabled		
Default	0		
Web UI	Settings > Voice Monitoring > VQ RTCP-XR Sessio	on Report	
Parameter	phone_setting.vq_rtcpxr.interval_report.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to send an interva odically throughout a call.	I quality report to the central report collector peri-	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Settings > Voice Monitoring > VQ RTCP-XR Interva	ll 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 content of the phone to send an interval quality report to the content of the phone to send an interval quality report to the content of the phone to send an interval quality report to the content of the phone to send an interval quality report to the content of the phone to send an interval quality report to the content of the phone to send an interval quality report to the content of the phone to send an interval quality report to the content of the phone to send an interval quality report to the content of the phone to send an interval quality report to the content of the phone to send an interval quality report to the phone to send an interval quality report to the content of the phone to send an interval quality report to the content of the phone to send an interval quality report to send an interval quality rep		
	Note: It works only if "phone_setting.vq_rtcpxr.interval_report.enable" is set to 1 (Enabled).		
Permitted Values	Integer from 5 to 20		
Default	20		
Web UI	Settings > Voice Monitoring > Period for Interval Re	eport	
Parameter	phone_setting.vq_rtcpxr_moslq_threshold_warn- ing	<y000000000xx>.cfg</y000000000xx>	
	It configures the threshold value of listening MOS score (MOS-LQ) multiplied by 10. The th value of MOS-LQ causes the phone to send a warning alert quality report to the central replector.		
Description	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>		
	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.		
Description	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.		
	If it is set to blank, critical alerts are not generated due to MOS-LQ.		
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_warn- ing		
Description	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 a critical alert quality report to the central report a critical alert quality report to the central report a critical alert quality report to the central report a critical alert quality report to the central report 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.		
Permitted Values	10 to 2000		
Default	Blank		
Web UI	Settings > Voice Monitoring > Critical Threshold for Delay		

VQ-RTCPXR Display

You can check the voice quality data of the last call via the web user interface or phone user interface. You can also specify the options of the RTP status to be displayed on the phone user interface. Options of the RTP status displayed on the web user interface cannot be specified.

Note: You can configure the softkey layout feature to display the **RTP Status** soft key during the conference. Then you can press the **RTP Status** soft key to check the voice quality data with different parties. For more information, refer to Softkey Layout.

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 .		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Settings > Voice Monitoring > Display Report Options on Web		
Parameter	phone_setting.vq_rtcpxr.states_show_on_gui.enable <y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the voice quality data of the last call or current call to be displayed on the phone screen. You can view the voice quality data of the last call on the phone at the path Menu > Status > More > RTP (RTP Status). You can view the voice quality data of the current call by pressing RTP/RTP Status soft key during a call.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Settings > Voice Monitoring > Display Report Options on Phone		
Parameter	phone_setting.vq_rtcpxr_display_start_time.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display Start Time on the phone screen. Note : It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Settings > Voice Monitoring > Report Options on Phone > Start Time		
Parameter	phone_setting.vq_rtcpxr_display_stop_time.enable	<y0000000000xx>.cfg</y0000000000xx>	
Description	It enables or disables the phone to display Current Time or Stop Time on the phone screen. Note : It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Settings > Voice Monitoring > Report Options on Phone > Current Time		
Parameter	phone_setting.vq_rtcpxr_display_local_call_id.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display Local User on the phone screen.		

	Note: It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Settings > Voice Monitoring > Report Options on Phone > Local User		
Parameter	phone_setting.vq_rtcpxr_display_remote_call_id.enable 0000000000xx .cfg		
Description	It enables or disables the phone to display Remote User on the phone so Note : It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enab		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Settings > Voice Monitoring > Report Options on Phone > Remote User		
Parameter	phone_setting.vq_rtcpxr_display_local_codec.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display Local Codec on the phone sc Note: It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enab		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Settings > Voice Monitoring > Report Options on Phone > Local Codec		
Parameter	phone_setting.vq_rtcpxr_display_remote_codec.enable <y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to display Remote Codec on the phone screen. Note : It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Settings > Voice Monitoring > Report Options on Phone > Remote Code	c	
Parameter	phone_setting.vq_rtcpxr_display_jitter.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display Jitter on the phone screen. Note: It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Settings > Voice Monitoring > Report Options on Phone > Jitter		
Parameter	phone_setting.vq_rtcpxr_display_jitter_buffer_max.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display Jitter Buffer Max on the phone screen. Note : It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		

Default	1		
Web UI	Settings > Voice Monitoring > Report Options on Phone > Jitter Buffer Max		
Parameter	phone_setting.vq_rtcpxr_display_packets_lost.enable <y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to display Packets lost on the phone screen. Note: It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Settings > Voice Monitoring > Report Options on Phone > Packets Lost		
Parameter	phone_setting.vq_rtcpxr_display_symm_oneway_delay.enable	<y0000000000xx>.cfg</y0000000000xx>	
Description	It enables or disables the phone to display SymmOneWayDelay on the p Note: It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enab		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Settings > Voice Monitoring > Report Options on Phone > SymmOneWay	/Delay	
Parameter	phone_setting.vq_rtcpxr_display_round_trip_delay.enable	<y0000000000xx>.cfg</y0000000000xx>	
Description	It enables or disables the phone to display RoundTripDelay on the phone screen. Note: It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Settings > Voice Monitoring > Report Options on Phone > RoundTripDelay		
		ay	
Parameter	phone_setting.vq_rtcpxr_display_moslq.enable	<y0000000000xx>.cfg</y0000000000xx>	
	It enables or disables the phone to display MOS-LQ on the phone screer	<y0000000000xx>.cfg</y0000000000xx>	
Description Permitted		<y0000000000xx>.cfg</y0000000000xx>	
Description Permitted Values	It enables or disables the phone to display MOS-LQ on the phone screer Note : It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enab 0 -Disabled	<y0000000000xx>.cfg</y0000000000xx>	
Description Permitted Values Default	It enables or disables the phone to display MOS-LQ on the phone screer Note : It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enab 0 -Disabled 1 -Enabled	<y0000000000xx>.cfg</y0000000000xx>	
Description Permitted Values Default Web UI	It enables or disables the phone to display MOS-LQ on the phone screer Note : It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enab 0 -Disabled 1 -Enabled 1	<y0000000000xx>.cfg</y0000000000xx>	
Description Permitted Values Default Web UI Parameter	It enables or disables the phone to display MOS-LQ on the phone screer Note: It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enab 0-Disabled 1-Enabled 1 Settings > Voice Monitoring > Report Options on Phone > MOS-LQ	<y0000000000xx>.cfg ble" is set to 1 (Enabled). <y0000000000xx>.cfg 1.</y0000000000xx></y0000000000xx>	
Description Permitted Values Default Web UI Parameter Description	It enables or disables the phone to display MOS-LQ on the phone screer Note: It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enab 0-Disabled 1-Enabled 1 Settings > Voice Monitoring > Report Options on Phone > MOS-LQ phone_setting.vq_rtcpxr_display_moscq.enable It enables or disables the phone to display MOS-CQ on the phone screer	<y0000000000xx>.cfg ble" is set to 1 (Enabled). <y0000000000xx>.cfg 1.</y0000000000xx></y0000000000xx>	
Description Permitted Values Default Web UI Parameter Description Permitted	It enables or disables the phone to display MOS-LQ on the phone screer Note: It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enab 0-Disabled 1-Enabled 1 Settings > Voice Monitoring > Report Options on Phone > MOS-LQ phone_setting.vq_rtcpxr_display_moscq.enable It enables or disables the phone to display MOS-CQ on the phone screer Note: It works only if "phone_setting.vq_rtcpxr.states_show_on_gui.enab 0-Disabled	<y0000000000xx>.cfg ble" is set to 1 (Enabled). <y0000000000xx>.cfg 1.</y0000000000xx></y0000000000xx>	

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>
Decrintion	It configures the IP address of the central report collector that accepts voice quality reports contained in SIP PUBLISH messages.	
Permitted Values	IPv4 Address	
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. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Phone Customization

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

Topics

Language Contrast Wallpaper Transparency Screen Saver Backlight Label Length for Line Key Display Label Alignment for Line/Ext Key Display Page Switch Key Page Tips Time and Date Idle Clock Display Logo Customization **Call Display Display Method on Dialing** Key As Send Softkey Layout Input Method **Notification Popups Power LED Indicator** Bluetooth Handset/Headset/Speakerphone Mode **DSS Keys Enhanced DSS Keys Power Saving** Search Source List in Dialing **Recent Call Display in Dialing** Icon Customization Warnings Display **Out of Service**

Language

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

Topics

Supported Languages Language Display Configuration Language for Phone Display Customization 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 phone user interface and the web user interface.

Phone User Interface		Web User Interface		
Language	Language Pack	Language	Language Pack	Note Language Pack
English	000.GUI.English.lang	English	1.English.js	1.English_note.xml
Chinese Simplified	001.GUI.Chinese_S.lang	Chinese Simplified	2.Chinese_S.js	2.Chinese_S_note.xml
Chinese Traditional	002.GUI.Chinese_T.lang	Chinese Tra- ditional	3.Chinese_T.js	3.Chinese_T_note.xml
French (Canada)	003.GUI.French_CA.lang	French	4.French.js	4.French_note.xml
French (EU)	004.GUI.French.lang	German	5.German.js	5.German_note.xml
German	005.GUI.German.lang	Italian	6.Italian.js	6.Italian_note.xml
Italian	006.GUI.Italian.lang	Polish	7.Polish.js	7.Polish_note.xml
Polish	007.GUI.Polish.lang	Portuguese	8.Portuguese.js	8.Portuguese_ note.xml
Portuguese (EU)	008.GUI.Portuguese.lang	Spanish	9.Spanish.js	9.Spanish_note.xml
Portuguese (Latin)	009.GUI.Portuguese_LA.lang	Turkish	10.Turkish.js	10.Turkish_note.xml
Spanish (EU)	010.GUI.Spanish.lang	Russian	11.Russian.js	11.Russian_note.xml
Spanish (Latin)	011.GUI.Spanish_LA.lang	Czech	12.Czechlang.js	12.Czechlang_ note.xml
Turkish	012.GUI.Turkish.lang	Arabic	13.Arabic.js	13.Arabic_note.xml
Russian	013.GUI.Russian.lang			
Czech	014.GUI.Czechlang.lang			
Hebrew	015.GUI.Hebrew.lang			
Arabic	016.GUI.Arabic.lang			

Note: The T48G/T46G/T42G/T41P phones do not support French (Canada), Portuguese (Latin) and Spanish (Latin).

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.gui	<y000000000xx>.cfg</y000000000xx>
Description	It configures the language used on the phone user interface.	
Permitted Values	T48G/T46G/T42G/T41P: English, Chinese_S, Chinese_T, French, German, Italian, Polish, Portuguese, Spanish, Turkish, Russian, or the custom language name.	
T40P/T40G/T29G/T23P/T23G/T21(P) E2/T19(P).

	English, Chinese_S, Chinese_T, French_CA, French, German, Italian, Polish, Portuguese, Por- tuguese_LA, Spanish, Spanish_LA, Turkish, Russian or the custom language name.		
	Other Phones:		
	English, Chinese_S, Chinese_T, French_CA, French, German, Italian, Polish, Portuguese, Por- tuguese_LA, Spanish, Spanish_LA, Turkish, Russian, Czech, Arabic, Hebrew, or the custom lan- guage name.		
Default	English		
	Color Screen Phones:		
Phone UI	Menu > Basic > Language		
Filone of	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Language		
Parameter	lang.wui	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the language used on the web user interface.		
Permitted Values	English, Chinese_S, Chinese_T, French, German, Italian, Polish, Portuguese, Spanish, Turkish, Rus- sian, Czech, Arabic, or the custom language name.		
Default	English		
Web UI	On the top-right corner of the web user interface		

Language for Phone Display Customization

You can customize the translation of the existing language on the phone user interface. Languages available for selection depend on language packs currently loaded to the IP phone. You can also add new languages (not included in the available language list) available for phone display by loading language packs to the IP phone.

Note: The newly added language must be supported by the font library on the IP phone. If the characters in the custom language file are not supported by the phone, the phone will display "?" instead.

Topics

Customizing a Language Pack for Phone Display Custom Language for Phone Display Configuration Example: Setting a Custom Language for Phone Display

Customizing a Language Pack for Phone Display

When you add a new language pack for the phone user interface, the language pack must be formatted as "X.GUI.name.lang" (X starts from 017, "name" is replaced with the language name). If the language name is the same as the existing one, the existing language pack will be overridden by the newly uploaded one. We recommend that the filename of the new language pack should not be the same as the existing one.

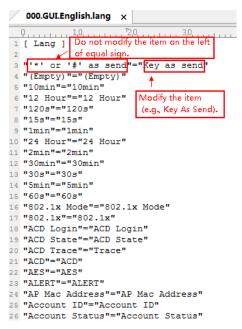
Note: To modify the translation of an existing language, do not rename the language pack.

Procedure

Open the desired language template file (for example, 000.GUI.English.lang).

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

The following shows a portion of the language pack "000.GUI.English.lang" for the phone user interface:



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

Custom Language for Phone Display Configuration

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

Parameter	gui_lang.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the custom LCD lar	nguage pack for the phone user interface.	
	Note: You can also download multiple language packs to the phone simultaneously.		
Permitted Values	URL within 511 characters		
Default	Blank		
Parameter	gui_lang.delete <y00000000xx>.cfg</y00000000xx>		
Description	It deletes the specified or all custom LCD language packs of the phone user interface.		
Permitted	For example http://localhost/all or http://localhost/X.GUI.name.lang		
Values	X starts from 017, "name" is replaced with the language name.		
Default	Blank		

Example: Setting a Custom Language for Phone Display

The following example shows the configuration for uploading custom language files "017.GUI.English_17.lang" and "018.GUI.English_18.lang", and then specify "017.GUI.English_17.lang" to display on the phone user interface. These language files are customized and placed on the provisioning server "192.168.10.25".

Example

gui_lang.url= http://192.168.10.25/017.GUI.English_17.lang

gui_lang.url= http://192.168.10.25/018.GUI.English_18.lang

lang.gui=English_17

After provisioning, text displayed on the phone user interface will change to the custom language you defined in "017.GUI.English_17.lang". You can also find a new language selection "English_17" and "English_18" on the IP phone user interface: **Menu** > **Basic** > **Language** or **Menu** > **Settings** > **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 also customize the translation of the note language pack. The note information is displayed in the question mark "?" of the web user interface.

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 Customizing a Language Pack for Note Display Custom Language for Web and Note 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 existing 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,
<pre>> Contendata> Do not modify the note name.</pre>
<pre>[<note name="version"></note></pre>
<pre><text>It shows the current firmware version and hardware version of the device.</text> You can modify the translation of the note name. Description: It shows the Device Certificate of the device. </pre>
<pre> </pre>
<pre> Description: It shows the basic IPv4 network configurations. </pre>
<pre></pre>

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

Custom Language for Web and Note Display Configuration

If you want to add a new language (for example, Wuilan) to phones, prepare the language file named as "14.Wuilan.js" and "14.Wuilan_note.xml" for downloading. After the update, you will find a new language selection "Wuilan" at the top-right corner of the web user interface, and new note information is displayed in the icon when the new language is selected.

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

Parameter	wui_lang.url	<y00000000xx>.cfg</y00000000xx>
Description	It configures the access URL of the custom languag	ge 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_note.url <y00000000xx>.cfg</y00000000xx>	
Description	It configures the access URL of the custom note language pack for the web user interface.	
Veluee	URL within 511 characters For example http://localhost/X.name_note.xml	

	X starts from 14, "name" is replaced with the language name	
Default	Blank	
Parameter	wui_lang.delete <y00000000xx>.cfg</y00000000xx>	
Describuon	It deletes the specified or all custom web language packs and note language packs of the web user interface.	
Permitted Values	http://localhost/all or http://localhost/Y.name.js Y starts from 014, "name" is replaced with the language name	
Default	Blank	

Contrast

Contrast determines the readability of the texts displayed on the LCD screen. Adjusting the contrast to a comfortable level can optimize the screen viewing experience.

You can adjust the contrast for T53W/T53/T43U/T40P/T40G/T31P/T31G/T31/T30P/T30/T27G/T23P/T23G/T21(P) E2/T19(P) E2/CP920 phones, or for expansion module EXP20 (connected to T29G/T27G phones), EXP40 (connected to T48S/T48G/T46S/T46G phones).

Topic

Contrast Configuration

Contrast Configuration

The following table lists the parameters you can use to adjust contrast for the phone.

Parameter	phone_setting.contrast	<y000000000xx>.cfg</y000000000xx>	
	It configures the contrast of the LCD screen.		
	For T53W/T53/T43U/T31P/T31G/T31/T30P/T30/T4 it configures the LCD's contrast of the IP phone.	0P/T40G/T23P/T23G/T21(P) E2/T19(P) E2 phones,	
Description	For T48S/T48G/T46S/T46G phones, it configures th	e LCD's contrast of the connected EXP40 only.	
	For T29G phones, it configures the LCD's contrast	of the connected EXP20 only.	
	For T27G phones, it configures the LCD's contrast	of the IP phone and the connected EXP20.	
	Note: We recommend that you set the contrast of the LCD screen to 6 as a more comfortable level.		
Permitted Values	Integer from 1 to 10		
Default	6		
Supported Devices	All phones except T57W, T54W, T48U, T46U, T42G, T42S, T42U, T41P, T41S, T33P and T33G		
Web UI	Black-and-white Screen Phones:		
Web OI	Settings > Preference > Contrast		
Color Screen Phones:			
Phone UI	Menu > Basic > Display > Contrast		
	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Display > Contrast		

Wallpaper

Wallpaper is a picture used as the background of the phone. The phone comes with a default picture. You can change it to a built-in picture or custom wallpaper from personal pictures.

The wallpaper is only applicable to color screen phones and expansion module EXP50 (connected to the T57W/T53W/T53W/T53 phones)/expansion module EXP43 (connected to the T48U/T46U/T43U phones).

Topics

Wallpaper Configuration Wallpaper Customization Adding a Wallpaper from a USB Flash Drive Example: Setting a Custom Picture as Wallpaper

Wallpaper Configuration

You can change the wallpaper to any built-in picture or custom picture.

On T57W/T48U/T48S/T48G phones, you can also separately set the wallpaper when the DSS key list is unfolded, avoiding the display of the line key labels to be blocked by the background picture.

The following show wallpaper set on T48S phones:



Line key list is folded

Line key list is unfolded

The following table lists the parameters you can use to change the wallpaper.

Parameter	phone_setting.backgrounds	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the wallpaper displayed on the phone idle screen.		
	T57W/T54W/T48U:		
	Default.jpg, 01.jpg, 02.jpg, 03.jpg, 04.jpg, 05.jpg or wallpaper.jpg)	uploaded custom wallpaper name (for example,	
	<u>T46U:</u>		
Permitted	Default.png, 01.png, 02.png, 03.png, 04.png, 05.pr example, wallpaper.png)	g or uploaded custom wallpaper name (for	
Values	<u>T33P/T33G:</u>		
	Default.jpg, 1.jpg, 2.jpg, 3.jpg, 4.jpg, 5.jpg or uploa paper.jpg)	ded custom wallpaper name (for example, wall-	
	Other Phones:		
	Default.jpg, 01.jpg, 02.jpg, 03.jpg, 04.jpg, 05.jpg, 0 custom wallpaper name (for example, wallpaper.jp		
Default	Default.jpg (Default.png for T46U)		
Supported	All color screen phones		

Devices			
	T57W/T54W/T48U/T46U:		
	Settings > Preference > Upload Wallpaper > System Wallpaper		
Web UI	Other Phones:		
	 Settings > Preference > Wallpaper		
Phone UI	Menu > Basic > Display > Wallpaper		
Parameter	expansion_module.backgrounds <y00000000xx>.cfg</y00000000xx>		
Description	It configures the wallpaper displayed on the connected EXP50 expansion module of the phone.		
	T57W/T54W/T53W/T53:		
	Default-exp50.jpg, 01-exp50.jpg, 02-exp50.jpg, 03-exp50.jpg, 04-exp50.jpg, 05-exp50.jpg, 06- exp50.jpg, 07-exp50.jpg, 08-exp50.jpg, 09-exp50.jpg or 10-exp50.jpg or custom wallpaper name (for example, wallpaper.jpg)		
values	<u>T48U/T46U/T43U:</u>		
	Default-exp.jpg, 01-exp.jpg, 02-exp.jpg, 03-exp.jpg, 04-exp.jpg, 05-exp.jpg or custom wallpaper name (for example, wallpaper.jpg)		
	<u>T57W/T54W/T53W/T53:</u>		
Default	Default-exp50.jpg		
	T48U/T46U/T43U:		
Supported	Default-exp.jpg		
Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U		
Web UI	Settings > Preference > Upload Wallpaper > System Expansion Wallpaper		
Phone UI	T57W/T54W/T48U/T46U:		
	Menu > Basic > Display > EXP Wallpaper > Wallpaper		
Parameter	phone_setting.backgrounds_with_dsskey_unfold <v000000000xx>.cfg</v000000000xx>		
	It configures the wallpaper displayed on the phone when the DSS key list is unfolded.		
	<u>T57W/T48S/T48G:</u>		
Permitted	Auto, Default.jpg, 01.jpg, 02.jpg, 03.jpg, 04.jpg, 05.jpg, 06.jpg, 07.jpg, 08.jpg, 09.jpg or 10.jpg or uploaded custom wallpaper name (for example, wallpaper.jpg)		
Values	<u>T48U:</u>		
	Auto, Default.jpg, 01.jpg, 02.jpg, 03.jpg, 04.jpg, 05.jpg or uploaded custom wallpaper name (for example, wallpaper.jpg)		
Default	Auto		
Supported	(use the wallpaper configured by the parameter "phone_setting.backgrounds")		
Devices	T57W, T48U, T48S, T48G		
Web UI	Settings > Preference > Wallpaper with Dsskey Unfold		
Phone UI	Menu > Basic > Display > Dsskey Wallpaper		

Wallpaper Customization

You can configure a custom picture, such as company logo, and then upload the custom picture to the IP phone that users can choose from when changing the wallpaper for the phone idle screen, expansion module or Dsskey screen.

Topics

Custom Wallpaper Picture Limit Custom Wallpaper Configuration Deleting a Custom Picture

Custom Wallpaper Picture Limit

Either the smaller or the larger picture will be scaled proportionally to fit the screen. The wallpaper picture format must meet the following:

Phone Model	Format	Resolution	Single File Size	Note
EXP50/EXP43		<=4.2 mega- pixels	<=5MB	
T57W/T54W/T48U/T48S/T48G	*.jpg/*.png/*.bmp/*.jpeg	<=2.0 mega- pixels	<=5MB	2MB of space should be reserved for the phone
T46U/T46S/T46G/T33P/ T33G/T29G		<=1.8 mega- pixels	<=5MB	

Custom Wallpaper Configuration

The following table lists the parameter you can use to upload a custom picture.

Parameter	wallpaper_upload.url	<y000000000xx>.cfg</y000000000xx>
Description	It configures the access URL of the custom wallpaper picture.	
Permitted Values	URL within 511 characters	
Default	Blank	
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T33P, T33G, T29G	
Web UI	T57W/T54W/T53W/T53/T48U/T46U/T43U: Settings > Preference > Upload Wallpaper > Custom Wallpaper > Upload Wallpaper Other Phones: Settings > Preference > Upload Wallpaper	

Deleting a Custom Picture

You can delete the uploaded custom pictures for a specific IP phone via the web user interface at the path: Settings > Preference > Wallpaper > Upload Wallpaper > Custom Wallpaper), select the desired custom picture and click Del (Delete). You can also delete the custom pictures via the phone user interface at the path: Menu > Basic > Display > Wallpaper. You can only delete the custom pictures.

Adding a Wallpaper from a USB Flash Drive

The T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G IP phone enables you to add wallpaper from a USB flash drive on their phones. You can navigate to **Menu** > **USB** > **Browse Photo**, preview pictures, and then set the

desired picture as the idle screen/Dsskey screen or EXP wallpaper. After you set a picture in USB flash drive as the idle screen/Dsskey screen or EXP wallpaper, the picture is added to the Wallpaper list.

Note: Yealink phones support USB flash drive in FAT32 or NTFS format.

Related Topic

Custom Wallpaper Picture Limit

Example: Setting a Custom Picture as Wallpaper

The following example shows the configuration for uploading custom picture named "wallpaper.jpg" and set it as idle screen wallpaper. The custom picture is placed on the provisioning server "192.168.10.25".

Example

wallpaper_upload.url = http://192.168.10.25/wallpaper.jpg

phone_setting.backgrounds = wallpaper.jpg

After provisioning, the phone idle screen wallpaper changes to custom picture "wallpaper.jpg".

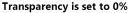
Transparency

The T57W/T54W/T48U/T48S/T48G/T33P/T33G phones display line keys and status bar transparently. If you use a custom picture with a color or complex background, it may affect the user's experience. You can choose the appropriate transparency for DSS key labels and status bar on the idle screen as required.

The following show line keys and status bar transparency set on T48S phones:



Transparency is set to 100%



Topic

Transparency Configuration

Transparency Configuration

The following table lists the parameter you can use to adjust transparency.

Parameter	phone_setting.idle_dsskey_and_title.transparency <y0000000000xx>.cfg</y0000000000xx>	
	It configures the transparency of the DSS key labels and status bar on the idle screen for the IP phone.	
Description	Note: It is also applicable when the DSS key list is unfolded on the T57W/T48U/T48S/T48G phones.	
Permitted	0%, the DSS key labels and status bar are non-transparent.	
Values	20%, 40%, 60%, 80% or 100%	
Default	100%	
Supported Devices	T57W, T54W, T48U, T48S, T48G, T33P, T33G	

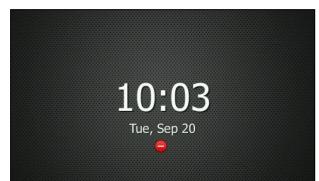
Web UI	Settings > Preference > Transparency	
Phone UI	Menu > Basic > Display > Transparency	

Screen Saver

The screen saver will automatically start when the IP phone is idle for the preset waiting time. You can stop the screen saver at any time by pressing any key or touching the screen. When your phone is idle again for a preset waiting time, the screen saver starts again.

By default, the phone screen displays a built-in picture when the screen saver starts.

The following shows that the built-in screen saver is displaying on T46S phones:



You can set custom pictures as the screen saver. You can also add personal pictures on your phone using a USB flash drive.

The time & date, certain status icons (for example, auto answer, DND, a new text message), or custom information (for example, notifications or company logo) is also configurable to display on the screen saver.

The black-and-white screen IP phone only displays custom information as the screen saver.

Topics

Screensaver Display Customization Custom Screensaver Picture Limit Screensaver Configuration Adding a Screensaver Picture from a USB Flash Drive Deleting a Screensaver Picture

Screensaver Display Customization

You can customize the screen saver file to configure the IP phone whether to display custom information (for example, notifications or company logo) on the screen saver.

For color screen phones, the custom information is displayed on the built-in picture or custom pictures (if uploaded).

The following show examples on T27G and T46S/G phones:



Topics

Screensaver File Elements and Attributes Customizing the Screen Saver File

Screensaver File Elements and Attributes

The following table lists the elements and attributes you can use to add custom information in the screensaver file. We recommend that you do not edit these elements and attributes.

Elements	Attributes	Description
	LineSpacing	The vertical distance between different lines.
YealinkIPPhoneCustomScreenSaver	InsertImageLineNum	Specify which line to insert the image (configured by the Image element).
		Note: It is only applicable to color screen phones.
	Size	Specify "show" or "hide" between <systemtime> and </systemtime> to decide whether to display the time
	horizontalAlign	and date.
SystemTime	verticalAlign	Edit the attributes to decide how to display the time and date, including the size, position, and color.
	Color	Note: Color is only applicable to color screen phones.
Statuslcons	horizontalAlign	Specify "show" or "hide" between <statusicons> and </statusicons> to decide whether to display the status icons.
	verticalAlign	Edit the attributes to decide the icons displayed pos- ition.
	Size	Specify the display text between <line> and </line> .
Line	Align	Edit the attributes to decide how to display the text, including text size, position, and color.
	Color	Note: Color is only applicable to color screen phones.
	horizontalAlign	Specify the display image source between <image/> and .
Image	verticalAlign	Edit the attributes to decide how to display the image, including position and size.
in age	height	Note: It is only applicable to color screen phones. Ver-
	width	ticalAlign works only if you do not configure Inser- tImageLineNum or set the InsertImageLineNum to 0.

Customizing the Screen Saver File

- 1. Open the screen saver file.
- 2. Modify settings as you want.

CustomScreenSaver.xml ×
0,, 10,, 20,, 30,, 40,, 50,, 60,, 70,, 80,, 90,, 100,, 110,, 120
<pre><?xml version="1.0" encoding="ISO-8859-1"?></pre>
] <yealinkipphonecustomscreensaver insertimagelinenum="1" linespacing="9"></yealinkipphonecustomscreensaver>
<systemtime color="black" horizontalalign="right" size="Large" verticalalign="top">show</systemtime>
<statusicons horizontalalign="middle" verticalalign="top">show</statusicons>
<line align="center" color="blue" size="large">Yealink</line>
<line align="center" color="RGB" size="large">SIP Phone</line>
<line align="center" color="RGB" size="large">Test</line>
<pre><image height="30" horizontalalign="middle" verticalalign="bottom" width="30"/>http://192.168.1.1/Yealink.jpeg</pre>
-

- 3. Save this file and place it to the provisioning server.
- 4. Specify the access URL of the screen saver file in the configuration file.

Custom Screensaver Picture Limit

Either the smaller or the larger picture will be scaled proportionally to fit the screen. The screensaver picture format must meet the following:

Phone Model	Format	Resolution	Single File Size	Note
EXP50/EXP43		<=4.2 mega- pixels	<=5MB	
T57W/T54W/T48U/T48S/T48G	*.jpg/*.png/*.bmp/*.jpeg	<=2.0 mega- pixels	<=5MB	2MB of space should be reserved for the phone
T46U/T46S/T46G/T33P/ T33G/T29G		<=1.8 mega- pixels	<=5MB	

Screensaver Configuration

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

Parameter	screensaver.wait_time	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the time (in seconds) to wait in the idle state before the screen saver starts.		
	15 -15s		
	30 -30s		
	60-1 min		
	120 -2min		
	300 -5min		
Permitted Values	600 -10min		
	1800 -30min		
	3600 -1h		
	7200 -2h		
	10800 -3h		
	21600 -6h		

Default	21600		
Web UI	Settings > Preference > Screensaver Wait Time		
	Color Screen Phones:		
Phone UI	Menu > Basic > Display > Screensaver > Wait Time		
Filone Of	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Display > Scree	nsaver > Wait Time(s)	
Parameter	screensaver.display_clock.enable <y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to display the cloc	k and icons when the screen saver starts.	
-	Note: It works only if "screensaver.type" is set to 0 (System) or 1 (Custom).	
	0-Disabled 1-Enabled		
Default	1		
Supported Devices	All color screen phones		
	Settings > Preference > Screensaver Display Clock set to Server XML)		
Phone III	Menu > Basic > Display > Screensaver > Display C is set to Server XML)	lock (not configurable when the Screensaver Type	
Parameter	screensaver.type	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the type of screen saver to display.		
	0-System, the LCD screen will display the built-in p	icture.	
Permitted Values	1-Custom, the LCD screen will display the custom s "screensaver.upload_url"). If multiple images are up ately. The time interval is configured by the parame	ploaded, the phone will display all images altern-	
	2-Server XML, the LCD screen will display XML items (configured by the parameter "screensaver- .xml_browser.url") when the screen saver starts.		
Default	0		
Supported Devices	All color screen phones		
Web UI	Settings > Preference > Screensaver Type		
Phone UI	Menu > Basic > Display > Screensaver > Screensaver Type		
	Note: It is configurable only if you have uploaded c	ustom image files to the phone.	
Parameter	screensaver.upload_url	<y000000000xx>.cfg</y000000000xx>	
	It configures the access URL of the custom screen	saver image.	
	Example:		
	screensaver.upload_url = http://192.168.10.25/Scre	eencapture.jpg	
Description	tion During auto provisioning, the phone connects to the HTTP provisioning server "192.168.10 downloads the screen saver image "Screencapture.jpg".		
	If you want to upload multiple screen saver images follows:	to the phone simultaneously, you can configure as	

r			
	screensaver.upload_url = http://192.168.10.25/Screencapture.jpg		
_	screensaver.upload_url = http://192.168.10.25/Screensaver.jpg		
Permitted Values	URL within 511 characters		
Default	Blank		
Supported Devices	All color screen phones		
Web UI	Settings > Preference > Screensaver Type (Custom)/Screensaver Type (Server XML) > Upload Screensaver		
Parameter	screensaver.delete	<y000000000xx>.cfg</y000000000xx>	
	It deletes the specified or all custom screen saver i	mages.	
	Example:		
Description	Delete all custom screen saver images:		
Description	screensaver.delete = http://localhost/all		
	Delete a custom screen saver image (for example,	Screencapture.jpg):	
	screensaver.delete = http://localhost/Screencaptur	e.jpg	
Permitted Values	http://localhost/all or http://localhost/name.(jpg/png	/bmp/jpeg)	
Default	Blank		
Supported Devices	All color screen phones		
Parameter	screensaver.xml_browser.url	<y000000000xx>.cfg</y000000000xx>	
	It configures the access URL of the screen saver X	ML file.	
	Example:		
Description	coroopcover yml, browcer url - http://102.168.10.2	5/ScreenSaver.xml	
Description	coroopcover yml, browcer url - http://102.168.10.2	to the HTTP provisioning server "192.168.10.25",	
Description	screensaver.xml_browser.url = http://192.168.10.2 During the auto provisioning, the phone connects	to the HTTP provisioning server "192.168.10.25", Saver.xml".	
Description Permitted Values	screensaver.xml_browser.url = http://192.168.10.2 During the auto provisioning, the phone connects and downloads the screen saver XML file "Screen	to the HTTP provisioning server "192.168.10.25", Saver.xml".	
Permitted	screensaver.xml_browser.url = http://192.168.10.2 During the auto provisioning, the phone connects and downloads the screen saver XML file "Screen Note : For color screen phones, it works only if "scr	to the HTTP provisioning server "192.168.10.25", Saver.xml".	
Permitted Values	screensaver.xml_browser.url = http://192.168.10.2 During the auto provisioning, the phone connects and downloads the screen saver XML file "Screen Note : For color screen phones, it works only if "scr URL within 511 characters	to the HTTP provisioning server "192.168.10.25", Saver.xml". eensaver.type" is set to 2 (Server XML).	
Permitted Values Default	screensaver.xml_browser.url = http://192.168.10.2 During the auto provisioning, the phone connects and downloads the screen saver XML file "Screen Note : For color screen phones, it works only if "scr URL within 511 characters Blank	to the HTTP provisioning server "192.168.10.25", Saver.xml". eensaver.type" is set to 2 (Server XML).	
Permitted Values	screensaver.xml_browser.url = http://192.168.10.2 During the auto provisioning, the phone connects and downloads the screen saver XML file "Screen Note : For color screen phones, it works only if "scr URL within 511 characters Blank <u>T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U/T3</u>	to the HTTP provisioning server "192.168.10.25", Saver.xml". eensaver.type" is set to 2 (Server XML).	
Permitted Values Default	screensaver.xml_browser.url = http://192.168.10.2 During the auto provisioning, the phone connects and downloads the screen saver XML file "Screen Note : For color screen phones, it works only if "scr URL within 511 characters Blank <u>T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U/T3</u> Settings > Preference > XML Browser URL	to the HTTP provisioning server "192.168.10.25", Saver.xml". eensaver.type" is set to 2 (Server XML).	
Permitted Values Default Web UI	screensaver.xml_browser.url = http://192.168.10.2 During the auto provisioning, the phone connects and downloads the screen saver XML file "Screen Note : For color screen phones, it works only if "scr URL within 511 characters Blank <u>T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U/T3</u> Settings > Preference > XML Browser URL <u>Other Phones:</u>	to the HTTP provisioning server "192.168.10.25", Saver.xml". eensaver.type" is set to 2 (Server XML).	
Permitted Values Default Web UI Parameter	screensaver.xml_browser.url = http://192.168.10.2 During the auto provisioning, the phone connects and downloads the screen saver XML file "Screen Note : For color screen phones, it works only if "scr URL within 511 characters Blank <u>T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U/T3</u> Settings > Preference > XML Browser URL <u>Other Phones:</u> Settings > Preference > Screensaver Type (Server screensaver.clock_move_interval It configures the interval (in seconds) for the phone	to the HTTP provisioning server "192.168.10.25", Saver.xml". eensaver.type" is set to 2 (Server XML). 31P/T31G/T31/T30P/T30/CP920: XML) > XML Browser URL <y000000000xx>.cfg</y000000000xx>	
Permitted Values Default Web UI Parameter	screensaver.xml_browser.url = http://192.168.10.2 During the auto provisioning, the phone connects and downloads the screen saver XML file "Screen Note : For color screen phones, it works only if "scr URL within 511 characters Blank <u>T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U/T3</u> Settings > Preference > XML Browser URL <u>Other Phones:</u> Settings > Preference > Screensaver Type (Server screensaver.clock_move_interval	to the HTTP provisioning server "192.168.10.25", Saver.xml". eensaver.type" is set to 2 (Server XML). 31P/T31G/T31/T30P/T30/CP920: XML) > XML Browser URL	

Default	600		
Supported Devices	All color screen phones		
Parameter	screensaver.picture_change_interval	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the interval (in seconds) for the phone starts.	to change the picture when the screen saver	
	Note : It works only if "screensaver.type" is set to 1 (url" should be configured in advance.	Custom) and the parameter "screensaver.upload_	
Permitted Values	Integer from 5 to 1200		
Default	60		
Supported Devices	All color screen phones		
Parameter	features.blf_active_backlight.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to turn on the backlight or stop the screen saver when the BLF/BLF list status changes.		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

Adding a Screensaver Picture from a USB Flash Drive

The T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G IP phone enables you to add a screensaver picture from a USB flash drive on their phones. You can navigate to **Menu** > **USB** > **Browse Photo**, preview pictures, and then set the desired picture as a screensaver. After you set a picture in USB flash drive as a screensaver, the picture is added to the Screensaver list.

Note: Yealink phones support USB flash drive in FAT32 or NTFS format.

Related Topic

Custom Screensaver Picture Limit

Deleting a Screensaver Picture

You can delete the uploaded custom pictures for a specific IP phone via the web user interface at the path: **Settings** > **Preference**, select **Custom** from the **Screensaver Type** field, and then select a desired custom picture from the **Screensaver** field, click **Del (Delete)**. You can only delete the custom pictures.

Backlight

You can change the backlight brightness of the phone screen during phone activity and inactivity. The backlight brightness automatically changes when the phone is idle for a specified time. It is not available on T30P/T30/T19(P) E2 phones.

You can change the screen backlight brightness and time in the following settings:

Active Level: The brightness level of the LCD screen when the phone is active. Digits (1-10) represent different brightness levels. 10 is the brightest level.

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

Backlight Time: The delay time to change the brightness of the LCD screen when the phone is inactive. Backlight time includes the following settings you can choose from:

- Always On: Backlight is on permanently.
- Always Off: Backlight is off permanently. It is not available for the T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G/T33P/T33G IP phone.
- 15s, 30s, 1min, 2min, 5min, 10min or 30min: Backlight is changed when the phone is inactive after the designated time (in seconds).

Topics

Supported Backlight Options Backlight and Time Configuration

Supported Backlight Options

The following table lists available configuration options to configure the backlight of phone models/expansion modules:

Phone Model (and the connected expansion module)	Configuration Options
T57W(EXP50)	
T54W(EXP50)	
T48U(EXP43)	
T48S/G(EXP40)	Inactive Level (not applicable to EXP50/EXP43)
T46U(EXP43)	
T46S/G(EXP40)	Backlight Time (not applicable to EXP50/EXP43)
T33P/T33G	
T29G(EXP20)	
T53W/T53(EXP50)	
T43U(EXP43)	Active Level
T31P/T31G/T31	
T27G(EXP20)	Backlight Time (not applicable to EXP50/EXP43)
T42U	
T42S/G	
T41P/S	
T40P/G	Real/light Time
T23P/G	Backlight Time
T21(P) E2	
CP920	

Backlight and Time Configuration

The following table lists the parameters you can use to configure screen backlight and time.

Parameter	phone_setting.active_backlight_level	<y000000000xx>.cfg</y000000000xx>	
	It configures the intensity of the LCD screen when t	he phone is active.	
Description	Note : If the expansion module is connected, the backlight on the expansion module automatically changes to match this setting.		
Permitted Values	Integer from 1 to 10		
Default	8		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T33P, T33G, T31P, T31G, T31, T29G, T27G		
	T48S/T48G/T46S/T46G/T29G/T27G:		
	Settings > Preference > Active Backlight Level		
Web UI	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U/T3	3P/T33G/T31P/T31G/T31:	
	Settings > Preference > Active Level		
	Color Screen Phones:		
Dhama III	Menu > Basic > Display > Backlight > Active Level		
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Display > Back	light > Active Level	
Parameter	phone_setting.inactive_backlight_level	<y000000000xx>.cfg</y000000000xx>	
	It configures the intensity of the LCD screen when t	he phone is inactive.	
Description	Note : If expansion module EXP20 or EXP40 is connected, the backlight on the expansion module automatically changes to match this setting.		
	0-Off, it works only if "phone_setting.backlight_time	" is not set to 1 (Always On).	
Values	1-Low		
Default	1		
Supported Devices	All color screen phones		
Web UI	Settings > Preference > Inactive Level		
Phone UI	Menu > Basic > Display > Backlight > Inactive Level		
Parameter	phone_setting.backlight_time	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the delay time (in seconds) to change the intensity of the LCD screen when the phone is inactive.		
	0-Always On		
	1-Always Off (not applicable to color screen phone	s)	
	15 -15s		
	30 -30s		
Permitted Values	60 -1 min		
	120 -2min		
	300 -5min		
	600 -10min		
	1800 -30min		

Default	T57W/T54W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T33P/T33G/T29G: 0
Delault	T42G/T42S/T42U/T41P/T41S/T40P/T40G/T31P/T31G/T31/T27G/T23P/T23G/T21(P) E2/CP920: 30
Supported Devices	All phones except T30P/T30/T19(P) E2
Web UI	Settings > Preference > Backlight Time(seconds)
	Color Screen Phones:
	Menu > Basic > Display > Backlight > Backlight Time
Phone UI	Black-and-white Screen Phones:
	Menu > Settings > Basic Settings > Display > Backlight > Backlight Time

Label Length for Line Key Display

By default, the line key label only displays the first few characters when the length of the label exceeds the maximum length. You can specify the line key label length as needed. It is only applicable to color screen phones.

When label length feature is set to **Default**:



When label length feature is set to Extended:

- For T54W/T46U/T46S/T46G/T33P/T33G/T29G phones, the display length of the line key label is extended and the characters are displayed in one line.
- For T57W/T48U/T48S/T48G phones, the characters are displayed in two lines.



When label length feature is set to Mid Range (not applicable to T57W/T48U/T48S/T48G/T33P/T33G phones):





Topic

Label Length Display Configuration

Label Length Display Configuration

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

Parameter	features.config_dsskey_length	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the label length displayed on the idle LCD screen for the line key.		
Permitted Values	 0-Default 1-Extended 2-Mid-Range (only applicable to T54W/T46U/T46S/T46G/T29G phones) 		
Default	0		
Supported Devices	All color screen phones		
Web UI	Dsskey > Line Key > Label Length		
Parameter	features.shorten_linekey_label.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display the length of the line key label with 9 digits. Note : It works only if "features.config_dsskey_length" is set to 0 (Default).		
Permitted Values	 0-Disabled, the line key label can display at most 8 digits. 1-Enabled, the line key label can display at least 9 digits. 		
Default	0		
Supported Devices	T54W, T46U, T46S, T46G, T29G		

Label Alignment for Line/Ext Key Display

You can customize the line/Ext key label alignment.

This feature is only applicable to T54W/T46U/T46S/T46G/T33P/T33G/T29G phones and expansion module EXP50 (connected to the T57W/T54W/T53W/T53 phones)/EXP43 (connected to the T48U/T46U/T43U phones).

The following figures show the line key label alignment on T46S/G phones:



Topic

Label Alignment Display Configuration

Label Alignment Display Configuration

The following table lists the parameter you can use to configure the label alignment display.

Parameter	phone_setting.dsskey_label.display_method	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the alignment mode of the line key/Ext key label. Note : If some Ext keys already exist before configuration, you need to refresh the page (press the page keys, or try re-connecting the expansion module) to make the change take effect.			
Permitted Values	0-the label and icon align left 1-when the line key/Ext key is on the left side of the screen, the label and icon align left; when the line key/Ext key is on the right side of the screen, the label and icon align right			
Default	0			
Supported Devices	T54W, T46U, T46S, T46G, T33P, T33G, T29G, EXP50 connected to the T57W/T54W/T53W/T53 phones, and EXP43 connected to the T48U/T46U/T43U phones			

Page Switch Key

By default, the page switch key is available only if a line key not located on the first page is assigned functionality. If you want to configure line keys on more pages from the idle screen quickly, you can configure the line key in the right bottom to be a page switch key.

It is only applicable to T54W/T53W/T53/T46U/T46S/T46G/T43U/T42U/T42S/T42G/T41P/T41S/T33P/T33G/T29G/T27G phones.

Topic

Page Switch Key Configuration

Page Switch Key Configuration

The following table lists the parameter you can use to configure the page switch key.

Parameter	features.keep_switch_page_key.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the line key in the bottom righ	nt of the phone to be fixed as a page switch key.	
Values	 0-Disabled, the page icons appear only if a line key not located on the first page is assigned func- tionality. Then you can use the hard line key in the right bottom to switch pages. 1-Enabled 		
Default	0		
Supported	T54W, T53W, T53, T46U, T46S, T46G, T43U, T42S, T42G, T42U, T41S, T41P, T33P, T33G, T29G,		

Devices	T27G			
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Page Tips

Page tips feature allows the page switch key to indicate different key status on the non-current page. It is mainly used when multi-page line keys are configured.

Yealink T54W/T53W/T53/T46U/T46S/T46G/T43U/T42U/T42S/T42G/T41P/T41S/T33P/T33G/T29G/T27G phones and expansion module EXP50/EXP43 support page switch key.

Topics

Phone Page Tips Expansion Module Page Tips

Phone Page Tips

On T54W/T53W/T53/T46U/T46S/T46G/T43U/T42U/T42S/T42G/T41P/T41S/T33P/T33G/T29G/T27G phones, the page tips feature supports the page icon and page switch key LED to indicate different line key status.

Topics

Phone Page Tips Indicator Phone Page Tips Configuration

Phone Page Tips Indicator

The following shows the page icons on T46S/G phones:

<u>a</u> 1003		11 ()3 Tue, Sep 20
1005			
			123
History	Directory	DND	Menu

The following table lists the status of page icons and page switch key LED displayed on the phones:

Phone Models	LED Status	lcons	Description
	Fast-flashing red		Fast-flashing: the BLF monitored user receives an incoming call on the non-cur- rent page.
T54W/T46U/T46S/T46G/T29G	Solid red		Solid: there is a parked call to the line on the non-current page.
	Fast-flashing green		Fast-flashing: the line receives an incom- ing call on the non-current page.
	Fast-flashing red		Fast-flashing: the BLF monitored user receives an incoming call on the non-cur- rent page.
T33P/T33G	Solid red		Solid: there is a parked call to the line on the non-current page.
	Fast-flashing green		Fast-flashing: the line receives an incom- ing call on the non-current page.

Phone Models	LED Status	lcons	Description
T53W/T53/T43U/T42G/T42S/T42U/T41P/T41S/T27G	Fast-flashing red Fast-flashing green Solid red		Fast-flashing: The BLF monitored user receives an incoming call on the non-current page. Fast-flashing: The line receives an incoming call on the non-current page. Solid: There is a parked call on the non-current page.

Phone Page Tips Configuration

The following table lists the parameter you can use to configure phone page tips.

Parameter	phone_setting.page_tip	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the page icon and page switch key LED to indicate the different status of line keys on the non-current page.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Supported Devices	T54W, T53W, T53, T46U, T46S, T46G, T43U, T42S, T42G, T42U, T41S, T41P, T33P, T33G, T29G, T27G		
Web UI	Dsskey > Line Key > Enable Page Tips		

Expansion Module Page Tips

On expansion module EXP50/EXP43, the page tips feature allows the page switch key LED to indicate that BLF monitored user receives an incoming call on the non-current page.

Topics

Expansion Module Page Tips Indicator Expansion Module Page Tips Configuration

Expansion Module Page Tips Indicator

The following table lists the status of the page switch key LED displayed on the expansion module:

Models	LED Status	lcons	Description
EXP50/EXP43	Flashing red	/	The BLF monitored user receives an incoming call on the non-current pages.

Expansion Module Page Tips Configuration

The following table lists the parameters you can use to configure expansion module page tips.

Parameter	expansion_module.page_tip.blf_call_in.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the page switch key LED on the EXP50/EXP43 expansion module to indicate when BLF monitored user receives an incoming call on the non-current pages.		
	0-Disabled 1-Enabled		

Default	1		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U		
Parameter	expansion_module.page_tip.blf_call_in.led	<y000000000xx>.cfg</y000000000xx>	
	It configures the page switch key LED status on the itored user receives an incoming call on the non-cu		
	This value uses the same macro action string synta	x as an Enhanced DSS key.	
	If it is left blank, the default value takes effect.		
Description	Example:		
	expansion_module.page_tip.blf_call_in.led = \$LEDr300o300\$		
	It means an infinite loop for page switch key LED status: glow red for 300ms and then be in the off state for 300ms.		
	Note: It works only if "expansion_module.page_tip.blf_call_in.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	\$LEDr300o300\$		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U		

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)

Time Zone	Time Zone Name	Time Zone	Time Zone Name
-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)
-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

Time Zone	Time Zone Name	Time Zone	Time Zone Name
-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)
-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	Taipei
0	Reykjavik	+8	Kuala Lumpur
0	Casablanca	+8	Australia(Perth)

Time Zone	Time Zone Name	Time Zone	Time Zone Name
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	Могоссо	+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
+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

Time Zone	Time Zone Name	Time Zone	Time Zone Name
+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 ma	nually 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	n the offset time offered by the DHCP server.	
Description	Note: It is only available to offset from Greenwich M	lean Time GMT 0.	
	0-Disabled		
Values	1-Enabled		
Default	0		
Web UI	Settings > Time&Date > DHCP Time		
	Color Screen Phones:		
Phone UI	Menu > Basic > Time & Date > DHCP Time		
Filone Of	Black-and-white Screen Phones:		
	Menu > Settings > Basic 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		
	Color Screen Phones:		
Phone UI	Menu > Basic > Time & Date > General > SNTP Settings > NTP Server1		
	Black-and-white Screen Phones:		

	Menu > Settings > Basic Settings > Time&Date > SNTP Settings > NTP Server1			
Parameter	local_time.ntp_server2			
	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 parameter "local_time.ntp_server1", or cannot be accessed, the phone will request the time and date from the secondary NTP server.			
Permitted Values	String within 99 characters			
Default	pool.ntp.org			
Web UI	Settings > Time&Date > Secondary Server			
	Color Screen Phones:			
Phone UI	Menu > Basic > Time & Date > General > SNTP Se	ttings > NTP Server2		
	Black-and-white Screen Phones:			
	Menu > Settings > Basic Settings > Time&Date > S	NTP Settings > NTP Server2		
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 (15~86400)s)		
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			
	Color Screen Phones:			
Phone UI	enu > Basic > Time & Date > General > SNTP Settings > Time Zone			
	Black-and-white Screen Phones:			
	Menu > Settings > Basic Settings > Time&Date > SNTP Settings > Time Zone			
Parameter	local_time.time_zone_name	<y000000000xx>.cfg</y000000000xx>		
	It configures the time zone name.			
Description	cription Note: It works only if "local_time.summer_time" is set to 2 (Automatic) and the parameter			
	time_zone" should be configured in advance. String within 32 characters			
Permitted Values	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			

	Color Screen Phones:
Phone UI	Menu > Basic > Time & Date > General > SNTP Settings > Location
	Black-and-white Screen Phones:
	Menu > Settings > Basic Settings > Time&Date > SNTP Settings > 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	
	optional	Day: 1~31	
		Hour: 0 (midnight)~23	
szStart		Month/Week of Month/Day of Week/Hour of Day/Offset Days (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	
		Offset Days: -1~-6	
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://sup-

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"/>

utoDST.xml ×	
<pre><dst sztime="+4:30" szzone="Afghanistan(Kabul)"></dst></pre>	
<pre><dst sztime="+5" szzone="Kazakhstan(Aqtobe)"></dst></pre>	
<dst sztime="+5" szzone="Kyrgyzstan(Bishkek)"></dst>	
<pre><dst <="" itype="0" pre="" 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>CDST 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)".

AutoDST.xm	nl* ×			
			,8,0,	
<dre>DST</dre>	szTime="+3:30"	szZone="Iran(Teheran)" iType="0" szStart="3/22/0"	szEnd="9/22/0" s	zOffset="60"/>
<dre>DST</dre>	szTime="+4"	<pre>szZone="Armenia(Yerevan)" iType="1" szStart="3/5/7/2"</pre>	szEnd="10/5/7/3"	szOffset="60"/>
<dre>DST</dre>	szTime="+4"	szZone="Azerbaijan(Baku)" iType="1" szStart="3/5/7/4"	szEnd="10/5/7/5"	szOffset="60"/>
<dre>DST</dre>	szTime="+4"	szZone="Georgia(Tbilisi)" />		
<d>>DST</d>	szTime="+4"	szZone="Kazakhstan(Aktau)" />		
<dre>DST</dre>	szTime="+4"	szZone="Russia(Samara)" />		
<dot +4:30"<="" style="border: 2px solid black; color: black; color:</th><th>szTime=" th=""><th>szZone="Afghanistan(Kabul)"/> Modify it:</th><th></th><th></th></dot>	szZone="Afghanistan(Kabul)"/> Modify it:			
<dot +5"<="" style="border: 2px solid black; color: black; color:</th><th>szTime=" th=""><th>szZone="Kazakhstan (Aqtobe) "/> iType="1" szStart="10/1/7/2" szEnd=</th><th>="4/1/7/3" szOffset="60"</th><th></th></dot>	szZone="Kazakhstan (Aqtobe) "/> iType="1" szStart="10/1/7/2" szEnd=	="4/1/7/3" szOffset="60"		
<dstd><dst< td=""></dst<></dstd>	szTime="+5"	szZone="Kyrgyzstan(Bishkek)" />		
	szTime="+5"	szZone="Pakistan(Islamabad)" iType="0" szStart="4/15/0"	szEnd="11/1/0"	szOffset="60"/>
<dre>DST</dre>	szTime="+5"	szZone="Russia(Chelyabinsk)" />		
<dot +5:30"<="" style="border: 2px solid black; color: black; color:</th><th>szTime=" th=""><th>szZone="India(Calcutta)" iType="1" szStart="9/5/7/3"</th><th>szEnd="4/1/7/2"</th><th>szOffset="60"/></th></dot>	szZone="India(Calcutta)" iType="1" szStart="9/5/7/3"	szEnd="4/1/7/2"	szOffset="60"/>	
<dre>DST</dre>	szTime="+5:45"	szZone="Nepal (Katmandu)"/>		
<dstd><dstd><dstd></dstd></dstd></dstd>	szTime="+6"	szZone="Kazakhstan (Astana, Almaty) "/>	1 DOT	
<dre>DST</dre>	szTime="+6"	szZone="Russia (Novosibirsk, Omsk)" />	abst	
<dstd><dstd><dstd></dstd></dstd></dstd>	szTime="+6:30"	szZone="Myanmar(Naypyitaw)" />		
<dstd><dst< td=""></dst<></dstd>	szTime="+7"	szZone="Russia(Krasnoyarsk)" />		
<dst< th=""><th>szTime="+7"</th><th>szZone="Thailand (Bangkok) "/></th><th></th><th></th></dst<>	szTime="+7"	szZone="Thailand (Bangkok) "/>		
<d>>DST</d>	szTime="+8"	szZone="China (Beijing) "/>		
<dre>DST</dre>	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) feature.		
	ed 0-Disabled 1-Enabled		
Permitted Values			
	2-Automatic		
Default	2		
Web UI	Settings > Time&Date > Daylight Saving Time		
Phone UI	Color Screen Phones:		

	Menu > Basic > Time & Date > General > SNTP Settings > Daylight Saving			
	Black-and-white Screen Phones:			
	Menu > Settings > Basic Settings > Time&Date > SNTP Settings > Daylight Saving			
	local_time.dst_time_type	<y000000000xx>.cfg</y000000000xx>		
	It configures the Daylight Saving Time (DST) type.			
Description				
Permitted	0-DST by Date			
Values	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	me (DST).		
Description	Note: It works only if "local_time.summer_time" is s	et to 1 (Enabled).		
	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			
	Month/Week of Month/Day of Week/Hour of Day, Offset Days Forward-DST by Week, use the following mapping:			
Values	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			
	Offset Days (Optional.): -1=one day offset forward, -2-two days offset forward,, -6-six days offset forward			
Default	1/1/0			
Web UI	Settings > Time&Date > Start Date			
Parameter	local_time.end_time	<y000000000xx>.cfg</y000000000xx>		
	It configures the end time of the Daylight Saving Tir	ne (DST).		
Description	Note: It works only if "local_time.summer_time" is set to 1 (Enabled).			
	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			
	Month/Week of Month/Day of Week/Hour of Day, Offset Days Forward-DST 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		
	Offset Days (Optional.): -1=one day offset forward, -2-two days offset forward,, -6-six days offset for- ward		
Default	12/31/23		
Web UI	Settings > Time&Date > End Date		
Parameter	local_time.offset_time <y00000000xx>.cfg</y00000000xx>		
	It configures the offset time (in minutes) of Daylight Saving Time (DST).		
Description	Note: It works only if "local_time.summer_time" is set to 1 (Enabled).		
Permitted Values	Integer from -300 to 300		
Default	60		
Web UI	Settings > Time&Date > Offset (minutes)		
Parameter	auto_dst.url	<y000000000xx>.cfg</y000000000xx>	
Decerintien	It configures the access URL of the DST file (AutoDST.xml).		
Description	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	
	Color Screen Phones:	
Phone UI	Menu > Basic > Time & Date > General > Manual Settings	
	Black-and-white Screen Phones:	
Menu > Settings > Basic Settings > Time & Date > Manual Settings		nual Settings

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	local_time.time_format	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the time format.		
Permitted	0 -Hour 12, the time will be displayed in 12-hour format with AM or PM specified.		
Values	1-Hour 24, the time will be displayed in 24-hour form	at (for example, 2:00 PM displays as 14:00).	
Default	1		
Web UI	Settings > Time&Date > Time Format		
	Color Screen Phones:		
Phone UI	Menu > Basic > Time & Date > Time & Date Format > Time Format		
	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Time&Date > Tim	e & Date Format > Time Format	
Parameter	local_time.date_format	<y000000000xx>.cfg</y000000000xx>	
Decerintion	It configures the date format.		
Description	Note: The value configured by the parameter "Icl.date configured by this parameter.	etime.date.format" takes precedence over that	
	0-WWW MMM DD		
	1-DD-MMM-YY		
	2-YYYY-MM-DD		
	3-DD/MM/YYYY		
	4-MM/DD/YY		
	5-DD MMM YYYY		
Permitted Values	6-WWW DD MMM		
	20-Custom format configured by "Icl.datetime.date.format", for example, DD.MM.YYYY		
	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		
	Color Screen Phones:		
Phone UI	Menu > Basic > Time & Date > Time & Date Format > Date Format		
	Black-and-white Screen Phones:		

	Menu > Settings > Basic Settings > Time&Date > Time & Date Format > Date Format		
Parameter	lcl.datetime.date.format	<y000000000xx>.cfg</y000000000xx>	
Description	ption 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		
Permitted	"Y"/"YY" represents a two-digit year, more than two "Y" letters (for example, YYYY) represent a four- digit year;		
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.		
Default	Blank		
	Set the following:		
	Icl.datetime.date.format = DD.MM.YYYY		
Case Scen-	Then a new date format is added on the phone.		
ario	To make the newly added date format take effect, you also need to set the following:		
	local_time.date_format = 20		
	You can also manually select this new date format via	a the web/phone user interface.	

Date Customization Rule

You need to know the following rules when customizing date formats:

Format	Description
Y/YY	It represents a two-digit year.
	For example, 16, 17, 18
V is used more than twice (for example, VVV, VVVV)	It represents a four-digit year.
Y is used more than twice (for example, YYY, YYYY)	For example, 2016, 2017, 2018
DAMANA	It represents a two-digit month.
M/MM	For example, 01, 02,, 12
h Ah Ah A	It represents the abbreviation of the month.
МММ	For example, Jan, Feb,, Dec
Minused more than three times (for even pla MMMM)	It represents the long format of the month.
M is used more than three times (for example, MMMM)	For example, January, February,, December
Disuand once or more than once (for exemple, 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.
w/ww	For example, Mon, Tue,, Sun
W is used more than twice (for example, WWW,	It represents the long format of the day of week.

Format	Description
www)	For example, Monday, Tuesday,, Sunday

Idle Clock Display

Idle clock is displayed on the center of the idle screen by default. You can hide the idle clock, and then the time and date are displayed in the right of the status bar.

It is only applicable to T54W phones.

Topic

Idle Clock Display Configuration

Idle Clock Display Configuration

The following table lists the parameter you can use to configure the idle clock display.

Parameter	phone_setting.idle_clock_display.enable	<y000000000xx>.cfg</y000000000xx>
Description	r iption It enables or disables the phone to display the idle clock.	
	0-Disabled 1-Enabled	
Default	1	
Supported Devices	T54W	
Phone UI	Menu > Basic > Display > Idle Clock > Idle Clock Display	

Logo Customization

Since a logo is a visual entity signifying an organization or company, you can upload a custom logo or specify the logo text shown on the LCD screen. The logo screen and the idle screen display alternately.

The following shows a system logo (Yealink logo) displayed on T27G:



It is not applicable to color screen phones.

The phone will not display the logo if one of the following issues occurs:

- You have configured "screensaver.xml_browser.url".
- The phone has a pop-up box.
- The phone has a missed call.
- The phone has an unread voice mail.

Topics

Custom Logo Picture Limit Customizing a Logo Picture

Custom Logo Configuration Example: Setting a Custom Logo Display

Custom Logo Picture Limit

The following table lists the supported logo picture format and resolution for each phone model.

Phone Model	Logo File Format	Resolution
T42U/T42S/T42G/T41P/T41S/T31P/T31G/T31/T30P/T30		<=192*64 2 gray scale
T53W/T53/T43U		<=360*160 2 gray scale
T27G		<=240*120 2 gray scale
T40P/T40G/T23P/T23G/T21(P) E2/T19(P) E2	.dob	<=132*64 2 gray scale
CP920		<=248*120 2 gray scale

Note: Before uploading your custom logo to phones, ensure your logo file is correctly formatted.

Customizing a Logo Picture

Yealink phones only support the *.dob format logo picture. Yealink provides PictureExDemo tool to convert *.bmp format to *.dob format. You can ask the distributor or Yealink FAE for the PictureExDemo tool.

Procedure

- 1. Double click the PictureExDemo.exe.
- 2. Click Add button to open a *.bmp file.

You can repeat step 2 to add multiple original picture files.

🔀 GifConvertGz	x
Add DeleteAll Convert About	

3. Click the Convert button.

Add DeleteAll	Add DeleteAll Convert	Add DeleteAll Convert About

Then you can find the $\ensuremath{\text{DOB}}$ logo files in the $\ensuremath{\text{adv}}$ directory.

Custom Logo Configuration

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

Parameter	phone_setting.lcd_logo.mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the logo shown on the LCD screen.		
	0 -Off, the phone is not allowed to display a logo.		
	1-System Logo, the LCD screen will display the system logo.		
Values	2-Custom Logo, the LCD screen will display the custom logo (you need to upload a custom logo file to the IP phone).		
Default	0		
Supported Devices	All black-and-white screen phones		
Web UI	Features > General Information > Use Logo		
Parameter	phone_setting.lcd_logo.text	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the text displayed on the system logo.		
-	Note: It works only if "phone_setting.lcd_logo.mode	e" is set to 1 (System Logo).	
Permitted Values	Combination of up to 7 letters		
Default	Yealink		
Supported Devices	T31P, T31G, T31, T30P, T30		
Web UI	Features > General Information > Logo Text		
Parameter	lcd_logo.url	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the custom logo file.		
Description	Note: It works only if "phone_setting.lcd_logo.mode" is set to 2 (Custom Logo).		
Permitted Values	URL within 511 characters		
Default	Blank		
Supported	All black-and-white screen phones		

Devices				
Web UI	Features > General Information > Upload Logo			
Parameter	phone_setting.lcd_logo.show_time	<y000000000xx>.cfg</y000000000xx>		
	It configures the time (in seconds) the logo is displa	It configures the time (in seconds) the logo is displayed.		
Description	If it is set to 0 and the logo is loaded, the device will not exit the logo display page until you wake up the device.			
	Note: It works only if "phone_setting.lcd_logo.mode" is not set to 0 (Off).			
Permitted Values	Integer from 0 to 21600			
Default	3			
Supported Devices	T27G, T41S, T42S, T42U, T43U, T53, T53W, CP920, T31P, T31G, T31, T30P, T30			
Parameter	lcd_logo.delete <y00000000xx>.cfg</y00000000xx>			
Description	It deletes all custom logo files.			
Permitted Values	http://localhost/all			
Default	Blank			
Supported Devices	All black-and-white screen phones			

Example: Setting a Custom Logo Display

The following example shows the configuration for uploading a custom logo picture "logo.dob", and then setting it to display on the phone idle screen. The logo picture is customized and placed on the provisioning server "192.168.10.25".

Example

lcd_logo.url =http://192.168.10.25/logo.dob

phone_setting.lcd_logo.mode =2

After provisioning, the phone displays the custom logo screen and the idle screen alternately.

Call Display

By default, the phones present the contact information (including avatar and identity) 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.contact_photo_display.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It configures whether to display contact avatar when it receives an incoming call, dials an outgoing call or engages in a call.		
	0-Never, do not display contact avatar no matter whether the contact avatar exists or not		
Permitted Values	1-Always, display the customized contact avatar if it exists; display the built-in avatar if the customized contact avatar does not exist		
	2-Adaptive, display the customized contact avatar if it exists; otherwise, do not display		
Default	1		
Supported Devices	All color screen phones		
Web UI	Settings > Call Display > Contact Photo Display Mode		
Parameter	phone_setting.little_contact_photo_display.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display the little contact photo dials a call or is in a call.	when it receives an incoming call,	
Description	Note: It works only if "phone_setting.contact_photo_display.enab ive).	le" is set to 1 (Always) or 2 (Adapt-	
Permitted	0-Disabled		
Values	1-Enabled, the phone can display the full 16-digit number.		
Default	1		
Supported Devices	T46U, T46S		
Parameter	account.X.picture_info_enable ^[1]	<mac>.cfg</mac>	
	It enables or disables the phone to download the picture from the URL contained in the Call-Info header of the INVITE message.		
	Format of call info:		
Description	Call-Info: <image url=""/> ;purpose=wallpaper		
	Call-Info: <image url=""/> ;purpose=icon		
	Note : If the phone receives both the call info information of "purpose = wallpaper" (wallpaper) and "purpose = icon" (avatar) at the same time, only the wallpaper is displayed, the avatar is not displayed.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Supported	T46S, T48S, T46U, T48U, T54W, T57W, T33P, T33G		
	l de la constante de		

Devices					
	Get the picture from call-info and display it on the phone as the wallpaper while receiving/dialing a call, or during a call:				
Case Scen-	Configure the call-info:				
ario	Call-Info: <http: 192.168.0.1="" wallpaper.jpg="">;purpose=wallpaper</http:>				
	Set the following:				
	account.1.picture_info_enable = 1				
Parameter	phone_setting.called_party_info_display.enable	<y000000000xx>.cfg</y000000000xx>			
	It enables or disables the phone to display the local identity when ing a call.	-			
	Note : The information display method is configured by the param play_method". To display the local identity during a call is not app T48G/T46G/T42G/T41P/T31P/T31G/T31/T30P/T30/T29G/T23P/T2	licable to			
	0-Disabled 1-Enabled				
Default	0				
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 receives an incoming call, dials an outgoing call or is during a call.				
	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>				
	5-Null				
Default	0				
Web UI	Settings > Call Display > Call Information Display Method				
Parameter	phone_setting.call_display_name.mode	<y000000000xx>.cfg</y000000000xx>			
Description	It specifies which display names to be used as the caller ID/callee ID for calls from/to contacts in the phone directory.				
	Note: This parameter also affects the history records display.				
Permitted Values	0-Names matched to the entries in the following phone directories are displayed preferentially, the priority is as follows: Local Directory > Remote Phone Book > Broadsoft Network Directory > BroadCloud Buddies > LDAP Directory > Network signaling.				
	1-Names provided through network signaling are displayed preferentially.				
	0				
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G				

Parameter	phone_setting.incoming_call.horizontal_roll_interval	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the interval (in milliseconds) for the phone to horizontally scroll the caller information when the phone is ringing.			
Permitted Values	Integer from 100 to 2000			
Default	500			
Supported Devices	All phones except CP920			
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	account.X.refresh_remote_id.enable ^[1]	<mac>.cfg</mac>		
Description	It enables or disables the phone to update the identity of the caller according to the request message from the remote party.			
Permitted Values	0-Disabled 1-Enabled			
Default	1			
Parameter	sip.disp_incall_to_info ^[2] <v00000000xx>.cfg</v00000000xx>			
Description	It enables or disables the phone to display the identity contained in the To field of the INVITE message when it receives an incoming call.			
Permitted Values	0-Disabled 1-Enabled			
Default	0			

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

^[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.

101							
§ 101				\$ 1023	\$ 1023:		
)		
					Tom(1001)	Π	
-			-		4603		
Directory	123		Cancel	Cancel	DPickup		More
	T469	5/G	*		т	27G	

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

The following table lists the parameters you can use to configure the display method on dialing.

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.	
Description	Note: It works only if "features.station_name.value" is left blank.		
	1-Label, configured by the parameter "account.X.la	bel".	
Permitted Values	2-Display Name, configured by the parameter "acc	ame, 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	<y00000000xx>.cfg</y00000000xx>	
Description	It configures the "#" or "*" key as the send key.		
	0 -Disabled, neither "#" nor "*" can be used as the send key.		
Permitted Values	1-# key		
	2 -* key		
Default	1		
Web UI	Features > General Information > Key As Send		
	T54W/T46U/T46S/T46G/T33P/T33G/T29G:		
	Menu > Features > Others > General > Key As Send		
Phone UI	T57W/T48U/T48S/T48G:		
	Menu > Features > General > Key As Send		
	Black-and-white Screen Phones:		
	Menu > Features > Key As Send		
Parameter	features.send_pound_key <y00000000xx>.cfg</y00000000xx>		
Description	It configures the behavior when the user presses the # key twice on the dialing screen.		

	Note: It works only if "features.key_as_send" is set to 1 (# key).			
Permitted	0 -The phone will dial out "#".			
Values	1-The phone will not dial out "#". After the user presses the # key again, the phone will dial out "##".			
Default	0			
Web UI	Features > General Information > Send Pound Key			

Softkey Layout

Softkey layout is used to customize the soft keys at the bottom of the phone screen for best meet users' requirements. In addition to specifying which soft keys to display, you can determine their display order. The configurations for softkey layout are based on call states.

The following shows the soft keys displaying on the phone in the dialing state:

% 101			
<u>§</u> 101	1002		
	1002		
Send	123	Delete	Cancel

Note: You can configure the EDK soft keys in different call states. Configuring the EDK soft keys may affect the softkey layout in different call states. For more information on EDK soft keys, refer to EDK Soft Keys Configuration.

Topics

Softkey Layout File Customization Softkey Layout Configuration Example: Setting the Soft Keys Layout in Talking State

Softkey Layout File Customization

You can also configure the softkey layout using the softkey layout templates for different call states.

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

Topics

Softkey Layout File Elements and Attributes Customizing Softkey Layout File

Softkey Layout File Elements and Attributes

The following table lists the elements and attributes you need to understand in the softkey layout file. We recommend that you do not edit these elements and attributes.

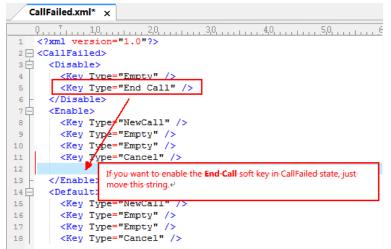
Elements & Attributes	Description
<disable></disable>	Specify the disabled soft key list.
	The phone screen will not display the disabled soft keys.
<enable></enable>	Specify the enabled soft key list.

Elements & Attributes	Description
	The phone screen will display the enabled soft keys.
<default></default>	Specify the default soft key list.
	The phone screen displays these soft keys by default.
<key type=" "></key>	Specify the soft key type.

Customizing Softkey Layout File

- 1. Open the template file.
- 2. For each soft key that you want to enable, move the string from the disabled soft key list to enabled soft key list in the file or replace the Empty in the enabled soft key list.

The following shows a portion of the softkey layout file "CallFailed.xml":



3. For each soft key that you want to disable, just move the string from the enabled soft key list to disabled soft key list.

The following shows a portion of the softkey layout file "CallFailed.xml":



4. Save the change and place this file to the provisioning server.

Softkey Layout Configuration

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

Parameter	phone_setting.custom_softkey_enable <y0000< th=""><th>000000xx>.cfg</th></y0000<>	000000xx>.cfg		
Description	It enables or disables the custom soft keys layout feature.			
Permitted Values	0-Disabled 1-Enabled			
Default	0			
Web UI	Settings > Softkey Layout > Custom SoftKey			
Parameter	phone_setting.custom_softkey.apply_to_states 0000</th <th>000000xx>.cfg</th>	000000xx>.cfg		
	It configures the desired call state to apply the custom softk To configure the call states to apply the custom softkey layo Example :			
Description	phone_setting.custom_softkey.apply_to_states = DialingEr It means that DialingEmpty and DialTransEmpty call states To configure the call states not to apply the custom softkey	will use the custom softkey layout.		
	Example: phone_setting.custom_softkey.apply_to_states = -DialingEmpty,DialTransEmpty It means that DialingEmpty and DialTransEmpty call states will not use the custom softkey layout. Note: Multiple call states are separated by commas. It works only if "phone_setting.custom_softkey_			
Permitted Values	enable" is set to 1 (Enabled). Blank (all call states will use the custom softkey layout) Dialing, DialingEmpty, DialTrans, DialTransEmpty, DialConference, DialConferenceEmpty, Talk, Hold, Held, CallIn, NewCallIn, BeTransferred, SemiAttendTrans, Conferenced, ConferencedHold, ConferencedNewCallIn, Connecting, CallFailed, Paging, ListeningPaging, RingBack, SemiAt- tendTransBack			
Default	Blank			
Parameter	features.custom_softkey_dynamic.enable <y0000< td=""><td>000000xx>.cfg</td></y0000<>	000000xx>.cfg		
Description	ralized call recording, and executive-assistant).			
Permitted Values	 Note: It works only if "phone_setting.custom_softkey_enable" is set to 1 (Enabled). 0-Disabled 1-Enabled, the functional soft keys display on the phone screen if the corresponding feature is available. 			
Default	1			
Parameter	custom_softkey_call_failed.url <y0000< th=""><th>000000xx>.cfg</th></y0000<>	000000xx>.cfg		
Description	It configures the access URL of the custom softkey layout file in the CallFailed state. Note: It works only if "phone_setting.custom_softkey_enable" is set to 1 (Enabled).			
Permitted Values	URL within 511 characters			

Default	Blank			
Parameter	custom_softkey_call_in.url	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the access URL of the custom softkey layout file in the CallIn state.			
	Note: It works only if "phone_setting.custom_softkey_enable" is set to 1 (Enabled).			
Permitted Values	URL within 511 characters			
Default	Blank			
Parameter	custom_softkey_connecting.url	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the access URL of the custom softkey	layout file in the Connecting state.		
	Note: It works only if "phone_setting.custom_softke	y_enable" is set to 1 (Enabled).		
Permitted Values	URL within 511 characters			
Default	Blank			
Parameter	custom_softkey_dialing.url <y00000000xx>.cfg</y00000000xx>			
Description	It configures the access URL of the custom softkey layout file in the Dialing state.			
-	Note: It works only if "phone_setting.custom_softkey_enable" is set to 1 (Enabled).			
Permitted Values	URL within 511 characters			
Default	Blank			
Supported Devices	All phones except T57W, T48U, T48S and T48G			
Parameter	custom_softkey_ring_back.url	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the access URL of the custom softkey	layout file in the RingBack state.		
-	Note: It works only if "phone_setting.custom_softke	y_enable" is set to 1 (Enabled).		
Permitted Values	URL within 511 characters			
Default	Blank			
Parameter	custom_softkey_talking.url <y00000000xx>.cfg</y00000000xx>			
Description	It configures the access URL of the custom softkey layout file in the Talking state.			
-	Note: It works only if "phone_setting.custom_softkey_enable" is set to 1 (Enabled).			
Permitted Values	URL within 511 characters			
Default	Blank			

Example: Setting the Soft Keys Layout in Talking State

The following example shows the configuration for setting the soft key layout in the talking state.

Customize a softkey layout file "Talking.xml" and place this file to the provisioning server "http://192.168.10.25".

Example

phone_setting.custom_softkey_enable = 1 custom_softkey_talking.url = http://192.168.10.25/Talking.xml After provisioning, you can use the enabled soft keys during a call.

Input Method

You can customize the existing keypad input method for all phones and the existing onscreen keyboard input method for T57W/T48U/T48S/T48G phones.

The T57W/T48U/T48S/T48G phones use the onscreen keyboard by default. After you disable it, you can use the phone keypad to enter data.

Topics

Keypad Input Method File Customization Onscreen Keyboard Input Method File Customization Input Method Configuration Example: Configuring the French Onscreen Keyboard Input Method

Keypad Input Method File Customization

You can first customize the Yealink-supplied keypad input method file "ime.txt", "Russian_ime.txt" or "Hebrew_ ime.txt", and then download it to the IP phone. The changes in the "Russian_ime.txt" file becomes effective when the language is set to Russian. If you want to customize the input method for all languages, the input method file must be named as "custom_ime.txt" (case-sensitive).

Yealink phones support 6 input methods: 2aB, abc, Abc, 123, ABC and Hebrew.

Note: By default, the Hebrew input method is hidden, the phone will automatically use the Hebrew input method when the language is set to Hebrew.

The changes in the "Hebrew_ime.txt" file becomes effective when the language is set to Hebrew.

You can ask the distributor or Yealink FAE for keypad input method file. You can also obtain the keypad input method file online: http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

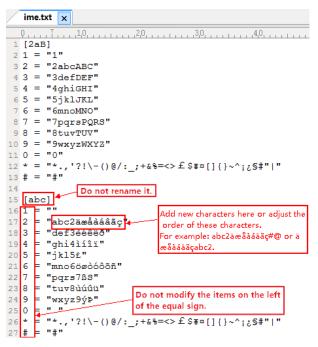
Topic

Customizing the Keypad Input Method File

Customizing the Keypad Input Method File

When adding new characters for the existing input method, ensure that the added characters are supported by the phones. The IP phone can only recognize the keypad input method files uploaded using Unicode encoding.

- 1. Open the desired keypad input method file (for example, ime.txt).
- Under the input method field (for example, [abc]), add new characters or adjust the order of the characters within the double quotation marks on the right of the equal sign.



- 3. Save the keypad input method file.
- 4. Rename the input method file (for example, custom_ime.txt), and place it to the provisioning server.

Note: If you just want to customize the input method for a certain language, the file name must be "language name_ime.txt" (for example, German_ime.txt). The valid language names are: English, Chinese_S, Chinese_T, French_CA, French, German, Italian, Polish, Portuguese, Portuguese_LA, Spanish, Spanish_LA, Turkish and Russian.

Onscreen Keyboard Input Method File Customization

The T57W/T48U/T48S/T48G phones support using the onscreen keyboard to enter data and provide English onscreen keyboard by default. You can create a new language onscreen keyboard or customize the existing input method files of the onscreen keyboard.

Yealink provides three types of input method files for onscreen keyboard customization. You can configure them as required.

You can ask the distributor or Yealink FAE for onscreen keyboard input method files. You can also obtain the onscreen keyboard input method files online: http://sup-port.yealink.com/documentFront/forwardToDocumentFrontDisplayPage.

Topics

Description of the Onscreen Keyboard Input Method Files Lang File Elements and Attributes Customizing a Lang File Ime File Elements and Attributes Customizing an Ime File Layout File Elements and Attributes Customizing a Layout File

Description of the Onscreen Keyboard Input Method Files

Before you customize the onscreen keyboard input method files, take a few moments to familiarize yourself with their formats and descriptions.

File Type	File Name (* represents any char- acter)	Template File	Description
Lang	keyboard_lang.xml	keyboard_lang.xml	Configures the language of the keyboard.
Ime	keyboard_ime_*.xml	keyboard_ime_en.xml	Configures the alternative characters for English keyboard in alphabetic input mode.
		keyboard_ime_francais.xml	Configures the alternative characters for French keyboard in alphabetic input mode.
		keyboard_ime_num.xml	Configures the alternative characters for keyboard in numeric&symbolic input mode.
Layout		keyboard_layout_1.xml	Configures the layout of English keyboard in alphabetic input mode.
		keyboard_layout_2.xml	Configures the layout of English or French keyboard in numeric&symbolic input mode.
		keyboard_layout_fran- cais.xml	Configures the layout of French keyboard in alphabetic input mode.

Note: If you want to customize the existing input method files of the onscreen keyboard, you just need to upload the custom files.

If you want to create a new language onscreen keyboard, you should upload all three types of input method files at a time. For the example above, you should upload "keyboard_lang.xml", "keyboard_ime_francais.xml" and "keyboard_layout_francais.xml" files at a time.

Lang File Elements and Attributes

The following table lists the elements and attributes you need to understand in the Lang file. We recommend that you do not edit these elements and attributes.

Elements	Attributes	Description			
Lang	Name	Specify the display name of the language.			
Ime	Name	Specify the Ime file(s) that the language will use. Note : One Ime file can be used by multiple languages. For example, the key- board in numeric&symbolic input mode is almost the same for each lan- guage, you can use the template file (keyboard_ime_num.xml) as the input method file for multiple languages.			

Customizing a Lang File

1. Open the template file.

2. Edit the corresponding string in the file.

•	k	eyboard_lang.xml ×
		0
1	-	<pre><?xml version="1.0" encoding="ISO-8859-1"?></pre>
2		<keyboardlang></keyboardlang>
3	Υ	(Keyboal dealig)
4		</th
5	Д	>
6	띡	</th
7		<lang name="English"></lang>
8		<ime name="keyboard_ime_en.xml"></ime>
9		<ime name="keyboard_ime_num.xml"></ime>
10		
11	$\left - \right $	> Specify the display name of the
12		language.
13	þ.	<lang name="Francais"></lang>
14	Т	<ime name="keyboard ime francais.xml"></ime>
15		

3. Save the change and place this file to the provisioning server.

Ime File Elements and Attributes

The following table lists the elements and attributes you need to understand in the Ime file. We recommend that you do not edit these elements and attributes.

Elements	Attributes	Attributes Description						
	Layout	Configures the Layout file that the keyboard will use.						
		Configures the display name of the input mode when the input mode changes to lowercase.						
KeyboardIme	CapitalName	Configures the display name of the input mode when the input mode changes to uppercase.						
	IMEIVNE	It can be set to Char or Symbol. If it is set to Symbol, the shift key will not take effect.						
Line	/	Specifies a line on the keyboard. The first Line element represents the first line of the keyboard.						
	ImeNormal	Configures the characters the key provides when the input mode is set to lowercase.						
Кеу	•	Configures the characters the key provides when the input mode is set to uppercase. Note: It works only if the ImeType is set to Char.						
	Function	Configures the key's function. There are 11 types of values for function attributes, you can set to different values to provide different functions. The details are introduced below.						
The followir	The following table lists the usage of the function keys:							

No.	Function Key	Usage				
1	backspace	backspace Delete the entered characters.				
2	space	Enter spaces.				
3	enter Confirm the settings/Go to the next field.					
4	left	Position the cursor.				

No.	Function Key	Usage				
5	right	Position the cursor.				
6	up	up Position the cursor.				
7	down	Position the cursor.				
8	hide	Hide the onscreen keyboard.				
9	Sniff	Switch between the uppercase input mode and the lowercase input mode.				
10	lang	Change the language of the keyboard.				
11	switch	Change input mode.				

Customizing an Ime File

- 1. Open the template file.
- 2. Edit the corresponding string in the file.

keyboard_ime	_francais.xml ×		
<key< th=""><th>ImeNormal="0°</th><th>30,</th><th>50</th></key<>	ImeNormal="0°	30,	50
<key - <td></td><td>kspace"></td><td></td></key 		kspace">	
		Add the optional characters	
<pre> <line></line></pre>	_	key for the lowercase input n	node.
<key< th=""><th>ImeNormal='q'</th><th>ImeCapital='Q'></th><th></th></key<>	ImeNormal='q'	ImeCapital='Q'>	
<key< th=""><th>ImeNormal="s"</th><th>ImeCapital="S"></th><th>Add the optional characters of this</th></key<>	ImeNormal="s"	ImeCapital="S">	Add the optional characters of this
<key< th=""><th>ImeNormal="d"</th><th>ImeCapital="D"></th><th>key for the uppercase input mode.</th></key<>	ImeNormal="d"	ImeCapital="D">	key for the uppercase input mode.
<key< th=""><th>ImeNormal="f"</th><th>ImeCapital="F"><th></th></th></key<>	ImeNormal="f"	ImeCapital="F"> <th></th>	
<key< th=""><th><pre>ImeNormal="g"</pre></th><th><pre>ImeCapital="G"></pre></th><th>The third key of this line.</th></key<>	<pre>ImeNormal="g"</pre>	<pre>ImeCapital="G"></pre>	The third key of this line.
<key< th=""><th>ImeNormal="h"</th><th><pre>ImeCapital="H"></pre></th><th>The third key of this line.</th></key<>	ImeNormal="h"	<pre>ImeCapital="H"></pre>	The third key of this line.
<key< th=""><th><pre>ImeNormal="j"</pre></th><th><pre>ImeCapital="J"></pre></th><th></th></key<>	<pre>ImeNormal="j"</pre>	<pre>ImeCapital="J"></pre>	
<key< th=""><th><pre>ImeNormal="k"</pre></th><th><pre>ImeCapital="K"></pre></th><th></th></key<>	<pre>ImeNormal="k"</pre>	<pre>ImeCapital="K"></pre>	
<key< th=""><th><pre>ImeNormal="1"</pre></th><th><pre>ImeCapital="L"></pre></th><th></th></key<>	<pre>ImeNormal="1"</pre>	<pre>ImeCapital="L"></pre>	
<key< th=""><th>ImeNormal="m"</th><th><pre>ImeCapital="M"></pre></th><th></th></key<>	ImeNormal="m"	<pre>ImeCapital="M"></pre>	
<key - <th>Function="ent</th><th>er'></th><th></th></key 	Function="ent	er'>	
		speciny tile key situnction.	

3. Save the change and place this file to the provisioning server.

Layout File Elements and Attributes

The following lists the elements and attributes you need to understand in the Layout file. We recommend that you do not edit these elements and attributes.

Elements	Description				
<keyboardlayout></keyboardlayout>	Indicate the start and and of a Layout file				
	Indicate the start and end of a Layout file.				
<line></line>	Specify a line on the keyboard.				
	The first Line element represents the first line of the keyboard.				
<key></key>	Specify a key on the keyboard.				
	The first key element in the Line element represents the first key of this line.				

• The Line elements and Key elements both have four attributes: LeftIndent, TopIndent, Width, and Height (all attribute values are in pixels). The following picture shows the meaning of four attributes:



- The value of attributes in a line element is the default value of the corresponding attribute in the key element. For example, if you have not configured the width attribute in the key element, the key will automatically use the value of width attribute configured in line element as the width.
- The size of the onscreen keyboard is 800 pixels wide by 256 pixels high. If the area of the keyboard you configured is larger than the size of the keyboard, the part of the area beyond the keyboard will not be shown.

Customizing a Layout File

- 1. Open the template file.
- 2. Edit the corresponding string in the file.

ke	yboard_layout_francais.xml x	
Ç	۶ <u>1</u> ,	
i i		
Ρ	<line height="58" leftindent="2" topindent="6" width="64"></line>	
	<key leftindent="5"></key>	
F	<key></key>	
E .	<key></key>	
	<key></key>	
	<key></key>	
1	<key></key>	
	<key></key>	
1	<key></key>	
1	<key></key>	
1	<key></key>	
	<key width="130"></key>	
1	The first line of the keyboard.	•

3. Save the change and place this file to the provisioning server.

Input Method Configuration

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

Parameter	gui_input_method.url	<y000000000xx>.cfg</y000000000xx>					
	It configures the access URL of the custom keypad	input method file for the phone user interface.					
	Example:						
	gui_input_method.url = http://192.168.10.25/custon	n_ime.txt					
	During the auto provisioning process, the phone connects to the provisioning server "192.168.1.25", and downloads the custom keypad input method file "custom_ime.txt".						
Description	gui_input_method.url = http://192.168.10.25/Russian_ime.txt						
	During auto provisioning, the phone connects to the provisioning server "192.168.1.25", and down- loads the custom keypad input method file "Russian_ime.txt" for the Russian language.						
	Note : If you want to upload a custom keypad input method file for the desired language, you can name the file "language name_ime.txt". The valid language names are: English, Chinese_S, Chinese_T, French_CA, French, German, Italian, Polish, Portuguese, Portuguese_LA, Spanish, Span-						

	l I A Taulish and Dussian					
De une litte el	ish_LA, Turkish and Russian.					
Permitted Values	URL within 511 characters					
Default	Blank					
Parameter	gui_input_method.delete	<y000000000xx>.cfg</y000000000xx>				
	It deletes the specified or all custom keypad input method files of the phone user interface.					
	Delete all custom keypad input method files:					
Description	gui_input_method.delete = http://localhost/all					
	Delete a custom keypad input method file (for exam	nple, custom_ime.txt) for the phone:				
	gui_input_method.delete = http://localhost/custom_	ime.txt				
Permitted Values	http://localhost/all or http://localhost/Name.txt					
Default	Blank					
Parameter	default_input_method.dialing	<y000000000xx>.cfg</y000000000xx>				
Description	It configures the default input method in the dialing	screen.				
	0 -2aB					
Permitted	1-123					
Values	2-abc					
	3-ABC					
Default	1					
Parameter	directory.edit_default_input_method	<y000000000xx>.cfg</y000000000xx>				
Description	It configures the default input method when the use Remote Phone Book, Blacklist or Network Directory	•				
Permitted	Abc, 2aB, 123, abc, ABC or Hebrew					
Values	Note : By default, the Hebrew input method is hidde input method when the language is set to Hebrew.	n, the phone will automatically use the Hebrew				
Default	Abc					
Parameter	directory.search_default_input_method	<y000000000xx>.cfg</y000000000xx>				
Description	It configures the default input method when the use LDAP, Remote Phone Book, Blacklist or Network D					
Permitted Values	Abc, 2aB, 123, abc or ABC					
Default	Abc					
Parameter	default_input_method.xml_browser_input_screen	<y000000000xx>.cfg</y000000000xx>				
Deseriation	It configures the default input method when the type for input box is set to "string" in the InputScreen object.					
Description	Note: For T57W/T48U/T48S/T48G, it works only if " _l (Disabled).	phone_setting.virtual_keyboard.enable" is set to 0				
Permitted Values	Abc, 2aB, 123, abc or ABC					

Default	2aB					
Parameter	r phone_setting.virtual_keyboard.enable ^[1] <y000000000xx>.cfg</y000000000xx>					
Description	It enables or disables the phone to use the onscreen keyboard.					
Permitted Values	0-Disabled 1-Enabled					
Default	1					
Supported Devices	T57W, T48U, T48S, T48G	T57W, T48U, T48S, T48G				
Parameter	gui_onscreen_keyboard.url ^[1]	<y000000000xx>.cfg</y000000000xx>				
Description	It configures the access URL of the custom onscree	en keyboard input method file.				
Permitted Values	URL within 511 characters					
Default	Blank					
Supported Devices	T57W, T48U, T48S, T48G					

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

Example: Configuring the French Onscreen Keyboard Input Method

The following example shows the configuration for configuring the French onscreen keyboard input method. The onscreen keyboard input method is only applicable to T57W/T48U/T48S/T48G phones.

Customize the onscreen keyboard input method files "keyboard_lang.xml", "keyboard_ime_francais.xml", "keyboard_ime_num.xml", "keyboard_layout_francais.xml", "keyboard_layout_2.xml" and place these files to the provisioning server "http://192.168.10.25".

Example

phone_setting.virtual_keyboard.enable = 1

gui_onscreen_keyboard.url = http://192.168.10.25/keyboard_lang.xml

gui_onscreen_keyboard.url = http://192.168.10.25/keyboard_ime_francais.xml

gui_onscreen_keyboard.url = http://192.168.10.25/keyboard_ime_num.xml

gui_onscreen_keyboard.url = http://192.168.10.25/keyboard_layout_francais.xml

gui_onscreen_keyboard.url = http://192.168.10.25/keyboard_layout_2.xml

After provisioning, you can use the French onscreen keyboard for entering information.

à	z	é	r	t	y ÿ	U ū	i ī	0 0	p	$\overline{\mathbf{X}}$
q s	s	d	f	g	h	j	k	1	m	Next
1	w	x	C ç	v	b	n ń	,	;	:	!
&1	23	٢						<	>	Ţ

When using multiple keyboards, you can tap

to change the language of the keyboard.

Notification Popups

Notification popups feature allows the IP phone to pop up the message when it misses a call, forwards an incoming call to another party, receives a new voice mail or a new text message.

6

The following shows an example of receiving a new voice mail:

101	2	14:24 Fri, Sep 02
101		
🕋 100; 🕧 Note		
	2 New Voice Mail(s)	
Exit	View	Connect

Topic

Notification Popups Configuration

Notification Popups Configuration

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

Parameter	features.voice_mail_popup.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to pop up the message when it receives a new voice mail.		
Description	If the message disappears, it will not pop up again unless the phone receives a new voice mail or the user re-registers the account that has unread voice mail(s).		
	Note: It works only if "account.X.display_mwi.enable" is set to 1 (Enabled).		
	0-Disabled 1-Enabled		
Default	1		
Web UI	Features > Notification Popups > Display Voice Mail Popup		
Parameter	features.missed_call_popup.enable	<y000000000xx>.cfg</y000000000xx>	
Decerintion	It enables or disables the phone to pop up the message when it misses a call.		
Description	Note: It works only if "account.X.missed_calllog" is set to 1 (Enabled).		
	0-Disabled		
Values	1-Enabled		
Default	1		
Web UI	Features > Notification Popups > Display Missed Call Popup		
Parameter	features.forward_call_popup.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to pop up the message when it forwards an incoming call to another party.		
Permitted	0-Disabled		
Values	1-Enabled		

Default	1		
Web UI	Features > Notification Popups > Display Forward Call Popup		
Parameter	features.text_message_popup.enable <y00000000xx>.cfg</y00000000xx>		
Description	It enables or disables the phone to pop up the message when it receives a new text message. Note : It works only if "features.text_message.enable" is set to 1.		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Supported Devices	All phones except CP920		
Web UI	Features > Notification Popups > Display Text Message Popup		

Power LED Indicator

Power LED indicator indicates power status and phone status. It is not applicable to CP920 phones.

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

- The IP phone receives an incoming call
- The IP phone receives a voice mail or a text message
- A call is muted
- A call is placed on hold or is held
- The IP phone is busy
- The IP phone misses a call

Topic

Power LED Indicator Configuration

Power LED Indicator Configuration

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

Parameter	phone_setting.common_power_led_enable <y000000000xx>.cfg</y000000000xx>				
Description	It enables or disables the power LED indicator to be turned on.				
	1-Enabled (power LED indicator glows red)				
Permitted Values	For T19(P) E2 phones:				
	0 -Disabled (power LED indicator is off)				
	1-Enabled (power LED indicator glows yellow)				
Default	0				
Supported Devices	All phones except CP920				
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 power LED indicator to flash when the phone receives an incoming call.			
	0-Disabled (power LED indicator does not flash)			
Downslitter et	1-Enabled (power LED indicator fast flashes (0.3s) red)			
Permitted Values	For T19(P) E2 phones:			
	0 -Disabled (power LED indicator does not flash)			
	1-Enabled (power LED indicator fast flashes (0.3s) yellow)			
Default	1			
Supported Devices	All phones except CP920			
Web UI	Features > Power LED > Ringing Power Light Flash			
Parameter	phone_setting.mail_power_led_flash_enable <y000000000xx>.cfg</y000000000xx>			
Description	It enables or disables the power LED indicator to flash when the phone receives a voice mail or a text message.			
	Note: It works only if "account.X.display_mwi.enable" is set to 1 (Enabled).			
	0 -Disabled (power LED indicator does not flash)			
	1-Enabled (power LED indicator slowly flashes (1s) red)			
	2-Enabled (if there are unread voice mails or text messages, the power LED indicator slowly flashes (1s) red) even when the phone is busy, but value set by "phone_setting.talk_and_dial_power_led_enable" has a higher priority.)			
Permitted Values	For T19(P) E2 phones:			
	0 -Disabled (power LED indicator does not flash)			
	1-Enabled (power LED indicator slowly flashes (1s) yellow)			
	2-Enabled (if there are unread voice mails or text messages, the power LED indicator slowly flashes (1s) yellow even when the phone is busy, but value set by "phone_setting.talk_and_dial_power_led_ enable" has a higher priority.)			
Default	1			
Supported Devices	All phones except CP920			
Web UI	Features > Power LED > Voice/Text Mail Power Light Flash			
Parameter	phone_setting.mute_power_led_flash_enable <y000000000xx>.cfg</y000000000xx>			
Description	It enables or disables the power LED indicator to flash when a call is muted.			
	0-Disabled (power LED indicator does not flash)			
	1-Enabled (power LED indicator fast flashes (0.3s) red)			
Permitted Values	For T19(P) E2 phones:			
	0 -Disabled (power LED indicator does not flash)			
	1-Enabled (power LED indicator fast flashes (0.3s) yellow)			
Default	0			
Supported Devices	All phones except CP920			

Web UI	Features > Power LED > Mute Power Light Flash			
	phone_setting.hold_and_held_power_led_flash_			
Parameter	enable			
Description	It enables or disables the power LED indicator to flash when a call is placed on hold or is held.			
	0-Disabled (power LED indicator does not flash)			
	1-Enabled (power LED indicator fast flashes (0.5s) red)			
Permitted Values				
	0 -Disabled (power LED indicator does not flash)			
	1-Enabled (power LED indicator fast flashes (0.5s)) yellow)		
Default	0			
Supported Devices	All phones except CP920			
Web UI	Features > Power LED > Hold/Held Power Light Fla	ash		
Parameter	phone_setting.talk_and_dial_power_led_enable	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the power LED indicator to be turned on when the phone is busy.			
	0 -Disabled (power LED indicator is off)			
	1-Enabled (power LED indicator glows red)			
Permitted Values	For T19(P) E2 phones:			
	0 -Disabled (power LED indicator is off)			
	1-Enabled (power LED indicator glows yellow)			
Default	0			
Supported Devices	All phones except CP920			
Web UI	Features > Power LED > Talk/Dial Power Light On			
Parameter	phone_setting.missed_call_power_led_flash.en- able	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the power LED indicator to fla	ash when the phone misses a call.		
	0-Disabled (power LED indicator does not flash)			
Pormitte d	1-Enabled (power LED indicator slowly flashes (1s) red)			
Permitted Values	For T19(P) E2 phones:			
	0 -Disabled (power LED indicator does not flash)			
	1-Enabled (power LED indicator slowly flashes (1s) yellow)			
Default	1			
Supported Devices	All phones except CP920			
Web UI	Features > Power LED > MissCall Power Light Flash			
Parameter	phone_setting.autop_led_flash_enable <y00000000xx>.cfg</y00000000xx>			

Description	It enables or disables the power LED indicator to flash when the phone performs an auto pro- visioning.		
De un itte d	 0-Disabled, auto provisioning does not change the LED status (that is, the original LED status will be kept). 1-Enabled, during auto provisioning, the power LED indicator flashes at a fixed frequency. 		
Default	1		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30 and T27G		

Bluetooth

You can pair and connect a Bluetooth headset or Bluetooth-enabled mobile phone with the IP phone. After connecting the Bluetooth-enabled mobile phone, you can synchronize the mobile contacts to the IP phone. It is only applicable to

T57W/T54W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T42U/T42S/T41S/T29G/T27G/CP920 phones. For T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U phones, they can also make and receive mobile calls on the IP phone. For CP920 phones, you can also use your IP 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 PSTN and connected mobile phone.

Note: To use Bluetooth feature on T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T42U/T42S/T41S/T29G/T27G phones, make sure the Bluetooth USB dongle is properly connected to the USB port on the back of the phones. The Bluetooth dongle should be purchased separately.

Topic

Bluetooth Configuration

Bluetooth Configuration

You can activate or deactivate the Bluetooth mode, and personalize the Bluetooth device name for the IP phone. The pre-configured Bluetooth device name will display in scanning list of other devices. 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. Note: For T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T42U/T42S/T41S/T29G/T27G phones, it works only if "static.usb.power.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled, you are not allowed to trigger Bluetooth mode to on.1-Enabled		
Default	1		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, T27G, CP920		
Parameter	features.bluetooth_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It triggers the Bluetooth mode to on or off. Note: It works only if "static.bluetooth.function.enable" is set to 1 (Enabled).		
Permitted Values	0-Off 1-On		
Default	0		
Supported	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46L	J, T46S, T46G, T43U, T42U, T42S, T41S, T29G,	

Devices	T070 0000			
	T27G, CP920			
Web UI	Features > Bluetooth > Bluetooth Active			
	Color Screen Phones:			
Phone UI	Menu > Basic > Bluetooth > Bluetooth			
	Black-and-white Screen Phones:			
	Menu > Settings > Basic Settings > Bluetooth			
Parameter	features.bluetooth_adapter_name	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the Bluetooth device name.			
	Note: It works only if "features.bluetooth_enable" is	set to 1 (On).		
Permitted Values	String within 64 characters			
Default	Yealink \$DEV			
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46L T27G, CP920	J, T46S, T46G, T43U, T42U, T42S, T41S, T29G,		
	Color Screen Phones:			
	Menu > Basic > Bluetooth > Bluetooth (On) > Edit N	ly Device Information > Device Name		
Phone UI	Black-and-white Screen Phones:			
	Menu > Settings > Basic Settings > Bluetooth > Bluetooth (On) > Edit My Device Information > Device Name			
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 ca	all.		
Default	0			
Supported Devices	CP920			
Parameter	bluetooth.a2dp_sink ^[1]	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to act as the conn	ected Bluetooth-enabled mobile phone player.		
	0 -Disabled, the Media audio item is hidden on the	connected Bluetooth-enabled mobile phone.		
	1-Enabled, you need to enable the Media audio feature manually after the Bluetooth-enabled mobile			
Permitted	phone is paired and connected. Enable the Media audio feature via the phone user interface at the path: Menu > Settings > Basic Settings > Bluetooth > Paired Bluetooth Device > Option > Detail >			
V 2 11 16 C	Channel Control > Media Audio.			
	etooth-enabled mobile phone player after you pair o the phone successfully.			
Default	1			
Supported Devices	CP920			
Parameter	bluetooth.high_encryption.enable <y00000000xx>.cfg</y00000000xx>			

Description	It enables or disables the minimum password strength limit.		
Permitted Values	 0-Disabled 1-Enabled, when the Bluetooth device is paired with the phone, the minimum password strength cannot be lower than 56bits. 		
Default	1		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T46U, T46S, T43U, T42U, T42S, T41S, T27G, CP920		
Web UI	Features > Bluetooth > High Security Pairing		

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

Handset/Headset/Speakerphone Mode

Yealink phones support three ways to place/answer a call: using the handset, using the headset or using the speakerphone. You can disable the infrequently used audio device as required.

Topic

Handset/Headset/Speakerphone Mode Configuration

Handset/Headset/Speakerphone Mode Configuration

The following table lists the parameters you can use to configure handset/headset/speakerphone mode.

Parameter	features.speaker_mode.enable <y00000000xx>.cfg</y00000000xx>				
Description	It enables or disables the phone's speakerphone mode.				
Permitted Values	0-Disabled 1-Enabled				
Default	1				
Supported Devices	All phones except CP920				
Parameter	features.handset_mode.enable	features.handset_mode.enable <y00000000xx>.cfg</y00000000xx>			
Description	It enables or disables the phone's handset mode.				
Permitted Values	0-Disabled 1-Enabled				
Default	1				
Supported Devices	All phones except CP920				
Parameter	features.group_listen_in_talking_enable	<y000000000xx>.cfg</y000000000xx>			
Description	It enables or disables the phone to enter into the group listening mode by pressing the Speakerphone key when you first answer the call using the handset. Note : The audio is sent only through the handset. So you are able to speak and listen through the handset, but you can only listen through the speaker.				
	0-Disabled				
Values	1-Enabled				
Default	1				
Supported	All phones except CP920				

Devices					
Parameter	features.headset_mode.enable <y00000000xx>.cfg</y00000000xx>				
Description	It enables or disables the phone's headset mode.				
Permitted Values	0-Disabled 1-Enabled				
Default	1				
Supported Devices	All phones except CP920				
Parameter	features.headset.group_listen_in_talking_enable	<y000000000xx>.cfg</y000000000xx>			
Description	It enables or disables the phone to enter into the group listening mode by pressing the Speakerphone key when you first answer the call using the headset. on Note : The audio is sent only through the headset. So you are able to speak and listen through the headset, but you can only listen through the speaker. It is not applicable to Bluetooth headset.				
Permitted Values	0-Disabled 1-Enabled				
Default	0				
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42L T31G, T31, T30P, T30 and T27G	J, T48S, T46S, T42S, T41S, T33P, T33G, T31P,			
Parameter	phone_setting.headsetkey_mode	<y000000000xx>.cfg</y000000000xx>			
Description	It configures headset mode during a call.				
Permitted Values	 0-Always use (pressing the Speakerphone key and picking up the handset are not effective when the headset mode is activated) 1-Use as normal 				
Default	1				
Supported Devices	All phones except CP920				

DSS Keys

There are three kinds of DSS keys: Line Keys, Programmable Keys, and Ext Keys. You can assign various functions to DSS keys. This section explains how to set these keys.

Line key is not applicable to T30P/T30/T19(P) E2/CP920 phones, ext key is only applicable to expansion modules connected to T57W/T54W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T29G/T27G phones.

Note: If the phone is downgraded to an earlier firmware from firmware version 83, the DSS key configuration will be reset after downgrading.

Topics

Supported DSS Keys Supported Dsskey Types Line Keys Programmable Keys Ext Keys Dsskey Lock Configuration Dsskey Page Reset Configuration

Supported DSS Keys

The following table lists the number of DSS keys you can configure for each phone model:

Phone Model	Line Keys	Programmable Keys	Ext Keys
T57W	29	9	60
T54W	27	15	60
T53W/T53/T43U	21	13	60
T48U	29	15	60
T48G/T48S	29	15	40
T46U	27	15	60
T46S/T46G	27	15	40
T42U/T42G/T42S	15	13	/
T41P/T41S	15	13	/
T40P/T40G	3	13	/
T33P/T33G	12	13	/
T31P/T31G/T31	2	13	/
T30P/T30	/	13	/
T29G	27	16	39
T27G	21	16	39
T23P/T23G	3	13	/
T19(P) E2	/	13	/
CP920	/	8	/

Note: The programmable key takes effect only if the phone is idle.

The ext key takes effect only if the expansion module is connected to the phone.

Supported Dsskey Types

The supported Dsskey function types vary by line keys, programmable keys, and Ext keys.

ID	DSS Key Types	ID	DSS Key Types	ID	DSS Key Types
0	N/A	20	Private Hold	51	Switch Account Up (Programmable key)
1	Conference (Line key/Ext key)	22	XML Group	52	Switch Account Down (Programmable key)
2	Forward	23	Group Pickup	56	Retrieve Park (Line key/Ext key)
3	Transfer (Line key/Ext key)	24	Paging(Multicast Paging) (Line key/Ext key)	61	Directory
4	Hold (Line key/Ext key)	25	Record (Line key/Ext key)	66	Paging List

ID	DSS Key Types	ID	DSS Key Types	ID	DSS Key Types
5	DND	27	XML Browser	73	Custom Key (only appear when "fea- tures.enhanced_dss_keys.enable = 1")
7	Recall	28	History (Programmable key)	77	Mobile Account (only appear when the Bluetooth-enabled mobile phone is con- nected)
8	SMS	30	Menu (Programmable key)	104	Google Contacts (only appear when "google_contact_server.enable = 1")
9	Pickup(Pick up/ Direct Pickup)	33	Status (Programmable key)	105	XML Park (Line key/Ext key)
10	Call Park (Line key/Ext key)	34	Hot Desking	150	Extend (Line key/Programmable key)
11	DTMF (Line key/Ext key)	35	URL Record (Line key/Ext key)	310	Dect Intercom (only appear when the DECT USB dongle is connected)
12	Voice Mail (Line key/Ext key)	38	LDAP(only appear when "Idap.en- able=1")		
13	Speed Dial (SpeedDial)	39	BLF List		
14	Intercom	40	Prefix		
15	Line (Line key/Ext key)	41	Zero Touch		
16	BLF (Line key/Ext key)	42	ACD (Line key/Ext key)		
17	URL (Line key/Ext key)	45	Local Group		
18	Group Listening (Line key/Ext key)	50	Phone Lock (Line key/Ext key)		

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).

Line key is not applicable to T30P/T30/T19(P) E2/CP920 phones.

Topics

Line Keys Configuration Example: Set a Park/Retrieve Key for FAC Call Park Mode Example: Set a Park/Retrieve Key for Transfer Call Park Mode Example: Setting a Line Key as Directed Pickup Key Example: Setting a Line Key as Group Pickup Key Example: Setting a Line Key as Forward Key Example: Setting a Line Key as BLF List Key Example: Setting a Line Key as Private Hold Key Example: Setting a Line Key as Multicast Paging Key

Line Keys Configuration

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

Parameter	linekey.type_range.custom	<y000000000xx>.cfg</y000000000xx>
Descrip- tion	It configures the list of available line key types when configuring line keys.	

	To assign function types, specify line key type IDs which start with or without a symbol "+". For example, "+2,15,16,7,4" or "2,15,16,7,4" means only "N/A", "Forward", "Line", "BLF", "Recall", "Hold" types are available when you configure line keys. To remove a function type, specify line key type IDs which start with the symbol "-". For example, "-14, 5, 2" means to remove "Intercom", "DND", "Forward" types from the line key types list. These line key				
	types are not available when you configure line keys.				
			ed by commas. "N/A" type is always kept.		
Permitted Values	· ·	id function types are availated Dsskey Types.	able); line key type IDs. For supported line key types and		
Default	Blank				
Supported Devices	All phones except	t T30P, T30, T19(P) E2 an	d CP920		
Parameter	linekey.X.type ^[1]		<y00000000xx>.cfg</y00000000xx>		
Descrip- tion	It configures the k	ey feature.			
			 38-LDAP (only appear when "Idap.enable=1") 39-BLF List 40-Prefix 		
	0 -N/A		41-Zero Touch		
	1-Conference	15 -Line	42 -ACD		
	2-Forward	16-BLF	45-Local Group		
	3-Transfer	17-URL	50-Phone Lock		
	4-Hold	18-Group Listening	56-Retrieve Park		
	5-DND	20-Private Hold	61-Directory		
	7-Recall	22-XML Group	66-Paging List		
Permitted Values	8 -SMS 9-Pickup(pick	23-Group Pickup	73 -Custom Key (only available when "fea- tures.enhanced_dss_keys.enable=1")		
values	up/Direct Pickup)	24 -Paging(Multicast Paging)	77-Mobile Account (only applicable to T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U phone when the Bluetooth-enabled mobile phone is connected		
	10-Call Park	25-Record			
	11-DTMF	27-XML Browser	104 -Google Contacts (only appear when "google_con-		
	12-Voice Mail	34 -Hot Desking	tact_server.enable = 1")		
	13 -SpeedDial (Speed Dial)	35-URL Record	105- XML Park (not applicable to CP920 phones)		
	14-Intercom		150 -Extend (only applicable to T54W/T53W/T53/T46U/T46S/T43U/T42S/T42U/T41S/T2- 7G phones)		
			310 -Dect Intercom (only applicable to T57W/T54W/T53W/T53 phones when the DECT USB dongle is connected)		
	Note: The permitted values are configurable by "linekey.type_range.custom".				
Default	T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G: X= 1-16;				
_ oraun	T53W/T53/T43U/T42U/T42S/T42G: X = 1-12;				

	T41P/T41S/T27G: X = 1-6;			
	T33P/T33G: X = 1-4;			
	T40P/T40G/T31P/T31G/T31/T23P/T23G/T21(P) E2: all line keys.			
	0	other line keys		
Supported	-			
Devices	All phones except	: T30P, T30, T19(P) E2 and	CP920	
Web UI	Dsskey > Line Ke	y > Line KeyX > Type		
Phone UI	Menu > Features	> DSS Keys > Line Key X >	Туре	
Parameter	linekey.X.line ^[1]		<y000000000xx>.cfg</y000000000xx>	
Descrip- tion	It configures the d	esired line to apply the line	key feature.	
	T57W/T54W/T48L	J/T48S/T48G/T46U/T46S/T4	46G/T29G: 0, 1-16;	
	T53W/T53/T43U/1	42U/T42S/T42G: 0, 1-12;		
	T41P/T41S/T27G: 0, 1-6;			
	T33P/T33G: 0, 1-4;			
Values	T40P/T40G/T23P/T23G: 0, 1-3			
	T31P/T31G/T31/T21(P) E2: 0, 1-2			
	Note : The permitted value 0 is configurable only when "features.fwd_mode" is set to 1 (Custom) and "linekey.X.type" is set to 2 (Forward).			
Default	1			
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920			
Web UI	Dsskey > Line Ke	y > Line KeyX > Line		
Phone UI	Menu > Features	> DSS Keys > Line Key X >	Account ID	
Parameter	linekey.X.value ^[1]		<y00000000xx>.cfg</y00000000xx>	
	It configures the value for some line key features.			
tion	tact number you w	ant to dial out. It is also use	al to the line key, this parameter is used to specify the con- ed to specify the contact number with the DTMF equence are separated by commas.	
Permitted Values	String within 99 characters			
Default	Blank			
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920			
Web UI	Dsskey > Line Key > Line KeyX > Value			
Phone UI	Menu > Features > DSS Keys > Line Key X > Value			
Parameter	linekey.X.label ^[1]		<y00000000xx>.cfg</y00000000xx>	
Beeeinp	It configures the label displayed on the phone screen.			
tion	This is an optional configuration.			
Permitted	String within 99 characters			

M . 1				
Values				
Default	Blank			
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920			
Web UI	Dsskey > Line Key > Line KeyX > Label			
Phone UI	Menu > Features > DSS Keys > Line Key X >	Label		
Parameter	linekey.X.extension ^[1]	<y00000000xx>.cfg</y00000000xx>		
	For multicast paging:			
	It configures the channel of the multicast paging group.			
Descrip- tion	For the BLF/BLF list/intercom feature:			
-	It configures the pickup code.			
	Note: It is only applicable when "linekey.X.ty	pe" is set to 14, 16, 24 or 39.		
	For multicast paging:			
Permitted	0 to 31			
Values	For the BLF/BLF list/intercom feature:			
	String within 256 characters			
Default	Blank			
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920			
Web UI	Dsskey > Line Key > Line KeyX > Extension			
	Menu > Features > DSS Keys > Line Key X > Channel or			
Phone UI	Menu > Features > DSS Keys > Line Key X > PIN/ID or			
	Menu > Features > DSS Keys > Line Key X > Extension			
Parameter	linekey.X.xml_phonebook ^[1]	<y00000000xx>.cfg</y00000000xx>		
	It specifies a specific group/phone book when phone.	n multiple groups/phone books are configured on the		
	For example, both Remote Phone Book 1 "Sell" and Remote Phone Book 2 "Market" are configured on the phone, you can configure "linekey.X.xml_phonebook = 0" to specify the Remote Phone Book 1 "Sell" for the specific line key. The user can press this line key to access the Remote Phone Book 1 "Sell".			
	Note: It is only applicable when "linekey.X.type" is set to 22 or 45.			
Permitted Values	Integer from 0 to 48			
Default	0			
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920			
Web UI	Dsskey > Line Key > Line KeyX > Line			
Parameter	features.flash_url_dsskey_led.enable	<y000000000xx>.cfg</y000000000xx>		
Descrip-	t enables or disables the LED indicator of the URL DSS key.			
	The LED indicator behavior depends on the response message from the server when you press the			

	URL DSS key on the phone.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	features.block_linekey_in_menu.enable <y000000000xx>.cfg</y000000000xx>		
Descrip- tion	It enables or disables the phone to prevent the user from using line keys when browsing the menu.		
Permitted	0-Disabled		
Values	1-Enabled, it prevents the user from using line keys.		
Default	0		
Supported Devices	All phones except T57W, T48U, T48S, T48G, T30P, T30, T19(P) E2 and CP920		

^[1]X is the line key ID. For T57W/T48U/T48S/T48G, X=1-29; for T54W/T46U/T46S/T46G/T29G, X=1-27; for T53W/T53/T43U/T27G, X=1-21; for T42U/T42G/T42S/T41P/T41S, X=1-15; for T33P/T33G: X=1-12; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2.

Example: Set a Park/Retrieve Key for FAC Call Park Mode

Scenario Conditions	Related Topic
features.call_park.park_code = *68	
features.call_park.park_retrieve_code = *88	Call Park and Retrieve
features.call_park.park_mode = 1	

Example

######Set a Park key#####

linekey.1.type = 10

linekey.1.value =4603

linekey.1.label =Bill

#####Set a Retrieve key####

linekey.3.type = 56

linekey.3.line =1

linekey.3.value =4603

linekey.3.label =Retrieve Bill

After provisioning, you can easily press the Park key (line key 1) to park a call to a specific extension (4603) during a call, and press the Retrieve key (line key 3) to retrieve the parked call from the specific extension (4603) when the phone is idle.

If the "linekey.1.value" is set to blank, the park key will perform as the **Park** soft key.

Note: In FAC call park mode, the Park/Retrieve key invokes the call park code/park retrieve code by default. Therefore, the phone dials out *684603 to park a call, and dials out *884603 to retrieve a call. If these codes are not set, you can assign code and extension to "linekey.X.value", for example, "*684603".

Example: Set a Park/Retrieve Key for Transfer Call Park Mode

Scenario Conditions	Related Topic
features.call_park.park_mode = 2	Call Dark and Datriava
features.call_park.line_restriction.enable = 1	Call Park and Retrieve

Example

######Set a Park key#####

linekey.1.type = 10

linekey.1.value =*01

linekey.1.line = 1

linekey.1.label =Bill

######Set a Retrieve key####

linekey.3.type = 56

linekey.3.line = 1

linekey.3.value =*11

linekey.3.label =Retrieve Bill

After provisioning, you can easily press the Park key (line key 1) to park a call to the specific shared parking lot (*01) during a call, and press the Retrieve key (line key 3) to retrieve the parked call from the shared parking lot (*01) using the retrieve code (*11). You can only perform call park feature on the specific line (line 1).

If the "features.call_park.line_restriction.enable" is set to 0 (Disabled), the phone will park/retrieve the call to the server on the current line in use.

Note: In Transfer call park mode, if you press the Park key when the phone is idle, the Park key will invoke the call park code. Therefore, you can use a Park key to park and retrieve a call. In this case, you need to assign the park retrieve code (*11) to "features.call_park.park_code". When you press the Park key again on the idle screen, the phone will dial out "*11*01" to retrieve the parked call.

Example: Setting a Line Key as Directed Pickup Key

Scenario Conditions	Related Topic
account.1.direct_pickup_code = *97	
or	Directed Call Pickup
features.pickup.direct_pickup_code = *97	

Example

linekey.1.type = 9

linekey.1.line =1

linekey.1.value= 4603

linekey.1.label=Bill

After provisioning, you can easily press the Directed Pickup key (line key 1) to pick up an incoming call to a specific phone (4603).

Note: The Directed Pickup invokes the directed pickup code by default. Therefore, the phone dials out *974603 to pick up a call. If the directed code is not set, you can assign code and extension to "linekey.X.value", for example, "*974603".

Example: Setting a Line Key as Group Pickup Key

The following example shows the configuration for a group pickup key.

Example

linekey.1.type = 23

linekey.1.line =1

linekey.1.value =*98

linekey.1.label =Sell

After provisioning, you can easily press the Group Pickup key (line key 1) to pick up an incoming call to any phone within a predefined group of phones.

Note: If the "linekey.X.value" is not assigned with a group pickup code, the Park key will invoke the group pickup code set by "features.pickup.group_pickup_code" or "account.X.group_pickup_code".

Example: Setting a Line Key as Forward Key

When the phone receives an incoming call, you can press a Forward key to forward the incoming call to the preset number.

When the phone is idle, the key behavior depends on the forward modes:

Forward Modes	Key Behavior	
	The destination number is configured:	
	Press the Forward key to activate/deactivate the always forward fea- ture or switch the target among Forward keys.	
Phone Mode	The destination number is blank:	
	Press the Forward key to enter the forward setting screen or activ- ate/deactivate the forward feature (if forward has been configured from the Call Forward menu).	
Custom Mode	Press the Forward key to enter the forward setting screen.	

The following example shows the configuration for Forward keys.

Scenario Conditions	Related Topic
features.fwd.allow = 1	
features.fwd_mode = 0	Call Forward
forward.idle_access_always_fwd.enable = 0	

Example

######Set a Forward key for Bill######

linekey.1.type = 2

linekey.1.line =1

linekey.1.value =4603

linekey.1.label =Bill

######Set a Forward key for Tom######

linekey.2.type = 2

linekey.2.line =1

linekey.2.value =4605

linekey.2.label =Tom

After provisioning, you can easily press the Forward key (line key 1 or line key 2) to activate/deactivate the always forward feature. For example, after pressing line key 1 to activate always forward and forward all calls to Bill (4603), you can press the line key 1 to deactivate always forward, or press line key 2 to switch the forward target and forward all calls to Tom (4605).

Example: Setting a Line Key as BLF List Key

The following example shows the configuration for a BLF List key.

Scenario Conditions	Related Topic
phone_setting.auto_blf_list_enable = 0	BLF List Configuration

Example

linekey.1.type = 39

linekey.1.line =1

After provisioning, a BLF List key displays on line key 1. You can easily use this key to monitor a remote line. The monitored line depends on a pre-configured SIP server.

Example: Setting a Line Key as Private Hold Key

The following example shows the configuration for a Private Hold key.

Example

linekey.1.type = 20

```
linekey.1.label =Private Hold
```

After provisioning, you can press the line key 1 to hold calls without notifying other phones registered with the shared line, the shared line displays active to others shared line. It is only applicable to Shared Line Appearance.

Example: Setting a Line Key as Multicast Paging Key

The following example shows the configuration for a Multicast Paging key.

Example

linekey.1.type = 24

linekey.1.value = 224.5.6.20:10008

linekey.1.label = Sales

linekey.1.extension = 2

After provisioning, you can press the line key 1 to send announcements quickly to the Sales group.

Programmable Keys

You can customize programmable keys on the phone to enable users to access frequently used functions, or, if your phone does not have a particular hard key, you can create a soft key. For example, if the phone does not have a Do Not Disturb hard key, you can create a Do Not Disturb hard key, you can create a Do Not Disturb soft key.

The programmable key takes effect only when the IP phone is idle.

Topics

Supported Programmable Keys

Programmable Keys Configuration

Supported Programmable Keys

The following tables list programmable keys for each phone model.

Pro- grammable Key IDs	CP920	T31P/T31G/T31/T30P/T3- 0/T19(P) E2	T23P/T23G/- T21(P) E2	T29G/T2- 7G	T53W/T53/T43 U/ T42G/T42S/T4 2U/ T41P/T41S /T40P/T40G/ T33P/T33G		T57W
1	SoftKe- y1	SoftKey1	SoftKey1	SoftKey1	SoftKey1	SoftKey1	SoftKe- y1
2	SoftKe- y2	SoftKey2	SoftKey2	SoftKey2	SoftKey2	SoftKey2	SoftKe- y2
3	SoftKe- y3	SoftKey3	SoftKey3	SoftKey3	SoftKey3	SoftKey3	SoftKe- y3
4	SoftKe- y4	SoftKey4	SoftKey4	SoftKey4	SoftKey4	SoftKey4	SoftKe- y4
5	Up	Up	Up	Up	Up	Up	/
6	Down	Down	Down	Down	Down	Down	/
7	/	Left	Left	Left	Left	Left	/
8	/	Right	Right	Right	Right	Right	/
9	ок	ОК	ОК	ОК	ОК	ОК	/
10	/	/	Cancel	Cancel	Cancel	Cancel	/
11	/	/	/	CONF	/	/	/
12	/	/	/	HOLD	/	HOLD	HOLD
13	MUTE	MUTE	/	MUTE	MUTE	MUTE	MUTE
14	/	TRAN	TRAN	TRAN	/	TRAN	TRAN
17	/	Redial	Redial	Redial	Redial	Redial	Redial
18	/	Message	Message	Message	Message	Message	Mes- sage

Programmable Keys Configuration

For T23P/T23G/T21(P) E2 phones, Cancel key can be configured only when "features.keep_mute.enable" is set to 0 (Disabled).

For other phones, Mute key can be configured only when "features.keep_mute.enable" is set to 0 (Disabled).

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

Parameter	programablekey.type_range.custom	<y000000000xx>.cfg</y000000000xx>
	It configures the list for available programmable key types	when configuring programmable keys.
Description	To assign function types, specify programmable key type II For example, "+2,15,16,7,4" or "2,15,16,7,4" means only "N	Ds which start with or without a symbol "+". I/A", "Forward", "Line", "BLF", "Recall",

	"Hold" types are available when you configure programmable keys.				
	To remove a function type, specify programmable key type IDs which start with the symbol "-". For example, "-14, 5, 2" means to remove "Intercom", "DND", "Forward" types from the Dsskey function types list. These programmable key types are not available when you configure programmable keys.				
	Note: Multiple programmable key type IDs are separated by commas. "N/A" type is always kept.				
Permitted Values	Blank or 0 (all valio Dsskey type IDs. For supported Dssi	I function types are key types and IDs, i			sskey Types.
Default	Blank				
Parameter	programablekey.X.type ^[1]				<y000000000xx>.cfg</y000000000xx>
Description	lt configures a key	feature for a specifi	c program	mable key	
-			43-Local	Directory (Local Phonebook)
			45-Local	Group	
	0 -N/A		50-Phone	Lock	
	2-Forward	27-XML Browser	51-Switch	Account l	Jp (not applicable to T57W/T30P/T30/T19
	5-DND	28-History	(P) E2)		
	7 -Recall	30 -Menu	52-Switch Account Down (not applicable to		
	8 -SMS	32-New SMS	T57W/T30P/T30/T19(P) E2)		
	9 -Pick up	33 -Status	61-Directory		
Permitted Values	•	34-Hot Desking	66 -Paging	g List	
values	14-Intercom	38-LDAP (only	 73-Custom Key (only appear when "features.enhanced_dss_keys.enable = 1") 104-Google Contacts (only appear when "google_contact_server.enable = 1") 		
	22-XML Group	appear when "Idap.enable = 1")			
		40 -Prefix			
		41-Zero Touch	150 -Extend (only applicable to T54W/T53W/T53/T46U/T46S/T43U/T42S/T42U/T41S/T27G phones)		
			310 -Dect Intercom (only applicable to T57W/T54W/T53W/T5 phones when the DECT USB dongle is connected)		
	Note: The permitte	d values are config	urable by '	"programa	blekey.type_range.custom".
	X=1, default: 28 - History			X=9, default: 33- Status	
	X=2, default: 61 - D	Directory		X=10, default: 0 - NA	
	X=3, default: 5 – D	ND		X=11, default: 0 – NA	
	X=4, default: 30 - N	lenu		X=12, default: 0 - NA	
Default	X=5, default: 28- H	istory		X=13, def	ault: 0 – NA
	X=6, default: 61- D	irectory		X=14, default: 2- Forward	
	X=7, default: 51- S	witch Account Up		X=17, def	ault: 0 – NA
	X=8, default: 52- S	witch Account Dow	n	X=18, def	ault: 0 – NA
	X=8, default: 52- Switch Account Down			X=18, def	ault: 0 – NA

Parameter programablekey.X.history_type[1] <y00000000xx>.cf Description It configures the history type of programmable key. Permitted 0-Local History Yalues 1-Network CallLog (only appear when "bw.enable=1" and "bw.xsi.call_log.enable=1") Default 0 Web UI Dsskey > Programmable Key > Line Parameter programablekey.X.line^[1] Quo0000000 Parameter programablekey.X.line^[1] <y0000000< td=""> Description It configures the desired line to apply the programmable key feature. T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G: 0, 1-16;</y0000000<></y00000000xx>	g				
Permitted Values 0-Local History 1-Network CallLog (only appear when "bw.enable=1" and "bw.xsi.call_log.enable=1") Default 0 Web UI Dsskey > Programmable Key > Line Parameter programablekey.X.line ^[1] Description It configures the desired line to apply the programmable key feature.	.000xx>.cfg				
Values 1-Network CallLog (only appear when "bw.enable=1" and "bw.xsi.call_log.enable=1") Default 0 Web UI Dsskey > Programmable Key > Line Parameter programablekey.X.line ^[1] Quescription It configures the desired line to apply the programmable key feature.	1000xx>.cfg				
Default 0 Web UI Dsskey > Programmable Key > Line Parameter programablekey.X.line ^[1] Quescription It configures the desired line to apply the programmable key feature.	1000xx>.cfg				
Web UI Dsskey > Programmable Key > Line Parameter programablekey.X.line ^[1] <y0000000< th=""> Description It configures the desired line to apply the programmable key feature.</y0000000<>	1000xx>.cfg				
Parameter programablekey.X.line ^[1] <y0000000< td=""> Description It configures the desired line to apply the programmable key feature.</y0000000<>	000xx>.cfg				
Description It configures the desired line to apply the programmable key feature.	000xx>.cfg				
	-				
T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G: 0, 1-16;					
T53W/T53/T43U/T42U/T42S/T42G: 0, 1-12;					
T41P/T41S/T27G: 0, 1-6;					
T33P/T33G: 0, 1-4;					
T40P/T40G/T23P/T23G: 0, 1-3;	T40P/T40G/T23P/T23G: 0, 1-3;				
T31P/T31G/T31/T21(P) E2: 0, 1-2;					
CP920: 1, 101, 102.	CP920: 1, 101, 102.				
Values 0-All (it is configurable only when "features.fwd_mode" is set to 1 (Custom) and "pro- gramablekey.X.type" is set to 2 (Forward)).					
1-Line 1					
2-Line 2					
16-Line 16					
101-PSTN1					
102-PSTN2	102-PSTN2				
Default 1					
Supported Devices All phones except T30P/T30/T19(P) E2					
Web UI Dsskey > Programmable Key > Line					
Parameter programablekey.X.value ^[1] <y000000< th=""></y000000<>	0000xx>.cfg				
It configures the value for some programmable key features.					
Description For example, when you assign the Speed Dial to the programmable key, this parameter is cify the contact number you want to dial out. It is also used to specify the contact number w DTMF sequence. The contact number and DTMF sequence are separated by commas.	For example, when you assign the Speed Dial to the programmable key, this parameter is used to specify the contact number you want to dial out. It is also used to specify the contact number with the				
Permitted Values String within 99 characters					
Default Blank					
Web UI Dsskey > Programmable Key > Value					
Parameter programablekey.X.label ^[1] <y000000< th=""></y000000<>					

(X=1-4)			
It configures the label displayed on the phone screen for a specific programma	ble key.		
This is an optional configuration.			
String within 99 characters			
Blank			
Dsskey > Programmable Key > Label			
programablekey.X.extension ^[1]	<y000000000xx>.cfg</y000000000xx>		
For multicast paging:			
It configures the channel of the multicast paging group.			
For intercom feature:			
It configures the pickup code.			
Note: It is only applicable when "programablekey.X.type" is set to 13, 14 or 24.			
For multicast paging:			
0 to 31			
For intercom feature:			
String within 256 characters			
0			
Dsskey > Programmable Key > Extension			
programablekey.X.xml_phonebook ^[1]	<y000000000xx>.cfg</y000000000xx>		
It specifies a specific group/phone book when multiple groups/phone books are phone.	e configured on the IP		
For, example, both Remote Phone Book 1 "Sell" and Remote Phone Book 2 "M on the phone, you can configure "programablekey.X.xml_phonebook = 0" to sp Phone Book 1 "Sell" for the specific programmable key. The user can press this Remote Phone Book 1 "Sell".	ecify the Remote		
Note : It is only applicable when "programablekey.X.type" is set to 22 or 45.			
Integer from 0 to 48			
0			
Dsskey > Programmable Key > Line			
	It configures the label displayed on the phone screen for a specific programma This is an optional configuration. String within 99 characters Blank Dsskey > Programmable Key > Label programablekey X.extension ^[1] For multicast paging: It configures the channel of the multicast paging group. For intercom feature: It configures the pickup code. Note : It is only applicable when "programablekey.X.type" is set to 13, 14 or 24. For multicast paging: 0 to 31 For intercom feature: String within 256 characters 0 Dsskey > Programmable Key > Extension programablekey X.xml_phonebook ^[1] It specifies a specific group/phone book when multiple groups/phone books are phone. For, example, both Remote Phone Book 1 "Sell" and Remote Phone Book 2 "M on the phone, you can configure "programablekey.X.type" is set to 22 or 45. Integer from 0 to 48 0		

^[1]X is the programmable key ID. For T57W, X=1-4, 12-14, 17-18; For T54W/T48U/T48S/T48G/T46U/T46S/T46G, X=1-10, 12-14, 17-18; For T53W/T53/T43U/T42U/T42G/T42S/T41P/T41S/T40P/T40G/T33P/T33G, X=1-10, 13, 17-18; for T29G/T27G, X=1-14, 17-18; for T23P/T23G/T21(P) E2, X=1-10, 14, 17-18; for T31P/T31G/T31/T30P/T30/T19 (P) E2, X=1-9, 13, 14, 17-18; for CP920: X=1-6, 9, 13.

Ext Keys

The ext keys take effect only if the expansion module is connected to the IP phone.

It is only applicable to T57W/T54W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T29G/T27G phones.

Topic

Ext Keys Configuration

Ext Keys Configuration

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

Parameter	expkey.type_range.custc	om		<y000000000xx>.cfg</y000000000xx>		
	It configures the list for available ext key types list when configuring ext keys.					
Description	To assign function types, specify ext key type IDs which start with or without a symbol "+". For example, "+2,15,16,7,4" or "2,15,16,7,4" means only "N/A", "Forward", "Line", "BLF", "Recall", "Hold" types are available when you configure ext keys.					
	To remove a function type, specify ext key type IDs which start with the symbol "-". For example, "-14, 5, 2" means to remove "Intercom", "DND", "Forward" types from the ext key types list. These ext key types are not available when you configure ext keys.					
	Note: Multiple ext key typ	e IDs are separated by c	ommas. N/A type is always	s kept.		
Do you itto d	Blank or 0 (all valid funct	ion types are available);				
Permitted Values	Dsskey type IDs.					
	For supported Dsskey typ	pes and IDs, refer to Supp	oorted Dsskey Types.			
Default	Blank					
Supported Devices	T57W, T54W, T53W, T53	, T48U, T48S, T48G, T46	U, T46S, T46G, T43U, T29	G, T27G		
Parameter	expansion_module.X.key.Y.type ^[1]			<y000000000xx>.cfg</y000000000xx>		
Description	It configures the feature for a specific ext key.					
		37 -Switch (only applicable to ext key 1 T29G/T27G phones)		le to ext key 1 for		
	0 -N/A	38-LDAP (only appears		vhen "Idap.enable=1")		
	1-Conference	15-Line	39-BLF List			
	2-Forward	16-BLF	40-Prefix			
	3 -Transfer	17-URL	41-Zero Touch			
	4 -Hold	18-Group Listening	42 -ACD			
	5-DND	20-Private Hold	45-Local Group			
Permitted	7 -Recall	22-XML Group	50-Phone Lock			
Values	8 -SMS	23-Group Pickup	56-Retrieve Park			
	9-Direct Pickup	24 -Multicast Paging (Paging)	61-Directory			
	10-Call Park	25-Record	66-Paging List 73-Custom Key (only available when "fea- tures.enhanced_dss_keys.enable=1")			
	11-DTMF	27-XML Browser				
	12-Voice Mail	34-Hot Desking	77-Mobile Account (only available to			
	13-Speed Dial	35-URL Record	T57W/T54W/T53W/T53/T	48U/T46U/T43U phones		
	14-Intercom		when the Bluetooth-enabled mobile phone is nected)			
			104 -Google Contacts (or contact_server.enable =	ily appear when "google_ 1")		

			105-XML Park		
				appliachta ta	
			310 -Dect Intercom (only a T57W/T54W/T53W/T53 p USB dongle is connected	hones when the DECT	
	Note: The permitted values are configurable by "expkey.type_range.custom".				
	Y=1-40 or 1-60, default: 0 - NA				
Default	Y=1 or 21, default: 37 – S	witch, only for T29G/T270	à		
	Y=2-20, 22-40, default: 0	Y=2-20, 22-40, default: 0 – NA, only for T29G/T27G			
Supported Devices	T57W, T54W, T53W, T53	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T29G, T27G			
Web UI	Dsskey > Ext Key > Type				
Parameter	expansion_module.X.key	v.Y.line ^[1]		<y000000000xx>.cfg</y000000000xx>	
Description	It configures the desired I	ine to apply the ext key fe	ature.		
	T57W/T54W/T48U/T48S/	T48G/T46U/T46S/T46G/T	29G: 0, 1-16;		
Permitted	T53W/T53/T43U: 0, 1-12;				
Values	T27G: 0, 1-6;				
	Note: The permitted value 0 is configurable only when "features.fwd_mode" is set to 1 (Custom) and expansion_module.X.key.Y.type" is set to 2 (Forward).				
Default	1				
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T29G, T27G				
Web UI	Dsskey > Ext Key > Line				
Parameter	expansion_module.X.key.Y.value ^[1] <y000000000xx>.cfg</y000000000xx>				
	It configures the value for	It configures the value for some ext key features.			
Description	For example, when you assign the Speed Dial to the programmable key, this parameter is used to spe- cify the contact number you want to dial out. It is also used to specify the contact number with the DTMF sequence. The contact number and DTMF sequence are separated by commas.				
Permitted Values	String within 99 characters				
Default	Blank				
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T29G, T27G				
Web UI	Dsskey > Ext Key > Value)			
Parameter	expansion_module.X.key	v.Y.label ^[1]		<y000000000xx>.cfg</y000000000xx>	
Description	It configures the label dis	played on the LCD screer	n for a specific programma	able key.	
Description	This is an optional config	uration.			
Permitted Values	String within 99 characte	rs			
Default	Blank				
Supported Devices	T57W, T54W, T53W, T53	, T48U, T48S, T48G, T46U	J, T46S, T46G, T43U, T29	G, T27G	

Web UI	Dsskey > Ext Key > Label				
Parameter	expansion_module.X.key.Y.extension ^[1]	<y0000000000xx>.cfg</y0000000000xx>			
	For multicast paging:				
1	It configures the channel of the multicast paging group.				
Description	For the BLF/BLF list/intercom feature:				
	It configures the pickup code.				
1	Note: It is only applicable when "expansion_module.X.key.Y.type" is set to 14	4, 16, 24 or 39.			
I	For multicast paging:				
Permitted	0 to 31				
Values	For the BLF/BLF list/intercom feature:				
	String within 256 characters	ring within 256 characters			
Default	0				
Supported <u>.</u> Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T29G, T27G				
Web UI	Dsskey > Ext Key > Extension				
Parameter	expansion_module.X.key.Y.xml_phonebook ^[1]	<y000000000xx>.cfg</y000000000xx>			
 Description	It specifies a specific group/phone book when multiple groups/phone books are configured on the phone. For example, both Remote Phone Book 1 "Sell" and Remote Phone Book 2 "Market" are configured on the phone, you can configure "expansion_module.X.key.Y.xml_phonebook = 0" to specify the Remote Phone Book 1 "Sell" for the specific ext key. The user can press this line key to access the Remote Phone Book 1 "Sell".				
I	Note: It is only applicable when "expansion_module.X.key.Y.type" is set to 22	2 or 45.			
Permitted Values	Integer from 0 to 48				
Default	0				
Supported _ Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T29	G, T27G			

 $^{[1]}$ X is the expansion module ID, Y is the EXT key ID. For T57W/T54W/T53W/T53/T48U/T46U/T43U, X=1-3, Y=1-60; For T48S/T48G/T46S/T46G, X=1-6, Y=1-40; for T29G/T27G, X=1-6, Y=1-20, 22-40.

Dsskey Lock Configuration

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

Parameter	custom.features.dsskey_lock_type	<y000000000xx>.cfg</y000000000xx>
Description	It configures which types of dsskeys to be locked on the phone. Nultiple dsskey type IDs are separated by commas.	
Permitted Values	Blank (all valid function types are not locked); dsskey type IDs. For supported dsskey types and IDs, refer to Supported Dsskey Types.	

Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G		
Parameter	custom.features.dsskey_unlock_password <y000000000xx>.cfg</y000000000xx>		
	t configures the password for unlocking the phone's dsskeys. f it is set to a value, the phone prompts users to enter the password when using the corresponding dsskey configured by "custom.features.dsskey_lock_type".		
Permitted Values	String within 32 characters		
Default	Blank (no prompt for entering the unlock password)		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G		

Dsskey Page Reset Configuration

The following table lists the parameter you can use to configure reset dsskey page.

Parameter	features.dsskey_page_reset.call_established.enable	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to automatically switch to a speci established.	fied dsskey page when a call is		
Permitted	0-Disabled			
Values	1-Enabled			
Default	0			
Supported Devices	T54W, T53W, T53, T46U, T46S, T43U, T42S, T42U, T41S, T33P, T	T33G, T27G		
Parameter	features.dsskey_page_reset.call_established.page	<y000000000xx>.cfg</y000000000xx>		
Description	It controls which dsskey page the phone automatically switches to	when a call is established.		
	Note: It works only if "features.dsskey_page_reset.call_established.enable" is set to 1 (Enabled).			
Permitted Values	Integer from 1 to 3 (4 for T3 phones)			
Default	1			
Supported Devices	T54W, T53W, T53, T46U, T46S, T43U, T42S, T42U, T41S, T33P, T	T33G, T27G		
Parameter	features.dsskey_page_reset.enable	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to automatically switch to a speci	fied dsskey page when all calls end.		
Permitted	0-Disabled			
Values	1-Enabled			
Default	0			
Supported Devices	T54W, T53W, T53, T46U, T46S, T43U, T42S, T42U, T41S, T33P, T	T33G, T27G		
Parameter	features.dsskey_page_reset.page	<y000000000xx>.cfg</y000000000xx>		
Description	It controls which dsskey page the phone automatically switches to	when all calls end.		
Description	Note: It works only if "features.dsskey_page_reset.enable" is set to 1 (Enabled).			

Permitted Values	Integer from 1 to 3 (4 for T3 phones)
Default	1
Supported Devices	T54W, T53W, T53, T46U, T46S, T43U, T42S, T42U, T41S, T33P, T33G, T27G

Enhanced DSS Keys

Enhanced DSS Keys (EDK) enables users to customize the functions of the phone's DSS keys.

With EDK, You can do the following:

- Assign a frequently-used function to DSS keys.
- Create menu shortcuts for frequently-used phone settings as need.
- Use EDK macro strings as the contact number.

Application scenarios involve the following:

- Adding new DSS keys to simplify the operation of common telephony tasks that may need more than one keypress with the default configuration.
- Removing certain default DSS keys for the functions that may be redundant or never used.
- · One-touch connecting to the contact's extension number without entering DTMF manually.

The rules for configuring EDK for DSS keys are different. Before using EDK, you are advised to become familiar with the macro language.

For more information on Enhanced DSS Keys, refer to Using Enhanced DSS Keys on Yealink IP Phones.

Topics

Guidelines for Configuring Enhanced DSS Keys Macro Action Strings EDK Configuration EDK List Configuration EDK User Input Prompt Configuration EDK Soft Keys Configuration Example: Configuring EDK List for a Line Key Example: Using EDK Macro Strings as the Contact Number

Guidelines for Configuring Enhanced DSS Keys

The following guidelines will help you to configure EDK efficiently:

- Activation of EDK functions requires valid macro construction.
- Character "\$" delimits the parts of the macro string (except the digits only) and it must exist in pairs. For more
 information, refer to Macro Action Strings.
- Macros can be invoked in the format "!<macro name>", where <macro name > is defined by the parameter "edk.edklist.X.mname".
- If there are two or more same macros, the soft key or DSS key will invoke the macro with the smallest value of X defined by the parameter "edk.edklist.X.mname".

Macro Action Strings

Before using EDK, you must be familiar with macro language shown in this section.

The following table shows the basic macro action string syntax when creating EDK macros:

Macro Action	Description
IDIGITS	The characters to be sent. The following characters are supported: . @ $* $ # + 0-9 and English letters. The appearance of this parameter depends on the

Macro Action Description		
	action string.	
	Example: *981135.	
	This is the command. It can appear anywhere in the action string. Supported commands (or shortcuts) include:	
	hang up (hu)hold (h)	
\$C <command/> \$	waitconnect (wc)	
	 pause <number of="" seconds=""> (p <num sec="">) where the maximum value is 10</num></number> 	
	Example : 4411\$Cwc\$\$Cp10\$ defines dialing 4411 > > waitconnect > > connected and lasts 10 seconds.	
	The embedded action type. Multiple actions can be defined. Supported action types include:	
	invite	
	• dtmf	
\$T <type>\$</type>	• refer	
	intercom	
	Example : *338\$Tdtmf\$ defines sending the *338 by the type of DTMF.	
	Note : We recommend that you always define this field. If not, the supplied digits are dialed using INVITE.	
\$M <macro>\$</macro>	The embedded macro. The <macro> string must begin with a letter. If the macro name is not defined, the execution of the action string will be ignored.</macro>	
	Example: \$MAA\$ means invoking the EDK macro AA.	
	It has the same effect as pressing the desired soft key.	
	Each soft key has a unique identifier on the IP phone, you can configure this parameter according to the system-defined softkey ID. If the softkey ID is not defined on the phone or there is no matched soft key on the current screen, the execution of the action string will be ignored. The softkey ID is case-insens itive.	
	Example: \$Sanswer\$ means pressing the Answer soft key.	
\$S <softkey id="">\$</softkey>	Yealink phones support customizing soft keys. When the phone invokes a cus- tom soft key, the prefix "#" must be added.	
	Example : If the custom softkey label is IVR1, the custom softkey ID is custom_ macro, then \$S#custom_macro\$ means pressing the IVR1 soft key.	
	Note : To view the softkey ID, you can set "features.enhanced_dss_key- s.enable" and "edk.id_mode.enable" to 1 (Enabled) and then long press the Volume Up key when the phone is idle.	
	The functionality of performing this action is the same as that of pressing the desired hard key.	
	Supported key names include:	
\$K <key name="">\$</key>	 LineKeyX (for T57W/T48U/T48S/T48G, X=29; for T54W/T46U/T46S/T46G/T29G, X=27; for T42U/T42G/T42S/T41P/T41S, X=15; for T53W/T53/T43U/T27G, X=21; for T33P/T33G, X=12; for T40P/T40G/T23P/T23G, X=3; for T31P/T31G/T31/T21(P) E2, X=2). 	
	SoftKeyX (X ranges from 1 to 4)	

Macro Action	Description	
	ArrowUp (not applicable to T57W)	
	ArrowDown (not applicable to T57W)	
	ArrowLeft (not applicable to T57W)	
	ArrowRight (not applicable to T57W)	
	VolDown	
	• VolUp	
	Cancel (not applicable to T57W)	
	OK (not applicable to T57W)	
	 DialPadX (X ranges from 0 to 9) 	
	DialPadPound	
	DialPadStar	
	Headset	
	Mute	
	• Message	
	• Hold	
	Redial	
	Transfer	
	Speaker	
	 Conference (only applicable to T29G/T27G) 	
	• ExtX@Y (X stands for the serial number of expansion module key, Y stands	
	for the serial number of expansion module; For	
	T48S/T48G/T46S/T46G/T29G: X ranges from 1 to 40, Y ranges from 1 to 6;	
	For T57W/T54W/T53W/T53/T48U/T46U/T43U: X ranges from 1 to 60, Y ranges from 1 to 3; @Y can be omitted if there is only one expansion mod-	
	ule connected to the phone.)	
	• Menu (You can enter the menu by executing this command at any interface	
	except the non-executable situations. For example, entering menu is blocked during an active call.)	
	• Home (You can return to the idle screen by executing this command on the	
	dialing screen for T57W/T48U/T48S/T48G phones) Example : \$KDialPadPound\$ means pressing the pound key.	
	Note : If a key (for example, Redial key) is not found but the function is available, the phone will perform the corresponding action. If a key is not found	
	and the function is unavailable, the execution of the action string will be	
	ignored.	
	The action is to position and enter the desired menu item.	
\$l <menu id="" item="">\$</menu>	Each menu item has a unique identifier on the IP phone, and you can con- figure this parameter according to the system-defined menu item ID. If the menu item ID is not defined on the phone or there is no matched menu item on the current screen, the execution of the action string will be ignored. The	
	menu item ID is case-insensitive.	
Example : \$Istatus_list& means entering the Status menu.		
	Note : To view the menu item ID, you can set "edk.id_mode.enable" to 1 (Enabled) and then long press the Volume Up key when the phone is idle.	
	The string of the user input promt.	
\$P <label>&T<title>&C<characters</th><td>"label" means the specified label for the user input prompt.</td></tr><tr><th>number allowed>&N&M\$</th><td>"title" means the specified title for the user input prompt.</td></tr><tr><th></th><td></td></tr></tbody></table></title></label>		

Macro Action	Description	
	"characters number allowed" defines the maximum number of input char- acters.	
	If &N is included, the character type is Number (default input method: 123). If &N is not included, the character type is Text (default input method: abc), you can manually change the input method. (For T57W/T48U/T48S/T48G, if &N is included, the input mode is numeric&symbolic. If &N is not included, the onscreen keyboard is displayed, you can manually change the input mode.)	
	If &M is included, the inputs are masked by the asterisk characters "*" (dot for T57W/T48U/T48S/T48G).	
	Example : \$PPassword&C3&N&M\$ means prompting a Password pop-up box, the maximum number of input characters is 3, the input type is Number, and the input is masked by the asterisk characters "*" (dot for T57W/T48U/T48S/T48G).	
	Note: &T <title> is not applicable to
T57W/T48U/T48S/T48G/T46G/T42G/T41P/T29G phones.</td></tr><tr><td></td><td>The user input prompt string.</td></tr><tr><td></td><td>"EDK user input prompt X" means which EDK user input prompt is invoked. It indicates the X defined by "edk.edkprompt.X.enable".</td></tr><tr><td>\$P<EDK user input prompt
X>N<characters number</td><td>"characters number allowed" defines the maximum number of input char-
acters. You need to press the Enter soft key to complete data entry.</td></tr><tr><td>allowed>\$</td><td>Example: \$P2N5\$ means invoking the EDK user input prompt 2 and inputting 5 characters at most.</td></tr><tr><td></td><td>Note: For more information on EDK user input prompt, refer to EDK User Input Prompt Configuration.</td></tr><tr><td></td><td>This is the label for the entire operation. The value can be any string including the null string (in this case, no label displays).</td></tr><tr><td>\$L<label>\$</td><td>This label is used if no label is configured for a custom DSS key or soft key, otherwise, this one is ignored. Make this the first entry in the action string.</td></tr><tr><td></td><td>Example: \$LEDK2\$1234\$Tinvite\$ defines calling out the number 1234 and using the label "EDK2" for a Custom Key.</td></tr><tr><td></td><td>The status of the BLF/BLF list DSS key LED. Specify the LED color for the BLF/BLF list DSS key and the duration time (in milliseconds) for the cor-
responding status of the BLF/BLF list DSS key. The valid value of the duration ranges from 100 to 60000ms.</td></tr><tr><td></td><td>Can be composed of multiple combinations of "color" and "time". The status will be stuck in an infinite loop until triggered by other macros.</td></tr><tr><td>\$LED<color and time>&L<label>\$</td><td>Supported colors include (must be lowercase):</td></tr><tr><td>(not applicable to T30P/T30/T19(P)</td><td>• r (red)</td></tr><tr><td>E2/CP920 phones)</td><td>• ri (red; red with an incoming mark for T57W/T48U/T48S/T48G)</td></tr><tr><td></td><td> ro (red; red with an outgoing mark for T57W/T48U/T48S/T48G) </td></tr><tr><td></td><td> rd (red; red with a DND mark for T57W/T48U/T48S) </td></tr><tr><td></td><td>• g (green)</td></tr><tr><td></td><td>• gi (green; green with an incoming mark for T57W/T48U/T48S/T48G)</td></tr><tr><td></td><td> go (green; green with an outgoing mark for T57W/T48U/T48S/T48G) y (yellow) </td></tr><tr><td></td><td></td></tr></tbody></table></title>	

Macro Action	Description
	 yi (yellow; yellow with an incoming mark for T57W/T48U/T48S/T48G) yo (yellow; yellow with outgoing mark for T57W/T48U/T48S/T48G) yd (yellow; yellow with a DND mark for T57W/T48U/T48S) o (off)
	&L <label> (Optional.): You have to put the "&L<label>" last in the command flow. Example: \$LEDg1000o100r300&Lidle\$ means an infinite loop for BLF/BLF list DSS key LED status: glow green for 1000ms, be in the off state for 100ms and then glow red for 300ms. At the same time, the label of the BLF/BLF list DSS key is changed to "idle".</label></label>
	Note : The last "color" can be configured without "time", and it means per- manently displaying the last color until triggered by other macros. This macro can be only used for BLF/BLF list feature. For more information, refer to BLF/BLF List Key LED Status and Behavior Configuration.

EDK Configuration

To configure the EDK list, EDK user input prompt, EDK soft keys, and custom DSS keys, you have to enable EDK feature. By default, the EDK feature is disabled.

Yealink phones can display the softkey ID or menu item ID by long pressing the Volume Up key. It is especially useful for those users who need to view the softkey ID or menu item ID when configuring EDK macros.

The following graphic shows an example for displaying the softkey ID and menu item ID after accessing the menu of T46S/G phones:



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

Parameter	features.enhanced_dss_keys.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the Enhanced DSS Keys (EDK) feature.		
	0-Disabled 1-Enabled		
Default	0		
Parameter	edk.id_mode.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables to view the softkey or menu item ID by long pressing the Volume Up key for three seconds on any screen. Note : The menu item ID is displayed on the status bar of the phone. Long pressing the Volume Up key again for three seconds to exit. It works only if "features.enhanced_dss_keys.enable" is set to 1		

	(Enabled).
Permitted Values	0-Disabled 1-Enabled
Default	0

EDK List Configuration

Using the Enhanced DSS Keys (EDK) List parameters to define a macro is useful when defining more than one soft key or DSS key.

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

Parameter	edk.edklist.X.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables Enhanced DSS Keys (EDK) macro X.		
Description	Note: It works only if "features.enhanced_dss_keys.enable" is set to 1 (Enabled).		
	0-Disabled		
Values	1-Enabled		
Default	0		
Parameter	edk.edklist.X.mname ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the unique identifier used by the soft k enhanced DSS keys entry for macro X.	ey or DSS key configuration to reference the	
	It cannot start with a digit. This parameter must hav	e a value, it cannot be left blank.	
Description	Example:		
	edk.edklist.2.mname = macro2		
	Note : If there are two or more same macros, the soft key or DSS key will invoke the macro with the smallest value of X. It works only if "features.enhanced_dss_keys.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Parameter	edk.edklist.X.action ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the action string that contains a macro definition of the action that the softkey or DSS key performs.		
	This parameter must have a value, it cannot be left	blank.	
Description	Example:		
	edk.edklist.2.action = 1013\$Tinvite\$		
	Note: It works only if "features.enhanced_dss_keys.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		

 $^{[1]}X$ is the macro ID. X=1-255.

EDK User Input Prompt Configuration

The EDK user input prompt parameters must be used if interactivity with the user is implemented as part of any macro.

Parameter	edk.edkprompt.X.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables user input prompt X.		
Description	Note : If a macro attempts to use an EDK user input prompt that is disabled, the macro execution fails. It works only if "features.enhanced_dss_keys.enable" is set to 1 (Enabled).		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Parameter	edk.edkprompt.X.label ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the text string used as a label of the us	er input prompt X.	
	If it is left blank, Default is displayed.		
Description	Example:		
	edk.edkprompt.1.label = Enter Password		
	Note: It works only if "features.enhanced_dss_keys 1 (Enabled).	e.enable" and "edk.edkprompt.X.enable" are set to	
Permitted Values	String		
Default	Default		
Parameter	edk.edkprompt.X.type ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the type of characters entered by the u	iser for user input prompt X.	
	If it is set to numeric, the default input method is 123, and you can switch among abc/ABC/2aB input methods.		
Description	If it is set to text, the default input method is abc, and you can switch among ABC/2aB/123 input meth- ods.		
	Note: It works only if "features.enhanced_dss_keys.enable" and "edk.edkprompt.X.enable" are set to 1 (Enabled).		
Permitted Values	text or numeric		
Default	text		
Parameter	edk.edkprompt.X.userfeedback ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the user input feedback method for us	er input prompt X.	
Description	Note: It works only if "features.enhanced_dss_keys.enable" and "edk.edkprompt.X.enable" are set to 1 (Enabled).		
Permitted visible-the entered text is visible.			
Values	masked -the entered text is displayed as asterisk characters "*". It can be used to mask password fields.		
Default	visible		
Parameter	edk.edkprompt.X.title ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the text string used as a title for the use user input prompt screen.	er input prompt X. The title appears at the top of the	
	If it is left blank, the EDK Prompt is displayed.		

The following table lists the parameters you can use to configure the EDK user input prompt.

	Note: It works only if "features.enhanced_dss_keys.enable" and "edk.edkprompt.X.enable" are set to 1 (Enabled).
Permitted Values	String
Default	EDK Prompt
Supported Devices	All phones except T57W, T48U, T48S, T48G, T46G, T42G, T41P, T29G

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

EDK Soft Keys Configuration

You can customize the soft keys as need. This feature is typically used to access frequently-used functions or to create menu shortcuts to frequently-used phone settings.

Custom soft keys can be added in the following phone states:

- Idle There are no active calls on the phone.
- Alerting (or ringing) There is an incoming call on the phone.
- Connecting There is an outgoing call on the phone. Moreover, the call is connecting.
- Transfer connecting There is a call being transferred to another phone. Moreover, the call is connecting.
- Talk There is an active call on the phone.
- Call failed The outgoing call encounters a failure.
- **Ring back** There is an outgoing call on the phone. Moreover, the phone is in the ringback state.
- **Transfer ring back** There is a call being transferred to another phone. Moreover, the phone is in the ringback state.
- Hold The call is placed on hold on the phone.
- Held The call is held.
- Conference The phone sets up a conference call.
- Dial tone The phone is on the dialing screen without entering the number.
- Dialing The phone is on the dialing screen with entering the number but not dialing.

Note: Configuring the custom soft keys may affect the softkey layout in different call states. For more information on softkey layout, refer to Softkey Layout.

The following table lists the parameters you can use to configure EDK soft keys.

Parameter	softkey.X.enable ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the custom soft key X. Note : It works only if "features.enhanced_dss_keys.enable" is set to 1 (Enabled).	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	softkey.X.label ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	It configures the text displayed on the soft key label. Note : It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).	
Permitted Values	String	
Default	Blank	
Parameter	softkey.X.position ^[1]	<y000000000xx>.cfg</y000000000xx>

[
_	It configures the location on the phone screen for soft key X.		
Description	Note: It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).		
	Integer from 0 to 10 If it is set to 0, the soft key X is located in the first available position from the left.		
Permitted			
Values	If it is set to other values, a More soft key appears and the soft key X is located in the specified pos- ition. The following soft keys are moved by one position to the right. Press the More soft key to view the remaining soft keys.		
Default	0		
Parameter	softkey.X.action ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the action or function for custom soft ke	ey X.	
	This value uses the same macro action string synta	x as an Enhanced DSS key.	
	You can also invoke the EDK macro that was alrea	dy defined. The macro name follows the character	
Description	Example:		
-	softkey.1.action = !macro1		
	In this example, macro1 stands for the macro name configured by the parameter "edk.edk- list.X.mname".		
	Note: It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Parameter	softkey.X.softkey_id ^[1] <y00000000xx>.cfg</y00000000xx>		
	It configures the softkey id for custom soft key X.		
	Example:		
Description	softkey.1.softkey_id = custom_macro1		
	Note: It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Parameter	softkey.X.use.idle ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the custom soft key X to be d		
	Note: It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	softkey.X.use.incoming_call ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the custom soft key X to be d	isplayed in the alerting (ringing) state.	

	Note : It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	softkey.X.use.connecting ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the custom soft key X to be displayed in the connecting state.		
Description	Note : It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
	0		
Parameter		<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the custom soft key X to be displayed in the transfer connecting state.		
Description	Note : It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	softkey.X.use.on_talk ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the custom soft key X to be displayed in the talking state.		
Description	Note : It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	softkey.X.use.call_failed ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the custom soft key X to be displayed in the call failed state.		
Description	Note: It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	softkey.X.use.ring_back ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the custom soft key X to be displayed in the ring back state.		
Description	Note: It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
	0		
Parameter	softkey.X.use.transfer_ring_back ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the custom soft key X to be displayed in the transfer ring back state.		

	Note : It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).			
Permitted	0-Disabled			
Values	1-Enabled			
Default	0			
Parameter	softkey.X.use.hold ^[1]	<y000000000xx>.cfg</y000000000xx>		
	It enables or disables the custom soft key X to be di	splayed in the hold state.		
Description	Note : It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).			
Permitted	0-Disabled			
Values	1-Enabled			
Default	0			
Parameter	softkey.X.use.held ^[1]	<y000000000xx>.cfg</y000000000xx>		
	It enables or disables the custom soft key X to be displayed in the held state.			
Description	Note : It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).			
Permitted	0-Disabled			
Values	1-Enabled			
Default	0			
Parameter	softkey.X.use.conferenced ^[1]	<y000000000xx>.cfg</y000000000xx>		
	It enables or disables the custom soft key X to be di	splayed in the conference state.		
Description	Note: It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).			
Permitted	0-Disabled			
Values	1-Enabled			
	0			
Parameter	softkey.X.use.dialtone ^[1]	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the custom soft key X to be displayed in the dial tone (no numbers entered) state.			
	Note: It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1			
	(Enabled).			
	0-Disabled			
Values	1-Enabled			
Default	0			
Parameter	softkey.X.use.dialing ^[1]	<y000000000xx>.cfg</y000000000xx>		
	It enables or disables the custom soft key X to be displayed in the dialing state.			
Description	Note : It works only if "features.enhanced_dss_keys.enable" and "softkey.X.enable" are set to 1 (Enabled).			
Permitted	0-Disabled			
Values	1-Enabled			
Default	0			

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

Example: Configuring EDK List for a Line Key

The following takes an example to help you understand how to execute the macro action string.

Example

features.enhanced_dss_keys.enable = 1

edk.edklist.1.enable = 1

edk.edklist.1.mname = IVR1

edk.edklist.1.action = 1013\$Tinvite\$\$Cwc\$\$Cp10\$\$Penter number&C4&N\$\$Tdtmf\$\$Cp3\$\$Chu\$

linekey.1.type = 73

linekey.1.value = !IVR1

linekey.1.label = Custom

After provisioning, the line key 1 will invoke the macro "IVR1". You can press the line key 1 to execute the action "1013\$Tinvite\$\$Cwc\$\$Cp10\$\$Penter number&C4&N\$\$Tdtmf\$\$Cp3\$\$Chu\$".

You can also set "linekey.1.value = 1013\$Tinvite\$\$Cwc\$\$Cp10\$\$Penter number&C4&N\$\$Tdtmf\$\$Cp3\$\$Chu\$" without configuring an EDK list. You can also manually assign a line key using the macro "IVR1" or action string "1013\$Tinvite\$\$Cwc\$\$Cp10\$\$Penter number&C4&N\$\$Tdtmf\$\$Cp3\$\$Chu\$" manually on their phone.

Example: Using EDK Macro Strings as the Contact Number

When you add a contact number in the local directory, LDAP, Remote phone book or XML phone book, you can use the EDK macro strings.

Use one of the following formats when adding a contact number:

- Add an exclamation mark (!) prefix to the macro name, and then enclose them in parenthesis. For example, (!macro1).
- EDK macro strings enclosed in parenthesis. For example, (8001234567\$Cwc\$\$Cp2\$103\$Tdtmf\$).

Example: Assume that a contact whose company phone number is 8001234567, and extension number is 103. If you want to call this contact directly, you can configure the contact number according to the following steps:

1. Configure the following parameters:

features.enhanced_dss_keys.enable = 1 edk.edklist.1.enable = 1 edk.edklist.1.mname = macro1

```
edk.edklist.1.action = 8001234567$Cwc$$Cp2$103$Tdtmf$
```

- 2. Trigger the phone to perform auto provisioning.
- 3. On your phone, assign (!macro1) to be the contact number.

When you call this contact, the phone will invoke the macro "macro1". So that the phone will execute the action "8001234567\$Cwc\$\$Cp2\$103\$Tdtmf\$".

You can also assign (8001234567\$Cwc\$\$Cp2\$103\$Tdtmf\$) to be the contact number directly.

Note: 8001234567\$Cwc\$\$Cp2\$103\$Tdtmf\$ defines that the phone dials 8001234567 first, and sends DTMF sequence 103 automatically after the call is connected and lasts for 2 seconds.

Power Saving

The power-saving feature turns off the backlight and screen (turning off the screen is only applicable to color screen phones and EXP50 (connected to the T57W/T54W/T53W/T53 phones)/EXP43 (connected to the T48U/T46U/T43U phones) to conserve energy. The IP phone and EXP50/EXP43 (if connected) enter power-saving mode after the phone has been idle for a certain period of time. And the IP phone and EXP50/EXP43 (if connected) will exit power-saving mode if a phone/EXP50/EXP43 event occurs - for example, the phone receives an incoming call or a new

message, or you press a key on the phone/EXP50/EXP43 or tap the touch screen (touch screen is only applicable to T57W/T48U/T48S/T48G phones). The power saving is not applicable to T30P/T30/T19(P) E2 phones.

Note: If the Screen Saver is enabled on your phone, the power-saving mode will still occur. For example, if a screen saver is configured to display after the phone has been idle for 5 minutes, and the power-saving mode is configured to turn off the backlight and screen after the phone has been idle for 15 minutes, the backlight and screen will be turned off after the screen saver displays for 10 minutes.

Topic

Power Saving Configuration

Power Saving Configuration

You can enable or disable power saving, and set the different idle timeout for office hours and off hours.

- Office Hour: specify the start time and end time of the day's office hour. You can change the office hours to avoid affecting your work.
- Idle Timeout: specify the period of time before the IP phone enters the power-saving mode.

You can specify the following three types of idle timeout:

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

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

If the phone has an incoming call or new message, the User Input Extension Idle TimeOut is ignored.

Tip: You can choose to set a higher User Input Extension Idle TimeOut than the Office Hours Idle TimeOut and Off Hours Idle TimeOut so that the phone does not enter the power-saving mode too often after you use the phone.

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

Parameter	features.power_saving.intelligent_mode	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the power saving intelligent mod	le.	
Permitted Values	 0-Disabled, the phone stays in power-saving mode even if the office hour arrives the next day. 1-Enabled, the phone automatically identifies the office hour and exits power-saving mode once the office hour arrives the next day. 		
Default	1		
Supported Devices	All phones except T30P/T30/T19(P) E2		
Parameter	features.power_saving.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the power saving feature.		
Permitted Values	 0-Disabled, the phone automatically enters the power-saving mode to protect the screen when the phone is inactive for 72 hours. That is, the color screen phones will turn off the backlight and screen, and the black-and-white screen phones will only turn off the backlight. Image persistence may be caused by LCD. 1-Enabled 		
Default	1		
Supported	All phones except T30P/T30/T19(P) E2		

Develope			
Devices			
Web UI	Settings > Power Saving > Power Saving		
Parameter	features.power_saving.office_hour.idle_timeout	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the time (in minutes) to wait in the idle sta during the office hours.	te before the phone enters power-saving mode	
Permitted Values	Integer from 1 to 960		
Default	960		
Supported Devices	All phones except T30P/T30/T19(P) E2		
Web UI	Settings > Power Saving > Office Hour Idle TimeOut		
Parameter	features.power_saving.off_hour.idle_timeout	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the time (in minutes) to wait in the idle sta ing the non-office hours.	te before phone enters power-saving mode dur-	
Permitted Values	Integer from 1 to 10		
Default	10		
Supported Devices	All phones except T30P/T30/T19(P) E2		
Web UI	Settings > Power Saving > Off Hour Idle TimeOut		
Parameter	features.power_saving.user_input_ext.idle_timeout	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the minimum time (in minutes) to wait in the idle state - after using the phone - before the phone enters the power-saving mode.		
Permitted Values	Integer from 1 to 30		
Default	10		
Supported Devices	All phones except T30P/T30/T19(P) E2		
Web UI	Settings > Power Saving > User Input Extension Idle T	īmeOut	
	features.power_saving.office_hour.monday		
	features.power_saving.office_hour.tuesday		
	features.power_saving.office_hour.wednesday		
Parameter	features.power_saving.office_hour.thursday	<y000000000xx>.cfg</y000000000xx>	
	features.power_saving.office_hour.friday		
	features.power_saving.office_hour.saturday		
	features.power_saving.office_hour.sunday		
	It configures the start time and end time of the day's office hour.		
Description	Start time and end time are separated by a comma.		
Description	Example:		
	features.power_saving.office_hour.monday = 7,19		
Permitted	Integer from 0 to 23, Integer from 0 to 23		

Values			
Default	7,19 - for Monday, Tuesday, Wednesday, Thursday, Friday.		
Delault	7,7 - for Saturday, Sunday.		
Supported Devices	All phones except T30P/T30/T19(P) E2		
Web UI	Settings > Power Saving > Monday/Tuesday/Wednesday/Thursday/Friday/Saturday/Sunday		
Parameter	features.power_saving.power_led_flash.on_time <y000000000xx>.cfg</y000000000xx>		
Description	It configures the period of time (in milliseconds) when the power LED indicator is on in the power-sav- ing mode.		
Description	If it is set to 0 and "features.power_saving.power_led_flash.off_time" is not set to 0, the power LED indicator will be off when the phone enters the power-saving mode.		
Permitted Values	0, Integer from 100 to 10000		
Default	500		
Supported Devices	All color screen phones (except T33P/T33G)		
Web UI	Features > Power LED > Power Saving Light Time		
Parameter	features.power_saving.power_led_flash.off_time <y000000000xx>.cfg</y000000000xx>		
Description	It configures the period of time (in milliseconds) when the power LED indicator is off in the power-sav- ing mode.		
	If it is set to 0, the power LED indicator will be on when the phone enters the power-saving mode.		
Permitted Values	0, Integer from 100 to 10000		
Default	3000		
Supported Devices	All color screen phones (except T33P/T33G)		
Web UI	Features > Power LED > Power Saving Dark Time		
Description Permitted Values Default Supported Devices	It configures the period of time (in milliseconds) when the power LED indicator is off in the power-sav- ing mode. If it is set to 0, the power LED indicator will be on when the phone enters the power-saving mode. 0, Integer from 100 to 10000 3000 All color screen phones (except T33P/T33G)		

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 following shows search results displayed on T46S/G phones:

◄) 101				
S 101	1			
	10			
	102			
	1002			
	3051			
Send	123	3	Delete	Cancel

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	
	remote_directory_search	
	ldap_search	
	BroadSoft_directory_search	
	BroadSoft_UC_search	The directory list (For example, "local_directory_search" for the local directory list).
id_name	plcm_directory_search	Note : Do not edit this field.
	genband_directory_search	
	MetaSwitch_directory_search	
	MetaSwitch_calllog_search	
	mobile_directory_search	
	google_directory_search	
	Local Contacts	
	History	
	Remote Phonebook	
	LDAP	
	Network Directories	
diaplay name	BroadSoft Buddies	The display name of the directory list.
display_name	PhoneBook	Note: We recommend that you do not edit this field.
	Personal Address Book	
	Network Contacts	
	Network Call List	
	Mobile Contacts	
	Google Contacts	
priority	1 to 12	The priority of the search results.
phony	1 is the highest priority.	

Attributes	Valid Values	Description
enable	IU: DISADIEO	Enable or disable the phone to search the desired directory list.
dev	T19 T21 T23 T40 T40G T27 T27G T29 T41 T42 T42S T41S T46 T46S T48 T48S CP920 T54W T53W T53 T57W T48U T46U T43U T42U T29 T46 T46S T48 T48S T54W T53W T53 T57W T48U T46U T43U T42U T29 T46 T46S T48 T48S T42S T41S T27G CP920 T54W T53W T53 T57W T48U T46U T43U T42U	The applicable phone models of the directory list.

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 <y00000000xx>.cfg</y00000000xx>		
Description	It enables or disables the phone to automatically search entries from the local directory, 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.local_directory.priority <pre><y00000000xx>.cfg</y00000000xx></pre>		
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 sea results on the pre-dialing/dialing screen.	arch entries from the call history list, and display	
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>	
Description	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>	
Description	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.		
Permitted Values	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>	
Description	It enables or disables the phone to automatically search entries from the LDAP, and display results on the pre-dialing/dialing screen.		
Permitted Values	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	n 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		

Recent Call Display in Dialing

Recent call display allows you to view the placed calls list when the phone is on the dialing screen (lifts the handset, presses the Speakerphone key or desired line key). You can select to place a call from the placed calls list.

The following shows the recent calls displayed on T46S/G phones:

♦) 101	♦) 101			
S 101				
	102			
	11			
	1002			
	10			
Directory	123	GPickup	Cancel	

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		
Values1-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		

Icon Customization

You can upload custom DSS keys icons and menu icons to the phone. Contact Yealink FAE to obtain the lcon Templates Pack. Make sure that the name, size, and format of new icons are the same as the built-in ones.

It is only applicable to T57W/T54W/T48U/T48S/T46U/T46S phones.

Topic

Custom Icons Configuration

Custom Icons Configuration

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

Parameter	phone_setting.icon.url ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the access URL of the *.tar file for custom icons.		
Permitted Values	URL within 511 characters		
Default	Blank		
Supported Devices	T57W, T54W, T48U, T48S, T46U, T46S		
Parameter	phone_setting.icon.delete ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It deletes all custom icons.		
Permitted Values	http://localhost/all		
Default	Blank		
Supported Devices	T57W, T54W, T48U, T48S, T46U, T46S		

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

Warnings Display

When one of the following situations occurs:

- The default password is being used
- Account registration failed
- Provisioning credentials are wrong
- Network is unavailable
- Line on redundancy registration

On the T42S/T42U/T41S phones, a warning message appears on the idle screen.

On the other phones, a warning icon appears in the status bar.

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.	
Permitted	0-Disabled	
Values	1-Enabled	
Default	1	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	

Out of Service

When the network of the phone is disconnected and the warning message appears on the screen, the phone will play an alert tone.

Topic

Out of Service Configuration

Out of Service Configuration

The following table lists the parameter you can use to configure out of service.

Parameter	features.out_of_service_alert.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to play an alert tone when out of service caused by network abnor- mality.		
	Note: You can customize the alert tone by the parameter "voice.tone.congestion".		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920		
Parameter	features.out_of_service_alert_time <y00000000xx>.cfg</y00000000xx>		
Description	It configures the time (in seconds) to wait before the phone plays an alert tone after the network is abnormal.		
	Note: It works only if "features.out_of_service_alert.enable" is set to 1 (Enabled).		
Permitted Values	Integer from 0 to 3600		
Default	60		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920		

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 Logon Wizard Multiple Line Keys per Account

Account Registration

Registering an account makes it easier for the phones to receive an incoming call or dial an outgoing call. Yealink phone supports registering multiple accounts on a phone (T30P/T30/T19(P) E2 phones only support registering one SIP account; CP920 phones support one SIP/cloud account or two PSTN accounts); each account requires an extension or phone number.

Topics

Supported Accounts SIP Accounts Registration Configuration PSTN Account Configuration Registration Settings Configuration

Supported Accounts

The number of registered accounts must meet the following:

Phone Model	Accounts
T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G	<=16
T53W/T53/T43U/T42U/T42S/T42G	<=12
T41P/T41S/T27G	<=6
T33P/T33G	<=4
T40P/T40G/T23P/T23G	<=3
T31P/T31G/T31/T21(P) E2	<=2
T30P/T30/T19(P) E2	1
00000	1 (SIP/Cloud account)
CP920	<=2 (PSTN account)

SIP Accounts Registration Configuration

The following table lists the parameters you can use to register SIP accounts.

Parameter	account.X.enable ^[1]	<mac>.cfg</mac>
Description	It defines the activation status of the account.	
Permitted Values	0-Disabled 1-Enabled	

Default 0 Web UI Account > Register > Line Active Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Activation Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Accounts > Activation Parameter account.X.label ^[1] <mac>.cfg Description It configures the display label of the account. Permitted String within 99 characters Default Blank Web UI Account > Register > Label Phone UI Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones: Menu > Advanced (default password: admin) > Account X > Label Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Account X > Label</mac>	ion		
Phone UI Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Activation Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Accounts > Activati Parameter account.X.label ^[1] <mac>.cfg Description It configures the display label of the account. Permitted Values String within 99 characters Default Blank Web UI Account > Register > Label Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones: Menu > Advanced (default password: admin) > Account X > Label</mac>	ion		
Phone UI Menu > Advanced (default password: admin) > Accounts > Account X > Activation Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Accounts > Activati Parameter account.X.label ^[1] <mac>.cfg Description It configures the display label of the account. Permitted String within 99 characters Default Blank Web UI Account > Register > Label Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label</mac>	ion		
Phone UI Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Accounts > Activati Parameter account.X.label ^[1] <mac>.cfg Description It configures the display label of the account. Permitted Values String within 99 characters Default Blank Web UI Account > Register > Label Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label</mac>	ion		
Black-and-white Screen Phones: Menu > Settings > Advanced Settings (default password: admin) > Accounts > Activati Parameter account.X.label ^[1] <mac>.cfg Description It configures the display label of the account. Permitted Values String within 99 characters Default Blank Web UI Account > Register > Label Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones:</mac>	ion		
Parameter account.X.label ^[1] <mac>.cfg Description It configures the display label of the account. Permitted String within 99 characters Values String within 99 characters Default Blank Web UI Account > Register > Label Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones: Black-and-white Screen Phones:</mac>	ion		
Description It configures the display label of the account. Permitted Values String within 99 characters Default Blank Web UI Account > Register > Label Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones: Black-and-white Screen Phones:			
Permitted Values String within 99 characters Default Blank Web UI Account > Register > Label Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones: Black-and-white Screen Phones:			
Values String within 99 characters Default Blank Web UI Account > Register > Label Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones:			
Web UI Account > Register > Label Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones: Black-and-white Screen Phones:			
Phone UI Color Screen Phones: Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones:			
Phone UI Menu > Advanced (default password: admin) > Accounts > Account X > Label Black-and-white Screen Phones:			
Phone UI Black-and-white Screen Phones:			
Black-and-white Screen Phones:			
Menu > Settings > Advanced Settings (default password: admin) > Accounts > Label			
Parameter account.X.display_name ^[1] <mac>.cfg</mac>			
Description It configures the display name of the account.	It configures the display name of the account.		
Permitted Values String within 99 characters	String within 99 characters		
Default Blank	Blank		
Web UI Account > Register > Display Name	Account > Register > Display Name		
Color Screen Phones:			
Menu > Advanced (default password: admin) > Accounts > Account X > Display Name	Э		
Black-and-white Screen Phones:			
Menu > Settings > Advanced Settings (default password: admin) > Accounts > Display	y Name		
Parameter account.X.auth_name ^[1] <mac>.cfg</mac>			
Description It configures the user name for authentication registration.	It configures the user name for authentication registration.		
Permitted Values String within 99 characters	String within 99 characters		
Default Blank	Blank		
Web UI Account > Register > Register Name			
Color Screen Phones:			
Menu > Advanced (default password: admin) > Accounts > Account X > Register Nam	 Menu > Advanced (default password: admin) > Accounts > Account X > Register Name		
Phone UI Black-and-white Screen Phones:			
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	
	Color Screen Phones:	
Phone UI	Menu > Advanced (default password: admin) > Acc	counts > Account X > User Name
	Black-and-white Screen Phones:	
	Menu > Settings > Advanced Settings (default pass	word: admin) > Accounts > User Name
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	
	Color Screen Phones:	
Dhana III	Menu > Advanced (default password: admin) > Acc	counts > Account X > Password
Phone UI	Black-and-white Screen Phones:	
	Menu > Settings > Advanced Settings (default pass	word: admin) > Accounts > 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.	
	String within 256 characters	
Permitted Values	String within 256 characters	
Values	String within 256 characters Blank	
Values Default		
Values Default	Blank	
Values Default Web UI	Blank Account > Register > SIP Server Y > Server Host	counts > Account X > SIP ServerY
Values Default Web UI	Blank Account > Register > SIP Server Y > Server Host Color Screen Phones:	counts > Account X > SIP ServerY
Values Default Web UI Phone UI	Blank Account > Register > SIP Server Y > Server Host <u>Color Screen Phones:</u> Menu > Advanced (default password: admin) > Acc	
Values Default Web UI Phone UI	Blank Account > Register > SIP Server Y > Server Host <u>Color Screen Phones:</u> Menu > Advanced (default password: admin) > Acc <u>Black-and-white Screen Phones:</u>	
Values Default Web UI Phone UI Parameter	Blank Account > Register > SIP Server Y > Server Host <u>Color Screen Phones:</u> Menu > Advanced (default password: admin) > Acc <u>Black-and-white Screen Phones:</u> Menu > Settings > Advanced Settings (default pass account.X.sip_server.Y.port ^{[1][2]} It configures the port of SIP server.	sword: admin) > Accounts > SIP ServerY <mac>.cfg</mac>
Values Default Web UI Phone UI Parameter Description	Blank Account > Register > SIP Server Y > Server Host <u>Color Screen Phones:</u> Menu > Advanced (default password: admin) > Acc <u>Black-and-white Screen Phones:</u> Menu > Settings > Advanced Settings (default pass account.X.sip_server.Y.port ^{[1][2]}	sword: admin) > Accounts > SIP ServerY <mac>.cfg erver.Y.transport_type" is set to 0), the phone uses</mac>
Values Default Web UI Phone UI Parameter Description Permitted	Blank Account > Register > SIP Server Y > Server Host <u>Color Screen Phones:</u> Menu > Advanced (default password: admin) > Acc <u>Black-and-white Screen Phones:</u> Menu > Settings > Advanced Settings (default pass account.X.sip_server.Y.port ^{[1][2]} It configures the port of SIP server. If it is set to 0 when UDP is used ("account.X.sip_se	sword: admin) > Accounts > SIP ServerY <mac>.cfg erver.Y.transport_type" is set to 0), the phone uses</mac>
Values Default Web UI Phone UI Parameter Description Permitted Values	Blank Account > Register > SIP Server Y > Server Host <u>Color Screen Phones:</u> Menu > Advanced (default password: admin) > Acc <u>Black-and-white Screen Phones:</u> Menu > Settings > Advanced Settings (default pass account.X.sip_server.Y.port ^{[1][2]} It configures the port of SIP server. If it is set to 0 when UDP is used ("account.X.sip_se a random port for responding to the messages from	sword: admin) > Accounts > SIP ServerY <mac>.cfg erver.Y.transport_type" is set to 0), the phone uses</mac>
Values Default Web UI Phone UI Parameter Description Permitted Values Default	Blank Account > Register > SIP Server Y > Server Host <u>Color Screen Phones:</u> Menu > Advanced (default password: admin) > Acc <u>Black-and-white Screen Phones:</u> Menu > Settings > Advanced Settings (default pass account.X.sip_server.Y.port ^{[1][2]} It configures the port of SIP server. If it is set to 0 when UDP is used ("account.X.sip_se a random port for responding to the messages from Integer from 0 to 65535	sword: admin) > Accounts > SIP ServerY <mac>.cfg erver.Y.transport_type" is set to 0), the phone uses</mac>

Description	It enables or disables the phone to send requests to the outbound proxy server.		
	0-Disabled		
Values Default	1-Enabled 0		
Web UI	Account > Register > Enable Outbound Proxy Serv	or.	
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Accounts > Outbound Status Black-and-white Screen Phones:		
Phone UI			
	Menu > Settings > Advanced Settings (default pass	word: admin) > Accounts > Outbound Status	
	account.X.outbound_proxy.Y.address ^{[1][2]}	<mac>.cfg</mac>	
	It configures the IP address or domain name of the	outbound proxy server.	
Description	Note: It works only if "account.X.outbound_proxy_e proxy server address, "account.X.sip_server.Y.outb	nable" is set to 1 (Enabled). To use an outbound pound_proxy_enable" should be set to 1 (Enabled).	
Permitted Values	String within 256 characters		
Default	Blank		
Web UI	Account > Register > Outbound Proxy Server Y		
	Color Screen Phones:		
Phone UI	Menu > Advanced (default password: admin) > Acc	counts > Account X > Outbound ProxyY	
	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings (default pass	word: admin) > Accounts > Outbound ProxyY	
Parameter	account.X.outbound_proxy.Y.port ^{[1][2]}	<mac>.cfg</mac>	
Description	It configures the port of the outbound proxy server. Note: It works only if "account.X.outbound_proxy_enable" is set to 1 (Enabled).		
Permitted Values	Integer from 0 to 65535		
Default	5060		
Web UI	Account > Register > Outbound Proxy Server Y > P	ort	
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 Time	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 "accoun- t.X.reg_failed_retry_max_time" are set to 0, the interval configured by "account.X.reg_fail_retry_inter- val" will be used.	
Permitted Values	Integer greater than or equal to 0	
Default	0	
Parameter	ccount.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	

[2]Y is the server ID. Y=1-2.

PSTN Account Configuration

The following table lists the parameters you can use to register the PSTN account.

Parameter	pstn.account.X.enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the PSTN account X.	
Permitted	0-Disabled	
Values	1-Enabled	
Default	1	
Supported Devices	CP920	
Web UI	Account > Register > Line Active	
Phone UI	Menu > Settings > Advanced Settings (default password: admin) > Accounts > Active Line	
Parameter	pstn.account.X.label ^[1] <mac>.cfg</mac>	
Description	(Optional.) It configures the label to be displayed on the LCD screen for PSTN account X.	
Permitted Values	String within 99 characters	
Default	Blank	
Supported Devices	CP920	

Web UI	Account > Register > Label
Phone UI	Menu > Settings > Advanced Settings (default password: admin) > Accounts > Label

[1]X is the PSTN account ID. X= 1 to 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>	
	It enables or disables the phone to add a line number to the SIF	header of the REGISTER message.	
	For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G: 0~1	5 stand for line1~line16;	
	For T53W/T53/T43U/T42U/T42S/T42G: 0~11 stand for line1~lin	e12;	
Description	For T41P/T41S/T27G: 0~5 stand for line1~line6;		
Description	For T33P/T33G: 0~3 stand for line1~line4;		
	For T40P/T40G/T23P/T23G: 0~2 stand for line1~line3;		
	For T31P/T31G/T31/T21(P) E2: 0~1 stand for line1~line2;		
	For T30P/T30/T19(P) E2/CP920: 0 stands for line1.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Account > Advanced > SIP Send Line		
Parameter	account.X.contact_take_line_param ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to carry the line parameter in the sage.	ne Contact header of the Register mes-	
Permitted Values	0-Disabled 1-Enabled		
Default	0		

	account.X.unregister_on_reboot ^[1]	<mac>.cfg</mac>	
-	It enables or disables the phone to unregister first before re-registering account X after a reboot.		
	0-Disabled 1-Enabled		
Default	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 Values	8-Genesys		
	10-Genesys Advanced		
	12-Star2Star		
Default	0		
Web UI	Account > Advanced > SIP Server Type		
Parameter	account.X.gruu.enable ^[1]	<mac>.cfg</mac>	
	t enables or disables the Globally Routable User Agent URI (G	,	
Description	GRUU provides a unique user-agent identifier to a specific user-agent (UA) instance. It is required in which the REFER request must be routed to the correct UA instance, for example, a call transfer.		
	0-Disabled		
	1-Enabled, the phone will add +sip.instance attribute with the patheet the REGISTER message.	ublic GRUU to the Contact header of	
Values	For example:		
	Contact: <sip:1012@10.2.20.160:5060>;+sip.instance="<urn:uuid:5acd54e8-f197-57e2-aa42- 5f4a5d04367c>"</urn:uuid:5acd54e8-f197-57e2-aa42- </sip:1012@10.2.20.160:5060>		
Default	0		
Parameter	sip.reg_surge_prevention ^[2]	<y000000000xx>.cfg</y000000000xx>	
-	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 > Registration Ra	ndom (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.	
	0-Disabled 1-Enabled		
	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	
Default	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>
	It enables or disables the phone to send all SIP requests to the outbound proxy server mandatorily a dialog.	
	Note: It works only if "account.X.outbound_proxy_e	nable" is set to 1 (Enabled).
	0 -Disabled, only the new SIP request messages from the phone will be sent to the outbound proxy server in a dialog.	
	1-Enabled, all the SIP request messages from the p a dialog.	hone will be sent to the outbound proxy server in

Default	0
Web UI	Features > General Information > Use Outbound Proxy 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.

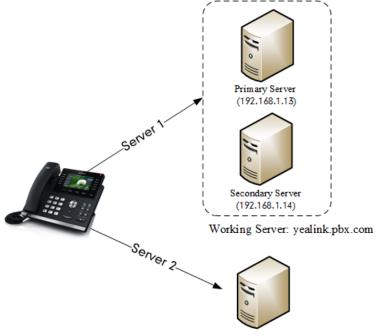
Two types of redundancy are possible. In some cases, a combination of the two may be deployed:

- 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.



Fallback Server: 192.168.1.15

• 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, 192.168.1.14) 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>
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Description	It configures the registration mode in fallback mode		
	Note: It is not applicable to outbound proxy servers.		
Permitted	0-Concurrent registration		
Values	1-Successive registration		
Default	0		
Parameter	account.X.fallback.timeout ^[1] <mac>.cfg</mac>		
Description	It configures the time interval (in seconds) for the pl able by sending the registration request after the fa		
	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		
	Color Screen Phones:		
	Menu > Advanced (default password: admin) > Acc	ounts > Account X > Proxy Fallback Interval	
Phone UI	Black-and-white Screen Phones:		
	Menu > Settings > Advanced Settings > Accounts > Proxy Fallback Interval		
Parameter	account.X.redundancy_with_reg_fail.enable ^[1] <mac>.cfg</mac>		
Description	It enables or disables the phone to send the request to the next server when failing to register an account.		
	Note: It works only if "account.X.fallback.redundancy_type" is set to 1 (Successive registration).		
Permitted Values	 0-Disabled. Only if the working server does not respond, will the IP phone send the request to the next server. 1-Enabled 		
Default	0		
L	1		

Failover Server Redundancy Configuration

The following table lists the parameters you can use to configure failover server redundancy.

		<mac>.cfg</mac>
Description	It enables or disables the phone to send registration requests to the tering a failover.	e secondary server when encoun-
Permitted	0 -Disabled, the phone will not attempt to register to the secondary	server, since the phone assumes

Values	that the primary and secondary servers share registration information. So the phone will directly the requests to the secondary server.	
	1-Enabled, the phone will register to the secondary server first, and 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 serve encountering a failover.	rs with different IP addresses when
Permitted Values	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 ser	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.	
D	The phone moves to the next available server after three failed attempts.	
Permitted Values	Integer from 0 to 20	
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-	
	t.X.sip_server.Y.failback_mode" is set to 1, 2 or 3.	
Permitted Values	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 requests to the next available server 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.	

	0-newRequests: all requests are sent to the primary server first, regused.	pardless of the last server that was	
Permitted	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>	
	It configures the timeout (in seconds) for the phone to retry to send failing over to the current working server.	requests to the primary server after	
Description	If you set the parameter to 0, the phone will not send requests to the event occurs with the current working server.	e primary server until a failover	
	If you set the parameter between 1 and 59, the timeout will be 60 s	econds.	
	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		
Default	3600		
Parameter	account.X.sip_server.Y.failback_subscribe.enable ^{[1][2]}	<mac>.cfg</mac>	
	It enables or disables the phone to retry to re-subscribe after registering to the secondary server with different IP addresses when encountering a failover.		
Description	different IP addresses when encountering a failover.	с ,	
	Note: It works only if "account.X.sip_server.Y.failback_mode" is set		
	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the seconda	to 1, 2 or 3. ary server, for ensuring the normal	
Permitted Values	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the seconda use of the features associated with the subscription (for example, B	to 1, 2 or 3. ary server, for ensuring the normal	
Permitted Values Default	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the seconda use of the features associated with the subscription (for example, B 0	to 1, 2 or 3. ary server, for ensuring the normal BLF, SCA).	
Permitted Values Default	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the seconda use of the features associated with the subscription (for example, B 0 account.X.outbound_proxy.Y.register_on_enable ^{[1][2]}	to 1, 2 or 3. ary server, for ensuring the normal BLF, SCA).	
Permitted Values Default	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the seconda use of the features associated with the subscription (for example, B 0	to 1, 2 or 3. ary server, for ensuring the normal BLF, SCA).	
Permitted Values Default Parameter Description	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the seconda use of the features associated with the subscription (for example, B 0 account.X.outbound_proxy.Y.register_on_enable ^{[1][2]} It enables or disables the phone to register to the secondary outbou	<pre>to 1, 2 or 3. ary server, for ensuring the normal BLF, SCA). </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <!--</td--></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	
Permitted Values Default Parameter Description	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the secondar use of the features associated with the subscription (for example, B 0 account.X.outbound_proxy.Y.register_on_enable ^{[1][2]} It enables or disables the phone to register to the secondary outbour requests to it when encountering a failover. 0-Disabled, the phone will not attempt to register to the secondary of phone assumes that the primary and secondary outbourd proxy secondary outbourd	<pre> to 1, 2 or 3. ary server, for ensuring the normal BLF, SCA). </pre> MAC>.cfg und proxy server before sending outbound proxy server, since the ervers share registration inform- y outbound proxy server.	
Permitted Values Default Parameter Description Permitted	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the secondar use of the features associated with the subscription (for example, B 0 account.X.outbound_proxy.Y.register_on_enable ^{[1][2]} It enables or disables the phone to register to the secondary outbour requests to it when encountering a failover. 0-Disabled, the phone will not attempt to register to the secondary of phone assumes that the primary and secondary outbound proxy sec	to 1, 2 or 3. ary server, for ensuring the normal BLF, SCA). <mac>.cfg und proxy server before sending outbound proxy server, since the ervers share registration inform- y outbound proxy server. y server first, and then send the</mac>	
Permitted Values Default Parameter Description Permitted Values Default	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the secondar use of the features associated with the subscription (for example, B 0 account.X.outbound_proxy.Y.register_on_enable ^{[1][2]} It enables or disables the phone to register to the secondary outbour requests to it when encountering a failover. 0-Disabled, the phone will not attempt to register to the secondary of phone assumes that the primary and secondary outbound proxy se ation. So the phone will directly send the requests to the secondary requests to it.	to 1, 2 or 3. ary server, for ensuring the normal BLF, SCA). <mac>.cfg und proxy server before sending outbound proxy server, since the ervers share registration inform- y outbound proxy server. y server first, and then send the</mac>	
Permitted Values Default Parameter Description Permitted Values Default Parameter	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the secondar use of the features associated with the subscription (for example, B 0 account.X.outbound_proxy.Y.register_on_enable ^{[1][2]} It enables or disables the phone to register to the secondary outbour requests to it when encountering a failover. 0-Disabled, the phone will not attempt to register to the secondary of phone assumes that the primary and secondary outbound proxy se ation. So the phone will directly send the requests to the secondary 1-Enabled, the phone will register to the secondary outbound proxy requests to it.	<pre>to 1, 2 or 3. ary server, for ensuring the normal BLF, SCA). </pre> <pre> AAC>.cfg und proxy server before sending outbound proxy server, since the ervers share registration inform- y outbound proxy server. y server first, and then send the ole" to take effect. </pre> AAC>.cfg the outbound proxy server Y is	
Permitted Values Default Parameter Description Permitted Values Default Parameter Description	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the secondar use of the features associated with the subscription (for example, B 0 account.X.outbound_proxy.Y.register_on_enable ^{[1][2]} It enables or disables the phone to register to the secondary outbour requests to it when encountering a failover. 0-Disabled, the phone will not attempt to register to the secondary outbourd phone assumes that the primary and secondary outbound proxy se ation. So the phone will directly send the requests to the secondary 1-Enabled, the phone will register to the secondary outbound proxy requests to it. -1, the phone will invoke "account.X.sip_server.Y.register_on_enable account.X.outbound_proxy.Y.retry_counts ^{[1][2]} It configures the retry times for the phone to resend requests when	<pre>to 1, 2 or 3. ary server, for ensuring the normal BLF, SCA). </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <p< th=""></p<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	
Permitted Values Default Parameter Description Permitted Values Default Parameter	Note: It works only if "account.X.sip_server.Y.failback_mode" is set 0-Disabled 1-Enabled, the phone will immediately re-subscribe to the secondar use of the features associated with the subscription (for example, B 0 account.X.outbound_proxy.Y.register_on_enable ^{[1][2]} It enables or disables the phone to register to the secondary outbour requests to it when encountering a failover. 0-Disabled, the phone will not attempt to register to the secondary outbour phone assumes that the primary and secondary outbound proxy se ation. So the phone will directly send the requests to the secondary 1-Enabled, the phone will register to the secondary outbound proxy requests to it. -1, the phone will invoke "account.X.sip_server.Y.register_on_enable account.X.outbound_proxy.Y.retry_counts ^{[1][2]} It configures the retry times for the phone to resend requests when unavailable or there is no response from the outbound proxy serve	<pre>to 1, 2 or 3. ary server, for ensuring the normal BLF, SCA). </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pr< th=""></pr<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	

Default	-1, the phone will invoke "account.X.sip_server.Y.retry_counts" to take effect.	
	account.X.outbound_proxy.Y.only_signal_with_registered ^{[1][2]} <mac>.cfg</mac>	
Description	It enables or disables the phone to only send requests to the registered outbound proxy server when encountering a failover. Note : It works only if "account.X.outbound_proxy.Y.register_on_enable" is set to 1 (Enabled) and "account.X.outbound_proxy.Y.failback_mode" is set to 1, 2 or 3.	
	0-Disabled 1-Enabled	
Default	-1, the phone will invoke "account.X.sip_server.Y.only_signal_with	_registered" to take effect.
Parameter	account.X.outbound_proxy.Y.invite_retry_counts ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the number of retries attempted before sending reque proxy server when encountering a failover.	sts to the next available outbound
Permitted Values	Integer from 1 to 10	
Default	-1, the phone will invoke "account.X.sip_server.Y.invite_retry_cour	its" to take effect.
Parameter	account.X.outbound_proxy.Y.failback_mode ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the failback mode for the phone to retry the primary outbound proxy server in failover. Note : DNSTTL, Registration and duration mode can only be processed when the IP phone is idle (that is, no incoming/outbound calls, no active calls or meetings, and so on).	
Permitted Values	 0-newRequests: all requests are sent to the primary outbound proxy server first, regardless of the last server that was used. If the primary outbound proxy server does not respond correctly, the phone will try to send requests to the secondary outbound proxy server. 1-DNSTTL: the phone will send requests to the last registered outbound proxy server first. If the TTL for the DNS A records on the registered outbound proxy server expires, the phone will retry to send requests to the primary outbound proxy server. 2-Registration: the phone will send requests to the last registered outbound proxy server first. If the registration expires, the phone will retry to send requests to the primary outbound proxy server. 3-duration: the phone will send requests to the last registered outbound proxy server first. If the time defined by the parameter "account.X.outbound_proxy.Y.failback_timeout" expires, the phone will retry to send requests to the primary outbound proxy server. 	
	-1, the phone will invoke "account.X.sip_server.Y.failback_mode" to	o take effect.
	account.X.outbound_proxy.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 outbound proxy 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 outbound proxy server until a failover event occurs with the current working server. Note : It works only if "account.X.outbound_proxy.Y.failback_mode" is set to 3 (duration).	
Permitted Values	0, Integer from 60 to 65535	
Default	-1, the phone will invoke "account.X.sip_server.Y.failback_timeout" to take effect.	
Parameter	account.X.outbound_proxy.Y.failback_subscribe.enable ^{[1][2]}	<mac>.cfg</mac>
	It enables or disables the phone to retry to re-subscribe after registering to the secondary outbound proxy server with different IP addresses when encountering a failover.	

	Note: It works only if "account.X.outbound_proxy.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 outbound proxy server, for ensuring the normal use of the features associated with a subscription (for example, BLF, SCA). 	
Default	-1, the phone will invoke "account.X.sip_server.Y.failback_subscribe.enable" to take effect.	
Parameter	account.X.sip_server.Y.outbound_proxy_enable ^{[1][2]}	<mac>.cfg</mac>
-	It enables or disables the phone to use outbound proxy server address configured by "accoun- t.X.outbound_proxy.Y.address". Note : It works only if "account.X.outbound_proxy_enable" is set to 1 (Enabled).	
Permitted	0-Disabled	
Values	1-Enabled	
Default	1	

^[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 itte d	1-TCP	
Permitted Values	2-TLS	
	3 -DNS NAPTR, if no server port is given, the device performs the DNS NAPTR and SRV queries the service type and port.	
Default	0	
Web UI	Account > Register > SIP Server Y > Transport	
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 the
	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 <y00000000xx>.cfg</y00000000xx>	
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] <y00000000xx>.cfg</y00000000xx>	
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.	
	 O-Perform real-time DNS query rather than using DNS cache. 1-Use DNS cache, but do not record the additional records. 2-Use DNS cache and cache the additional DNS records. 	
Permitted Values		
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] <y00000000xx>.cfg</y00000000xx>	
Description	It configures the domain name to which NAPTR record X refers.	
Permitted Values	Domain name	
Default	Blank	
Parameter	dns_cache_naptr.X.order ^[2] <y00000000xx>.cfg</y00000000xx>	
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] <y000000000xx>.cfg</y000000000xx>	
Deserintion	It configures the preference of NAPTR record X.	
Description	NAPTR record with lower preference is more preferred.	
Permitted Values	Integer from 0 to 65535	

Default	0	
Parameter	dns_cache_naptr.X.replace ^[2] <v00000000xx>.cfg</v00000000xx>	
Description	It configures a domain name to be used for the next 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.
	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 NAPTR record X may be cached before the record should be consulted again.	
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] <y00000000xx>.cfg</y00000000xx>	
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] <y00000000xx>.cfg</y00000000xx>	
	It configures the weight of the target host in SRV record X.	
Description	When priorities are equal, weight is used to differer ferred.	ntiate the preference. Higher weight is more pre-
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 in A record X maps to.	
Permitted Values	IP address	
Default	Blank	
Parameter	dns_cache_a.X.ttl ^[2] <y00000000xx>.cfg</y00000000xx>	
Description	It configures the time interval (in seconds) that A record X may be cached before the record should be consulted again.	
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 Note: It works only if "static.network.dns.last_cache	
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 <y000000000xx>.cfg</y000000000xx>	
Description	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.	
	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.

Logon Wizard

Logon wizard allows the phones to provide the logon wizard during the first startup. It works only if there is no registered account on the IP phone.

It is not applicable to CP920 phones.

Topic

Logon Wizard Configuration

Logon Wizard Configuration

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

Parameter	phone_setting.logon_wizard	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to provide the logon wizard after startup when there is no registered account.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Supported Devices	All phones except CP920	
Web UI	Features > General Information > Logon Wizard	
Parameter	hotdesking.startup_register_name_enable <y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to provide an input field of register name on the logon wizard after startup when there is no registered account. Note : It works only if "phone_setting.logon_wizard" is set to 1 (Enabled).	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Supported	All phones except CP920	

Devices		
Parameter	hotdesking.startup_username_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to provide an input field of user name on the logon wizard after star- tup when there is no registered account.	
	Note: It works only if "phone_setting.logon_wizard"	is set to 1 (Enabled).
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Supported Devices	All phones except CP920	
Parameter	hotdesking.startup_password_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to provide an inpu when there is no registered account. Note : It works only if "phone_setting.logon_wizard"	t field of password on the logon wizard after startup
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Supported Devices	All phones except CP920	
Parameter	hotdesking.startup_sip_server_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to provide an input field of SIP server on the logon wizard after star- tup when there is no registered account.	
_	Note: It works only if "phone_setting.logon_wizard"	is set to 1 (Enabled).
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Supported Devices	All phones except CP920	
Parameter	hotdesking.startup_outbound_enable <y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to provide an input field of the outbound server on the logon wizard after startup when there is no registered account.	
	Note: It works only if "phone_setting.logon_wizard" is set to 1 (Enabled).	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Supported Devices	All phones except CP920	
Parameter	phone_setting.logon_wizard_forever_wait	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to remain at the hot desking logon wizard even though timeout.	
Permitted Values	0 -Disabled 1 -Enabled	
Default	0	
Supported	All phones except CP920	

Devices

Multiple Line Keys per Account

You can assign multiple line keys to associate with a specific account. The line keys are automatically assigned with Line type from the first unused one (unused one means the line key is configured as N/A or the associated account is not registered). All calls on this account will be distributed evenly among these line keys. It is useful for managing a high volume of calls to an account.

When you assign multiple line keys to be associated with an account, you can configure the IP phone whether transferring a call or setting up a conference call on the current line key or on a new distribution line key.

It is not applicable to T30P/T30/T19(P) E2/CP920 phones.

Topics

Multiple Line Keys per Account Configuration Auto Line Labels Rule Configuration Default Account

Multiple Line Keys per Account Configuration

The following table lists the parameters you can use to configure multiple line keys per account.

Parameter	features.auto_linekeys.enable	<y000000000xx>.cfg</y000000000xx>	
Description	t enables or disables to assign multiple line keys to associate with a specific account.		
Description	Note: The number of the line keys is determined by "account.X.number_of_linekey".		
	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Features > General Information > Auto Linekeys		
Parameter	account.X.number_of_linekey ^[1]	<mac>.cfg</mac>	
Description	It configures the number of line keys to be assigned with a specific account from the first unused one		
Description	If a line key is in used, the phone will skip to the next unused DSS key.		
Permitted	Integer from 1 to 999		
Values	The number of the line keys varies by phone models, for the supported line keys, refer to Supported DSS Keys.		
Default	1		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Account > Advanced > Number of Line Key		
Parameter	phone_setting.call_appearance.transfer_via_new_linekey	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables to distribute a transferring call to a new line key (the new line key is not seized).		
	If all line keys are seized, the current line key will be used.		
	Note : The number of the line keys is determined by "account.X.number_of_linekey". The value con- figured by the parameter "account.X.phone_setting.call_appearance.transfer_via_new_linekey" takes precedence over that configured by this parameter.		

Permitted Values	 0-Disabled, the phone will transfer a call on the current line key. 1-Enabled 			
Default	1			
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920			
	account.X.phone_setting.call_appearance.transfer_via_new_ linekey ^[1]	<mac>.cfg</mac>		
	It enables or disables to distribute a transferring call to a new line key for account X.	(the new line key is not seized)		
Description	If all line keys are seized, the current line key will be used.			
	Note : The number of the line keys is determined by "account.X.numb figured by this parameter takes precedence over that configured by th ting.call_appearance.transfer_via_new_linekey".	-		
	0-Disabled, the phone will transfer a call on the current line key.1-Enabled			
Default	Blank			
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920			
Parameter	phone_setting.call_appearance.conference_via_new_linekey <y000000000xx>.cfg</y000000000xx>			
	It enables or disables to distribute a conference call to a new line key	(the new line key is not seized).		
	If all line keys are seized, the current line key will be used.			
	Note : The number of the line keys is determined by "account.X.number_of_linekey". The value con- figured by the parameter "account.X.phone_setting.call_appearance.conference_via_new_linekey" takes precedence over that configured by this parameter.			
	0-Disabled, the phone will place a new call using the current line key when pressing the Conf/Con-			
Permitted Values	ference soft key. 1-Enabled, the phone will place a new call by automatically selecting a new line key (the cor- responding line key is not seized) when pressing the Conf/Conference soft key. If all line keys are seized, the current line key will be used.			
Default	1			
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920			
	account.X.phone_setting.call_appearance.conference_via_new_ linekey ^[1] <mac>.cfg</mac>			
	It enables or disables to distribute a conference call to a new line key (the new line key is not seized) for account X.			
Description	If all line keys are seized, the current line key will be used.			
	Note : The number of the line keys is determined by "account.X.number_of_linekey". The value con- figured by this parameter takes precedence over that configured by the parameter "phone_set- ting.call_appearance.conference_via_new_linekey".			
Permitted	0-Disabled, the phone will place a new call using the current line key ference soft key.	when pressing the Conf/Con-		
Values	1-Enabled, the phone will place a new call by automatically selecting	a new line key (the cor-		

	responding line key is not seized) when pressing the Conf/Conference soft key. If all line keys are seized, the current line key will be used.
Default	Blank
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920

Auto Line Labels Rule Configuration

When assigning multiple line keys per account, these automatically assigned line keys use its Account Label (set by "account.X.label") as default label to display on the screen. In order to distinguish these automatically assigned line keys, you can customize the line key labels one by one or configure the auto line labels rule for these line keys.

The following table lists the parameters you can use to configure the auto line labels rule.

Parameter	account.X.auto_label.enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the Auto Label feature. It is only applicable to the automatically assigned line DSS keys.		
	Note: It works only if "features.auto_linekeys.enable" is set to 1 (Enabled).		
Permitted	0 -Disabled, the line keys labels are determined by	"account.X.label".	
	1-Enabled, the line keys labels are determined by the custom label rule (configure by the parameter "accout.X.auto_label.rule").		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	account.X.auto_label.rule ^[1] <mac>.cfg</mac>		
	It configures the Auto Label rule.		
	You need to know the following basic regular expression syntax:		
	{L}: The value is configured by the parameter "account.X.label".		
	{N} : An increasing number from N. For example, abc{1}{5} represents the following labels: abc15, abc26, abc37, and so on.		
-	Multiple labels are separated by " ". For example, Yea Yea Yea Tom_{2} means to display "Yea" for first three line keys, and from the fourth one, display label Tom_2, Tom_3, and so on in turn.		
	Other Characters: for example, ABC, will display ABC the same as what you have configured.		
	Note: It works only if "features.auto_linekeys.enable" and "account.X.auto_label.enable" are set to 1 (Enabled). The number of valid labels is configured by the parameter "account.X.number_of_linekey"		
Permitted Values	String		
Default	{L}_{1}		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42U/T42G/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2.

Default Account

If there are multiple accounts registered on the phone, the phone will use the default account to dial out by default.

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

It configures the default account. I-Account 1 2-Account 2 3-Account 3 16-Account 16 101-PSTN 1 Description 102-PSTN 2 For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, accounts 1-16. For T53W/T53/T43U/T42U/T42S/T42G, accounts 1-12. For T41P/T41S/T27G, accounts 1-6. For T33P/T33G, accounts 1-6. For T33P/T33G, accounts 1-6. For T33P/T33G, accounts 1-7. For T40P/T40Q/T23P/T23G, accounts 1-3. For T40P/T40Q/T23P/T23G, accounts 1-2. For CP920: account 1, PSTN 1 and PSTN 2. Permitted Values All phones except T30P/T30/T19(P) E2 Parameter features.show_default_account	Parameter	static.features.default_account	<y000000000xx>.cfg</y000000000xx>	
1-Account 1 2-Account 2 3-Account 3 16-Account 16 101-PSTN 1 Description 102-PSTN 2 For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, accounts 1-16. For T57W/T54W/T48U/T48S/T42G, accounts 1-12. For T53W/T53/T43U/T42U/T42S/T42G, accounts 1-12. For T41P/T41S/T27G, accounts 1-6. For T33P/T33G, accounts 1-6. For T40P/T40G/T23P/T23G, accounts 1-3. For T40P/T40G/T23P/T23G, accounts 1-3. For T40P/T40G/T23P/T23G, accounts 1-2. For CP920: account 1, PSTN 1 and PSTN 2. Permitted Netger from 1 to 16, 101, 102 Default 1 Supported All phones except T30P/T30/T19(P) E2 Perameter features.show_default_account ey00000000xx>.cfg It enables or disables the phone to display the label of the default account in the left of the status bar on the idle screen. Description Note: For T43U/T42G/T42S/T42U/T41P/T41S/T27 phones, the label of the default account is displayed in the middle bottom of the idle screen. It works only if "features.station_name.value" is left blank. Permitted 0-Disabled			,	
3-Account 3 16-Account 16 101-PSTN 1 102-PSTN 2 For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, accounts 1-16. For T57W/T54W/T48U/T42S/T42G, accounts 1-12. For T57W/T53/H3U/T42U/T42S/T42G, accounts 1-12. For T57W/T53G, accounts 1-6. For T33P/T33G, accounts 1-6. For T31P/T31G/T31/T21(P) E2, accounts 1-3. For T40P/T40G/T23P/T23G, accounts 1-3. For T31P/T31G/T31/T21(P) E2, accounts 1-2. For CP920: account 1, PSTN 1 and PSTN 2. Permitted Integer from 1 to 16, 101, 102 Default Supported All phones except T30P/T30/T19(P) E2 Parameter features.show_default_account explored vy0000000xx>.cfg Permitted thenables or disables the phone to display the label of the default account in the left of the status bar on the idle screen. Description Rote: For T43U/T42G/T42S/T42U/T41P/T41S/T27U brones, the label of the default account is displayed in the middle bottom of the idle screen. Permitted Note: For T43U/T42G/T42S/T42U/T41P/T41S/T27U brones, the label of the default account is displayed in the middle bottom of the idle screen.		-		
3-Account 3 16-Account 16 101-PSTN 1 102-PSTN 2 For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, accounts 1-16. For T57W/T54W/T48U/T42S/T42G, accounts 1-12. For T57W/T53/H3U/T42U/T42S/T42G, accounts 1-12. For T57W/T53G, accounts 1-6. For T33P/T33G, accounts 1-6. For T31P/T31G/T31/T21(P) E2, accounts 1-3. For T40P/T40G/T23P/T23G, accounts 1-3. For T31P/T31G/T31/T21(P) E2, accounts 1-2. For CP920: account 1, PSTN 1 and PSTN 2. Permitted Integer from 1 to 16, 101, 102 Default Supported All phones except T30P/T30/T19(P) E2 Parameter features.show_default_account explored vy0000000xx>.cfg Permitted thenables or disables the phone to display the label of the default account in the left of the status bar on the idle screen. Description Rote: For T43U/T42G/T42S/T42U/T41P/T41S/T27U brones, the label of the default account is displayed in the middle bottom of the idle screen. Permitted Note: For T43U/T42G/T42S/T42U/T41P/T41S/T27U brones, the label of the default account is displayed in the middle bottom of the idle screen.		2-Account 2		
101-PSTN 1 Description 102-PSTN 2 For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, accounts 1-16. For T53W/T53/T43U/T42V/T42S/T42G, accounts 1-12. For T53W/T53/T43U/T42V/T42S/T42G, accounts 1-12. For T41P/T41S/T27G, accounts 1-6. For T33P/T33G, accounts 1-4. For T40P/T40G/T23P/T23G, accounts 1-3. For T31P/T31G/T31/T21(P) E2, accounts 1-2. For CP920: account 1, PSTN 1 and PSTN 2. Permitted Integer from 1 to 16, 101, 102 Default 1 Supported Devices All phones except T30P/T30/T19(P) E2 Parameter features.show_default_account vip00000000xx>.cfg It enables or disables the phone to display the label of the default account in the left of the status bar on the idle screen. Description Note: For T43U/T42G/T42S/T42U/T41P/T41S/T27G phones, the label of the default account is displayed in the middle bottom of the idle screen. It works only if "features.station_name.value" is left blank. Permitted 0-Disabled				
101-PSTN 1 Description 102-PSTN 2 For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, accounts 1-16. For T53W/T53/T43U/T42V/T42S/T42G, accounts 1-12. For T53W/T53/T43U/T42V/T42S/T42G, accounts 1-12. For T41P/T41S/T27G, accounts 1-6. For T33P/T33G, accounts 1-4. For T40P/T40G/T23P/T23G, accounts 1-3. For T31P/T31G/T31/T21(P) E2, accounts 1-2. For CP920: account 1, PSTN 1 and PSTN 2. Permitted Integer from 1 to 16, 101, 102 Default 1 Supported Devices All phones except T30P/T30/T19(P) E2 Parameter features.show_default_account vip00000000xx>.cfg It enables or disables the phone to display the label of the default account in the left of the status bar on the idle screen. Description Note: For T43U/T42G/T42S/T42U/T41P/T41S/T27G phones, the label of the default account is displayed in the middle bottom of the idle screen. It works only if "features.station_name.value" is left blank. Permitted 0-Disabled				
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For T53W/T53/T43U/T42U/T42S/T42G, accounts 1-12. For T41P/T41S/T27G, accounts 1-6. For T33P/T33G, accounts 1-4. For T40P/T40G/T23P/T23G, accounts 1-3. For T31P/T31G/T31/T21(P) E2, accounts 1-2. For CP920: account 1, PSTN 1 and PSTN 2. Permitted Nteger from 1 to 16, 101, 102 Default 1 Supported All phones except T30P/T30/T19(P) E2 Parameter features.show_default_account vj0000000xx>.cfg It enables or disables the phone to display the label of the default account in the left of the status bar on the idle screen. Note: For T43U/T42G/T42S/T42U/T41P/T41S/T27G phones, the label of the default account is displayed in the middle bottom of the idle screen. It works only if "features.station_name.value" is left blank.			G/T29G, accounts 1-16.	
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For T31P/T31G/T31/T21(P) E2, accounts 1-2. For CP920: account 1, PSTN 1 and PSTN 2. Permitted Values Integer from 1 to 16, 101, 102 Default 1 Supported Devices All phones except T30P/T30/T19(P) E2 Parameter features.show_default_account volues volues or disables the phone to display the labe of the default account in the left of the status bar on the idle screen. Description Note: For T43U/T42G/T42S/T42U/T41P/T41S/T27 phones, the label of the default account is dis- played in the middle bottom of the idle screen. It works only if "features.station_name.value" is left Permitted 0-Disabled		For T33P/T33G, accounts 1-4.		
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Description on the idle screen. Note: For T43U/T42G/T42S/T42U/T41P/T41S/T27G phones, the label of the default account is displayed in the middle bottom of the idle screen. It works only if "features.station_name.value" is left blank. Permitted 0-Disabled	Parameter	features.show_default_account <y00000000xx>.cfg</y00000000xx>		
played in the middle bottom of the idle screen. It works only if "features.station_name.value" is left blank. Permitted 0-Disabled				
	Description	played in the middle bottom of the idle screen. It wo	a phones, the label of the default account is dis- orks only if "features.station_name.value" is left	
		0-Disabled		
	Values Default	1-Enabled		
	Parameter			
Description For example, the account on line 2 is not the default account, if this feature is enabled, when pressing the line key 2 to dial, the default account will switch to the account on line 2.	Description	It enables or disables the phone to switch the default account when pressing the line key to dial. For example, the account on line 2 is not the default account, if this feature is enabled, when pressing the line key 2 to dial, the default account will switch to the account on line 2		
Permitted 0-Disabled Values 1-Enabled		the line key 2 to dial, the default account will switch	to the account on line 2.	

Default	0
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920

Directory

The Yealink IP phone provides several types of phone directories.

Topics

Local Directory Local Contacts Backup Favorite Contacts Google Contacts Lightweight Directory Access Protocol (LDAP) Remote Phone Book Directory List for Directory/Dir Soft Key Directory Search Settings Number Matching Settings

Note: When you add a phone number to a contact in the local directory, LDAP, Remote phone book or XML phone book, you can use the EDK macros strings. For more information on EDK macros, refer to Enhanced DSS Keys. For more information on XML phone book, refer to XML Browser Developer's Guide for Yealink IP Phones.

Local Directory

Yealink phones maintain a local directory that you can use to store contacts. The local directory can store up to 1000 contacts and 48 groups (47 groups for CP920 phones).

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

Contact Avatars and Icons Picture Limit Preparing the Tar Formatted File Local Contact File Customization Local Contact Files and Resource Upload Example: Adding Contacts Using a Contact File

Contact Avatars and Icons Picture Limit

For color screen phones, you can customize the contact avatar. You can also customize a contact icon for T57W/T48U/T48S/T48G phones.

The contact avatar format must meet the following:

Phone Model	Format	Resolution	Single File Size
T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G	*.jpg/*.png/*.bmp/*.jpeg	<=110*110	<=5MB

The contact icon format must meet the following:

Phone Model	Format	Resolution
T57W/T48U/T48S/T48G	*.jpg/*.png/*.bmp/*.jpeg	<=41*41

Preparing the Tar Formatted File

This section provides you on how to package the tar file using 7-Zip.

Note: You can package the tar formatted file using the tool 7-Zip or GnuWin32. You can download 7-Zip online: http://www.7-zip.org/ and GnuWin32 online: http://gnuwin32.sourceforge.net/packages/gtar.htm. The procedure may be different if you package the tar formatted file using other software that is not listed above.

Procedure

- 1. Download and install 7-Zip on the local system.
- 2. Create a folder (for example, photo) on the local system (for example, C:\Program Files) and place the file that will be compressed (for example, cutom1.jpg, cutom2.png) to this folder.
- 3. Start the 7-Zip file manager application (7zFM.exe).
- 4. Locate the photo folder from the local system (C:\Program Files\photo\).

ZZ C:	: Progran	ı Files	\photo	١								
File	Edit View	Favor	rites To	ols He	lp							
Add		❤ Test	вф Сору	➡ Move	X Delete	<mark>1</mark> Info						
ø	🚞 C:\Pro	gram Fil	es\photo	۱.								*
Nam	e			Size	Modified		Created	Accessed	Attributes	Packed Size	Comment	
De	utom1.jpg		1 76	57 223	2011-04-	07 15:27	2015-01-30 17:31	2015-01-30 17:31	A	1 767 223		
2 a	utom2.png			4 335	2011-01-	14 10:31	2015-01-30 17:31	2015-01-30 17:31	Α	4 335		
0 obje	ct(s) selecte	ed										

- 5. Select the desired photos that will be compressed.
- 6. Click the Add button.
- 7. Select tar from the Archive format drop-down menu.

Add to Archive		Σ
Archive:	e name of TAR file will be g lly. If not, you can edit it as	
photo.tar	5 - 55 	······································
Archive format:	tar 🗸 🗸 🗸	Update mode:
Compression level:	Store	Add and replace files 🛛 🗸
compression rever.	stole	Options
Compression method:	~	Create SFX archive
Dictionary size:	~	Compress shared files
Word size:	~	Encryption
Solid Block size:	×	Enter password:
Number of CPU threads:	21	Reenter password:
Memory usage for Compressing	а: 1 MB	
Memory usage for Decompress	sing: 1 MB	Show Password
Split to volumes, bytes:		Encryption method:
	~	
Parameters:		
	_	
	L	OK Cancel Help

8. Click the OK button.

A photo.tar file is generated in the directory C:\Program Files\photo.

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

XML Conversion Table Local Contact File Elements and Attributes Customizing Local Contact File

XML Conversion Table

XML provides escape facilities for including characters which are problematic to include directly. For example, the characters "<" and "&" are key syntax markers and may never appear in the content. XML has five predefined entities.

The XML conversion table is shown as below:

Character	Name	Escape Sequence
&	Ampersand	&
"	Quote	"
í	Apostrophe	'
<	Left angle bracket	<
>	Right angle bracket	>

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
	display_name	Specify the group name.
	display_name	For example All Contacts, Blacklist or Friend
		Specify a ringtone for the group.
		System ring tone:
		Auto
group		Silent.wav
	ring	Splash.wav
		RingN.wav (integer N ranges from 1 to 8)
		Custom ring tone:
		Name.wav (the custom ring tone should be uploaded in advance)
		Specify the contact name.
		For example Jim
Contact	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.

Elements	Attributes	Description
		Error: display_name="Hurrell "&" Mclean"
		Correct 1: display_name="Hurrell & Mclean"
		Correct 2: display_name="Hurrell <mark>&</mark> Mclean"
		Note: The contact name cannot be blank.
	office_number	Specify the office number or macro EDK Macro Strings.
	mobile_number	Specify the mobile number or macro EDK Macro Strings.
	other_number	Specify the other number or macro EDK Macro Strings.
		Specify a registered line for this contact for calling.
		Valid Values: -1~15;
		-1 stands for Auto (the first registered line);
	line	0~15 stand for line1~line16.
		vary by phone models: T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G: 0~15; T53W/T53/T43U/T42U/T42S/T42G: 0~11; T41P/T41S/T27G: 0~5; T33P/T33G: 0~3; T40P/T40G/T23P/T23G: 0~2; T31P/T31G/T31/T21(P) E2: 0~1
		Note: This is not applicable to T30P/T30/T19(P) E2/CP920 phones.
		Specify a ringtone for this contact.
		System ring tone:
		Auto
		Silent.wav
	ring	Splash.wav
		RingN.wav (integer N ranges from 1 to 8)
		Custom ring tone:
		XX.wav (for example, Music.wav, the custom ring tone should be uploaded in advance)
		Specify which group the contact adds to.
		Built-in group:
	group_id_name	All Contacts, Blacklist
		Custom group:
		XXX (for example, Friend) Built-in avatar:
	dofault shate	Resource: avatar name
	default_photo	Custom avatar:
		Config: custom avatar name
	auta divart	Note: It is only applicable to color screen phones.
	auto_divert	Specify a destination number for diverted calls.

Related Topics

Example: Using EDK Macro Strings as the Contact Number XML Conversion Table

Customizing Local Contact File

- 1. Open the local contact file.
- 2. To add a group, add <group display_name="" ring=""/ > to the file. Each starts on a new line.
- 3. To add a contact, add <contact display_name="" office_number="" mobile_number="" other_number="" line="" ring="" group_id_name="" default_photo="" auto_divert = ""/ > to the file. Each starts on a new line.
- 4. Specify the values within double quotes.

For example:

<group display_name="Friend" ring="Splash.wav"/>

<contact display_name="Lily"office_number="1020" mobile_number="1021" other_number="1112" line="1" ring="Ring1.wav" group_id_name="Friend" default_photo="Lily_photo.jpg" auto_divert = "2022"/ > <contact display_name="Tom" office_number="2020" mobile_number="2021" other_number="2112" line="2" ring="Ring1.wav" group_id_name="Friend" default_photo=" Resource:icon_family_b.png" auto_divert = "2023" />

5. 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 or upload the contact resource, such as contact avatar and icon pictures.

The following table lists the parameters you can use to upload the local contact files and resource.

Parameter	local_contact.data.url	<y000000000xx>.cfg</y000000000xx>			
	It configures the access URL of the local contact file (*.xml).				
	Example:				
Description	local_contact.data.url = http://192.168.10.25/contact.xml				
	Note : If "static.auto_provision.local_contact.backup.enable" is set to 1 (Enabled), the contacts in the contact file "contact.xml" downloaded from the provisioning server do not take effect.				
Permitted Values	URL within 511 characters				
Default	Blank				
Web UI	Directory > Local Directory > Import				
Parameter	local_contact.data.delete	<y000000000xx>.cfg</y000000000xx>			
	It deletes all local contacts.				
Description	Description Example:				
	local_contact.data.delete = http://localhost/all				
Permitted Values	String				
Default	Blank				
Parameter	local_contact.photo.url	<y0000000000xx>.cfg</y0000000000xx>			
	It configures the access URL of a contact avatar file.				
Description	The format of the contact avatar must be *.png, *.jpg, *.bmp, *.jpeg.				
Description	The contact avatar file should be uploaded to the provisioning server in advance.				
	Example:				

	local_contact.photo.url = tftp://192.168.10.25/Photo.jpg			
Permitted Values	URL within 511 characters			
Default	Blank			
Supported Devices	All color screen phones (except T33P/T33G)			
Parameter	local_contact.icon_image.url	<y0000000000xx>.cfg</y0000000000xx>		
	It configures the access URL of a contact icon file.			
	The format of the contact icon must be *.png, *.jpg, *.bmp, *.jpeg.			
Description	The contact icon file should be uploaded to the provisioning server i	n advance.		
	Example:			
	local_contact.icon_image.url = tftp://192.168.10.25/Photo.jpg			
Permitted Values	URL within 511 characters			
Default	Blank			
Supported Devices	T57W, T48U, T48S, T48G			
Parameter	local_contact.image.url	<y000000000xx>.cfg</y000000000xx>		
	It configures the access URL of a TAR contact avatar file.			
	The format of the contact avatar must be *.png, *.jpg, *.bmp, *.jpeg.			
Description	The contact avatar file should be compressed as a TAR file in advance and then place it to the pro- visioning server.			
	Example:			
	local_contact.image.url = tftp://192.168.10.25/photo.tar			
Permitted Values	URL within 511 characters			
	ORL WITHIN STT Characters			
Default	Blank			
Supported				
Supported Devices	Blank	<y000000000xx>.cfg</y000000000xx>		
Supported Devices	Blank All color screen phones (except T33P/T33G)			
Supported Devices Parameter	Blank All color screen phones (except T33P/T33G) local_contact.data_photo_tar.url It configures the access URL of the compressed TAR file consisting	of the avatars TAR file and contact		
Supported Devices Parameter	Blank All color screen phones (except T33P/T33G) local_contact.data_photo_tar.url It configures the access URL of the compressed TAR file consisting XML file. All avatars needed for contacts should be compressed as a TAR file	of the avatars TAR file and contact		
Supported Devices Parameter	Blank All color screen phones (except T33P/T33G) local_contact.data_photo_tar.url It configures the access URL of the compressed TAR file consisting XML file. All avatars needed for contacts should be compressed as a TAR file	of the avatars TAR file and contact		
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Supported Devices Parameter Description Permitted Values Default	Blank All color screen phones (except T33P/T33G) local_contact.data_photo_tar.url It configures the access URL of the compressed TAR file consisting XML file. All avatars needed for contacts should be compressed as a TAR file Example: local_contact.data_photo_tar.url = tftp://192.168.10.25/Contact.tar Note: The name of the avatars TAR file must be photo.tar (case-sen: tact XML file must be ContactData.xml (case-sensitive). URL within 511 characters	of the avatars TAR file and contact in advance.		

Devices					
Parameter	r local_contact.icon.url <y00000000xx>.cfg</y00000000xx>				
	It configures the access URL of a TAR contact icon file.				
	The format of the contact icon must be *.png, *.jpg, *.bmp.				
Description	The contact icon file should be compressed as a TAR file in advance and then place it to the pro- visioning server.				
	Example:				
	local_contact.icon.url = tftp://192.168.10.25/photo2.tar				
Permitted Values	URL within 511 characters				
Default	efault Blank				
Supported Devices	T57W, T48U, T48S, T48G				

Example: Adding Contacts Using a Contact File

The following example shows the configuration for customizing a local contact file.

Customize the contact file "contact.xml" and place the contact file "contact.xml" and custom contact source (avatars or icons) to the provisioning server "http://192.168.10.25".

Example

local_contact.photo.url = http://192.168.10.25/Lily_photo.jpg

local_contact.data.url = tftp://192.168.10.25/contact.xml

During auto provisioning, the phone connects to the provisioning server "192.168.10.25", and downloads the local contact file "contact.xml" and an avatar "Lily_photo.jpg". You can view the contacts on their phone, and specify the avatar "Lily_photo.jpg" for a contact.

On T57W/T48U/T48S/T48G phones, when uploading a contact avatar, you can also upload a contact icon named the same as this avatar, since a one-to-one correspondence between the icon and avatar. For example, an icon file and avatar file both named "Lily_photo.jpg" are available on the phone, the contact with specified default_pho-to="Lily_photo.jpg" will use the corresponding name "Lily_photo.jpg" as directory icon and avatar display.

The following shows the custom contact Lily with corresponding avatar and icon display:



Note: If you have configured to back up the local contacts to the server, the phone will download the contact file "<MAC>-contact.xml" from the backup path from the server and display the downloaded contacts in the local directory list. The contacts in the local contact file "contact.xml" downloaded from the provisioning server do not take effect.

Local Contacts Backup

Yealink phones support storing all local contacts to a contact file named <MAC>-contact.xml. You can back up this file to the server, avoiding data loss. Once the contacts update, the phone will automatically upload this file to the provisioning server or a specific server. If a contact file exists on the server, this file will be overridden. The phone will request to download the <MAC>-contact.xml file according to its MAC address from the server during auto provisioning.

The contact file 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 contact file is 00156574B150-contact.xml (uppercase).

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 phone.

Parameter static.auto_provision.local_contact.backup.enable <v000000000xx>.cfg It enables or disables the phone to upload the <MAC>-contact.xml file to the server each time the con-Description tacts update and download the <MAC>-contact.xml file from the server during auto provisioning. Note: It does not affect the downloading of the contact avatar/icon files. 0-Disabled, the phone will not upload the contact file "<MAC>-contact.xml" to the server, so the IP phone downloads the contacts in the "contact.xml" from the access URL configured by the parameter "local_contact.data.url" or "local_contact.data_photo_tar.url" during auto provisioning. Permitted 1-Enabled, the phone uploads the contact file "<MAC>-contact.xml" to the specific path configured by Values the parameter "static.auto provision.local contact.backup.path" each time the contacts update; and downloads the contacts in the "<MAC>-contact.xml" according to its MAC address from the specific path during auto provisioning. Default <v000000000xx>.cfg Parameter static.auto_provision.local_contact.backup.path It configures a path or URL for the phone to upload/download the <MAC>-contact.xml file. If it is left blank, the phone connects to the provisioning server URL, and uploads/downloads the contact file "<MAC>-contact.xml". Example: static.auto_provision.local_contact.backup.path = http://192.168.1.20/contact Description Once the contacts update, the phone will upload the contact file to the specified path "http://192.168.1.20/contact". During auto provisioning, the phone downloads the contact file "<MAC>-contact.xml" from the specified path "http://192.168.1.20/contact". Note: It works only if "static.auto_provision.local_contact.backup.enable" is set to 1 (Enabled). Permitted String Values Default Blank Parameter static.auto_provision.custom.upload_method <y000000000xx>.cfg It configures the way the phone uploads the <MAC>-local.cfg file, <MAC>-calllog.xml file or <MAC>-Description contact.xml file to the provisioning server (for HTTP/HTTPS server only). 0-PUT Permitted Values 1-POST

The following table lists the parameters you can use to back up the local contacts.

Default

Favorite Contacts

0

You can enable the user to mark local contacts as favorites. The favorite contacts are stored in the Favorites directory and the phone will automatically assign Speed Dial keys for these favorite contacts.

The following figures show that you have three favorite contacts:

In the Favorites directory:

	Favorites		1/3
🤽 John	3	1	
🔔 Mily	44	4	
🤽 David	22	33	
Back	Opt	ion Se	end

On the idle screen:

<u>क</u> 44917		11:3	33 Tue, Feb 06
<u>6</u> 44917			
罪 John			
👯 Mily			🕤 logout
David			S config
History	Login	DND	More

Topic

Favorites Configuration

Favorites Configuration

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

Parameter	local_contact.favorite.enable	<y000000000xx>.cfg</y000000000xx>		
Description	n It enables or disables the Favorites feature.			
Permitted Values	 0-Disabled 1-Enabled, the phone automatically assigns Speed 	Dial kevs for favorite contacts.		
Default	0 (1 for CP920)			
Parameter	local.dsskey_type_config.mode	<y000000000xx>.cfg</y000000000xx>		
Description	It configures which screen to enter by long pressing the line key or ext key. Description Note: It works only if "local_contact.favorite.enable" is set to 1 (Enabled).			
Permitted	0-Enter the line key/ext key configuration screen			

Values	1-Enter the Add Contact screen			
Default	0			
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920			
Parameter	phone_setting.favorite_sequence_type <y00000000xx>.cfg</y00000000xx>			
Description	It configures the order of Speed Dial (Favorite) keys to be assigned automatically. Note : It works only if "local_contact.favorite.enable" is set to 1 (Enabled). To assign Ext key, make sure the expansion module has been connected to the phone in advance.			
Permitted Values	 0 - linekey > exp1 key > > expN key 1 - exp1 key > > expN key > linekey 2 - linekey page1 > page1 from exp1 to expN > page2 from exp1 to expN > > linekey from page2 to page3 3-page1 from exp1 to expN > page2 from exp1 to expN > > linekey Note: N is the number of your connected expansion modules. 			
Default	0			
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T29G, T27G			

Google Contacts

Google contact is a phone book that is stored on the Google Contact Server. You can sign in to the Google Contact Server on your phone, and then the phone can establish a connection with the Google Contact Server and download the phone book. As a result, Google contacts appear in the phone directory.

It is not applicable to T48G/T46G/T42G/T41P/T29G phones.

Topics

Google Contacts Configuration Signing in to the Google Contact Server

Google Contacts Configuration

The following table lists the parameter that the phone can use to connect to the Google Contact Server.

Parameter	google_contact_server.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to connect to the Goo	gle Contact Server.
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	à
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:	
Web UI	Directory > Google Contacts > Google Contacts	
	Other Phones:	

	Directory > Google Contacts > Google Contact Server		
Parameter	google_contact_server.display_mode <y00000000xx>.cfg</y00000000xx>		
Description	It configures the display mode of the Google contacts.		
Description	Note: It works only if "google_contact_server.enable" is set to 1 (Enabled).		
Permitted	0-All downloaded Google contacts will be displayed on the phone.		
Values	1-Only the Google contacts whose number fields are r	not empty will be displayed on the phone.	
Default	1		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	à	

Signing in to the Google Contact Server

After you allow the IP phone to connect to the Google Contact Server, you can sign in to the Google Contact Server via the web user interface, so that the Google contacts will appear in the phone directory.

Procedure

- 1. On your web user interface, select Directory > Google Contacts.
- 2. In the Authentication field, click Sign In.

A pop-up window and a code are displayed.

- 3. Enter the code generated on the web user interface into the pop-up window.
- 4. Enter your email address and password.
- 5. Allow contact test to access your Google account.

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 Securely Storing the LDAP Credentials 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

Abbreviation	Name	Description
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

Securely Storing the LDAP Credentials

You can enable the IP phone to securely store the LDAP user credentials when Broadsoft Flexible Seating feature is enabled. When the user logs into the guest profile next time, he/she can access the LDAP directory directly instead of entering the LDAP user credentials again.

The IP phone can store up to 100 LDAP user credentials. If the number of user credentials reaches 100, the user who has the longest inactivity period is removed from the phone when any additional user is added.

The LDAP user credentials persist after the phone reboots.

Related Topic

Broadsoft Flexible Seating

LDAP Configuration

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

Parameter	ldap.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the LDAP feature.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Web UI	Directory > LDAP > LDAP Enable	
Parameter	Idap.search_type	<y000000000xx>.cfg</y000000000xx>
Description	It configures the search type for LDAP contact look	up.
	 0-Prefix matching, the phone will search the LDAP character(s). 1-Approximate string matching, the phone will sear the entered character(s). 	
Default	0	
Supported Devices	All phones except CP920	
Parameter	ldap.name_filter	<y000000000xx>.cfg</y000000000xx>
Description	It configures the search criteria for LDAP contact na The "*" symbol in the filter stands for any character. entered by the user.	

	Example:	
	ldap.name_filter = ((cn=%)(sn=%))	
	When the cn or sn of the LDAP contact matches the phone screen.	e entered name, the record will be displayed on the
	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 99 characters	
Default	Blank	
Web UI	Directory > LDAP > LDAP Name Filter	
Parameter	ldap.number_filter	<y000000000xx>.cfg</y000000000xx>
	It configures the search criteria for LDAP contact nu	umbers lookup.
	The "*" symbol in the filter stands for any number. T entered by the user.	he "%" symbol in the filter stands for the number
	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=*)(mobi	le=%))
	When the telephoneNumber of the LDAP contact is the entered number, the record will be displayed o	
Permitted Values	String within 99 characters	
Default	Blank	
Web UI	Directory > LDAP > LDAP Number Filter	
Parameter	Idap.tls_mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures the connection mode between the LD.	AP server and the phone.
	0-LDAP—The unencrypted connection between the LDAP server and the IP phone (port 389 is used by default).	
	d 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 L	DAP server and the IP phone (port 636 is used by
	default).	
Default	default).	

Description	It configures the IP address or domain name of the	LDAP server.	
Permitted Values	IP address or domain name		
Default	Blank		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Directory > LDAP > LDAP Server Address		
Web OI	Other Phones:		
	Directory > 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 > Port		
Parameter	ldap.base	<y000000000xx>.cfg</y000000000xx>	
	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.		
Description	Example:		
	ldap.base = dc=yealink,dc=cn		
Permitted Values	String within 99 characters		
Default	Blank		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Directory > LDAP > LDAP Base		
	Other Phones:		
	Directory > LDAP > Base		
	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 99 characters		
Default	Blank		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Directory > LDAP > LDAP Username		
	Other Phones:		
	Directory > LDAP > User Name		

-			
	ldap.password	<y000000000xx>.cfg</y000000000xx>	
	It configures the password to log into the LDAP ser	ver.	
	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 99 characters		
Default	Blank		
	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:		
Web UI	Directory > LDAP > LDAP Password		
	Other Phones:		
	Directory > LDAP > Password		
Parameter	ldap.max_hits	<y000000000xx>.cfg</y000000000xx>	
	It configures the maximum number of search result	s to be returned by the LDAP server.	
	If the value of the "Max.Hits" is blank, the LDAP server will return all searched results. Please note that a very large value of the "Max. Hits" will slow down the LDAP search speed, therefore it should be con- figured according to the available bandwidth.		
Permitted Values	Integer from 1 to 1000		
Default	50		
Web UI	Directory > LDAP > Max Hits (1~1000)		
Parameter	Idap.name_attr	<y000000000xx>.cfg</y000000000xx>	
	It configures the name attributes of each record to be returned by the LDAP server. It compresses the search results. You can configure multiple name attributes separated by spaces.		
Description	Example:		
	ldap.name_attr = cn sn		
	This requires the "cn" and "sn" attributes set for eac	h contact record on the LDAP server.	
Permitted Values	String within 99 characters		
Default	Blank		
Web UI	Directory > LDAP > LDAP Name Attributes		
Parameter	ldap.numb_attr	<y000000000xx>.cfg</y000000000xx>	
	It configures the number attributes of each record to be returned by the LDAP server and display them to the phone in the order of the configured attributes		
	Multiple number attributes are separated by space	3.	
Permitted Values	String within 99 characters		
Default	Blank		
	Contacts and attribute values on the LDAP server are configured as follows:		
Case Scen-	user0005-telephoneNumber (2598), mobile (1304	3957895)	
aria	user0006-telephoneNumber (3598), mobile (15956524892)		
	useroood-telephoneraumber (5596), mobile (1595)	56E 166E)	

	user0007-telephoneNumber (blank), mobile (18954125624)	
	Set the following:	
	Idap.numb_attr = telephoneNumber mobile	
	This requires the "telephoneNumber" and "mobile" attributes set for each contact record on the LDAP server. And the phone screen will display the number in the order of the configured attributes (tele-phoneNumber > mobile).	
	Results:	
	user0005 2598	
	user0006 3598	
	user0007 4598	
	user0008 18954125624	
Web UI	Directory > LDAP > LDAP Number Attributes	
Parameter	ldap.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	Example:	
	ldap.display_name = %cn	
Permitted	The cn of the contact record is displayed on the phone screen.	
Values	String within 99 characters	
Default	Blank	
Web UI	Directory > LDAP > LDAP Display Name	
Parameter	Idap.version 000000000xx .cfg	
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 > Protocol	
Parameter	ldap.call_in_lookup <y00000000xx>.cfg</y00000000xx>	
Description	It enables or disables the phone to perform an LDAP search when receiving an incoming call.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Web UI	Directory > LDAP > LDAP Lookup for 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 Values	0-Disabled 1-Enabled	

Default	1		
Web UI	Directory > LDAP > LDAP Lookup for Callout		
Parameter	ldap.ldap_sort	<y000000000xx>.cfg</y000000000xx>	
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 > LDAP Sorting Results		
Parameter	ldap.incoming_call_special_search.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to search the telep from the LDAP server if the incoming phone numbe search, all the search results will be displayed on t	er starts with"+" or "00". When completing the LDAP	
	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 1 (Enabled). You may need to set "Idap.name_fil- ter" to be ((cn=%)(sn=%)(telephoneNumber=%)(mobile=%)) for searching the telephone numbers starting with "+" symbol.		
	0-Disabled 1-Enabled		
Default	0		
Parameter	ldap.numb_display_mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the display mode of the attribute name	e for the LDAP contact number.	
	Note: It works only if "Idap.enable" is set to 1 (Enab		
Values	0-NumberN (N is an increasing number), for examp	ble Number1, Number2, Number3	
Values	1-Attribute name pushed by the server	1-Attribute name pushed by the server	
Default			
	0		
	0 Idap.customize_label	<y000000000xx>.cfg</y000000000xx>	
Parameter			
Parameter	Idap.customize_label		
Parameter Description	Idap.customize_label It configures the display name of the LDAP phone I	book.	
Parameter Description	Idap.customize_label It configures the display name of the LDAP phone I If it is left blank, LDAP is displayed.	book.	
Parameter Description Permitted Values	Idap.customize_label It configures the display name of the LDAP phone I If it is left blank, LDAP is displayed. Note : It works only if "Idap.enable" is set to 1 (Enab	book.	
Parameter Description Permitted Values Default	Idap.customize_label It configures the display name of the LDAP phone I If it is left blank, LDAP is displayed. Note : It works only if "Idap.enable" is set to 1 (Enab String within 99 characters	book.	
Parameter Description Permitted Values Default Web UI	Idap.customize_label It configures the display name of the LDAP phone I If it is left blank, LDAP is displayed. Note : It works only if "Idap.enable" is set to 1 (Enab String within 99 characters Blank	book.	
Parameter Description Permitted Values Default Web UI Parameter	Idap.customize_label It configures the display name of the LDAP phone I If it is left blank, LDAP is displayed. Note : It works only if "Idap.enable" is set to 1 (Enab String within 99 characters Blank Directory > LDAP > LDAP Label	<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>	
Parameter Description Permitted Values Default Web UI Parameter	Idap.customize_label It configures the display name of the LDAP phone I If it is left blank, LDAP is displayed. Note : It works only if "Idap.enable" is set to 1 (Enab String within 99 characters Blank Directory > LDAP > LDAP Label Idap.extra_attr	<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>	

	Iden extre ette title leng		
	Idap.extra_attr = title lang		
	This requires the "title" and "lang" extra attributes set for each contact record on the LDAP server.		
Permitted	Note: It works only if "Idap.enable" is set to 1 (Enabled).		
Values	String		
Default	Blank		
Supported Devices	T57W, T54W, T48U, T48S, T46U, T46S		
Parameter	ldap.display_extra_attr <y00000000xx>.cfg</y00000000xx>		
	It configures the extra attributes list of each record to be displayed on the phone.		
	The attribute must start with a "%" symbol. Multiple attributes are separated by spaces.		
Description	Example:		
Description	ldap.display_extra_attr = %title %lang		
	The title and lang of the contact record are displayed on the phone screen.		
	Note: It works only if "Idap.enable" is set to 1 (Enabled).		
Permitted	String		
Values			
Default	Blank		
Supported Devices	T57W, T54W, T48U, T48S, T46U, T46S		
Parameter	Idap.custom_extra_attr_name <y00000000xx>.cfg</y00000000xx>		
	It configures the custom attribute names of each record that are displayed on the phone.		
	The valid format is: <custom attribute="" name="" on="" phone="" the="">%<attribute name="" on="" server="" the="">. Multiple attribute names are separated by spaces.</attribute></custom>		
Description	Example:		
Description	ldap.custom_extra_attr_name = Comment%title Language%lang		
	The phone screen displays "Comment: title of the contact record" and "Language: lang of the contact record".		
	Note: It works only if "Idap.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	T57W, T54W, T48U, T48S, T46U, T46S		
Parameter	Idap.anonymous_bind_operation.enable <y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to use anonymous identity for accessing the LDAP directory.		
Description	Note: It works only if "Idap.enable" is set to 1 (Enabled).		
	0-Disabled		
Permitted Values	1 -Enabled, if the authentication information is not configured on the phone, the phone can use th empty one to log into the LDAP server. But if the server does not allow anonymity to log into, the phone prompts users to enter the corresponding user name and password.		

Default	1
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G
related	Idap.user Idap.password

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 down-load 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.

Note: For T40P/T40G/T23P/T23G/T21(P) E2/T19(P) E2 phones, we recommend that you download less than 3000 remote contacts (including one name and three numbers fields) from the remote server. For other phones, we recommend that you download less than 5000 remote contacts (including one name and three numbers fields) from the remote server.

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	<name> Contact Name </name> <telephone label="Number Label"> Contact Number</telephone>	Add a contact in a department/group: If the label of the contact number is left blank, the default label "Number X" is used.
Menu.xml	<ivenuitem></ivenuitem>	Add a contact department/group file: Specify the department/group name between <name> and </name> ;

Template	Element	Valid Values
		Specify the department/group access URL between <url> and</url>
		Specify a department/group file for a key:
	<name> #</name> <url> http://10.2.9.1:99/De-</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/>
Contended of the state of the sta
```

<Name > Lily </Name > <Telephone label="Mobile Number" > 12345654626</Telephone >

</DirectoryEntry > </DirectoryEntry >

```
<Name > Jim</Name >
<Telephone label="Office Number" > 654321</Telephone >
<Telephone label="Mobile Number" > 54321665462</Telephone >
<Telephone label="Other Number" > 8608</Telephone >
<Extra label="Language" > English</Extra >
```

</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, </br>
```

```
<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.

Para	meter	remote_phonebook.data.X.url ^[1]	<y000000000xx>.cfg</y000000000xx>
Deee	ription	It configures the access URL of the remote phone book.	
Desc	ription	Note: For T40P/T40G/T23P/T23G/T21(P) E2/T19(P) E2 phones, the size of a remote phone book file	

	should be less than 750K. For other phones, the size of a remote phon	he 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	<y000000000xx>.cfg</y000000000xx>	
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	String within 99 characters		
Default	Blank		
Parameter	features.remote_phonebook.enable	<y000000000xx>.cfg</y000000000xx>	
Description	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.		
Permitted Values	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>	
	It configures how often to refresh the local cache of the remote phone book. If it is set to 3600, the phone will refresh the local cache of the remote phone book every 3600 seconds (1 hour).		

	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	features.remote_phonebook.enter_update_enable <y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to refresh the local cache of the remote phone book at a time when accessing the remote phone book.		
	0-Disabled 1-Enabled		
Default	0		

^[1]X is the phone book ID. X=1-5.

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 navigate to **Menu** > **Directory** > **Remote Phone Book** to access the corporate directory straight from their phones.

Directory List for Directory/Dir Soft Key

Users can access frequently used directory lists by pressing the **Directory/Dir** soft key when the IP phone is idle. The lists include Local Directory, History, Remote Phone Book and Blacklist by default.

You can add the desired lists to directory list using a directory list file (favorite_setting.xml).

Topics

Directory List File Customization Directory List Configuration Example: Configuring a Directory List

Directory List File Customization

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

Topics

Directory List File Attributes Customizing Directory List File

Directory List File Attributes

The following table lists the attributes you can use to add contact lists to the directory list file. We recommend that you do not edit these attributes.

Attributes	Valid Values	Description
	localdirectory	
	history	
	networkcalllog	
	remotedirectory	
	ldap	
	broadsoftdirectory	
	plcmdirectory	
	gabdirectory	
	pabdirectory	The existing directory list (For example, "loc-
id_name	metaswitchcontacts	aldirectory" for the local directory list).
	metaswitchcalllog	Note: Do not edit this field.
	uc_buddies	
	mobilecontant	
	blacklist	
	googledirectory	
	sharedirectory (only applicable to T57W/T54W/T53W/T53 phones)	
	dectintercom (only applicable to T57W/T54W/T53W/T53 phones)	
	presencelist	
	Local Directory	
	History	
	Network CallLog	
	Remote Phone Book	
	LDAP	
	Network Directories	The display name of the directory list.
display_		Note : We recommend that you do not edit this field. Network Directories and Network
name	Global Address Book	CallLog lists are hidden for phones in GA
	IParconal Address Book	firmware, GA firmware which is designed for the BroadWorks environment.
	Network Contacts	
	Network Call List	
	Buddies	
	Mobile Contacts	
	Blacklist	

Attributes	Valid Values	Description
	Google Contact	
	Shared Directory (only applicable to T57W/T54W/T53W/T53 phones)	
	Dect Intercom (only applicable to T57WT54W/T53W/T53 phones)	
	Presence List	
priority	1 to 18 1 is the highest priority.	The display priority of the directory list.
	0/1	
enable	0: Disabled	Whether to display this list when you press Directory (Dir) on the phone.
	1: Enabled	
	common	
dev	T19 T21 T23 T40 T40G T27 T27G T29 T41 T42 T42S T41S T46 T46S T48 T48S CP920 T54W T53W T53 T57W T48U T46U T43U T42U	The applicable phone models of the dir- ectory list. Common represents that the
	T29 T46 T46S T48 T48S T54W T53W T53 T57W T48U T46U T43U T42U	desired directory list is applicable to all IP phone models.
	T29 T46 T46S T48 T48S T42S T41S T27G CP920 T54W T53W T53 T57W T48U T46U T43U T42U	Note : Do not edit this field.
	T54W T53W T53 T57W T48U T46U T43U T42U	

Customizing Directory List File

- **1.** Open the directory list XML file.
- 2. To configure each directory list, edit the values within double quotes in the corresponding field. For example, enable the local directory, disable the history and specify a priority. <item id_name="localdirectory" display_name="Local Directory" priority="1" enable="1" dev="common"/> <item id_name="history" display_name="History" priority="2" enable="0" dev="common"/>
- 3. Save the change and place this file to the provisioning server.

Directory List Configuration

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

Parameter	static.directory_setting.url	<y000000000xx>.cfg</y000000000xx>
Description	It configures the access URL of the custom directory file (favorite_setting.xml).	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Directory > Settings > Directory	
Parameter	directory_setting.local_directory.enable <y00000000xx>.cfg</y00000000xx>	
Description	It enables or disables the users to access the local directory by pressing the Directory/Dir soft key.	
Permitted	0-Disabled	

Values	1-Enabled		
Default	1		
Parameter	directory_setting.local_directory.priority	<y000000000xx>.cfg</y000000000xx>	
	It configures the display priority of the local directory.		
Permitted Values	Integer greater than or equal to 0		
Default	1		
Parameter	directory_setting.history.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the users to access the history	by pressing the Directory/Dir soft key.	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	directory_setting.history.priority	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the display priority of the call log list.		
Permitted Values	Integer greater than or equal to 0		
Default	2		
Parameter	directory_setting.remote_phone_book.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the users to access the remote phone book by pressing the Directory/Dir soft key.		
Permitted Values	0-Disabled 1-Enabled		
	0		
Parameter	directory_setting.remote_phone_book.priority	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the display priority of the remote phone	book.	
Permitted Values	Integer greater than or equal to 0		
Default	4		
Parameter	directory_setting.ldap.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the users to access the LDAP I	by pressing the Directory/Dir soft key.	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	directory_setting.ldap.priority	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the display priority of the LDAP.		
Permitted	Integer greater than or equal to 0		

Values	
Default	5

Example: Configuring a Directory List

The following example shows the configuration for the directory list.

Customize the directory list file, and then place this file to the provisioning server "http://192.168.10.25".

Example

static.directory_setting.url = http://192.168.10.25/favorite_setting.xml

After provisioning, you can press the Directory/Dir soft key to access the desired contact list quickly.

Directory Search Settings

You can configure how the phones search contacts and whether to highlight the matched keywords for contact searching.

	Search 1/2		
3			
2 David		22	
L Meris		6	
Back	Add	Option	Send

The following shows the search results on T46S/G phones:

Topic

Directory Search Settings Configuration

Directory Search Settings Configuration

The following table lists the parameters you can use to configure directory search settings.

Parameter	directory.search_type	<y000000000xx>.cfg</y000000000xx>	
	It configures the search type when searching the contact in Local Directory, Remote Phone Book, Net- work Directory or Blacklist.		
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	phone_setting.search.highlight_keywords.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to highlight the matched characters in the search results.		
	0-Disabled 1-Enabled		

Default	0		
Supported Devices	All color screen phones		
Parameter	phone_setting.search_t9.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to perform an intelligent search when searching for contacts in the directory.		
Permitted	0-Disabled, the phone only displays the search results of a number 1.1	per match.	
Values	1-Enabled		
Default	1		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G		
Parameter	directory.containing_search.additional_sorting_mode	<y000000000xx>.cfg</y000000000xx>	
	It configures the sorting mode in the search results.		
Description	Note : It works only if "directory.search_type" is set to 0 (Approximate string matching).		
0-Sort by ASCII code order.			
Permitted Values	1-The contacts starting with the searched content are displayed first, and the remaining contacts are displayed in the ASCII code order.		
Default	0		
Supported Devices	T33P, T33G, T31P, T31G, T31, T30P, T30		

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

Number Matching Settings

You can configure the pattern to match the contact numbers with the caller's phone number.

Topics

Number Matching Settings Configuration Example: Matching Contacts with the Caller's Phone Number Using the Regular Expression

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	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	

Parameter	phone_setting.reverse_lookup.contact_list.replace.with	<y000000000xx>.cfg</y000000000xx>
Description	It configures the string used to replace the certain matched o	ne of the contact number.
Permitted Values	String within 512 characters	
Default	Blank	
Related Parameters	phone_setting.reverse_lookup.contact_list.replace.pattern	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	
Parameter	phone_setting.reverse_lookup.incoming_call.re- place.pattern	<y000000000xx>.cfg</y000000000xx>
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	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	
Parameter	phone_setting.reverse_lookup.incoming_call.replace.with	<y000000000xx>.cfg</y000000000xx>
Description	It configures the string used to replace the certain matched o	ne of the caller's phone number.
Permitted Values	String within 512 characters	
Default	Blank	
Related Parameters	phone_setting.reverse_lookup.incoming_call.replace.pattern	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	

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

Example: Matching Contacts with the Caller's Phone Number Using the Regular Expression

The following example shows the configuration for matching contacts with the caller's phone number using the regular expression.

Example:

phone_setting.reverse_lookup.contact_list.replace.pattern = 0
phone_setting.reverse_lookup.contact_list.replace.with =
phone_setting.reverse_lookup.incoming_call.replace.pattern = +49
phone_setting.reverse_lookup.incoming_call.replace.with =

After provisioning, the contact number "01781296" will be replaced with "1781296". When receiving the incoming call from "+491781296", "+491781296" will be replaced with "1781296". Then the phone screen displays the contact name and the caller's phone number.

All Contac	ts A	В	1/3 🕨	Ringing			*
20000		232423	4	1006	Adadd		
🔔 Adadd		017812	96	S 213213	+491781296		
🔔 Bn		34324		Google			
🔔 Bn		2031					
🔔 Bn		34324		2248	(((♠)))))	
Back	Add	Option	Send	Answer	Forward		Reject

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 Forwarded Calls. Each call log list supports up to 100 entries.

Topics

Call Log Display Call Log Configuration Call Logs Backup

Call Log Display

You can access the call history information via the web user interface at the path: **Directory** > **Phone Call Info** or via the phone user interface at the path: **Menu** > **History**.

Display Field	Description
Name	Shows the name of the remote party.
Number	Shows the number of the remote party.
Time	Shows the call initiation time.
Line	Shows which line is used.
Duration	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.

The following table describes the detailed call log information:

Related Topic

Call Log Configuration

Call Log Configuration

The following table lists the parameters you can use to change the call log settings.

Parameter	features.save_call_history	<y000000000xx>.cfg</y000000000xx>
It enables or disables the phone to log the call history (missed calls, placed Description forwarded calls) in the call lists.		ory (missed calls, placed calls, received calls and
	Note: To log the missed calls, "account.X.missed_calllog" should be set to 1 (Enabled).	

Permitted Values	0 -Disabled, the phone cannot log the placed calls, received calls, missed calls and the forwarded calls in the call lists.			
Default	1-Enabled			
Web UI	Features > General Information > Save Call Log			
	Color Screen Phones:			
Phone UI	Menu > Features > Others > General > History Record			
	Black-and-white Screen Phones:	Black-and-white Screen Phones:		
	Menu > Features > History Setting > History Record			
Parameter	account.X.missed_calllog ^[1] <mac>.cf</mac>	g		
Description	It enables or disables the phone to record missed calls for ac	count X.		
Description	Note: It works only if "features.save_call_history" is set to 1 (E	nabled).		
	0-Disabled			
	1-Enabled			
Default	1			
Web UI	Account > Basic > Missed Call Log			
Parameter	 pstn.account.X.missed_calllog^[2] <mac>.cf</mac> 	g		
	It enables or disables the phone to indicate and record missed calls for PSTN account X.			
Description	Note: It works only if "features.save_call_history" is set to 1 (Enabled). The prompt message displays only if "features.missed_call_popup.enable" is set to 1 (Enabled).			
Permitted Values	 0-Disabled, the phone does not display a prompt message and an indicator icon on the idle screen and log the missed call in the Missed Calls list when it misses calls. 1-Enabled, the phone displays a prompt message and an indicator icon on the idle screen and logs the missed call in the Missed Calls list when it misses calls. 			
Default	1			
Supported Devices	CP920	CP920		
Web UI	Account > Basic > Missed Call Log			
Parameter	features.call_log_show_num	0000xx>.cfg		
Description	It configures the display type of the other party's information in the call log lists.			
Description	Note: It works only if "features.save_call_history" is set to 1 (Enabled).			
	0-Name, the name is displayed preferentially; if there is no name, the number is displayed			
Permitted Values	1-Number			
raidee	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	0000xx>.cfg		
	It enables or disables the phone to indicate what happened to	o the call in the call log lists.		
Description				
	וו וא מאלוויסטוב וה וווב והווהאוווא ארבוומווהא.			

	Reject an incoming call		
	Forward an incoming call The outgoing call is rejected		
	The outgoing call is rejectedTransfer a call		
	 Transfer a call Answer a transferred/forwarded call from the remote party; your call is transferred/forwarded to 		
	another party.	note party, your can is transferred forwarded to	
	Note: It works only if "features.save_call_history" is	set to 1 (Enabled).	
	0-Disabled		
Permitted Values	1-Enabled, you can get the detailed call-disposition face: History > Option > Detail > Relation.	n information at the path via the phone user inter-	
Default	1		
Parameter	features.save_init_num_to_history.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to log the transfer	party's phone number in the call history list.	
Permitted Values	 0-Disabled, the phone will log the transfer-to party's 1-Enabled 	s phone number in the call history list.	
Default	1		
Parameter	features.call_out_history_by_off_hook.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to dial out automatically once you go off-hook or press the Speak- erphone key in the call history list.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	features.call_log_merge.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to merge the same Note : The merged entry only displays the initiation		
Permitted Values	 0-Disabled, each call is logged individually in the calls list. 1-Enabled, consecutive incomplete calls to/from the same party and in the same direction are merged into one record in the calls list. The merged entry displays the number of consecutive calls. 		
Default	0		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T2	29G	
Parameter	features.local_calllog.received.replace_rule	<y000000000xx>.cfg</y000000000xx>	
	It configures the string of the digit map to be applied	d to the numbers dialed from the call history list.	
	Example:		
	features.local_calllog.received.replace_rule = <00:+>x. <5:1>xx		
Description	When you call the contact 001234567 from the call history list, the number +1234567 will be dialed out because "001234567" matches the "<00:+>x." in the digit map;		
	When you call the contact 532 from the call history list, the number 132 will be dialed out because "532" matches the "<5:1>xx" in the digit map.		
	Note: The records in the Placed Calls are not matched.		
Permitted Values	String		

Default	Blank
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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

Related Topic

Basic Regular Expression Syntax for Digit Map

Call Logs Backup

Yealink phones support storing all call logs to a call log file named <MAC>-calllog.xml. You can back up this file to the server, avoiding data loss. Once the call logs update, the phone will automatically upload this file to the provisioning server or a specific server. If a call log file exists on the server, it will be overridden. The phone will request to download the <MAC>-calllog.xml file according to its MAC address from the server during auto provisioning.

The call log file 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 call log file is 00156574B150-calllog.xml (uppercase).

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 IP phone.

The following table lists the parameters you can use to back up the call log.

Deveneter	atatia auto, graviaian lagal, galllan baaluun anabla		
Parameter	static.auto_provision.local_calllog.backup.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to upload the <mac>-calllog.xm logs update and download the <mac>-calllog.xml file from the se</mac></mac>		
Permitted Values	 0-Disabled, the phone does not upload/download the call log file "<mac>-calllog.xml" to the server.</mac> 1-Enabled, the phone uploads the call log file "<mac>-calllog.xml" to the specific path configured by the parameter "static.auto_provision.local_calllog.backup.path" each time the call logs update; and downloads the call logs in the "<mac>-calllog.xml" according to its MAC address from the specific path during auto provisioning.</mac></mac> 		
Default	0		
Parameter	static.auto_provision.local_calllog.backup.path	<y000000000xx>.cfg</y000000000xx>	
	It configures a path or URL for the phone to upload/download the <mac>-calllog.xml file.</mac>		
	If it is left blank, the phone connects to the provisioning server URL, and uploads/downloads the con- tact file " <mac>-calllog.xml".</mac>		
	Example:		
Description	static.auto_provision.local_calllog.backup.path = http://192.168.1.20/calllog		
	Once the call logs update, the phone will upload the call log file to the specified path "http://192.168.1.20/calllog".		
	During auto provisioning, the phone downloads the call log file " <mac>-calllog.xml" from the spe- cified path "http://192.168.1.20/calllog".</mac>		
	Note: It works only if "static.auto_provision.local_calllog.backup.enable" is set to 1 (Enabled).		
Permitted Values	String		

Default	Blank		
Parameter	static.auto_provision.local_calllog.write_delay.terminated	<y000000000xx>.cfg</y000000000xx>	
It configures the delay time (in seconds) for the phone to upload the <mac call="" description="" logs="" th="" the="" update.<=""><th>the <mac>-calllog.xml file each time</mac></th></mac>		the <mac>-calllog.xml file each time</mac>	
	Note: It works only if "static.auto_provision.local_calllog.backup.enable" is set to 1 (Enabled).		
Permitted Values	Integer from 10 to 600		
Default	60		
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>		
Permitted	0-PUT		
Values	1-POST		
Default	0		

Call Features

This chapter shows you how to configure the call feature on Yealink phones.

Topics

Dial Plan Defined by Four Patterns (Old Dial Plan Mechanism) Dial Plan Defined by Digit Map (New Dial Plan Mechanism) **Emergency Dialplan and Enhanced 911** Hotline Off Hook Hot Line Dialing Live Dialpad Auto Redial **Recall Configuration** Speed Dial **Password Dial Call Timeout** Anonymous Call **Call Number Filter IP Address Call** Ignoring Incoming Calls **Off Hook Answering** Auto Answer Anonymous Call Rejection Call Waiting Do Not Disturb (DND) **Multiple Call Appearances** Call Hold Call Mute **Call Forward** Call Transfer Conference USB Recording

Dial Plan Defined by Four Patterns (Old Dial Plan Mechanism)

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.

Yealink phones support four patterns:

Multicast Paging

- **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 100 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.

Note: If you enable a new dial plan mechanism, old dial plan will be ignored. For more information on the new dial plan, refer to Dial Plan Defined by Digit Map (New Dial Plan Mechanism).

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 an old 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.
Y	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 combine two or 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	Specify the number to be replaced.
Replace	Specify the alternate string instead of what the user enters.
LineID	Specify a registered line to apply the replace rule.
	Valid Values: 0~16
	0, 1 (for CP920)
	0 stands for all lines;
	1~16 stand for line1~line16 (vary by phone models: T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G: 1~16; T53W/T53/T43U/T42U/T42S/T42G: 1~12; T41P/T41S/T27G: 1~6; T33P/T33G: 1~4; T40P/T40G/T23P/T23G: 1~3; T31P/T31G/T31/T21(P) E2: 1~2; T30P/T30/T19(P) E2/CP920: 1)
	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 100 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.
LineID	Specify a registered line to apply the dial-now rule. Valid Values: 0~16 0, 1 (for CP920) 0 stands for all lines; 1~16 stand for line1~line16 (vary by phone models: T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G: 1~16; T53W/T53/T43U/T42U/T42S/T42G: 1~12; T41P/T41S/T27G: 1~6; T33P/T33G: 1~4; T40P/T40G/T23P/T23G: 1~3; T31P/T31G/T31/T21(P) E2: 1~2; T30P/T30/T19(P) E2/CP920: 1) 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>
	It configures the entered number to be replaced.	
Description	Note: It works only if "dialplan.digitmap.enable" and "account.X.dialplan.digitmap.enable" are set to 0 (Disabled).	
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>
	It configures the alternate number to replace the en	tered number.
Description	The entered number is configured by "dialplan.repl	ace.prefix.X".
-	Note: It works only if "dialplan.digitmap.enable" and "account.X.dialplan.digitmap.enable" are s (Disabled).	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Settings > Dial Plan > Replace Rule > Replace	
Parameter	dialplan.replace.line_id.X ^[1] <y00000000xx>.cfg</y00000000xx>	
	It configures the desired line to apply the replace rule. The digit 0 stands for all lines. If it is left blank, the replace rule will apply to all lines on the phone.	
Description	Multiple line IDs are separated by commas.	
	Note: It works only if "dialplan.digitmap.enable" and "account.X.dialplan.digitmap.enable" are set to 0 (Disabled).	
	0 to 16 (for T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G)	
	0 to 12 (for T53W/T53/T43U/T42U/T42S/T42G)	
	0 to 6 (for T41P/T41S/T27G)	
Permitted Values	0 to 4 (for T33P/T33G)	
	0 to 3 (for T40P/T40G/T23P/T23G)	
	0 to 2 (for T31P/T31G/T31/T21(P) E2)	
	0, 1 (for T30P/T30/T19(P) E2/CP920)	

Default	Blank	
Web UI	Settings > Dial Plan > Replace Rule > Account	
Parameter	dialplan_replace_rule.url <y00000000xx>.cfg</y00000000xx>	
Description	It configures the access URL of the replace rule template file. For customizing replace rule template file, refer to Replace Rule File Customization. Note : It works only if "dialplan.digitmap.enable" and "account.X.dialplan.digitmap.enable" are set to 0 (Disabled).	
Permitted Values	URL within 511 characters	
Default	Blank	

^[1]X is from 1 to 100.

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).	
	When entered numbers match the predefined dial now rule, the phone will automatically dial out the numbers without pressing the send key.	
Description	escription Example:	
	dialplan.dialnow.rule.1 = 123	
	Note: It works only if "dialplan.digitmap.enable" and (Disabled).	d "account.X.dialplan.digitmap.enable" are set to 0
Permitted Values	String within 511 characters	
Default	Blank	
Web UI	Settings > Dial Plan > Dial Now > Rule	
Parameter	dialplan.dialnow.line_id.X ^[1] <y00000000xx>.cfg</y00000000xx>	
	It configures the desired line to apply the dial now r	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. It works only if "dialplan.digitmap.enable" and "account.X.dialplan.digitmap.enable" are set to 0 (Disabled).	
	0 to 16 (for T57W/T54W/T48U/T48S/T48G/T46U/T4	46S/T46G/T29G)
	0 to 12 (for T53W/T53/T43U/T42U/T42S/T42G)	
D	0 to 6 (for T41P/T41S/T27G)	
Permitted Values	0 to 4 (for T33P/T33G)	
	0 to 3 (for T40P/T40G/T23P/T23G)	
	0 to 2 (for T31P/T31G/T31/T21(P) E2)	
0, 1 (for T30P/T30/T19(P) E2/CP920)		

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.	
Description	If it is set to 0, the phone will automatically dial out the entered number immediately.	
	Note: It works only if "dialplan.digitmap.enable" and (Disabled).	d "account.X.dialplan.digitmap.enable" are set to 0
Permitted Values	Integer from 0 to 14	
Default	1	
Web UI	Features > General Information > Time Out for Dial	Now Rule
Parameter	dialplan_dialnow.url	<y000000000xx>.cfg</y000000000xx>
	It configures the access URL of the dial now templa	ate file.
Description	For customizing dial now template file, refer to Dial Now File Customization.	
beeenplien	Note: It works only if "dialplan.digitmap.enable" and "account.X.dialplan.digitmap.enable" are set to 0 (Disabled).	
Permitted Values	String within 511 characters	
Default	Blank	
Parameter	dialplan.transfer.mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures the transfer type the phone will perform when the entered transferee numbers match the Dial Now rule of the dial plan or the predefined string of the digit map.	
Permitted	0-Semi-attended Transfer/Attended Transfer	
Values	1-Blind Transfer	
Default	0	
_	dialplan.dialnow.rule.X	
Related Parameters	dialplan.digitmap.string	
	account.X.dialplan.digitmap.string	

^[1]X is from 1 to 100.

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 Note : The length of the entered number must be be meter "dialplan.area_code.min_len" and the maxin plan.area_code.max_len". It works only if "dialplan "account.X.dialplan.digitmap.enable" are set to 0 (I	tween the minimum length configured by the para- num length configured by the parameter "dial- digitmap.enable" and

Permitted Values	String within 16 characters		
Default	Blank		
Web UI	Settings > Dial Plan > Area Code > Code		
Parameter	dialplan.area_code.min_len	<y000000000xx>.cfg</y000000000xx>	
	It configures the minimum length of the entered nur	nber.	
Description	Note: It works only if "dialplan.digitmap.enable" and (Disabled).	d "account.X.dialplan.digitmap.enable" are set to 0	
Permitted Values	Integer from 1 to 15		
Default	1		
Web UI	Settings > Dial Plan > Area Code > Min Length (1-1	5)	
Parameter	dialplan.area_code.max_len	<y000000000xx>.cfg</y000000000xx>	
	It configures the maximum length of the entered nu	mber.	
Description	Note: The value must be larger than the minimum I and "account.X.dialplan.digitmap.enable" are set to	ength. It works only if "dialplan.digitmap.enable" o (Disabled).	
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 blank, the area code rule will apply to all lines on th	•	
	Note : Multiple line IDs are separated by commas. It works only if "dialplan.digitmap.enable" a "account.X.dialplan.digitmap.enable" are set to 0 (Disabled).		
	0 to 16 (for T57W/T54W/T48U/T48S/T48G/T46U/T4	6S/T46G/T29G)	
	0 to 12 (for T53W/T53/T43U/T42U/T42S/T42G)		
Permitted	0 to 6 (for T41P/T41S/T27G)		
Values	0 to 4 (for T33P/T33G)		
	0 to 3 (for T40P/T40G/T23P/T23G)		
	0 to 2 (for T31P/T31G/T31/T21(P) E2)		
	0, 1 (for T30P/T30/T19(P) E2/CP920)		
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>
Description	It configures the block out numbers.	

	Example:	
	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".	
	Note: It works only if "dialplan.digitmap.enable" and "account.X.dialplan.digitmap.enable" are set to 0 (Disabled).	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Settings > Dial Plan > Block Out > BlockOut Numbe	rX ^[1]
Parameter	dialplan.block_out.line_id.X ^[1]	<y000000000xx>.cfg</y000000000xx>
Description	escription Note: Multiple line IDs are separated by commas. It works only if "dialplan.digitmap.en account.X.dialplan.digitmap.enable" are set to 0 (Disabled).	
Permitted Values	0 to 16 (for T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G) 0 to 12 (for T53W/T53/T43U/T42U/T42S/T42G) 0 to 6 (for T41P/T41S/T27G) 0 to 4 (for T33P/T33G) 0 to 3 (for T40P/T40G/T23P/T23G) 0 to 2 (for T31P/T31G/T31/T21(P) E2) 0, 1 (for T30P/T30/T19(P) E2/CP920)	
Default	Blank	

^[1]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.

Dial Plan Defined by Digit Map (New Dial Plan Mechanism)

Digit maps, described in RFC 3435, are defined by a single string or a list of strings. If a number entered matches any string of a digit map, the call is automatically placed. If a number entered matches no string - an impossible match - you can specify the phone's behavior. You can specify the digit map timeout, the period of time before the entered number is dialed out.

Topics

Basic Regular Expression Syntax for Digit Map Digit Map for All Lines Configuration Digit Map for a Specific Line Configuration

Basic Regular Expression Syntax for Digit Map

You need to know the following basic regular expression syntax when creating a new dial plan:

	Γ	
Т	The timer letter "T" indicates a timer expiry. If "T" is used alone (for example, 123T), the default timeout value of 3 will be used. If "T" is not used alone (for example, 123 <tx>, x can be a digit from 0 to 99), a complete match occurs when waiting x seconds after inputting 123.</tx>	
	The "x" can be used as a placeholder for any digit from 0 to 9.	
х	Example:	
	"12x" would match "121", "122", "123", and so on.	
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 dash "-" can be used to match a range of digits within the brackets.	
	Example:	
-	"[35-7]" would match the number "3", "5", "6" or "7".	
	Note: The digits must be concrete, for example, [3-x] is invalid.	
	The dot "." can be used as a placeholder or multiple placeholders, including zero, of occurrences of the preceding construct.	
	Examples:	
	"123.T" would match "123", "1233", "12333", "123333", and so on.	
	"x.T" would match an arbitrary number.	
	"[x*#+].T" would match an arbitrary character.	
	Note : If the string ends with a dot (for example, 123.), a match will occur immediately after inputting the characters before the dot (e., 123) since the dot allows for zero occurrences of the preceding construct. Therefore, we recommend that you add a letter "T" after the dot (for example, 123.T) for inputting more characters.	
R	The letter "R" indicates that certain matched strings are replaced. Using an RRR syntax, you can replace the digits between the first two Rs with the digits between the last two Rs. Example:	
	"R12R234R" would replace 12 with 234 .	
	The letter ":" in the angle bracket indicates that certain matched strings are replaced. Using the <:> syntax, you can replace the digits before the colon with the digits after the colon.	
<:>	Example:	
	"<12:234>" would replace 12 with 234 . It is the same with R12R234R.	
	The exclamation mark "!" can be used to prevent users from dialing out specific numbers. It can only be put last in each string of the digit map.	
!	Example:	
	"235x!" would match "2351", "2352", "2353", and so on. The number starting with 235 will be blocked to dial out.	
	The comma "," can be used as a separator to generate a secondary dial tone.	
,	Example:	

	"<9,:55>xx", after entering digit "9", secondary dial tone plays and you can complete the remaining two- digit number.	
	Note: The secondary dial tone can be customized. For more information, refer to Tones.	
	The letter "A" indicates the account that is applied to the digit map. You can use A alone or a com- bination of A and account ID (for example, <a1>).</a1>	
	Example:	
A	"123A", the default account will be applied to the digit map.	
	"123 <a2>", the second account will be applied to the digit map.</a2>	
	Note: It is not applicable to the digit map on a per-line basis.	

Digit Map for All Lines Configuration

The following table lists the parameters you can use to configure the digit map for all lines.

Parameter	dialplan.digitmap.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the digit map feature. Note : The value configured by the parameter "account.X.dialplan.digitmap.enable" takes precedence over that configured by this parameter.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	dialplan.digitmap.string	<y000000000xx>.cfg</y000000000xx>
Description	It configures the digit map pattern used for the dial plan. Example: dialplan.digitmap.string = <[2-9]x:86>3.T 0x.! 1xxx	
	Note : The string must be compatible with the digit map feature of MGCP described in 2.1.5 of RFC 3435. It works only if "dialplan.digitmap.enable" or "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.string" takes precedence over that configured by this parameter.	
Permitted Values	String within 2048 characters	
Default	[2-9]11 0T 011xxx.T [0-1][2-9]xx xxxxxxx [2-9]x	xxxxxxx [2-9]xxxT **x.T +x.T 00x.T
Parameter	dialplan.digitmap.interdigit_long_timer	<y000000000xx>.cfg</y000000000xx>
	It configures the time (in seconds) for the phone to wait before dialing an entered number if it mat part of any string of the digit map.	
	If it is set to 0, the phone will not dial the entered number if only a partial match exists.	
	The value of this parameter should be greater than that configured by the parameter "dial- plan.digitmap.interdigit_short_timer".	
Description	For example:	
	dialplan.digitmap.string = 1xxT xxxxx <t1></t1>	
	dialplan.digitmap.interdigit_long_timer = 10	
	dialplan.digitmap.interdigit_short_timer = 5	
	When you enter 1, it matches part of two-digit maps, the phone tries to wait 10 seconds and then	

	out 1 if no numbers entered;	
	When you enter 15, it also matches part of two-digit maps, the phone tries to wait 10 seconds and	
	then dials out 15 if no numbers entered;	
	When you enter 153, it also matches part of two-digit maps, the phone tries to wait 10 seconds. But after waiting for 5 seconds, it completely matches the first digit map and then immediately dials out 153.	
	Note : It works only if "dialplan.digitmap.enable" or ' (Enabled). The value configured by the parameter takes precedence over that configured by this para	"account.X.dialplan.digitmap.interdigit_long_timer"
Permitted Values	Integer from 0 to 255	
Default	10	
Parameter	dialplan.digitmap.interdigit_short_timer	<y000000000xx>.cfg</y000000000xx>
	It configures the timeout interval (in seconds) for an	y string of digit map.
	The phone will wait this many seconds before mate the call.	ching the entered digits to the dial plan and placing
	Note : It works only if "dialplan.digitmap.enable" or ' (Enabled). The value configured by the parameter takes precedence over that configured by this para	"account.X.dialplan.digitmap.interdigit_short_timer"
	Single configuration (configure a specific value for map)	the timer letter "T" for all strings with "T" of the digit
	Example:	
	dialplan.digitmap.interdigit_short_timer = 5	
	If "dialplan.digitmap.string" is set to <[2-9]x:86>3.T the entered digits to this dial plan and placing the c	
rennilleu	Distribution configuration (configure a string of po the digit map in the corresponding position)	sitive integers separated by " " for each string of
	If there are more digit maps than timeout values, th there are more timeout values than digit maps, the	
	Example:	
	dialplan.digitmap.interdigit_short_timer = 4 5 3 6 2	1
	If "dialplan.digitmap.string" is set to $<$ [2-9]x:86>3.T 2T 1xxT 0x.! [2-9]11T, 4 is applied to the "<[2-9]x:86>3.T" digit map, 5 is applied to "2T" digit map, 3 is applied to "1xxT" digit map, 6 is applied to "0x.!" digit map, 2 is applied to the "[2-9]11T" digit map, the last digit 1 is ignored.	
Default	3	
Parameter	dialplan.digitmap.no_match_action	<y000000000xx>.cfg</y000000000xx>
	It configures the behavior when an impossible digit	map match occurs.
	Note: It works only if "dialplan.digitmap.enable" or "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.no_match_action" takes precedence over that configured by this parameter.	
	0-prevent users from entering a number and imme	diately dial out the entered numbers
	11-the dialing will fail and the phone screen will prompt "Forbidden Number"	
		II manually with the send key or automatically dial
Permitted Values	(Enabled). The value configured by the parameter "account.X.dialplan.digitmap.no_match_action" takes precedence over that configured by this parameter. 0 -prevent users from entering a number and immediately dial out the entered numbers	

	out the entered number after a certain period of tim	e configured by the parameter "dial-
	plan.digitmap.interdigit_long_timer"	
Default	0	
Parameter	dialplan.digitmap.active.on_hook_dialing	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the entered numbers to match the predefined string of the digit map in real time. It is only applicable to the on-hook dialing. Note : It works only if "dialplan.digitmap.enable" or "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.active.on_hook_dial- ing" takes precedence over that configured by this parameter.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	dialplan.digitmap.apply_to.on_hook_dial	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the entered number to match the predefined string of the digit map after press- ing a send key when dialing on-hook or pressing the DSS key (for example, speed dial, BLF or prefix key).	
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Parameter	dialplan.digitmap.apply_to.directory_dial	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the digit map to be applied to the numbers dialed from the directory. Note: It works only if "dialplan.digitmap.enable" or "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.apply_to.directory_ dial" takes precedence over that configured by this parameter.	
Values	0-Disabled 1-Enabled	
Default	1	
Parameter	dialplan.digitmap.apply_to.history_dial	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the digit map to be applied to the numbers (received calls or missed calls) dialed from the call history list. Note : It works only if "dialplan.digitmap.enable" or "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.apply_to.history_dial" takes precedence over that configured by this parameter.	
	0-Disabled 1-Enabled	
Default	0	
Parameter	dialplan.digitmap.apply_to.forward	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the digit map to be applied to the numbers that you want to forward to when per- forming call forward. Note : It works only if "dialplan.digitmap.enable" or "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.apply_to.forward" takes precedence over that configured by this parameter.	

-			
Permitted	0-Disabled		
Values	1-Enabled, the incoming calls will be forwarded to the desired destination number according to the		
	string of the digit map.		
Default	1		
Parameter	dialplan.digitmap.apply_to.press_send	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the entered number to match ing a send key. It is only applicable to the off-hook of		
Description	The off-hook dialing includes: pick up the handset, press the Speakerphone key or press the line key when the phone is idle.		
	Note : It works only if "dialplan.digitmap.enable" or "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.apply_to.press_send" takes precedence over that configured by this parameter.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Parameter	dialplan.digitmap.apply_to.prefix_key	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to apply the predefined string of the digit map after pressing a Prefix key.		
Description	Note: It works only if "dialplan.digitmap.enable" or "account.X.dialplan.digitmap.enable" is set to 1 (Enabled).		
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		

Digit Map for a Specific Line Configuration

The following table lists the parameters you can use to configure the digit map for a specific line.

Parameter	account.X.dialplan.digitmap.enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the digit map feature for a specific account. Note : The value configured by the parameter "account.X.dialplan.digitmap.enable" takes precedence over that configured by the parameter "dialplan.digitmap.enable".	
	0-Disabled 1-Enabled	
Default	Blank	
Parameter	account.X.dialplan.digitmap.string ^[1]	<mac>.cfg</mac>
Description	It configures the digit map pattern used for the dial plan. Example : account.1.dialplan.digitmap.string = <[2-9]x:86>3.T 0x.! 1xxx Note : The string must be compatible with the digit map feature of MGCP described in 2.1.5 of RFC 3435. It works only if "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.string" takes precedence over that configured by the parameter "dialplan.digitmap.string".	
Permitted Values	String within 2048 characters	

Default	Blank		
Parameter	account.X.dialplan.digitmap.interdigit_long_timer ^[1]	<mac>.cfg</mac>	
	It configures the time (in seconds) to wait before dialing an string of the digit map for the account X.	entered number if it matches part of any	
	If it is set to 0, the phone will not dial the entered number if	only a partial match exists.	
	The value of this parameter should be greater than that configured by the parameter "accoun- t.X.dialplan.digitmap.interdigit_short_timer".		
	For example:		
	account.1.dialplan.digitmap.string = 1xxT xxxxx <t1></t1>		
	account.1.dialplan.digitmap.interdigit_long_timer = 10		
Description	account.1.dialplan.digitmap.interdigit_short_timer = 5		
	When you enter 1, it matches part of two-digit maps, the pho out 1 if no numbers entered;	one tries to wait 10 seconds and then dials	
	When you enter 15, it also matches part of two-digit maps, t dials out 15 if no numbers entered;	the phone tries to wait 10 seconds and then	
	When you enter 153, it also matches part of two-digit maps, the phone tries to wait 10 seconds. But after waiting for 5 seconds, it completely matches the first digit map and then immediately dials out 153.		
	Note : It works only if "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.interdigit_long_timer" takes precedence over that configured by the parameter "dialplan.digitmap.interdigit_long_timer".		
Permitted Values	Integer from 0 to 255		
Default	Blank		
Parameter	account.X.dialplan.digitmap.interdigit_short_timer ^[1]	<mac>.cfg</mac>	
	It configures the timeout interval (in seconds) for any string	of digit map.	
Description	The phone will wait this many seconds before matching the entered digits to the dial plan and placing the call.		
	Note: It works only if "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value cor by the parameter "account.X.dialplan.digitmap.interdigit_short_timer" takes precedence over figured by the parameter "dialplan.digitmap.interdigit_short_timer".		
	Single configuration (configure a specific value for the time map)	er letter "T" for all strings with "T" of the digit	
	Example:		
	account.1.dialplan.digitmap.interdigit_short_timer = 5		
	If "dialplan.digitmap.string" is set to <[2-9]x:86>3.T 0T, the phone will wait 5 seconds before matching the entered digits to this dial plan and placing the call.		
	Distribution configuration (configure a string of positive in digit map in the corresponding position)	tegers separated by " " for each string of the	
	If there are more digit maps than timeout values, the last tin there are more timeout values than digit maps, the extra tim		
	Example:		

	account.1.dialplan.digitmap.interdigit_short_timer = 4 5 3 6 2 1		
	If "dialplan.digitmap.string" is set to <[2-9]x:86 > 3.T 2T 1xxT 0x.! [2-9]11T, 4 is applied to the "<[2- 9]x:86 > 3.T" digit map, 5 is applied to "2T" digit map, 3 is applied to "1xxT" digit map, 6 is applied to "0x.!" digit map, 2 is applied to the "[2-9]11T" digit map, the last digit 1 is ignored.		
Default	3		
Parameter	account.X.dialplan.digitmap.no_match_action ^[1]	<mac>.cfg</mac>	
	It configures the behavior when an impossible digit map m	atch occurs.	
-	Ascription Note: It works only if "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The by the parameter "account.X.dialplan.digitmap.no_match_action" takes precedent figured by the parameter "dialplan.digitmap.no_match_action".		
	0-prevent users from entering a number and immediately of	lial out the entered numbers	
Permitted	1-the dialing will fail and the phone screen will prompt "For	rbidden Number"	
Values	2-allow users to accumulate digits and dispatch call manua out the entered number after a certain period of time config plan.digitmap.interdigit_long_timer"		
Default	Blank		
Parameter	account.X.dialplan.digitmap.active.on_hook_dialing ^[1]	<mac>.cfg</mac>	
	It enables or disables the entered numbers to match the pr on the pre-dialing screen.	edefined string of the digit map in real time	
Description	To enter the pre-dialing screen, directly enter numbers when the phone is idle.		
	Note : It works only if "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.active.on_hook_dialing" takes precedence over that configured by the parameter "dialplan.digitmap.active.on_hook_dialing".		
Permitted Values	0-Disabled 1-Enabled		
Default	Blank		
Parameter	account.X.dialplan.digitmap.apply_to.on_hook_dial ^[1]	<mac>.cfg</mac>	
	It enables or disables the entered number to match the pre ing a send key on the pre-dialing screen or pressing the D fix DSS key).		
Description	To enter the pre-dialing screen, directly enter numbers whe	en the phone is idle.	
	Note : It works only if "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.apply_to.on_hook_dial" takes precedence over that configured by the parameter "dialplan.digitmap.apply_to.on_hook_dial".		
	0-Disabled		
Values Default	1-Enabled Blank		
	account.X.dialplan.digitmap.apply_to.directory_dial ^[1]	<mac>.cfg</mac>	
	It enables or disables the digit map to be applied to the nur		
-	Scription Note: It works only if "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value by the parameter "account.X.dialplan.digitmap.apply_to.directory_dial" takes precedence configured by the parameter "dialplan.digitmap.apply_to.directory_dial".		
	0-Disabled 1-Enabled		

Default	Blank	
Parameter	account.X.dialplan.digitmap.apply_to.history_dial ^[1]	<mac>.cfg</mac>
	It enables or disables the digit map to be applied to the numbers (received calls or missed calls) dialed from call log lists. Note: It works only if "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.apply_to.history_dial" takes precedence over that configured by this parameter.	
	0-Disabled 1-Enabled	
Default	Blank	
Parameter	account.X.dialplan.digitmap.apply_to.forward ^[1]	<mac>.cfg</mac>
Description	It enables or disables the digit map to be applied to the numbers that you want to forward to when per- forming call forward. Note : It works only if "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.apply_to.forward" takes precedence over that con- figured by the parameter "dialplan.digitmap.apply_to.forward".	
Permitted Values	 0-Disabled 1-Enabled, the incoming calls will be forwarded to the desired destination number according to the string of the digit map. 	
Default	Blank	
Parameter	account.X.dialplan.digitmap.apply_to.press_send ^[1]	<mac>.cfg</mac>
	It enables or disables the entered number to match the predefined string of the digit map after press- ing a send key using off-hook dialing. The off-hook dialing includes: pick up the handset, press the Speakerphone key or press the line key when the phone is idle. Note : It works only if "account.X.dialplan.digitmap.enable" is set to 1 (Enabled). The value configured by the parameter "account.X.dialplan.digitmap.apply_to.press_send" takes precedence over that con- figured by the parameter "dialplan.digitmap.apply_to.press_send".	
	0-Disabled 1-Enabled	
Default	Blank	

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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	It enables or disables the Emergency dialplan feature.		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Parameter	dialplan.emergency.asserted_id_source	<y000000000xx>.cfg</y000000000xx>	
	It configures the precedence of the source of emergency outbound identities when placin gency call. Description Note: If the obtained LLDP-MED ELIN value is blank and no custom outbound identity, the		
	will not be included in the SIP INVITE request. It works only if "dia (Enabled).	alplan.emergency.enable" is set to 1	
	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 be used; if "dialplan.emergency.custom_asserted_id" is left blank, the LLDP-MED ELIN value will be used.		
	HELD -The phone will use the HELD protocol to retrieve location information from the Location Inform- ation Server.		
	GENBAND -Ribbon E911 feature is enabled, the location ID will be added to the INVITE and REGISTER SIP messages.		
Default	ELIN		
Parameter	dialplan.emergency.asserted_id.sip_account	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the account to be used to retrieve E911 location information.		
	T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G: Integer from 1 to 16;		
	T53W/T53/T43U/T42U/T42S/T42G: Integer from 1 to 12;		
Permitted Values	T41P/T41S/T27G: Integer from 1 to 6;		
	T33P/T33G: Integer from 1 to 4;		
	T40P/T40G/T23P/T23G: Integer from 1 to 3;		

	T31P/T31G/T31/T21(P) E2: Integer from 1 to 2;		
	T30P/T30/T19(P) E2/CP920: 1.		
Default	1		
	dialplan.emergency.custom_asserted_id	<y000000000xx>.cfg</y000000000xx>	
	It configures the custom outbound identity when placing an eme		
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 .		
	A number with 10 to 25 digits - for example, 1234567890. The and SIP server (for example, abc.com) is included in the P-Asse example, <sip:1234567890@abc.com>).</sip:1234567890@abc.com>		
	SIP URI - for example, sip:1234567890123@abc.com. The full L tity (PAI) header and the address will be replaced by the emerge <sip:1234567890123@emergency.com>).</sip:1234567890123@emergency.com>		
	TEL URI - for example, tel:+16045558000. The full URI is includ header (for example, <tel:+16045558000>).</tel:+16045558000>	ed in the P-Asserted-Identity (PAI)	
Default	Blank		
Parameter	dialplan.emergency.server.X.address ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the IP address or domain name of the emergency s	erver X to be used for routing calls.	
Description	Note : If the account information has been configured (no matter whether the account registration succeds 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	dialplan.emergency.server.X.port ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the port of emergency server X to be used for routin	ig calls.	
Description	Note: It works only if "dialplan.emergency.enable" is set to 1 (En plan.emergency.asserted_id_source" is not set to HELD .	abled) and "dial-	
Permitted Values	Integer from 0 to 65535		
Default	5060		
Parameter	dialplan.emergency.server.X.transport_type ^[1]	<y000000000xx>.cfg</y000000000xx>	
	It configures the transport protocol the phones use to communicate with the emergency server X.		
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 .		
	0-UDP		
Permitted	1-TCP		
Values	2-TLS		
	3-DNS-NAPTR		
	3 -DNS-NAPTR 0		

[
	It configures the emergency number to use on your phones so a caller can contact emergency ser- vices in the local area when required.		
-	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	Number or SIP URI		
Defeult	When X = 1, the default value is 911;		
Default	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 use	ed in the order listed (left to right).	
Description	The IP phone tries to make emergency calls using the emergency with lower priority. The IP phone tries to send the INVITE reques 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). And "dialplan.emergency.asserted_id_source" is not set to HELD .		
Permitted Values	a combination of digits 1, 2 and 3		
Default	1, 2, 3		
Parameter	dialplan.emergency.held.server_url	<y000000000xx>.cfg</y000000000xx>	
	It configures the primary Location Information Server URL for the phone to send HELD location request.		
Description			
Description	Note: It works only if "dialplan.emergency.enable" is set to 1 (En plan.emergency.asserted_id_source" is set to HELD.	abled) and "dial-	
Permitted Values		abled) and "dial-	
Permitted Values	plan.emergency.asserted_id_source" is set to HELD.	abled) and "dial-	
Permitted Values Default	plan.emergency.asserted_id_source" is set to HELD. String	abled) and "dial- <y0000000000xx>.cfg</y0000000000xx>	
Permitted Values Default Parameter	plan.emergency.asserted_id_source" is set to HELD. String Blank	<y000000000xx>.cfg</y000000000xx>	
Permitted Values Default Parameter	plan.emergency.asserted_id_source" is set to HELD. String Blank dialplan.emergency.held.secondary.server_url It configures the secondary Location Information Server URL for	<y0000000000xx>.cfg the phone to send HELD location</y0000000000xx>	
Permitted Values Default Parameter	plan.emergency.asserted_id_source" is set to HELD. String Blank dialplan.emergency.held.secondary.server_url It configures the secondary Location Information Server URL for request. Note: It works only if "dialplan.emergency.enable" is set to 1 (En	<y0000000000xx>.cfg the phone to send HELD location</y0000000000xx>	
Permitted Values Default Parameter Description Permitted Values	plan.emergency.asserted_id_source" is set to HELD. String Blank dialplan.emergency.held.secondary.server_url It configures the secondary Location Information Server URL for request. Note: It works only if "dialplan.emergency.enable" is set to 1 (En plan.emergency.asserted_id_source" is set to HELD.	<y0000000000xx>.cfg the phone to send HELD location</y0000000000xx>	
Permitted Values Default Parameter Description Permitted Values Default	plan.emergency.asserted_id_source" is set to HELD. String Blank dialplan.emergency.held.secondary.server_url It configures the secondary Location Information Server URL for request. Note: It works only if "dialplan.emergency.enable" is set to 1 (En plan.emergency.asserted_id_source" is set to HELD. String	<y0000000000xx>.cfg the phone to send HELD location</y0000000000xx>	
Permitted Values Default Parameter Description Permitted Values Default Supported Devices	plan.emergency.asserted_id_source" is set to HELD. String Blank dialplan.emergency.held.secondary.server_url It configures the secondary Location Information Server URL for request. Note: It works only if "dialplan.emergency.enable" is set to 1 (En plan.emergency.asserted_id_source" is set to HELD. String Blank	<y0000000000xx>.cfg the phone to send HELD location</y0000000000xx>	
Permitted Values Default Parameter Description Permitted Values Default Supported Devices Parameter	plan.emergency.asserted_id_source" is set to HELD. String Blank dialplan.emergency.held.secondary.server_url It configures the secondary Location Information Server URL for request. Note: It works only if "dialplan.emergency.enable" is set to 1 (En plan.emergency.asserted_id_source" is set to HELD. String Blank All phones except T48G, T46G, T42G, T41P and T29G	<y0000000000xx>.cfg the phone to send HELD location abled) and "dial-</y0000000000xx>	
Permitted Values Default Parameter Description Permitted Values Default Supported Devices Parameter Description	plan.emergency.asserted_id_source" is set to HELD. String Blank dialplan.emergency.held.secondary.server_url It configures the secondary Location Information Server URL for request. Note: It works only if "dialplan.emergency.enable" is set to 1 (En plan.emergency.asserted_id_source" is set to HELD. String Blank All phones except T48G, T46G, T42G, T41P and T29G dialplan.emergency.held.request_type	<y000000000xx>.cfg the phone to send HELD location abled) and "dial-</y000000000xx>	
Permitted Values Default Parameter Description Permitted Values Default Supported Devices Parameter Description	plan.emergency.asserted_id_source" is set to HELD. String Blank dialplan.emergency.held.secondary.server_url It configures the secondary Location Information Server URL for request. Note: It works only if "dialplan.emergency.enable" is set to 1 (En plan.emergency.asserted_id_source" is set to HELD. String Blank All phones except T48G, T46G, T42G, T41P and T29G dialplan.emergency.held.request_type It configures the type of location request message. Note: It works only if "dialplan.emergency.enable" is set to 1 (En	<y000000000xx>.cfg the phone to send HELD location abled) and "dial-</y000000000xx>	

Values If it is set to SIMPLE; the phone will send the location request message defined by REDSKY. Default SIMPLE Parameter dialplan.emergency.held.request_elementX.name ^[2] <y00000000xx>.cfg It configures the custom element name to be sent in a location request message. Example: dialplan.emergency.held.request_element1.name = mac dialplan.emergency.held.request_element3.name = nai Note: It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dialplan.emergency.held.request_element3.name = nai Note: It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dialplan.emergency.asserted_id_source" is set to HELD. Permitted String Default Blank Parameter dialplan.emergency.held.request_elementX.value^[2] cy00000000xx>.cfg Values String cy000000000xx>.cfg It configures the custom element value to be sent in a location request message. Example: dialplan.emergency.held.request_element3.value = 001565B38ECB dialplan.emergency.held.request_element3.value = 6122d50-c385-4b72-b84a-ce0ca3a77cb7 dialplan.emergency.held.request_element3.value = 8611@ptx yealink.com Note: It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dialplan.emergency.asserted_id_source" is set to 1 (Enabled) and "dialplan.emergency.asserted_id_source" is set to 1 (Enabled) Default<!--</th--><th>Values If it is set to REDSKY, the phone will send the location request message defined by REDSKY Default SIMPLE Parameter dialplan.emergency.held.request_element.X.name^[2] <y00000000xx>.cfg It configures the custom element name to be sent in a location request message.</y00000000xx></th><th></th></y00000000xx>	Values If it is set to REDSKY, the phone will send the location request message defined by REDSKY Default SIMPLE Parameter dialplan.emergency.held.request_element.X.name ^[2] <y00000000xx>.cfg It configures the custom element name to be sent in a location request message.</y00000000xx>			
Default SIMPLE Parameter dialplan.emergency.held.request_elementX.name ^[2] <y000000000xxx.cfg< td=""> It configures the custom element name to be sent in a location request message. Example: dialplan.emergency.held.request_element2.name = mac Description dialplan.emergency.held.request_element2.name = companyID dialplan.emergency.held.request_element3.name = nai Note: It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dialplan.emergency.asserted_id_source" is set to HELD. Permitted String Default Blank Parameter dialplan.emergency.held.request_elementX.value^[2] vy00000000xx>.cfg it configures the custom element value to be sent in a location request message. Example: dialplan.emergency.held.request_element2.value = 001565B38ECB Description dialplan.emergency.held.request_element3.value = 6/2/2d50-c385-4b72-b84a-ce0ca3a77cb7 dialplan.emergency.held.request_element3.value = 6/2/2d50-c385-4b72-b84a-ce0ca3a77cb7 dialplan.emergency.held.request_element3.value = 6/10 pbx.yealink.com Note: It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dialplan.emergency.asserted_id_source" is set to HELD. Permitted String Default Blank Parameter accountX.reg_with_pani_header.</y000000000xxx.cfg<>	Default SIMPLE Parameter dialplan.emergency.held.request_element.X.name ^[2] It configures the custom element name to be sent in a location request message.			
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It configures the custom element name to be sent in a location request message. Example: dialplan.emergency.held.request_element.1.name = mac Description dialplan.emergency.held.request_element.3.name = nai Note: It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dialplan.emergency.asserted_id_source" is set to HELD. Permitted Values Default Blank Parameter dialplan.emergency.held.request_element.X.value ^[2] <vy00000000xx>.cfg It configures the custom element value to be sent in a location request message. 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 'dialplan.emergency.asserted_id_source" is set to HELD. Permitted String Default Blank Parameter acount.X.reg_with_pani_header.enable^[3] values Blank Parameter count.X.invite_with_pani_header.enable^[3] values o</vy00000000xx>	It configures the custom element name to be sent in a location request message.			
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		1-Enabled		
Default 0	Default 0			

^[1] X is from 1 to 3.

^[2] X is from 1 to 255.

^[3]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Hotline

Hotline, sometimes referred to as hot dialing, is a point-to-point communication link in which a call is automatically directed to the preset hotline number. If you lift the handset, press the Speakerphone key or the line key, and do nothing for a specified time interval, the phone will automatically dial out the hotline number. Yealink phones only support one hotline number.

Note: If you do not specify a line, the phone uses the first available line to dial out the hotline number by default. This feature works only if the Off Hook Hot Line Dialing feature is disabled. For more information, refer to Off Hook Hot Line Dialing.

Topic

Hotline Configuration

Hotline Configuration

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

Parameter	features.hotline_number	<y000000000xx>.cfg</y000000000xx>
	It configures the hotline number that the phone automatically dials out when you lift the hand the Speakerphone/off-hook key or the line key. Description Leaving it blank disables hotline feature.	
Description		
	Note : Line key is not applicable to T30P/T30/T19(P) E2/CP920 phones, handset and Speakerphone key are not applicable to CP920 phones; the off-hook key is only applicable to CP920 phones.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features > General Information > Hotline Number	
	Color Screen Phones:	
Phone UI	Menu > Features > Others > Hot Line > Hotline Number	
Filone Of	Black-and-white Screen Phones:	
	Menu > Features > Hot Line > Hotline Number	
Parameter	features.hotline_delay	<y000000000xx>.cfg</y000000000xx>
	It configures the waiting time (in seconds) for the phone to automatically dial out the preset hot number.	
	If it is set to 0 (0s), the phone will immediately dial out the preset hotline number when you lift the handset, press the Speakerphone/off-hook key or press the line key.	
Description	If it is set to a value greater than 0, the phone will wait the designated seconds before dialing out the preset hotline number when you lift the handset, press the Speakerphone/off-hook key or press the line key.	
	Note : Line key is not applicable to T30P/T30/T19(P) E2/CP920 phones, handset and Speakerphone key are not applicable to CP920 phones; the off-hook key is only applicable to CP920 phones.	

Permitted Values	Integer from 0 to 10
Default	4
Web UI	Features > General Information > Hotline Delay(0~10s)
Phone UI	Color Screen Phones:
	Menu > Features > Others > Hot Line > Hotline Delay
	Black-and-white Screen Phones:
	Menu > Features > Hot Line > Hotline Delay

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 lift the handset, press the Speakerphone key or desired line key. 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 lifts the handset, presses the Speakerphone/off-hook key or desired line key. Note : Line key is not applicable to T30P/T30/T19(P) E2/CP920 phones; handset and Speakerphone		
	key are not applicable to CP920 phones; the off-hook key is only applicable to CP920 phones.		
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 lifts the handset, presses the Speakerphone/off-hook key or desired line key. Note : It works only if "account.X.auto_dial_enable" is set to 1 (Enabled). Line key is not applicable to T30P/T30/T19(P) E2/CP920 phones; handset and Speakerphone key are not applicable to CP920 phones; the off-hook key is only applicable to CP920 phones.		
Permitted Values	String within 1024 characters		

|--|

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Live Dialpad

Live Dialpad allows the phones to automatically dial out the entered phone number without pressing the send key after a designated period of time.

Topic

Live Dialpad Configuration

Live Dialpad Configuration

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

Parameter	phone_setting.predial_autodial	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the live dialpad feature.		
Permitted Values	 0-Disabled 1-Enabled, the phone will automatically dial out the entered phone number on the pre-dialing screen without pressing a send key. 		
Default	0		
Web UI	Settings > Preference > Live Dialpad		
Parameter	phone_setting.inter_digit_time <y00000000xx>.cfg</y00000000xx>		
Description	It configures the delay time (in seconds) for the phone to automatically dial out the entered phone number without pressing a send key. Note: It works only if "phone_setting predial_autodial" is set to 1 (Enabled).		
Permitted	Integer from 1 to 14		
Default	4		
Web UI	Settings > Preference > Inter Digit Time (1~14s)		

Auto Redial

You can set the phone automatically redial the last dialed number when the callee is temporarily unavailable. Both the number of attempts and waiting time between redials are configurable.

Topic

Auto Redial Configuration

Auto Redial Configuration

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

Parameter	auto_redial.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to automatically redial the last dialed number when the callee is tem- porarily unavailable.	
Permitted	0-Disabled 1-Enabled	

Values			
Values			
Default	0		
Web UI	Features > General Information > Auto Redial		
	Color Screen Phones:		
Phone UI	Menu > Features > Others > Auto Redial > Auto Redial		
	Black-and-white Screen Phones:		
	Menu > Features > Auto Redial > Auto Redial		
Parameter	auto_redial.interval	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the interval (in seconds) for the phone	to wait between redials.	
-	The phone redials the last dialed number at regula	r intervals untill the callee answers the call.	
Permitted Values	Integer from 1 to 300		
Default	10		
Web UI	Features > General Information > Auto Redial Interval (1~300s)		
	Color Screen Phones:		
Phone UI	Menu > Features > Others > Auto Redial > Redial Interval		
Filone Of	Black-and-white Screen Phones:		
	Menu > Features > Auto Redial > Redial Interval		
Parameter	auto_redial.times	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the auto redial times when the callee is temporarily unavailable.		
	The phone tries to redial the callee as many times	as configured till the callee answers the call.	
Permitted Values	Integer from 1 to 300		
	5		
Default	10		
Default Web UI		es (1~300)	
	10	es (1~300)	
Web UI	10 Features > General Information > Auto Redial Time		
Web UI	10 Features > General Information > Auto Redial Time Color Screen Phones:		
Web UI Phone UI	10 Features > General Information > Auto Redial Time <u>Color Screen Phones:</u> Menu > Features > Others > Auto Redial > Redial ⁻		
Web UI Phone UI	10 Features > General Information > Auto Redial Time <u>Color Screen Phones:</u> Menu > Features > Others > Auto Redial > Redial ⁻ <u>Black-and-white Screen Phones:</u>		
Web UI Phone UI Parameter	10 Features > General Information > Auto Redial Time <u>Color Screen Phones:</u> Menu > Features > Others > Auto Redial > Redial ⁻ <u>Black-and-white Screen Phones:</u> Menu > Features > Auto Redial > Redial Times	Times <y000000000xx>.cfg</y000000000xx>	
Web UI Phone UI Parameter Description	10 Features > General Information > Auto Redial Time <u>Color Screen Phones:</u> Menu > Features > Others > Auto Redial > Redial ⁻ <u>Black-and-white Screen Phones:</u> Menu > Features > Auto Redial > Redial Times features.redial_via_local_sip_server.enable	Times <y000000000xx>.cfg</y000000000xx>	
Web UI Phone UI Parameter Description	10 Features > General Information > Auto Redial Time <u>Color Screen Phones:</u> Menu > Features > Others > Auto Redial > Redial ⁻ <u>Black-and-white Screen Phones:</u> Menu > Features > Auto Redial > Redial Times features.redial_via_local_sip_server.enable It configures the phone to redial via local SIP serve	Times	

Recall Configuration

Recall, also known as last call return, allows you to dial the last received call. Recall is implemented on the phones using a Recall key.

The following shows configuration for a Recall key.

Line Key Configuration	Programmable Key Configuration	
linekey.X.type = 7	programablekey.X.type = 7	
linekey.X.label =Recall	programablekey.X.lype = 7	

After provisioning, a Recall key is available on the phone. When you press the Recall key, the phone places a call to the phone number that last called you.

Related Topics

Line Keys Configuration Programmable Keys Configuration

Speed Dial

Speed dial allows you to speed up dialing the contacts on the phone's idle screen using dedicated DSS keys.

Topic

Speed Dial Key Configuration

Speed Dial Key Configuration

There are two ways to configure a Speed Dial key:

• Manually, configure a line key or programmable key as Speed Dial key.

• Automatically, assign a favorite contact, the phone automatically links the contact to a line key.

The following shows manually configuration for a Speed Dial key.

Scenario Conditions		Related Topic	
local_contact.favorite.enable = 0		Favorite Contacts	
Line Key Configuration	Program	mable Key Config	guration
linekey.X.type = 13	program	ablekey.X.type = 1	2
linekey.X.line = 1		, ,,	3
linekey.X.value = 4603		ablekey.X.line = 1	
linekey.X.label = Bill	program	ablekey.X.value =	4603

After provisioning, a Speed Dial key for Bill (4603) is available on the phone, and you can press the Speed Dial key to call Bill (4603) quickly.

You can configure multiple Speed Dial keys for different contacts which are used frequently or hard to remember. Alternatively, you can use favorite contact feature, and automatically assign Speed Dial keys for favorite contacts.

Related Topics

Line Keys Configuration Programmable Keys Configuration

Password Dial

Password dial feature allows the callee number to be partly displayed on the IP phone when placing a call. The hidden digits are displayed as asterisks on the phone screen. The number in the placed call list is also partly displayed on the IP phone. This feature is especially useful for users who often place important and confidential calls.

Topic

Password Dial Configuration

Password Dial Configuration

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

Daramator	features.password_dial.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to partly display the callee number when placing a call.		
Permitted Values	0-Disabled 1-Enabled		
	0		
Web UI	Features > General Information > PswDial		
Parameter	features.password_dial.prefix	<y000000000xx>.cfg</y000000000xx>	
	It configures the prefix that the number starts with this prefix will be partially displayed.		
	Example:		
Description	features.password_dial.prefix = 12		
	Note: It works only if "features.password_dial.enable" is set to 1 (Enabled).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > General Information > PswPrefix		
Parameter	features.password_dial.length <y00000000xx>.cfg</y00000000xx>		
	It configures how many digits to be displayed as asterisks.		
	Example:		
Description	features.password_dial.length = 3		
•	If you set the prefix to 12 and the length to 3, when you want to dial the number 123456, the entered number is displayed as 12***6 on the phone screen.		
	Note : It works only if "features.password_dial.enable" is set to 1 (Enabled).		
Permitted Values	Integer from 0 to 32		
Default	Blank		
Web UI	Features > General Information > PswLength		

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>
Description	It configures the duration time (in seconds) in the ri If it is set to 180, the phone will cancel the dialing if	5
Permitted Values	Integer from 1 to 3600	
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	
Phone UI	Menu > Features > Anonymous Call > Local Anonymous	
Parameter	account.X.send_anonymous_code ^[1] <mac>.cfg</mac>	
Description	It configures the phone to send anonymous on/off code to activate/deactivate the server-side anonym- ous call feature for a specific account.	
Permitted Values	 0-Off Code, the phone will send anonymous off code to the server when you deactivate the anonymous call feature. 1 On Code, the phone will cond anonymous on code to the conver when you activate the anonymous off code to the convertex. 	
	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	
Phone UI	Menu > Features > Anonymous Call > Send Anonymous Code (Send Anony Code)	
Parameter	account.X.anonymous_call.server_base_only ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to perform the anonymous call feature on server-side only.	

Note : You need to configure parameters "account.X.anonymous_call_oncode" and "accoun- t.X.anonymous_call_offcode" to activate and deactivate the server-side anonymous call feature.	
 0-Disabled, the phone will perform the anonymous call feature on server-side and locally. If the anonymous call feature is enabled on the phone, the phone will carry the Anonymous attribute in the From header of the INVITE message. 1-Enabled, the phone will perform the anonymous call feature on server-side only. The phone will not carry the Anonymous attribute in the From header of the INVITE message even if the anonymous call feature is enabled on the phone. 	
Blank	
account.X.anonymous_call_oncode ^[1] <mac>.cfg</mac>	
It configures the anonymous call on code. The phone will send the code to activate the anonymous call feature on server-side when you activate it on the phone.	
String within 32 characters	
Blank	
Account > Basic > Send Anonymous Code > On Code	
Menu > Features > Anonymous Call > On Code	
account.X.anonymous_call_offcode ^[1] <mac>.cfg</mac>	
It configures the anonymous call off code. The phone will send the code to deactivate the anonymous call feature on server-side when you deac- tivate it on the phone.	
String within 32 characters	
Blank	
Account > Basic > Send Anonymous Code > Off Code	
Menu > Features > Anonymous Call > Off Code	

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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>
	ription 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.	
	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 automatically filter any characters when dialing.	
Permitted Values	String within 99 characters	
Default	0	
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	It enables or disables to allow IP address call.		
	Note: If you want to receive an IP address call, make sure "sip.trust_ctrl" is set to 0 (Disabled).		
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Web UI	Features > General Information > Allow IP Call		

Ignoring Incoming Calls

By default, when a phone receives an incoming call, the phone screen prompts the incoming call information. You should handle the incoming call first before performing other features. For example, you should handle the incoming call when there is an active call in progress, otherwise, you cannot hold or set up a conference on the current call.

You can configure the phone to ignore an incoming call. The incoming call is still in the progress and is not rejected, you can choose to answer it or not, or perform other features.

When the phone receives an incoming call in the idle state, the screen prompts the incoming call information.

- To ignore the call, and initial a new call, pick up the handset, press the Speakerphone key or HEADSET key, press keypad or other line keys.
- To answer the incoming call, press the corresponding line key, the Answer soft key or the OK key.

When the phone receives an incoming call in the call state, the screen does not prompt the incoming call information. You can perform other features on the current call. You can only answer the incoming call after ending the current call.



Ignoring incoming call is enabled. Ignoring incoming call is disabled.

Topic

Ignoring Incoming Calls Configuration

Ignoring Incoming Calls Configuration

The following table lists the parameter you can use to configure ignoring incoming calls.

Parameter	features.ignore_incoming_call.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to ignore the incoming call.	
Permitted Values	 0-Disabled 1-Enabled, the incoming call is still in the progress and is not rejected, the user can choose to answer it or not, or perform other features. 	
Default	0	

Off Hook Answering

You can set whether to answer an incoming call by picking up the handset, pressing the Speakerphone key or pressing the HEADSET key directly.

It is not applicable to CP920 phones.

Topic

Off Hook Answering Configuration

Off Hook Answering Configuration

The following table lists the parameter you can use to configure off hook answering.

Parameter	features.off_hook_answer.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the phone to answer an incoming call by picking up the handset, pressing the Speakerphone key or pressing the HEADSET key directly.	
Permitted	 0-Disabled, the user needs to press the corresponding line key, the Answer soft key or the OK key to answer an incoming call after picking up the handset, pressing the Speakerphone key or pressing the HEADSET key. 1-Enabled 	
Default	1	
Supported Devices	All phones except CP920	

Auto Answer

Yealink phones support answering a SIP call or an IP address call automatically. Auto answer is configurable on a per-line basis, while IP address call is not.

By default, the phones will not automatically answer the incoming call during a call or while dialing even if the auto answer is enabled; and the incoming call will not be automatically answered after you end the current call or cancel the dialing. You can configure how the phone answers the call automatically.

Topic

Auto Answer Configuration

Auto Answer Configuration

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

Parameter	account.X.auto_answer ^[1]	<mac>.cfg</mac>
Description	It enables or disables auto answer a SIP call. Note: The phone cannot automatically answer the incoming call during a call or while dialing even if the auto answer is enabled.	
	0-Disabled 1-Enabled, the phone can automatically answer an incoming call.	
Default	0	
Web UI	Account > Basic > Auto Answer	
Phone UI	Color Screen Phones: Menu > Features > Auto Answer > Line X > Auto Answer Black-and-white Screen Phones: Menu > Features > Auto Answer > Status	
Parameter	account.X.auto_answer_mute_enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the auto answer mute feature. Note : It works only if the values of parameters "account.X.auto_answer" and "features.allow_mute" are set to 1 (Enabled). The value configured by this parameter takes precedence over that configured by the parameter "features.mute.autoanswer_mute.enable".	
	 0-Disabled 1-Enabled, the phone will mute the microphone when an incoming call is automatically answered, and then the other party cannot hear you. 	
Default	0	
Web UI	Account > Basic > Auto Answer Mute	
Phone UI	Menu > Features > Auto Answer > Account 1 > Auto Answer (On) > Auto Answer Mute	
Parameter	features.ip_call.auto_answer.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the auto answer feature for IP call. Note : It works only if "features.direct_ip_call_enable" is set to 1 (Enabled). The phone cannot auto- matically answer the incoming IP call when the IP phone is in a call or dialing even if IP call auto answer is enabled.	
Permitted	0-Disabled	

Values	1-Enabled, the phone can automatically answer the IP call.	
Default	0	
Web UI	Features > General Information > IP Direct Auto Answer	
Parameter	features.auto_answer.first_call_only	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to only automatically answer the incoming call when the phone is idle.	
Permitted Values	 0-Disabled. If there is an incoming call arrived when the phone is in a call or dialing, the phone will automatically answer after you end the current call or cancel the dialing. 1-Enabled. The phone can only automatically answer the incoming call arrived when the phone is idle. If there is an incoming call arrived when the phone is in a call or dialing, you have to manually pick up the incoming call. 	
Default	1	
Parameter	features.auto_answer_delay	<y000000000xx>.cfg</y000000000xx>
Description	It configures the delay time (in seconds) before the phone automatically answers an incoming call. Note : For the call coming from a SIP account, it works only if "account.X.auto_answer" is set to 1 (Enabled).	
Permitted Values	T48G/T46G/T42G/T41P/T29G: Integer from 1 to 4 <u>Other Phones:</u> Integer from 1 to 60	
Default	1	
Web UI	Features > General Information > Auto Answer Del	ау
Parameter	features.auto_answer_tone.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to play a warning tone when an incoming call is automatically answered. Note : For the call coming from a SIP account, it works only if "account.X.auto_answer" is set to 1 (Enabled).	
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI		
Parameter	features.auto_answer.ring_type <pre></pre>	
Description	It configures a ring tone the phone plays before the incoming call is automatically answered. Note : It works only if "features.auto_answer_tone.enable" is set to 1 (Enabled).	
Permitted Values	0 (beep tone) Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) For T3 phones:	

	Bing1 way Bing2 way Bing3 way Bing4 way Sile	ent way. Splash way or custom ring tone name (for
	Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav)	
Default	0	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	
Parameter	features.custom_auto_answer_tone.enable	<y000000000xx>.cfg</y000000000xx>
Description	It configures the type of auto answer tone.	
Description	Note: It works only if "features.auto_answer_tone.e	nable" is set to 1 (Enabled).
Permitted	0-One beep	
Values	1-Double beep	
Default	1	
Parameter	features.mute.autoanswer_mute.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the auto answer mute feature).
Description	Note : It works only if "account.X.auto_answer" and not available to the intercom call.	"features.allow_mute" are set to 1 (Enabled). It is
Permitted	0-Disabled	
Values	1-Enabled, the phone will mute the microphone wh and then the other party cannot hear you.	en an incoming call is automatically answered,
Default	0	
Parameter	pstn.account.X.auto_answer ^[2]	<mac>.cfg</mac>
	It enables or disables the auto answer feature for P	STN account X.
Description	Note: The IP phone cannot automatically answer th	ne incoming call during a call even if the auto
	answer is enabled. 0- Disabled	
Permitted Values		
	1-Enabled, the phone can automatically answer ar	incoming call.
Default	0	
Supported Devices	CP920	
Web UI	Account > Basic > Auto Answer	
Phone UI	Menu > Features > Auto Answer > Status	
Parameter	pstn.account.X.auto_answer_mute_enable ^[2]	<mac>.cfg</mac>
	It enables or disables the auto answer mute feature for PSTN account X.	
Description	Note: It works only if the values of parameters "pstn.account.X.auto_answer" and "features.allow_ mute" are set to 1 (Enabled).	
Permitted	0-Disabled	
Values	1-Enabled, the phone will mute the microphone when an incoming call is automatically answered, and then the other party cannot hear you.	
Default	0	
Supported Devices	CP920	

Web UI	Account > Basic > Auto Answer Mute
Phone UI	Menu > Features > Auto Answer > Auto Answer Mute

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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

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 "Anonymity Disallowed". 	
Default	0	
Web UI	Account > Basic > Local Anonymous Rejection	
Phone UI	Menu > Features > Anonymous Call > Local Anonymous Rejection	
Parameter	features.anonymous_response_code	<y000000000xx>.cfg</y000000000xx>
Description	It configures the code the phone responds with to the server when it receives an anonymous call. Note: It works only if "account.X.reject_anonymous_call" is set to 1 (On).	
Permitted Values	Integer from 0 to 65535	
Default	433	
Parameter	account.X.anonymous_reject_oncode ^[1]	<mac>.cfg</mac>
Description	It configures the anonymous call rejection on code. 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			
Phone UI	Menu > Features > Anonymous Call > Send Reject	ion 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			
Phone UI	Menu > Features > Anonymous Call > Send 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			
Phone UI	Menu > Features > Anonymous Call > Send Rejection Code > Off Code			

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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	It enables or disables the call waiting feature.		
Permitted Values	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		
Phone UI	Menu > Features > Call Waiting > Call Waiting		
Parameter	call_waiting.tone <y0< th=""><th>00000000xx>.cfg</th></y0<>	00000000xx>.cfg	
Description	It enables or disables the phone to play the call waiting call during a call.	tone when the phone receives an incoming	
	Note: It works only if "call_waiting.enable" is set to 1 (E	nabled).	
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Features > Audio > Call Waiting Tone		
Phone UI	Menu > Features > Call Waiting > Play Tone		
Parameter	call_waiting.on_code <y0< th=""><th>00000000xx>.cfg</th></y0<>	00000000xx>.cfg	
	It configures the call waiting on code.		
Description	n 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 Code	e	
Phone UI	Menu > Features > Call Waiting > On Code		
Parameter	call_waiting.off_code <y00000000xx>.cfg</y00000000xx>		
	It configures the call waiting off code.		
Description	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		
Default	Blank		
Web UI	Features > General Information > Call Waiting Off Code		
Phone UI	Menu > Features > Call Waiting > Off Code		

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.

Usually, you can activate DND when the phone is idle. The phone stays in the DND state until you deactivate DND manually.

You can also temporarily activate DND during calls, the new incoming calls are rejected automatically. After ending the call, the DND is deactivated automatically. It prevents from interrupting during current calls and avoids missing calls after calls end.

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, DND soft key is not available, the users have no permission to configure DND on their phone.
- Choose a DND mode. You can configure DND for all lines or specific lines.
- Enable or disable the phone to persist DND state across calls when activating DND during calls. If disabled, the DND is automatically deactivated after calls end.
- Enable or disable DND emergency feature and specify DND authorized numbers. These numbers will not be DND when the DND feature is enabled. The incoming call will not be logged in the Missed Calls list.
- 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.
- Allow or disallow the IP phone to display a large DND icon on the idle screen. It helps users to clearly view that DND is activated.

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_mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the DND mode for the IP phone. Note : It works only if "features.dnd.allow" is set to 1 (Enabled).		
Permitted	0-Phone, DND feature is effective for the phone system.		
Values	1-Custom, you can configure the DND feature for each or all accounts.		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Features > Forward&DND > DND > Mode		
Parameter	features.keep_dnd.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It configures if the DND state persists between calls after you activate DND during the call.		
	Note: To activate DND during the call, you need to configure a DND key in advance.		
Permitted	0-DND state is automatically deactivated after the call.		
Values	1-DND state persists across calls. The phone stays in the DND state until you deactivate the DND		

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

	manually.		
Default	1		
Supported Devices	All phones except CP920		
Parameter	features.dnd.emergency_enable <	:y000000000xx>.cfg	
Description	It enables or disables the phone to receive incoming calls from authorized numbers when the Df feature is enabled. n Note : The authorized numbers are configured by the parameter "features.dnd.emergency_autho		
	ized_number". It works only if "features.dnd.allow" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Features > Forward&DND > DND > DND Emergency		
Parameter	features.dnd.emergency_authorized_number <	:y000000000xx>.cfg	
	It configures the authorized numbers the phone can receive incoming calls from even if DND feature is activated.		
	Multiple numbers are separated by commas.		
Description	Example:		
	features.dnd.emergency_authorized_number = 123,124		
	Note: It works only if "features.dnd.allow" and "features.dnd.emergency_enable" are set to 1 (Enabled).		
Permitted Values	String within 511 characters		
Default	Blank		
Web UI	Features > Forward&DND > DND > DND Authorized	Numbers	
Parameter	features.dnd_refuse_code <	y000000000xx>.cfg	
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).		
	404-Not Found		
	480-Temporarily Unavailable		
Permitted Values	486 -Busy Here, the caller's phone screen will display the reason "Busy Here" when the callee enables DND feature.		
	600-Busy Everywhere		
	603-Decline		
Default	480		
Web UI	Features > General Information > Return Code When DND		
Parameter	features.dnd.large_icon.enable <	:y000000000xx>.cfg	
Description	It enables or disables the phone to display a large DND icon on the idle screen.		
Description	Note: It works only if "features.dnd.allow" is set to 1 (Enabled).		

Permitted	0-Disabled
Values	1-Enabled
Default	0

DND Feature Configuration

After you choose a DND mode, you can configure the DND feature for all lines or a specific line. It depends on the DND mode (except T30P/T30/T19(P) E2/CP920):

- Phone (default): DND feature is effective for all lines.
- Custom: DND feature can be configured for a specific line or multiple lines.

Note: DND mode is set by the parameter "features.dnd_mode".

Yealink phones also support DND on code and off code to activate and deactivate server-side DND feature. They may vary on different servers.

Topics

DND in Phone Mode Configuration DND in Custom Mode Configuration

DND in Phone Mode Configuration

The following table lists the parameters you can use to configure DND in Phone mode.

Parameter	features.dnd.enable	<y000000000xx>.cfg</y000000000xx>	
Description	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 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).		
Permitted Values	0-Off 1-On, the phone will reject incoming calls on all accounts.		
Default	0		
Web UI	Features > Forward&DND > DND > DND Status		
Phone UI	Menu > Features > DND > DND Status		
Parameter	features.dnd.on_code	<y000000000xx>.cfg</y000000000xx>	
Description Permitted	It configures the DND on code to activate the server-side DND feature. 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 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).		
Values	String within 32 characters		
Default	Blank		
Web UI	Features > Forward&DND > DND > On Code		
Phone UI	Menu > Features > DND > On Code		
Parameter	features.dnd.off_code	<y000000000xx>.cfg</y000000000xx>	
Description	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 0		

	(Phone) (except T30P/T30/T19(P) E2/CP920 phones).
Permitted Values	String within 32 characters
Default	Blank
Web UI	Features > Forward&DND > DND > Off Code
Phone UI	Menu > Features > DND > Off Code

DND in Custom Mode Configuration

The following table lists the parameters you can use to configure DND in Custom mode.

Parameter	account.X.dnd.enable ^[1]	<mac>.cfg</mac>
Description	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	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920	
Web UI	Features > Forward& DND > DND > AccountX > DND Status	
Phone UI	Menu > Features > DND > AccountX > DND Status	
Parameter	account.X.dnd.on_code ^[1]	<mac>.cfg</mac>
Description	It configures the DND on code to activate the server-side DND feature. 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	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920	
Web UI	Features > Forward& DND > DND > AccountX > On Code	
Phone UI	Menu > Features > 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.	
Description	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 1 (Custom).	
Permitted Values	String within 32 characters	

Default	Blank
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920
Web UI	Features > Forward& DND > DND > AccountX > Off Code
Phone UI	Menu > Features > DND > AccountX > Off Code

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.			
Fernilleu	0-Disabled			
Values	1-Enabled, the phone sends a SUBSCRIBE message with event "as-feat	ure-event".		
Default	0			
Parameter	account.X.feature_key_sync.enable ^[1]	<mac>.cfg</mac>		
Description	It enables or disables to synchronize the feature status between the IP ph account X.	one and the server for		
Description	Note : The value configured by this parameter takes precedence over that configured by the parameter takes precedence over takes pr			
Permitted	0-Disabled			
Values	1-Enabled, the phone to send a SUBSCRIBE message with event "as-feature-event".			
Default	0			
Supported Devices	All phones except T48G, T46G, T42G, T41P, T29G and CP920			
Parameter	features.dnd.feature_key_sync.enable	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the DND feature synchronization.			
Description	Note: It works only if "features.feature_key_sync.enable" is set to 1 (Enabled).			
Permitted	 0-Disabled 1-Enabled, server-based DND is enabled. Server and local phone DND are synchronized. 			
Values				
Default	1			
Supported Devices	All phones except CP920			
Parameter	account.X.dnd.feature_key_sync.enable ^[1] <mac>.cfg</mac>			

	It enables or disables the DND feature synchronization for account X.		
Descriptior	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).		
Permitted Values	 0-Disabled 1-Enabled, server-based DND is enabled. Server and local phone DND are synchronized. 		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T29G and CP920		
Parameter	features.dnd.feature_key_sync.local_processing.enable	<y000000000xx>.cfg</y000000000xx>	
Descriptior Permitted	It enables or disables the local DND when DND feature synchronization is enabled. Note: It works only if "features.feature_key_sync.enable" and "features.dnd.feature_key_sync.enable" are set to 1 (Enabled). The value configured by the parameter "account.X.features.dnd.feature_key_ sync.local_processing.enable" takes precedence over that configured by this parameter. O-Disabled, DND is performed on the server side only.		
Values	1-Enabled, DND is performed on both the server side and locally.		
Default	0		
Parameter	account.X.features.dnd.feature_key_sync.local_processing.enable ^[1]	<mac>.cfg</mac>	
Descriptior	It enables or disables the local DND when DND feature synchronization is enabled. Note: It works only if "features.feature_key_sync.enable" and "features.dnd.feature_key_sync.enable" are set to 1 (Enabled).		
Permitted Values	0-Disabled, DND is performed on the server side only.1-Enabled, DND is performed on both the server side and locally.		
Default	· · · · · · · · · · · · · · · · · · ·		
	1-Enabled, DND is performed on both the server side and locally. Blank		

Multiple Call Appearances

You can enable each registered line to support multiple concurrent calls. For example, you can place one call on hold, switch to another call on the same registered line, and have both calls displayed.

You can set the maximum number of concurrent calls per line key on all-lines basis or a per-line basis. For example, if you specify 3 concurrent-calls for account 1, you can only have three call appearances on a corresponding line key. The additional incoming calls will be rejected.

Note: The number of concurrent calls applies to all line keys. For example, if three line keys are associated with an account, you can have three call appearances per line key.

Topic

Multiple Call Appearances Configuration

Multiple Call Appearances Configuration

You can specify the maximum concurrent calls per line key.

The following table lists the parameters you can use to configure multiple call appearances.

Parameter	phone_setting.call_appearance.calls_per_linekey	<y000000000xx>.cfg</y000000000xx>	
	It configures the maximum number of concurrent calls per line key for all registered lines.		
	If it is set to 0, there is no limit for the number of concurrent calls.		
	Example:		
Description	phone_setting.call_appearance.calls_per_linekey = 2		
	It means that you can have up to two concurrent calls per line key on th	ne IP phone.	
	Note : The value configured by the parameter "account.X.phone_setting.call_appearance.calls_pe linekey" takes precedence over that configured by this parameter.		
Permitted Values	Integer from 0 to 24		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	account.X.phone_setting.call_appearance.calls_per_linekey ^[1] <mac>.cfg</mac>		
	It configures the maximum number of concurrent calls per line key for a specific line.		
	If it is set to 0, there is no limit for the number of concurrent calls.		
	Example:		
Description	naccount.1.phone_setting.call_appearance.calls_per_linekey = 2		
	It means that you can have up to two concurrent calls per line key associated with account 1.		
	Note : The value configured by this parameter takes precedence over that configured by the parameter "phone_setting.call_appearance.calls_per_linekey".		
Permitted Values	Integer from 0 to 24		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

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).

When you place an active call on hold or the call is held by remote parry, a call hold tone or held tone alerts you after a specific period of time that a call is still on hold or is still held by the remote party. You can configure the call hold tone and held tone.

If supported by the server, you can also configure a music-on-hold URI.

Topics

Call Hold Configuration Music on Hold (MoH) 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.	
Permitted Values	 0-Disabled, SDP media direction attributes (such as a=sendonly) per RFC 3264 is used when placing a call on hold. 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 out Note : It works only if "sip.rfc2543_hold" is set to 0 (I	
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	
Parameter	features.play_hold_tone.enable <y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to play the call hol	d tone when you place a call on hold.
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Features > General Information > Play Hold Tone	
Parameter	features.play_hold_tone.delay	<y000000000xx>.cfg</y000000000xx>
	It configures the time (in seconds) to wait for the ph	one to play the initial call hold tone.
Description	If it is set to 30 (30s), the phone will wait 30 seconds to play the initial call hold tone after you place a call on hold.	
	Note: It works only if "features.play_hold_tone.enable" is set to 1 (Enabled).	
Permitted Values	Integer from 3 to 3600	
Default	30	
Web UI	Features > General Information > Play Hold Tone Delay	
Parameter	features.play_hold_tone.interval	<y000000000xx>.cfg</y000000000xx>
	It configures the time (in seconds) between subsequent call hold tones.	
Description	Dn If it is set to 3 (3s) and "features.play_hold_tone.delay" is set to 30 (30s), the phone will begin to hold tone after you place a call on hold for 30 seconds, and repeat the call hold tone every 3 seconds.	

	Note : It works only if "features.play_hold_tone.enable" is set to 1 (Enabled).	
Permitted		
Values	Integer from 3 to 3600	
Default	30	
Web UI	Features > General Information > Hold Tone Interva	al(second)
Parameter	features.play_held_tone.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to play the call he	d tone when a call is held by the other party.
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Web UI	Features > General Information > Play Held Tone	
Parameter	features.play_held_tone.delay	<y000000000xx>.cfg</y000000000xx>
	It configures the time (in seconds) to wait for the ph	one to play the initial call held tone.
Description	If it is set to 30 (30s), the phone will wait 30 second by the other party.	s to play the initial call held tone after you are held
	Note : It works only if the Music on Hold feature is disabled and "features.play_held_tone.enable" is set to 1 (Enabled).	
Permitted Values	Integer from 3 to 3600	
Default	30	
Web UI	Features > General Information > Play Held Tone I	Delay
Parameter	features.play_held_tone.interval	<y000000000xx>.cfg</y000000000xx>
	It configures the time (in seconds) between subseq	uent call held tones.
Description	If it is set to 3 (3s) and "features.play_held_tone.delay" is set to 30 (30s), the phone will begin to play a held tone after a call is held by the other party for 30 seconds, and repeat the call held tone every 3 seconds.	
	Note: It works only if the Music on Hold feature is disabled and "features.play_held_tone.enable" is set to 1 (Enabled).	
Permitted Values	Integer from 3 to 3600	
Default	60	
Web UI	Features > General Information > Held Tone Interval(second)	
Parameter	phone_setting.hold_or_swap.mode	<y000000000xx>.cfg</y000000000xx>
Description	Note : You can also configure the softkey layout feature to display the Hold or Swap soft key.	
Permitted	0 -Only display the Swap soft key.	
Values	1-Only display the Hold soft key.	
	2-Display the Hold and Swap soft keys.	
Default	0	

Music on Hold (MoH) Configuration

When a call is placed on hold, the phone will send an INVITE message to the specified MoH server account according to the SIP URI. The MoH server account automatically responds to the INVITE message and immediately plays audio from some source located anywhere (LAN, Internet) to the held party. For more information, refer to draft RFC draft-worley-service-example.

The following table lists the parameters you can use to configure music on hold.

Parameter	account.X.music_server_uri ^[1]	<mac>.cfg</mac>
	It configures the address of the Music On Hold server.	
Description	<pre>n Examples for valid values: <10.1.3.165 > , 10.1.3.165, sip:moh@sip.com, <sip:moh@sip.com> , <yealink.com> or yealink.com.</yealink.com></sip:moh@sip.com></pre>	
	Note: The DNS query in this parameter only suppo	rts A query.
Permitted Values	SIP URI within 256 characters	
Default	Blank	
Web UI	Account > Advanced > Music Server URI	
Parameter	account.X.music_on_hold_type ^[1] <mac>.cfg</mac>	
Description	It configures the way to process Music On Hold when placing an active call on hold.	
Permitted	0-Calling the Music On Hold server before holding the call	
Values	1-Calling the Music On Hold server after holding the call	
Default	0	

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Call Mute

You can mute the microphone of the active audio device (handset, headset or speakerphone) on Yealink phones during an active call or when the phone is on the pre-dialing/dialing/calling/ringing screen. The call is automatically muted when setting up successfully. Muting before a call is answered prevents the other party from hearing the local discussion.

You can activate the mute feature by pressing the MUTE key. Normally, the mute feature is automatically deactivated when the active call ends. You can use keep mute feature to keep the mute state persisting across the calls.

Note: Muting microphone on the pre-dialing/dialing/calling/ringing screen is not available on T23P/T23G/T21(P) E2 phones when the keep mute feature is disabled.

Topics

Microphone Mute Configuration Keep Mute Mute Alert Tone

Microphone Mute Configuration

The following table lists the parameter you can use to configure the microphone mute feature.

Parameter	features.allow_mute	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the allow mute feature for the IP phone. Note : For T23P/T23G/T21(P) E2 phones, you are allowed to activate the mute feature on the pre-dial- ing/dialing/calling/ringing screen only if "features.keep_mute.enable" is set to 1 (Enabled).	
Permitted	 0-Disabled 1-Enabled, you are allowed to mute an active call or activate the mute feature on the pre-dial- ing/dialing/calling/ringing screen. (Mute the microphone on the calling screen is only applicable to the T57W/T53W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T33P/T33G/T29G phones). 	
Default	1	
Web UI	Features > General Information > Allow Mute	

Keep Mute

Keep mute, also known as persistent mute, allows you to keep the mute state persisting across calls.

In a call center or meet room, if incoming calls are answered automatically, the callers may hear the local discussion. Therefore, you can mute the phone in an idle state to prevent the unintended situation. The mute state persists across calls until you unmute the microphone manually or until the phone restarts.

You can activate the mute feature by pressing the MUTE key in idle/pre-dialing/dialing/ringing/calling/talking state.

Note: For T23P/T23G/T21(P) E2 phones, the Cancel key (X key) can be used to cancel actions, reject incoming calls, mute/un-mutes calls or activate the mute feature. If keep mute feature is enabled, the Cancel key can only be used as a mute key.

Topic

Keep Mute Configuration

Keep Mute Configuration

The following table lists the parameter you can use to enable or disable keep mute.

Parameter	features.keep_mute.enable	<y000000000xx>.cfg</y000000000xx>	
It configures the keep mute feature.			
Description	Note: It works only if "features.allow_mute" is set to 1 (Enabled).		
Permitted	0-The mute feature is automatically deactivated when the active call ends.		
Values	1-The mute state is kept until you change the mute state manually or the phone restarts.		
Default	0 (for other phones)		
Deladit	1 (for CP920)		

Mute Alert Tone

You can configure the phone to play an audible tone if the mute status of the phone is changed. This allows you to know if your phone is in the mute or un-mute state. In addition, you can set a periodic reminder which plays the audible tone periodically when the phone is in the mute state. The time interval must not be less than 3 seconds.

It is only applicable to CP920 phones.

Topic

Mute Alert Tone Configuration

Mute Alert Tone Configuration

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

Parameter	features.play_mute_tone.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to play an audible tone when the mute status is changed.	
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	
Supported Devices	CP920	
Parameter	features.play_mute_tone.interval	<y000000000xx>.cfg</y000000000xx>
Description	It configures time interval (in seconds) for playing an audible tone when the phone is in the mute state during the call.	
Permitted Values	Integer from 3 to 3600	
Default	5	
Supported Devices	CP920	

Call Forward

You can forward calls from any line on your phone to a contact. There are two ways of forwarding your calls:

• 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.

You can set the phone not to forward a call coming from authorized numbers.

• Manually forward an incoming call to a number.

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.
- Choose a call forward mode. You can configure call forward for all lines or specific lines.
- Allow or disallow users to forward an incoming call to an international telephone number (the prefix is 00).
- Enable or disable forward emergency feature and specify forward authorized numbers. These numbers will not be forwarded when the call forward feature is enabled. The incoming call will not be logged in the Forwarded Calls list.
- 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	features.fwd_mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures the call forward mode.	
Description	Note: It works only if "features.fwd.allow" is set to 1 (Enabled).	
Permitted	0-Phone, call forward feature is effective on a phone basis.	
Values	1-Custom, you can configure call forward feature o	n a per-line basis.
Default	0	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0
Web UI	Features > Forward&DND > Forward > Mode	
Parameter	features.forward.emergency.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to receive the call ture is activated.	from authorized numbers when the call forward fea-
	Note: It works only if "features.fwd.allow" is set to 1	(Enabled).
Permitted	0-Disabled	
Values	1-Enabled, the call from authorized numbers will not be forwarded when the call forward feature is activated.	
Default	0	
Web UI	Features > Forward&DND > Forward > Forward Emergency	
Parameter	features.forward.emergency.authorized_number	<y000000000xx>.cfg</y000000000xx>
	It configures the authorized numbers.	
	The call from the authorized numbers cannot be forwarded even if the call forward feature is activated.	
Description	Multiple numbers are separated by commas.	
	Note : It works only if "features.fwd.allow" and "featu (Enabled).	res.forward.emergency.enable" are set to 1
Permitted Values	String within 511 characters	
Default	Blank	
Web UI	Features > Forward&DND > Forward > Forward Au	thorized Numbers
Parameter	forward.international.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to forward incomir	ng calls to international numbers (the prefix is 00).
	Note: It works only if "features.fwd.allow" is set to 1	(Enabled).
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Features > General Information > Fwd International	
	Color Screen Phones:	
Phone UI		

	Menu > Settings > Advanced Settings (default password: admin) > FWD International > FWD Inter- national	
Parameter	forward.idle_access_always_fwd.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to always enter the Always Forward setting screen when pressing the Forward key on the Idle screen.	
Permileo	 0-Disabled. When pressing the Forward key, the phone may activate/deactivate the call forward or enter the Always Forward/Busy Forward/No Answer Forward setting screen. 1-Enabled 	
Default	0	
Parameter	features.fwd_diversion_enable	<y000000000xx>.cfg</y000000000xx>
Deccrintion	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	

Call Forward Feature Configuration

After you choose a call forward mode, you can configure call forward feature for all lines or specific lines. It depends on the call forward mode (T30P/T30/T19(P) E2/CP920 except):

- Phone (default): Call forward feature is effective for all lines.
- Custom: Call forward feature can be configured for a specific line or multiple lines.

Note: Forward mode is set by the parameter "features.fwd_mode".

Yealink phones also support call forward on code and off code to activate and deactivate server-side call forward feature. They may vary on different servers.

Tip: You can set a DSS key as a Forward key, and specify a contact you want to forward the incoming calls to for this key. For more information, refer to DSS Keys.

Topics

Call Forward in Phone Mode Configuration Call Forward in Custom Mode Configuration

Call Forward in Phone Mode Configuration

The following table lists the parameters you can use to configure call forward in phone mode.

Parameter	forward.always.enable	<y000000000xx>.cfg</y000000000xx>
Description	It triggers the always forward feature to on or off on Note : It works only if "features.fwd.allow" is set to 1 (Phone) (except T30P/T30/T19(P) E2/CP920 phone	(Enabled) and "features.fwd_mode" is set to 0
Permitted Values	 0-Off 1-On, incoming calls are forwarded to the destination ward.always.target") immediately. 	on number (configured by the parameter "for-

) Features > Forward&DND > Forward > Always Forv	uard - On/Off	
	Features > Forward&DND > Forward > Always Forv	Nord - Op/Off	
Phone UI		waru > Un/Uli	
	Menu > Features > Call Forward > Always Forward	> Always Forward	
Parameter for	forward.always.target	<y000000000xx>.cfg</y000000000xx>	
	t configures the destination number of the always f	-	
Description (Note : It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).		
Permitted Values	String within 32 characters		
Default E	Blank		
Web UI F	Features > Forward&DND > Forward > Always For	ward > Target	
Phone UI	Menu > Features > Call Forward > Always Forward	> Forward to	
Parameter for	orward.always.on_code	<y000000000xx>.cfg</y000000000xx>	
11	It configures the always forward on code to activate the server-side always forward feature.		
Description fi	The phone will send the always forward on code and the pre-configured destination number (con- figured by the parameter "forward.always.target") to the server when you activate always forward fea- ture on a phone basis.		
(Note : It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).		
Permitted Values	String within 32 characters		
Default E	Blank		
Web UI F	Features > Forward&DND > Forward > Always For	ward > On Code	
Phone UI	Menu > Features > Call Forward > Always Forward	> On Code	
Parameter for	orward.always.off_code	<y000000000xx>.cfg</y000000000xx>	
1	t configures the always forward off code to deactive	ate the server-side always forward feature.	
	The phone will send the always forward off code to feature on a phone basis.	the server when you deactivate always forward	
(Note : It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).		
Permitted Values	String within 32 characters		
Default E	Blank		
Web UI F	Features > Forward&DND > Forward > Always Forward > Off Code		
Phone UI	Menu > Features > Call Forward > Always Forward > Off Code		
Parameter for	orward.busy.enable	<y000000000xx>.cfg</y000000000xx>	
11	t triggers the busy forward feature to on or off on a	phone basis.	
Description N	Note : It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).		
Permitted 0	0-Off		

[]	1 On incoming calls are forwarded to the destination	on number (configured by the noremeter "for	
values	1-On, incoming calls are forwarded to the destination number (configured by the parameter "for- ward.busy.target") when the callee is busy.		
Default (0		
Web UI F	Features > Forward&DND > Forward > Busy Forwa	rd > On/Off	
Phone UI	Menu > Features > Call Forward > Busy Forward >	Busy Forward	
Parameter f	orward.busy.target	<y000000000xx>.cfg</y000000000xx>	
	It configures the destination number of the busy forward on a phone basis.		
Description (Note : It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).		
Permitted Values	String within 32 characters		
Default E	Blank		
Web UI F	Features > Forward&DND > Forward > Busy Forwa	rd > Target	
Phone UI	Menu > Features > Call Forward > Busy Forward >	Forward to	
Parameter f	forward.busy.on_code	<y000000000xx>.cfg</y000000000xx>	
li	t 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 (configured by the parameter "forward.busy.target") to the server when you activate the busy forward feature on a phone basis. Note : It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).		
Permitted Values	String within 32 characters		
Default E	Blank		
Web UI F	Features > Forward&DND > Forward > Busy Forwa	rd > On Code	
Phone UI	Menu > Features > Call Forward > Busy Forward >	On Code	
Parameter f	forward.busy.off_code	<y000000000xx>.cfg</y000000000xx>	
li	t configures the busy forward off code to deactivate	e the server-side busy forward feature.	
	The phone will send the busy forward off code to the server when you deactivate the busy forward fea- ture on a phone basis.		
(Note : It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).		
Permitted Values	String within 32 characters		
Default E	Blank		
Web UI F	Features > Forward&DND > Forward > Busy Forward > Off Code		
Phone UI	Menu > Features > Call Forward > Busy Forward >	Off Code	
Parameter f	orward.no_answer.enable	<y000000000xx>.cfg</y000000000xx>	
Description	t triggers the no answer forward feature to on or off	on a phone basis.	
DESCRIPTION	Note: It works only if "features.fwd.allow" is set to 1	· · · · · · · · · · · · · · · · · · ·	

	(Phone) (except T30P/T30/T19(P) E2/CP920 phones). DND activated on the IP phone deactivates the local No Answer Forward settings.	
	0-Off	
	1 -On, incoming calls are forwarded to the destination number (configured by the parameter "for- ward.no_answer.target") after a period of ring time.	
Default	0	
Web UI	Features > Forward&DND > Forward > No Answer	Forward > On/Off
Phone UI	Menu > Features > Call Forward > No Answer Forw	vard > No Answer Forward
Parameter	forward.no_answer.target <y00000000xx>.cfg</y00000000xx>	
	It configures the destination number of the no answ	er forward on a phone basis.
Description	Note: It works only if "features.fwd.allow" is set to 1 (Phone) (except T30P/T30/T19(P) E2/CP920 phone	(Enabled) and "features.fwd_mode" is set to 0 es).
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features > Forward&DND > Forward > No Answer Forward > Target	
Phone UI	Menu > Features > Call Forward > No Answer Forw	vard > Forward to
Parameter	forward.no_answer.timeout	<y000000000xx>.cfg</y000000000xx>
	It configures ring times (N) to wait before forwarding	j incoming calls.
Description	The incoming calls will be forwarded when not answered after N*M (M is configurable by "phone_set- ting.ring_duration") seconds. Note : It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).	
Permitted Values	Integer from 0 to 20 (determined by "features.forward.no_answer.show_ring_times")	
Default	2	
Web UI	Features > Forward&DND > Forward > No Answer	Forward > After Ring Time (0~120s)
Phone UI	Menu > Features > Call Forward > No Answer Forw	vard > After Ring Time
Parameter	features.forward.no_answer.show_ring_times	<y000000000xx>.cfg</y000000000xx>
	It configures the permitted values of the ring times (N) to wait before forwarding incoming calls.
	Example:	
Description	features.forward.no_answer.show_ring_times = 0,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19	
	Note: It works only if "forward.no_answer.enable" or "account.X.timeout_fwd.enable" is set to 1 (Enabled).	
Permitted Values	String within 512 characters	
Default	0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,2	0 (1 is not applicable to BroadSoft users)
Parameter	phone_setting.ring_duration	<y000000000xx>.cfg</y000000000xx>
	It configures the interval (in seconds) of the ring for	the no answer forward feature.
Description	Note: It works only if "forward.no_answer.enable" or "account.X.timeout_fwd.enable" is set to 1	

	(Enabled).		
Permitted Values	Integer greater than or equal to 0		
Default	6		
Parameter	forward.no_answer.on_code <y00000000xx>.cfg</y00000000xx>		
Description	It configures the no answer forward on code to activate the server-side no answer forward feature. The phone will send the no answer forward on code and the pre-configured destination number (con- figured by the parameter "forward.no_answer.target") to the server when you activate the no answer forward feature on a phone basis.		
D	Note : It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > Forward&DND > Forward > No Answer Forward > On Code		
Phone UI	Menu > Features > Call Forward > No Answer Forv	vard > On Code	
Parameter	forward.no_answer.off_code	<y000000000xx>.cfg</y000000000xx>	
	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 the no answer forward feature on a phone basis.		
	Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and "features.fwd_mode" is set to 0 (Phone) (except T30P/T30/T19(P) E2/CP920 phones).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > Forward&DND > Forward > No Answer Forward > Off Code		
Phone UI	Menu > Features > Call Forward > No Answer Forv	vard > Off Code	

Call Forward in Custom Mode Configuration

The following table lists the parameters you can use to configure call forward in custom mode.

Parameter	account.X.always_fwd.enable ^[1]	<mac>.cfg</mac>
	It triggers always forward feature to on or off. Note: It works only if "features.fwd.allow" is set to 1 (Custom).	(Enabled) and "features.fwd_mode" is set to 1
Permitted Values	 0-Off 1-On, incoming calls to the account X are forwarde meter "account.X.always_fwd.target") immediately. 	d to the destination number (configured by the para-
Default	0	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0

Web UI	Features > Forward&DND > Forward > AccountX > Always Forward > On/Off		
Phone UI	Menu > 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 (Enabled) and "features.fwd_mode" is set to 1 (Custom).		
Permitted Values	String within 32 characters		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0	
Web UI	Features > Forward&DND > Forward > AccountX >	Always Forward > Target	
Phone UI	Menu > Features > Call Forward > AccountX > Alw	ays 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		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Features > Forward&DND > Forward > AccountX >	Always Forward > On Code	
Phone UI	Menu > Features > Call Forward > AccountX > Alw	ays 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 n 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		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Features > Forward&DND > Forward > AccountX > Always Forward > Off Code		
Phone UI	Menu > Features > Call 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	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP9	20
Web UI	Features > Forward&DND > Forward > AccountX	> Busy Forward > On/Off
Phone UI	Menu > Features > Call Forward > AccountX > Bu	sy Forward > Busy Forward
Parameter	account.X.busy_fwd.target ^[1]	<mac>.cfg</mac>
	It configures the destination number of the busy fo	rward.
Description	Note: It works only if "features.fwd.allow" is set to (Custom).	1 (Enabled) and "features.fwd_mode" is set to 1
Permitted Values	String within 32 characters	
Default	Blank	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920	
Web UI	Features > Forward&DND > Forward > AccountX > Busy Forward > Target	
Phone UI	Menu > Features > Call Forward > AccountX > Bu	sy Forward > Forward to
Parameter	account.X.busy_fwd.on_code ^[1] <mac>.cfg</mac>	
	It configures the busy forward on code to activate the server-side busy forward feature.	
	The phone will send the busy forward on code and the pre-configured destination number (configu by the parameter "account.X.busy_fwd.target") to the server when you activate the busy forward fea- ture on the phone.	
Description	by the parameter "account.X.busy_fwd.target") to ture on the phone.	the server when you activate the busy forward fea-
Description	by the parameter "account.X.busy_fwd.target") to	the server when you activate the busy forward fea-
Permitted	by the parameter "account.X.busy_fwd.target") to ture on the phone. Note: It works only if "features.fwd.allow" is set to	the server when you activate the busy forward fea-
Permitted Values	by the parameter "account.X.busy_fwd.target") to ture on the phone. Note: It works only if "features.fwd.allow" is set to (Custom).	the server when you activate the busy forward fea-
Permitted Values Default	by the parameter "account.X.busy_fwd.target") to ture on the phone. Note: It works only if "features.fwd.allow" is set to (Custom). String within 32 characters	the server when you activate the busy forward fea- 1 (Enabled) and "features.fwd_mode" is set to 1
Permitted Values Default Supported Devices	by the parameter "account.X.busy_fwd.target") to ture on the phone. Note: It works only if "features.fwd.allow" is set to (Custom). String within 32 characters Blank	the server when you activate the busy forward fea- 1 (Enabled) and "features.fwd_mode" is set to 1
Permitted Values Default Supported Devices Web UI	by the parameter "account.X.busy_fwd.target") to ture on the phone. Note: It works only if "features.fwd.allow" is set to (Custom). String within 32 characters Blank All phones except T30P, T30, T19(P) E2 and CP9	the server when you activate the busy forward fea- 1 (Enabled) and "features.fwd_mode" is set to 1 20 > Busy Forward > On Code
Permitted Values Default Supported Devices Web UI Phone UI	by the parameter "account.X.busy_fwd.target") to ture on the phone. Note: It works only if "features.fwd.allow" is set to (Custom). String within 32 characters Blank All phones except T30P, T30, T19(P) E2 and CP9 Features > Forward&DND > Forward > AccountX	the server when you activate the busy forward fea- 1 (Enabled) and "features.fwd_mode" is set to 1 20 > Busy Forward > On Code
Permitted Values Default Supported Devices Web UI Phone UI Parameter	by the parameter "account.X.busy_fwd.target") to ture on the phone. Note: It works only if "features.fwd.allow" is set to (Custom). String within 32 characters Blank All phones except T30P, T30, T19(P) E2 and CP9 Features > Forward&DND > Forward > AccountX Menu > Features > Call Forward > AccountX > Bu	the server when you activate the busy forward fea- 1 (Enabled) and "features.fwd_mode" is set to 1 20 > Busy Forward > On Code sy Forward > On Code
Permitted Values Default Supported Devices Web UI Phone UI Parameter	by the parameter "account.X.busy_fwd.target") to ture on the phone. Note: It works only if "features.fwd.allow" is set to (Custom). String within 32 characters Blank All phones except T30P, T30, T19(P) E2 and CP9 Features > Forward&DND > Forward > AccountX Menu > Features > Call Forward > AccountX > Bu account.X.busy_fwd.off_code ^[1] It configures the busy forward off code to deactiva	the server when you activate the busy forward fea- 1 (Enabled) and "features.fwd_mode" is set to 1 20 > Busy Forward > On Code sy Forward > On Code
Permitted Values Default Supported Devices Web UI Phone UI Parameter Description	by the parameter "account.X.busy_fwd.target") to ture on the phone. Note: It works only if "features.fwd.allow" is set to (Custom). String within 32 characters Blank All phones except T30P, T30, T19(P) E2 and CP9 Features > Forward&DND > Forward > AccountX Menu > Features > Call Forward > AccountX > Bu account.X.busy_fwd.off_code ^[1] It configures the busy forward off code to deactiva The phone will send the busy forward off code to to	the server when you activate the busy forward fea- 1 (Enabled) and "features.fwd_mode" is set to 1 20 20 20 20 20 20 20 20 20 20

Values		
	Blank	
Supported		
Devices	All phones except T30P, T30, T19(P) E2 and CP920	
Web UI	Features > Forward&DND > Forward > AccountX >	Busy Forward > Off Code
Phone UI	Menu > Features > Call Forward > AccountX > Bus	y Forward > Off Code
Parameter	account.X.timeout_fwd.enable ^[1] <mac>.cfg</mac>	
	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 meter "account.X.timeout_fwd.target") after a period	d to the destination number (configured by the para- d of ring time.
Default	0	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920	
Web UI	Features > Forward&DND > Forward > AccountX > No Answer Forward > On/Off	
Phone UI	Menu > Features > Call Forward > AccountX > No Answer Forward > No Answer Forward	
Parameter	account.X.timeout_fwd.target ^[1]	<mac>.cfg</mac>
	It configures the destination number of the no answer forward.	
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	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0
Web UI	Features > Forward&DND > Forward > AccountX >	No Answer Forward > Target
Phone UI	Menu > Features > Call Forward > AccountX > No /	Answer Forward > Forward to
Parameter	account.X.timeout_fwd.timeout ^[1]	<mac>.cfg</mac>
	It configures ring times (N) to wait before forwarding	g incoming calls.
Description	The incoming calls will be forwarded when not answered after N*M (M is configurable by "phone_se on ting.ring_duration") seconds. 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 (determined by "features.forward.no_answer.show_ring_times")	
Default	2	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920	

Web UI	Features > Forward&DND > Forward > AccountX > No Answer Forward > After Ring Time(0~120s)		
Phone UI	Menu > Features > Call Forward > AccountX > No Answer Forward > After Ring Time		
Parameter	account.X.timeout_fwd.on_code ^[1] <m <="" th=""><th>AC>.cfg</th></m>	AC>.cfg	
Description	It configures the no answer forward on code to activate the server-side no answer forward feature. 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	String within 32 characters	
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Features > Forward&DND > Forward > AccountX > No Answer Forward > On Code		
Phone UI	Menu > Features > Call Forward > AccountX > No Answ	Menu > Features > Call Forward > AccountX > No Answer Forward > On Code	
Parameter	account.X.timeout_fwd.off_code ^[1] <m <="" th=""><th>AC>.cfg</th></m>	AC>.cfg	
	It configures the no answer forward off code to deactivate the server-side no answer forward feature. The phone will send the no answer forward off code to the server when you deactivate 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		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Features > Forward&DND > Forward > AccountX > No	Answer Forward > Off Code	
Phone UI	Menu > Features > Call Forward > AccountX > No Answ	wer 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	<y0000000000xx>.cfg</y0000000000xx>
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Description	la su shi sa shi sa ki sa su shu su in 1970 ta sa		
-	It enables or disables to synchronize the feature status between the IP phone and the server.		
rennitieu	0-Disabled		
Values	1-Enabled, the phone sends a SUBSCRIBE message with event "as-feature-event" to the server.		
Default	0		
Parameter	account.X.feature_key_sync.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables to synchronize the feature status between the IP phone and the server for account X.		
	Note : The value configured by this parameter takes precedence over that "features.feature_key_sync.enable".	configured by the parameter	
Permitted	0-Disabled		
Values	1-Enabled, the phone to send a SUBSCRIBE message with event "as-feat	ure-event" to the server.	
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T29G and CP920		
Parameter	features.forward.feature_key_sync.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the forward feature synchronization.		
Description	Note: It works only if "features.feature_key_sync.enable" is set to 1 (Enable	ed).	
Permitted	0-Disabled		
Values	1-Enabled, server-based call forward is enabled. Server and local phone call forward are syn- chronized.		
Default	1		
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).		
	0-Disabled		
, alace	1-Enabled, server-based call forward is enabled. Server and local phone call forward are syn- chronized.		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T29G and CP920		
Parameter	features.forward.feature_key_sync.local_processing.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the local forward when call forward feature synchronization is enabled.		
Description	Note: It works only if "features.feature_key_sync.enable" and "features.forward.feature_key_syn- c.enable" are set to 1 (Enabled). The value configured by the parameter "accoun- t.X.features.forward.feature_key_sync.local_processing.enable" takes precedence over that configured by this parameter.		
	0-Disabled, call forward is performed on the server side only.		
Values	1-Enabled, call forward is performed on both server side and locally.		

Default	0	
Parameter	account.X.features.forward.feature_key_sync.local_processing.enable ^[1] <mac>.cfg</mac>	
Description	It enables or disables the local forward when call forward feature synchron Note : It works only if "features.feature_key_sync.enable" and "features.forv c.enable" are set to 1 (Enabled).	
Permitted Values	0-Disabled, call forward is performed on the server side only.1-Enabled, call forward is performed on both server side and locally.	
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.

Topics

Call Transfer Configuration Transfer Mode for Dsskey Configuration

Call Transfer Configuration

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

Parameter	transfer.semi_attend_tran_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the semi-attended transfer.		
Permitted Values	 0-Disabled, when the user presses the Trans/Transfer soft key after he phone will blind transfer the call. 1-Enabled, when the user presses the Trans/Transfer soft key after heaphone will transfer the call after the transferee answers the call. 	55	
Default	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 after ser is rejected by the server.	ni-attended/attended transfer
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	transfer.blind_tran_on_hook_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to complete the blind transfer through o Trans/Transfer soft key or TRAN/TRANSFER key.	on-hook besides pressing the
	Note: Blind transfer means transferring a call directly to another party w	ithout consulting.
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Web UI	Features > Transfer > Blind Transfer On Hook	
Parameter	transfer.on_hook_trans_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to complete the semi-attended/attended transfer through on-hook besides pressing the Trans/Transfer soft key or TRAN/TRANSFER key. Note : Semi-attended transfer means transferring a call after hearing the ringback tone; Attended trans- fer means transferring a call with prior consulting.	
	0-Disabled 1-Enabled	
Default	1	
Web UI	Features > Transfer > Attended Transfer On Hook	
Parameter	features.transfer_complete.prompt.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to pop up a prompt after the transfer op	peration is completed.
Permitted Values	0-Disabled 1-Enabled	
Default	1	
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S T31G, T31, T30P, T30, T27G and CP920	, T41S, T33P, T33G, T31P,

Transfer Mode for Dsskey Configuration

The following table lists the parameter you can use to configure transfer mode for Dsskey.

Parameter	transfer.dsskey_deal_type	<y000000000xx>.cfg</y000000000xx>
Description	It configures the transfer mode for the DSS key. When the user presses the DSS Key during a call, the DSS Key behavior depends on the transfer mode. Note : This feature is only applicable to the Speed Dial key, BLF/BLF List key or Transfer key with an assigned value.	
Permitted Values	 0-New Call 1-Attended Transfer 2-Blind Transfer 4-Optional, users can choose to transfer the call via New Call, Attended Transfer or Blind Transfer manually (not applicable to T48G/T46G/T412/T41P/T29G phones) 	
Default	2	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920	
Web UI	Features > Transfer > Transfer Mode via Dsskey	

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 account.	
Permitted	D-Local Conference	
Values	2-Network Conference	
Default	0	
Web UI	Account > Advanced > Conference Type	

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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 CP920/T42U/T43U/T53/T53W/T33P/T33G/T31P/T31G/T31/T30P/T30 phones, 10 partes for T46U/T48U/T54W/T57W) (including yourself) in a local conference call.

Note: Codecs that can support 10-party conference: G722, G723, G726, G729, PCMA, PCMU, and iLBC; the Opus codec can only support 5-party conference.

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

Devenenter	factures conference local enable		
	features.conference.local.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the local conference feature for the IP phone.		
Description	Note: It works only when "account.X.conf_type" is set to 0 (Local Conference).		
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Parameter	features.conference.with_previous_call.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to merge two calls		
_	ference key when there are two calls on the phone		
Permilied	0-Disabled, users can select to set up a conference	e with the held party or a new party during multiple	
Values	calls. 1-Enabled		
Defeult			
	0		
Supported	All phones except CP920		
Devices			
Parameter	features.local_conf.combine_with_one_press.en- able	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to set up a three-way conference directly after the second party		
	answers the call.		
Description	Note: The CONF key is only applicable to T29G/T27G phones. The conference DSS key is not applic-		
	able to CP920 phones.		
	0-Disabled, the user needs to press the Conf/Conference soft key, CONF key or conference DSS key		
Permitted	again to set up a conference after the second party	answers the call.	
Values	1-Enabled, the second party joins a conference wit	h the first party after answering the call, both	
	1-Enabled, the second party joins a conference with the first party after answering the call, both phones play a warning tone.		
Default	0		
Parameter	transfer.tran_others_after_conf_enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to transfer the local conference call to the other two parties after the		
Description	conference initiator drops the local conference call		
	Note: It works only if "account.X.conf_type" is set to 0 (Local Conference).		
Permitted	0-Disabled, all parties are disconnected when the conference initiator drops the conference call.		
Values	1-Enabled, the other two parties remain connected when the conference initiator drops the con-		
	ference call.		
Default	0		
Web UI	Features > Transfer > Transfer on Conference Hang up		
		- ·	

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>
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	-		
Description	It configures the network conference URI for a specific account.		
	Note: It works only if "account.X.conf_type" is set to 2 (Network Conference).		
Permitted Values	SIP URI within 511 characters		
Default	Blank		
Web UI	Account > Advanced > Conference URI		
Parameter	account.X.networkconf_type ^[1]	<mac>.cfg</mac>	
	It configures how a network conference is set up.		
Description	n Note: It works only if "account.X.conf_type" is set to 2 (Network Conference).		
	0-The phone transfers the participant to the server by a REFER method with conference URI in the		
Permitted	Refer-To header.		
Values	1-The phone transfers the server to the participant by a REFER method with SIP URI in the Refer-To		
	header.		
Default	0		
Supported	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P,		
Devices	T31G, T31, T30P, T30, T27G and CP920		

USB Recording

Yealink phones support manual recording during a call or automatic recording once the call is set up. Yealink CP920 phones support recording when the phone is idle, helping users record an important discussion in the local conference room. Before recording, ensure that the USB flash drive has been connected to the IP phone or USB port of the PSTN box CPN10 (CPN10 is only applicable to CP920 phones). USB recording is only applicable to T57W/T53W/T53W/T53/T48U/T48S/T46U/T46S/T46G/T43U/T42U/T42S/T41S/T29G/T27G/CP920 phones.

The recorded calls are saved in *.wav 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), duration of the call 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. If the recording is created when the phone is idle, the file is saved with a keyword "idleREC". Recorded calls can be played on either the phone itself or on a computer using an application capable of playing *.wav files.

Note: Yealink phones support USB flash drive in FAT32 or NTFS (NTFS is not applicable to T43U/T42U) format.

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 Recording Configuration

USB Recording Configuration

The following table lists the parameter you can use to configure 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	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, T27G, CP920		
Parameter	features.auto_recording.enable <y00000000xx>.cfg</y00000000xx>		
Description	It enables or disables the USB automatic recording feature. Note: It works only if "features.usb_call_recording.enable" is set to 1 (Enabled).		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T42U, T42S, T41S, T29G, T27G, CP920		
Parameter	features.idle_recording.enable <y00000000xx>.cfg</y00000000xx>		
Description	It enables or disables the USB idle recording feature. Note: It works only if "features.usb_call_recording.enable" is set to 1 (Enabled).		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	СР920		

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 firmware version 80 or earlier 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.

Tip: You can set a DSS key as Multicast Paging key or Paging list key on the phone, which allows you to send announcements to the phones with the pre-configured multicast address(es) on the specific channel(s). For more information, refer to DSS Keys.

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>	
Description	It configures the IP address and port number of the multicast paging group in the paging list.		
Permitted Values	IP address: port (224.0.0.1-239.255.255.255 port: 0-65535)		
Default	Blank		
Web UI	Directory > Multicast IP > Paging List > Paging Add	ress	
Phone UI	Color Screen Phones: Menu > Features > Others > Paging List > Option > Edit > Address Black-and-white Screen Phones:		
	Menu > Features > Paging List > Option > Edit > Ac multicast.paging_address.X.label ^[1]	<y0000000000xx>.cfg</y0000000000xx>	
Description	It configures the name of the multicast paging group to be displayed in the paging list.		
Permitted	String		
Default	Blank		
Web UI	Directory > Multicast IP > Paging List > Label		
Phone UI	Color Screen Phones: Menu > Features > Others > Paging List > Option > Edit > Label Black-and-white Screen Phones: Menu > Features > Paging List > Option > Edit > Label		
	multicast.paging_address.X.channel ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the channel of the multicast paging gro	bup in the paging list.	
Permitted	0-all the Yealink phones running old firmware version or Yealink phones listen to channel 0 or third- party available devices in the paging group can receive the RTP stream.		
values	 1 to 25-the Polycom or Yealink phones preconfigured to listen to the channel can receive the RTP stream. 26 to 30-the Yealink phones preconfigured to listen to the channel can receive the RTP stream. 		
	0		
Web UI	Directory > Multicast IP > Paging List > Channel		
Phone UI	Color Screen Phones: Menu > Features > Others > Paging List > Option > Edit > Channel		

Black-and-white Screen Phones:
Menu > Features > Paging List > Option > Edit > Channel

^[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 > Liste	ening Address	
Parameter	multicast.listen_address.X.label ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the label to be displayed on the phone	e 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	It configures the channel that the phone listens to.		
	0 -the phone can receive an RTP stream of the pre-configured multicast address from the phones run- ning old firmware version, from the phones listen to the channel 0, or from the available third-party devices.		
Permitted Values	1 to 25 -the phone can receive an RTP stream of the pre-configured multicast address on the channel 1 to 25 respectively from Yealink or Polycom phones.		
	26 to 30 -the phone can receive the RTP stream of the pre-configured multicast address on the chan- nel 26 to 30 respectively from Yealink phones.		
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.

DND for Ignoring Paging Call

If you do not want to miss some urgent paging calls when DND is activated. You can use the Ignore DND feature to define the lowest priority of paging group from which the phone can receive an urgent paging call when DND is activated. You can specify a priority that the incoming paging calls with higher or equal priority are automatically answered, and the lower ones are ignored. It is not applicable to CP920 phones.

If it is disabled, all the incoming paging calls will be ignored when DND is activated in phone mode.

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 Values	PCMU, PCMA, G729, G722	
Default	G722	
Supported Devices	All phones except T30P/T30/T19(P) E2	
Web UI	Features > General Information > Multicast Codec	
Parameter	multicast.receive_priority.enable <y00000000xx>.cfg</y00000000xx>	
Description	It enables or disables the phone to handle the incoming multicast paging calls when there is an active multicast paging call on the phone.	
	0 -Disabled, the phone will ignore the incoming multicast paging calls when there is an active mul- ticast paging call on the phone.	
Values	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</y000000000xx>	
	It configures the priority of the voice call (a normal progress	phone call rather than a multicast paging call) in	
Description	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		
	2 -2		
Permitted Values	3 -3		
, and o			
	31 -31		
	If it is set to other values, the phone will receive the equal priority and ignore the one with a lower prior		
	31		
Web UI	Directory > Multicast IP > Paging Barge		
Parameter	multicast.receive.ignore_dnd.priority	<y000000000xx>.cfg</y000000000xx>	
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.		
	0-Disabled, all incoming multicast paging calls will be automatically ignored when DND is activated in phone mode.		
	1-1		
	2 -2		
	3 -3		
Values			
	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]	<y000000000xx>.cfg</y000000000xx>	
	It configures the volume of the speaker when receiv	ving 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- ted 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.enhance_volume	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the volume enhancement feature when receiving the multicast paging calls. Note : It works only if "multicast.listen_address.X.volume" is not set to 0. If the value the parameter "mul- ticast.listen_address.X.volume" is set to 1-15 and the value of this parameter is set to 1 (Enabled), the receiving volume will be 16-30.		
Permitted Values	0-Disabled1-Enabled, the receiving volume will be increased by 15 level.		
Default	0		
Parameter	multicast.receive.use_speaker	<y000000000xx>.cfg</y000000000xx>	
Description	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		
Parameter	features.paging_auto_resume.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to automatically resume the held multicast paging call after the second multicast paging call or a new call ends.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920		

^[1]X ranges from 1 to 31.

Advanced Features

The advanced features require server support. Consult your server partner to find out if these features are supported.

Topics

Call Pickup Dialog Info Call Pickup Call Completion Call Park and Retrieve Automatic Call Distribution (ACD) Busy Lamp Field Shared Line Intercom CSTA Control Action URL Action URL Voice Mail Short Message Service (SMS) XML Browser Hot Desking

Call Pickup

You can use call pickup to answer someone else's incoming call on your phone.

The Yealink phones support Directed Call Pickup and Group Call Pickup:

- Directed Call Pickup: allows you to pick up incoming calls to a specific phone.
- Group Call Pickup: allows you to pick up incoming calls to any phone within a predefined group of phones.

Topics

Directed Call Pickup Group Call Pickup

Directed Call Pickup

Directed call pickup is used for picking up an incoming call on a specific extension. You can answer a call that rings on a specific phone. If there are multiple incoming calls on the phone at the same time, you can only pick up the first incoming call.

You can choose to implement directed call pickup using a directed call pick code or using SIP signaling.

Topic

Directed Call Pickup Configuration

Directed Call Pickup Configuration

You can enable directed call pickup, the LCD screen will display a **DPickup** soft key when picking up the handset, pressing the Speakerphone key or pressing the line key (You may need to press the **More** soft key to see the **DPickup** soft key). As shown below:

ৰ) 101		
S 101		
	102	
	11	
	1002	
	10	
Cancel	DPickup	More

You can configure a directed call pickup code and pick up the incoming call using the DPickup soft key.

Tip: You can set a DSS key as a Directed Pickup key, and specify a contact you want to pick up a call from for this key. For more information, refer to DSS Keys.

The following table lists the parameters you can use to configure directed call pickup.

features.pickup.direct_pickup_enable	<y000000000xx>.cfg</y000000000xx>	
It enables or disables the user to use DPickup soft key when performing the directed call pickup fea- ture.		
0-Disabled		
1-Enabled, the phone will display the DPickup soft	key on the Dialing screen.	
0		
Features > Pick up & Park > Directed Call Pickup		
features.pickup.direct_pickup_code	<y000000000xx>.cfg</y000000000xx>	
It configures the directed call pickup code on a pho	ne basis.	
Note: The code configured by "account.X.direct_pickup_code" takes precedence over that configured by this parameter.		
String within 32 characters		
Blank		
Features > Pick up & Park > Directed Call Pickup C	code	
account.X.direct_pickup_code ^[1]	<mac>.cfg</mac>	
It configures the directed call pickup code.		
Note : The code configured by this parameter takes precedence over that configured by "fea- tures.pickup.direct_pickup_code".		
String within 32 characters		
Blank		
Account > Advanced > Directed Call Pickup Code		
	It enables or disables the user to use DPickup soft ture. 0 -Disabled 1 -Enabled, the phone will display the DPickup soft 0 Features > Pick up & Park > Directed Call Pickup features.pickup.direct_pickup_code It configures the directed call pickup code on a pho Note : The code configured by "account.X.direct_pic by this parameter. String within 32 characters Blank Features > Pick up & Park > Directed Call Pickup C account.X.direct_pickup_code ^[1] It configures the directed call pickup code. Note : The code configured by this parameter takes tures.pickup.direct_pickup_code ^[1] String within 32 characters Blank	

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Group Call Pickup

Group call pickup is used for picking up incoming calls within a predefined group. When any phone within a predefined group of phones receives an incoming call, you can pick up that call easily on the phone.

If you enable group call pickup, the phone screen will display a **GPickup** soft key when picking up the handset, pressing the Speakerphone key or pressing the line key. As shown below:

م) 101 م			
§ 101]
	102		
	11		
	1002		
	10		
Directory	123	GPickup	Cancel

You can pick up the group incoming call using the GPickup soft key.

Tip: You can set a DSS key as a Group Pickup key to pick up a group call. For more information, refer to DSS Keys.

Topic

Group Call Pickup Configuration

Group Call Pickup Configuration

The following table lists the parameters you can use to configure the group call pickup.

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	0-Disabled			
Values	1-Enabled, the phone will display the GPickup soft key on the Dialing screen.			
Default	0			
Web UI	Features > Pick up & Park > Group Call Pickup			
Parameter	eatures.pickup.group_pickup_code <y000000000xx>.cfg</y000000000xx>			
	It configures the group call pickup code on a phone	basis.		
Description	ription Note: The code configured by "account.X.group_pickup_code" takes precedence over that coupy by this parameter.			
Permitted Values	String within 32 characters			
Default	Blank			
Web UI	Features > Pick up & Park > Group Call Pickup Code			
Parameter	account.X.group_pickup_code ^[1] <mac>.cfg</mac>			
	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
Web UI	Account > Advanced > Group Call Pickup Code

Dialog Info Call Pickup

While some SIP servers implement directed call pickup using a directed call pickup code, others also support implement this feature through SIP signals.

Note: In this way, you do not need to configure the directed call pickup code.

If you enable the phone to implement directed call pickup through SIP signals, the phone picks up an incoming call via a SIP INVITE message with a Replaces header. The value of Replaces is derived from a NOTIFY message with the dialog-info event. This feature applies only to directed call pick-up attempts initiated against monitored BLF resources. It means you can pick up an incoming call by pressing a BLF/BLF List key. It is not applicable to T30P/T30/T19(P) E2/CP920 phones.

Example of the dialog-info carried in NOTIFY message:

<?xml version="1.0"? >

<dialog-info xmlns="urn:ietf:params:xml:ns:dialog-info" version="6" state="partial" entityy="sip:1011@10.2.1.48:5060" >

<dialog id="65603" call-id="0_1756536024@10.10.20.34" local-tag="3408640225" remote-tagg="3779921438" direction="recipient">

<state > early</state>

<local >

<identity > sip:1011@10.2.1.48:5060</identity>

<target uri="sip:1011@10.2.1.48:5060"/>

</local >

<remote >

<identity > sip:1058@10.2.1.48:5060</identity >

<target uri="sip:1058@10.2.1.48:5060"/>

</remote>

</dialog>

</dialog-info>

Example of the Replaces carried in INVITE message:

Via: SIP/2.0/UDP 10.10.20.18:5060;branch=z9hG4bK2026058891

From: "1010" <sip:1010@10.2.1.48:5060>;tag=826048502

To: <sip:1058@10.2.1.48:5060>

Call-ID: 0_572446084@10.10.20.18

CSeq: 1 INVITE

Contact: <sip:1010@10.10.20.18:5060>

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 SIP-T46G 28.82.0.20

Replaces: 0_1756536024@10.10.20.34;to-tag=3779921438;from-tag=3408640225

Allow-Events: talk,hold,conference,refer,check-sync

Supported: replaces

Content-Length: 304

Related Topics

Dialog Info Call Pickup Configuration Busy Lamp Field

Dialog Info Call Pickup Configuration

The following table lists the parameter you can use to configure dialog Info call pickup.

| Parameter | account.X.dialoginfo_callpickup ^[1] | <mac>.cfg</mac> |
|----------------------|--|-----------------|
| Description | | |
| | Note: In this way, you do not need to configure the directed call pickup code. 0-Disabled 1-Enabled, the phone picks up a call according to the Replaces header in the INVITE message. | |
| Default | 0 | |
| Supported
Devices | All phones except T30P, T30, T19(P) E2 and CP920 | |
| Web UI | Account > Advanced > Dialog Info Call Pickup | |

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42U/T42G/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2.

Call Completion

When you place a call and the callee is temporarily unavailable to answer the call, call completion allows your phone to monitor the busy party and establish a call after the busy party becomes available to receive a call.

Two factors commonly prevent a call from connecting successfully:

- Callee does not answer
- · Callee actively rejects the incoming call before answering

Yealink phones support call completion using the SUBSCRIBE/NOTIFY method, which is specified in draft-poetzlsipping-call-completion-00, to subscribe to the busy party and receive notifications of their status changes. The caller subscribes for update notifications of the dialog event from the busy party. Example of a SUBSCRIBE message:

SUBSCRIBE sip:1000@10.10.20.34:5060 SIP/2.0

Via: SIP/2.0/UDP 10.10.20.32:5060;branch=z9hG4bK2880274891

From: "10111" <sip:10111@10.2.1.48:5060>;tag=8643512

To: <sip:1000@10.2.1.48:5060>;tag=4025601441

Call-ID: 4_2103527761@10.10.20.32

CSeq: 2 SUBSCRIBE

Contact: <sip:10111@10.10.20.32:5060>

Accept: application/dialog-info+xml

Max-Forwards: 70

User-Agent: Yealink SIP-T46G 28.82.0.20

Expires: 60

Event: dialog

Content-Length: 0

Example of a NOTIFY message (The subscription (SUBSCRIBE message) of the dialog event "Call Completion" is confirmed by the busy party):

NOTIFY sip:10111@10.10.20.32:5060 SIP/2.0

Via: SIP/2.0/UDP 10.10.20.31:5060;branch=z9hG4bK1830418099

From: <sip:1000@10.2.1.48:5060>;tag=1032948194

To: "10111" <sip:10111@10.2.1.48:5060>;tag=722495580

Call-ID: 0_160090766@10.10.20.32

CSeq: 2 NOTIFY

Contact: <sip:1000@10.10.20.31:5060>

Content-Type: application/dialog-info+xml

Max-Forwards: 70

User-Agent: Yealink SIP-T46G 28.82.0.20

Subscription-State: active;expires=60

Event: dialog

Content-Length: 584

<?xml version="1.0"?>

<dialog-info xmlns="urn:ietf:params:xml:ns:dialog-info" version="1" state="full" entity="sip:1000@10.2.1.48:5060">

<dialog id="65626" call-id="0_3138198645@10.10.20.31" local-tag="2331766736" remote-tag="1786911541" direction="initiator">

<state>confirmed</state>

<local></local>
<identity>sip:1000@10.2.1.48:5060</identity>
<target uri="sip:1000@10.2.1.48:5060"></target>
<remote></remote>
<identity>sip:1@10.2.1.48:5060</identity>
<target uri="sip:1@10.2.1.48:5060"></target>
<dialog id="65622"></dialog>
<state>terminated</state>

Example of a NOTIFY message (The busy party has finished the call and is available again. A new notification update from the busy party is received by the caller):

NOTIFY sip:10111@10.10.20.32:5060 SIP/2.0
Via: SIP/2.0/UDP 10.10.20.31:5060;branch=z9hG4bK3431394016
From: <sip:1000@10.2.1.48:5060>;tag=1558968605</sip:1000@10.2.1.48:5060>
To: "10111" <sip:10111@10.2.1.48:5060>;tag=140677866</sip:10111@10.2.1.48:5060>
Call-ID: 0_2584152566@10.10.20.32
CSeq: 5 NOTIFY
Contact: <sip:1000@10.10.20.31:5060></sip:1000@10.10.20.31:5060>
Content-Type: application/dialog-info+xml
Max-Forwards: 70
User-Agent: Yealink SIP-T46G 28.82.0.20
Subscription-State: active;expires=48
Event: dialog
Content-Length: 217
xml version="1.0"?
<dialog-info entity-<br="" state="partial" version="4" xmlns="urn:ietf:params:xml:ns:dialog-info">y="sip:1000@10.2.1.48:5060"></dialog-info>
<dialog id="65644"></dialog>
<state>terminated</state>

Topics

Call Completion Configuration Example: Using Call Completion

Call Completion Configuration

The following table lists the parameters you can use to configure the call completion feature.

Parameter	features.call_completion_enable	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the call completion feature.			
Permitted	0-Disabled			
Values	1-Enabled			
Default	0			
Web UI	Features > General Information > Call Completion			
	Color Screen Phones: Menu > Features > Others > Call Completion > Call Completion Black-and-white Screen Phones: Menu > Features > Call Completion > Call Completion			
Phone UI				
			Black-and-white Screen Phones:	

Example: Using Call Completion

The following example shows the configuration for call completion.

Example

features.call_completion_enable = 1

After provisioning, when you place a call and the callee is temporarily unavailable to answer the call, the phone screen will prompt whether to wait for the callee party. You can activate the call completion feature. After the called party becomes idle, the phone screen will prompt whether to dial the number.

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.

Topics

Call Park and Retrieve Configuration Example: Setting Call Park and Retrieve in FAC Mode Example: Setting Call Park and Retrieve in Transfer Mode

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 made		
	It configures the call park mode.		
Values	1-FAC, park a call through dialing the call park code.		
	2-Transfer, blind transfer the call to a shared parkin 2	g lot.	
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.		
Fermitteu	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		
Permitted Values	String within 256 characters		
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 configures retrieve parking lot for Trans- fer call park mode.		
Permitted Values	String within 256 characters		
Default	Blank		
Web UI	Features > Pick up & Park > Park Retrieve Code		
Parameter	features.call_park.direct_send.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to dial out the call park code/park retrieve code directly when press- ing the Park/Retrieve soft key.		
-	Note: It works only if "features.call_park.park_mode" is set to 1 (FAC) and you have configured the call park code/park retrieve code.		
Permitted Values	 0-Disabled, the phone will enter the dialing screen when pressing the Park/Retrieve soft key. The user can dial the specific extension manually or press the BLF/BLF List or Speed Dial key to park the call to the specific extension or retrieve the call parked from the specific extension. 1-Enabled 		
Default	1		
Supported Devices	All phones except CP920		
Parameter	features.call_park.line_restriction.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to park a call using the specific line of the Call Park key.		
Description	Note: It works only if "features.call_park.park_mode" is set to 2 (Transfer).		

Permitted	0 -Disabled, the call is parked by the current line, which is in call state.		
Values	1-Enabled		
Default	0		
Supported Devices	All phones except T30P/T30/T19(P) E2		
Parameter	features.call_park.performby_holdhardkey.enable <	<y000000000xx>.cfg</y000000000xx>	
Description	n It enables or disables the phone to park a call using the HOLD hard key.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920		
Parameter	sip.call_park_without_blf ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	n It enables or disables the phone to close the BLF monitoring feature for call park DSS key.		
	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

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

Example: Setting Call Park and Retrieve in FAC Mode

The following example shows the configuration for the FAC call park mode.

Example

features.call_park.park_mode = 1

features.call_park.enable = 1

features.call_park.park_code = *68

features.call_park.park_retrieve_code = *88

After provisioning, the call park mode is set to FAC. A **Park** soft key will display on the phone during an active call, and a **Retrieve** soft key will display on the Dialing screen. You can press the **Park** soft key to park a call or press the **Retrieve** soft key to retrieve a parked call.

Tip: You can set a line key as a Park key or a Retrieve key, specify an extension you want to park a call to for Park key and specify a parked extension you want to retrieve a parked call from for Retrieve key. For more information, refer to Line Keys.

Example: Setting Call Park and Retrieve in Transfer Mode

The following example shows the configuration for Transfer call park mode.

Example

features.call_park.park_mode = 2 features.call_park.enable = 1 features.call_park.park_code = *01 features.call_park.park_retrieve_code = *11

After provisioning, the call park mode is set to Transfer. A **Park** soft key will display on the phone during an active call and a **Retrieve** soft key will display on the Dialing screen. You can press the **Park** soft key to park a call to the shared parking lot "*01", or press the **Retrieve** soft key to retrieve the parked call from the shared parking lot "*01" using the retrieve code "*11".

Tip: You can set a line key as a Park key or a Retrieve key, specify a shared parking lot you want to park a call to for Park key and specify a retrieve lot you want to retrieve a parked call from for Retrieve key. For more information, refer to Line Keys.

Automatic Call Distribution (ACD)

ACD enables the use of phones in a call-center role by automatically distributing incoming calls to available users or agents. You can enable users to use their phone in a call center agent/a supervisor role on a supported call server.

The users can sign in and sign out of the ACD state as call center agent using soft keys. The server distributes calls to the agent when the agent state is available, and stops distributing calls when the agent changes state to unavailable. The IP phone remains in the unavailable status until the agent manually changes the IP phone status. You can configure how long the IP phone remains unavailable state and changes to available automatically on a supported call server.

Topics

ACD Key Configuration ACD Configuration Example: Setting ACD

ACD Key Configuration

You can configure a dsskey as ACD key to log into the ACD system. The ACD key on the IP phone indicates the ACD state.

The following shows configuration for an ACD key.

linekey.X.type = 42

linekey.X.label = ACD

After provisioning, an ACD key is available on the phone, and you can press the ACD key to log into the ACD system.

ACD Configuration

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

Parameter	account.X.acd.enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the ACD feature.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	account.X.acd.available ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to display the Available/Avail or Unavailable/Unavail soft key after the phone logs into the ACD system.Note: It works only if "account.X.acd.enable" is set to 1 (Enabled).		

De mar itte el			
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	account.X.subscribe_acd_expires ^[1]	<mac>.cfg</mac>	
Description	It configures the period (in seconds) of ACD subscription.		
	Note: It works only if "account.X.acd.enable" is set	to 1 (Enabled).	
Permitted Values	Integer from 120 to 3600		
Default	3600		
Supported Devices	All phones except CP920		
Web UI	Account > Advanced > ACD Subscribe Period(120	~3600s)	
Parameter	features.homescreen_softkey.acd.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display the ACI screen.	D softkeys such as Login or Logout on the idle	
	Note: It works only if "account.X.acd.enable" is set to 1 (Enabled).		
Permitted Values	0 -Disabled 1 -Enabled		
Default	1		
Parameter	account.X.acd.unavailable_reason_enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the unavailable/away reasor	n code feature.	
	Note: It works only if "account.X.acd.available" is se	et to 1 (Enabled).	
Permitted	0-Disabled		
Values	1 -Enabled, the unavailable/away reason of agent state will be displayed on the phone screen (for example, on lunch, in the bathroom, taking a coffee break or a personal break).		
Default	0		
Parameter	acd.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to automatically change the status of the ACD agent to available a the designated time.		
	Note: It works only if "account.X.acd.enable" is set to 1 (Enabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Web UI	Features > ACD > ACD > ACD Available Auto		
Parameter	acd.auto_available_timer	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the interval (in seconds) for the status of the ACD agent to be automatically changed to available.		
	Note: It works only if "account.X.acd.enable" and "acd.enable" are set to 1 (Enabled).		
Permitted Values	Integer from 0 to 120		

Default	60
Web UI	Features > ACD > ACD > ACD Auto Available Timer (0~120s)

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Example: Setting ACD

The following example shows the configuration for ACD.

Example

######Set an ACD for account 1#######

account.1.acd.enable = 1

account.1.acd.available = 1

account.1.subscribe_acd_expires = 3000

acd.enable = 1

acd.auto_available_timer = 60

features.homescreen_softkey.acd.enable = 1

linekey.1.type=42

linekey.1.label=ACD

After provisioning, you can press the **Login** soft key or ACD key to log into the ACD system. After logging into the ACD system, **Available** (**Avail**)/**Unavailable** (**Unavail**) soft key appears on the phone screen. You can press **Available** (**Avail**)/**Unavailable** (**Unavail**) soft key to change ACD state. The ACD key on the IP phone indicates the ACD state.

Busy Lamp Field

The Busy Lamp Field (BLF) feature enables the IP phone to monitor specific remote lines for state changes on the phone. It is not available on the T30P/T30/T19(P) E2/CP920 IP 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 Key Configuration BLF List Configuration State Indicator of Remote Line BLF/BLF List Subscription Visual and Audio Alert for Monitor Lines LED Mode for BLF/BLF List Key BLF/BLF List Key LED Status and Behavior Configuration BLF Key for Intercom Configuration Call Information Display Configuration

BLF Key Configuration

You can configure a BLF key for a specific line.

The following shows the configuration of a BLF key for Bill.

linekey.X.type=16

linekey.X.line=1

linekey.X.value=1001

linekey.X.label=Bill

Related Topic

Line Keys Configuration

BLF List Configuration

You can configure a BLF List for monitor phone. It enables the monitor phone to subscribe to a list of lines, and receive status notifications of the monitored lines.

Note: The IP phone subscribes to a BLF list that is set up on the server. You must access the server and set up a list of monitored lines.

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

Parameter	account.X.blf.blf_list_uri ^[1]	<mac>.cfg</mac>	
	It configures the BLF List URI to monitor a list of users for account X.		
Description	Example:		
	account.1.blf.blf_list_uri = 4609@pbx.test.com		
Permitted Values	SIP URI within 256 characters		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Account > Advanced > BLF List URI		
Parameter	account.X.blf_list_code ^[1]	<mac>.cfg</mac>	
Description	It configures the feature access code that initiates a directed call pickup for account X.		
Permitted Values	String within 32 characters		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Account > Advanced > BLF List Pickup Code		
Parameter	account.X.blf_list_barge_in_code ^[1]	<mac>.cfg</mac>	

Description	It configures the feature access code of directed call pickup with barge-in for account X.		
Permitted Values	String within 32 characters		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Account > Advanced > BLF List Barge in Code		
Parameter	account.X.blf_list_call_parked_code ^[1] <mac>.cfg</mac>		
Description	It configures the feature access code of call park for account X.		
Permitted Values	String within 32 characters		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920		
Web UI	Account > Advanced > BLF List Call Parked Code		
Parameter	account.X.blf_list_call_parked_list ^[1] <mac>.cfg</mac>		
	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. Example: account.1.blf_list_call_parked_list = When you leave it blank, you cannot park the active call to any monitored user. account.1.blf_list_call_parked_list = all		
	You can park the active call to any monitored user. account.1.blf_list_call_parked_list = 1,3,4 You can park the active call to the first, third or fourth monitored user in the BLF list. Note: This parameter has a higher priority than "transfer.dsskey_deal_type", so that when you prest 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.		
Values	Blank all serial numbers of monitored users in the BLF list		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920		
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.		

Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Account > Advanced > BLF List Retrieve Call Parke	ed Code	
Parameter	phone_setting.auto_blf_list_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to automatically co	onfigure the BLF list DSS keys in order.	
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	phone_setting.blf_list_sequence_type	<y000000000xx>.cfg</y000000000xx>	
	It configures the order of BLF list DSS keys assigned automatically. Note: It works only if "phone_setting.auto_blf_list_enable" is set to 1 (Enabled). To assign Ext Key, make sure the expansion module has been connected to the phone in advance. 0-linekey > exp1 key > expN key 1-exp1 key > expN key > linekey 2-linekey page1 > page1 from exp1 key to expN key > page2 from exp1 key to expN key > > linekey from page2 to page3		
	3 -page1 from exp1 key to expN key > page2 from exp1 key to expN key > > linekey Note : N is the number of your connected expansion modules.		
Default	0		
Supported Devices	T57W, T54W, T53W, T53, T48U, T48S, T48G, T46U, T46S, T46G, T43U, T29G, T27G		
Parameter	features.blf_list_version ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to include the Version header in the BLF list NOTIFY message sent by the server.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42U/T42G/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2.

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

State Indicator of Remote Line

The state indicator of the monitored line on BLF/BLF List key varies by phone models.

The following table shows the LED/icons indicator associated with the line you are monitoring.

	Icons		Description	
LED Status	T48U/T48S/T48G	T46U/T46S/T46G/T29G	T57W/T54W/T33P/T33G	Description
Solid green	<u> </u>	e	1	The monitored line is idle.
Fast-flashing	(Flashing)	4	(Flashing on T57W)	The monitored line is ringing.
red	(Flashing)		(Flashing on T57W)	The monitored line is dial- ing.
Solid red	<u> </u>	s a	1	The monitored line is busy or in a call.
Slowly-flash-	2	2	2.	The monitored line places a call on hold.
ing red	<u>_</u>	2	<u> </u>	A call is parked to the mon- itored line.
Off		2	2.	The monitored line fails to register or does not exist.

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 xmlns="urn:ietf:params:xml:ns:dialog-info" version="1" state="full" entity-
y="sip:012@10.20.10.42:5060">
```

<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"?>

kmlns="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	All phones except T30P, T30, T19(P) E2 and CP92	0	
Web UI	Account > Advanced > Subscription Period (Secon	ds)	
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	All phones except T30P, T30, T19(P) E2 and CP920		
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	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Account > Advanced > Out Dialog BLF		
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	1-Enabled, the phone can only recognize the NOTIFY message whose host field is the same as the one in the SUBSCRIBE message.		

Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	sip.terminate_notify_sub_delay_time	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the interval (in seconds) for the phone to re-subscribe when it receives the NOTIFY mes- sage with the subscription state of Terminated.		
	If it is set to 0, the phone will re-subscribe immediat	ely.	
Permitted Values	Integer greater than 0		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0	
Parameter	sip.sub_refresh_random	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to use the random Note : It works only if "account.X.subscribe_expires.		
Permitted Values	 0-Disabled 1-Enabled, the phone will generate a random value renewal time plus the random value. 	e. The final renewal time is equal to the original	
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	features.blf_extension.mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the function of the extension value when the dsskey type is set to BLF. Note : The URI to which the SUBSCRIBE message should be sent is always the <i>BLF value@<server-< i=""> <i>IPaddress></i>.</server-<></i>		
Permitted	0-Act as the user part of the SIP URI in a SIP INVITI	E message when pressing the BLF key	
Values	1-Act as the pickup code when picking up incoming	g calls to another phone	
Default	1		
	Application scenarios (features.blf_extension.mode = 0):		
	The phone supports configuring BLF when SIP user is different from the number of the extension.		
	For example:		
	Set the SIP user (user part of the SIP URI) to be juhaszandrea@<serveripaddress></serveripaddress> , and the cor- responding number of extension is 3060@<serveripaddress></serveripaddress> on the server.		
Case Scen- ario	Set the BLF key on the phone:		
	linekey.1.type = 16		
	linekey.1.value = juhaszandrea		
	linekey.1.extension = 3060		
	Result:		
	1. The URI to which the SUBSCRIBE message is juhaszandrea@ <serverlpaddress>.</serverlpaddress>		
	2. The phone dials out 3060@<serverlpaddress></serverlpaddress> when pressing the BLF key.		
Supported	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920		

Devices	
Related	linekey.X.type/expansion_module.X.key.Y.type linekey.X.extension/expansion_module.X.key.Y.extension
	linekey.X.value/expansion_module.X.key.Y.value

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42U/T42G/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2.

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.

You can configure how the phone displays the caller ID and set a distinctive alert tone for multiple BLF lines.

Topics

Visual and Audio Alert for BLF Lines Configuration Example: Configuring Visual and Audio Alert for Monitor Lines

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	features.pickup.blf_visual_enable	<y000000000xx> .cfg</y000000000xx>	
Description	It enables or disables the phone to display a visual alert when the monitored user receives an incom- ing call.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0	
Web UI	Features > Pickup & Park > Visual Alert for BLF Pickup		
Parameter	features.pickup.blf_visual.list <y000000000xx>.cfg</y000000000xx>		
Description	reatures.pickup.blf_visual.list <y000000000xx>.ctg It configures the monitored users who want to enable the visual alert for BLF pickup feature. Multiple monitored users are separated by commas. Example: features.pickup.blf_visual.list = any or leave it blank The phone displays a visual alert when any monitored user receives an incoming call. features.pickup.blf_visual.list = 4604,4605 The phone displays a visual alert when monitored user 4604 or 4605 receives an incoming call. features.pickup.blf_visual.list = List1 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 "features.pickup.blf_visual_enable" is set to 1 (Enabled).</y000000000xx>		
Velues	any Monitored phone number		

	ListX ^[1]		
Default	any		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920		
Parameter	features.pickup.blf_audio_enable <y00000000xx>.cfg</y00000000xx>		
Description	It enables or disables the phone to play an audio a call.	lert when the monitored user receives an incoming	
	0-Disabled		
Values Default	1-Enabled		
	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0	
Web UI	Features > Pickup & Park > Audio Alert for BLF Picl	kup	
Parameter	features.pickup.blf_audio.list	<y000000000xx>.cfg</y000000000xx>	
	It configures the monitored users who want to enab	le the audio alert for BLF pickup feature.	
	Multiple monitored users are separated by commas.		
	Example:		
	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.		
Description	features.pickup.blf_audio.list = 4604,4605		
	The IP phone plays an audio alert when monitored user 4604 or 4605 receives an incoming call.		
	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 "features.pickup.blf_audio_en	able" is set to 1 (Enabled).	
Da una litta al	any		
Permitted Values	Monitored phone number		
	ListX ^[1]		
Default	any		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920		
Parameter	features.blf.ring_type	<y000000000xx>.cfg</y000000000xx>	
Description	It configures an alert tone to play when a monitored line rings.		
Description	Note: It works only if "features.pickup.blf_audio_enable" is set to 1 (Enabled).		
	Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Config:Customring.wav).		
Permitted Values	For T3 phones:		
	Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav)		

Defeut	On the state of th		
Default	Splash.wav		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Features > Pickup & Park > Ring Type for BLF Pick	up	
	Color Screen Phones:		
Phone UI	Menu > Basic > Sound > BLF Ring Type		
	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Sound > BLF R	ing Type	
Parameter	features.pickup_display.method	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the display method of the call party infe	ormation on the visual prompt.	
Description	Note: It works only if "features.pickup.blf_visual_en	able" is set to 1 (Enabled).	
	0-Name		
Permitted	1-Number		
Values	2-Name Number		
	3-Number Name		
Default	2		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	features.blf_pickup_only_send_code	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to only dial out feature access code of directed pick up when per- forming BLF/BLF list pickup.		
Permitted	0 -Disabled, the phone dials out feature access code of directed pick up plus monitored number when performing BLF/BLF list pickup.		
Values	1-Enabled		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42U/T42G/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2.

Example: Configuring Visual and Audio Alert for Monitor Lines

The following example shows the configuration for visual and audio for a monitor line.

Scenario Conditions	Related Topic
linekey.1.pickup_value = *97	
or	
account.1.direct_pickup_code = *97	Line Keys Configuration Directed Call Pickup
or	
features.pickup.direct_pickup_code = *97	
linekey.1.type = 16	BLF Key Configuration

linekey.1.line = 1	
linekey.1.value = 1001	
linekey.1.label = Bill	

Example

features.pickup.blf_visual_enable = 1

features.pickup.blf_audio_enable = 1

When the monitored line receives an incoming call, the phone screen shows an incoming call to the monitored line (for example, "6001<-6002", 6001 is the monitored extension which receives an incoming call from 6002) (from 1008 to 1001), the following occurs on the phone:

- The phone plays a specific alert tone.
- The BLF key LED flashes red. On the T57W/T48U/T48S/T48G IP phone, the icon 1/2 flashes.
- The caller ID appears on the phone screen.

The following shows a visual alert for monitor line on T46S/G phones:

	Calls f	or Pickup	0/1
1. 1001 <- 1	008		
Pick Up	Send	New Call	Cancel

You can pick up the call to the monitored line, place a call to the monitored line, place a new call or back to the idle screen.

LED Mode for BLF/BLF List Key

BLF LED Mode provides five kinds of definition for the BLF/BLF List key LED status. As there is no hard line key on T57W/T48U/T48S/T48G phones, BLF LED mode configuration is applicable to any phones and expansion module, except T57W/T48U/T48S/T48G and T30P/T30/T19(P) E2/CP920 phones.

Topics

Supported BLF LED Modes BLF LED Mode Configuration

Supported BLF LED Modes

The following table lists the LED statuses of the BLF/BLF list key when BLF LED Mode is set to 0, 1, 2, 3 or 4 respectively. The default value of BLF LED mode is 0.

Line key/Expansion Module Key LED (configured as a BLF key or a BLF List key and BLF LED Mode is set to 0)

LED Status	Description
Solid green	The monitored user is idle.
Fast-flashing red (200ms)	The monitored user receives an incoming call.
Solid red	The monitored user is dialing. The monitored user is talking.

LED Status	Description
	The monitored user's conversation is placed on hold (This LED status requires server support).
Slowly-flashing red (1s)	The call is parked against the monitored user's phone number.
Off	The monitored user does not exist.

Line Key/Expansion Module Key LED (configured as a BLF key or a BLF List key and BLF LED Mode is set to 1)

LED Status	Description	
Fast-flashing red (200ms)	The monitored user receives an incoming call.	
	The monitored user is dialing.	
Solid red	The monitored user is talking.	
	The monitored user's conversation is placed on hold (This LED status requires server sup- port).	
Slowly-flashing red (1s)	The call is parked against the monitored user's phone number.	
Off	The monitored user is idle.	
	The monitored user does not exist.	

Line Key/Expansion Module Key LED (configured as a BLF key or a BLF List key and BLF LED Mode is set to 2)

LED Status	Description	
Fast-flashing red (200ms)	The monitored user receives an incoming call.	
	The monitored user is dialing.	
Solid red	The monitored user is talking.	
	The monitored user's conversation is placed on hold (This LED status requires server sup- port).	
Slowly-flashing red (1s)	The call is parked against the monitored user's phone number.	
0#	The monitored user is idle.	
Off	The monitored user does not exist.	

Line Key/Expansion Module Key LED (configured as a BLF key or a BLF List key and BLF LED Mode is set to 3)

LED Status	Description	
Fast-flashing green (200ms) The monitored user receives an incoming calls		
	The monitored user is dialing.	
Solid red	The monitored user is talking.	
	The monitored user's conversation is placed on hold (This LED status requires server support).	
Slowly-flashing red (1s) The call is parked against the monitored user's phone number.		
0#	The monitored user is idle.	
Off	The monitored user does not exist.	

Line Key/Expansion Module Key LED (configured as a BLF key or a BLF List key and BLF LED Mode is set to 4. This mode is specifically designed for the Ribbon server.)

LED Status	Description
Solid green	The monitored user is talking.
Slowly-flashing green (1s)	The monitored user does not exist.
Off	The monitored user is idle.

BLF LED Mode Configuration

The following table lists the parameters you can use to configure BLF LED Mode.

Parameter	features.blf_led_mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures the BLF LED mode.	
Permitted Values	0,1,2,3,4 (4 is specifically designed for the Ribbon server)	
Default	0	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920	
Web UI	Features > General Information > BLF LED Mode	

BLF/BLF List Key LED Status and Behavior Configuration

You can customize the BLF LED status (or the color of BLF icon for T57W/T48U/T48S/T48G phones) and BLF/BLF List key behavior using the EDK macros if required.

This feature depends on support from a SIP server.

Note: For more information on EDK macros, refer to Macro Action Strings.

Topics

Supported BLF/BLF List Key Behaviors BLF Key LED/lcon and Behavior for Idle State Configuration BLF Key LED/lcon and Behavior for Call-in State Configuration BLF Key LED/lcon and Behavior for Call-out State Configuration BLF Key LED/lcon and Behavior for Talking State Configuration BLF Key LED/lcon and Behavior for Parked-Against State Configuration BLF Key LED/lcon and Behavior for Hold State Configuration BLF Key LED/lcon and Behavior for DND State Configuration

Supported BLF/BLF List Key Behaviors

The following behaviors are supported when pressing the BLF/BLF List keys:

- newcall dial out the phone number
- btransfer transfer the active call to the monitored user without consulting
- · ctransfer transfer the active call to the monitored user with prior consulting
- pickup pick up the call directly
- bargein barge in and set up a conference call
- custom EDK macros (for example, 1234\$Tinvite\$) execute a series of macro action strings
- intercom place an intercom call to the monitored number
- park park the call to the monitored user, it works only when configuring "blf.enhanced.idle.talking.action"

• **retrieve** - retrieve a call from the monitored user, it works only when configuring "blf.enhanced.parked.callin.action", "blf.enhanced.parked.talking.action" and "blf.enhanced.parked.idle.action"

Related Topic

Macro Action Strings

BLF Key LED/Icon and Behavior for Idle State Configuration

The following table lists the parameters you can use to configure BLF key LED/icon and Behavior for the idle state (the monitored user is idle).

Parameter	blf.enhanced.idle.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the custom configuration when the monitored user is idle.		
Permitted Values	 0-Disabled 1-Enabled, the phone will display the custom BLF/BLF List DSS key LED status/icon colors and perform the custom behavior when pressing the BLF/BLF List DSS key. 		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.idle.led	<y000000000xx>.cfg</y000000000xx>	
	It configures the custom BLF/BLF List DSS key LED	status/icon colors when the monitored user is idle.	
	This value uses the same macro action string synta	x as an Enhanced DSS key.	
	Example:		
Description	blf.enhanced.idle.led = \$LEDg1000o\$		
•	For T57W/T48U/T48S/T48G phones, the BLF/BLF List DSS key field displays a green icon for 1000ms and then turns to white.		
	For other phones, the BLF/BLF list DSS key LED glows green for 1000ms and then goes out.		
	Note: It works only if "blf.enhanced.idle.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.idle.callin.action	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor is ringing and mon- itored user is idle. Note: It works only if "blf.enhanced.idle.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.idle.talking.action	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor is talking and mon- itored user is idle.		

	Note: It works only if "blf.enhanced.idle.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.idle.idle.action <y00000000xx>.cfg</y00000000xx>		
Description	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor and monitored user are idle. Note: It works only if "blf.enhanced.idle.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0	

BLF Key LED/Icon and Behavior for Call-in State Configuration

The following table lists the parameters you can use to configure BLF key LED/icon and Behavior for the call-in state (the monitored user is ringing).

Parameter	blf.enhanced.callin.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the custom configuration when the monitored user is ringing.		
Permitted Values	 0-Disabled 1-Enabled, the phone will display the custom BLF/BLF List DSS key LED status/icon colors and perform the custom behavior when pressing the BLF/BLF List DSS key. 		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.callin.led	<y000000000xx>.cfg</y000000000xx>	
	t configures the custom BLF/BLF List DSS key LED status/icon colors when the monitored user is inging.		
	This value uses the same macro action string synta	x as an Enhanced DSS key.	
	Example: h blf.enhanced.callin.led = \$LEDg10000\$ For T57W/T48U/T48S/T48G phones, the BLF/BLF List DSS key field displays a green icon for 1000ms and then turns to white. For other phones, the BLF/BLF list DSS key LED glows green for 1000ms and then goes out.		
Description			
	Note: It works only if "blf.enhanced.callin.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

Parameter	blf.enhanced.callin.callin.action	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor and monitored use are ringing.		
	Note: It works only if "blf.enhanced.callin.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.callin.talking.action	<y000000000xx>.cfg</y000000000xx>	
	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor is talking and mon- tion itored user is ringing. Note: It works only if "blf.enhanced.callin.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.callin.idle.action	<y000000000xx>.cfg</y000000000xx>	
	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor is idle and monitored user is ringing.		
	Note: It works only if "blf.enhanced.callin.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

BLF Key LED/Icon and Behavior for Call-out State Configuration

The following table lists the parameters you can use to configure BLF key LED/icon and Behavior for the call-out state (the monitored user is calling out).

Parameter	blf.enhanced.callout.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the custom configuration when the monitored user is calling out.		
Permitted Values	 0-Disabled 1-Enabled, the phone will display the custom BLF/BLF List DSS key LED status/icon colors and perform the custom behavior when pressing the BLF/BLF List DSS key. 		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.callout.led	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the custom BLF/BLF List DSS key LED status/icon colors when the monitored user is call- ing out. This value uses the same macro action string syntax as an Enhanced DSS key.		

	Example:		
	blf.enhanced.callout.led = \$LEDg1000o\$		
	For T57W/T48U/T48S/T48G phones, the BLF/BLF List DSS key field displays a green icon for 1000ms and then turns to white.		
	For other phones, the BLF/BLF list DSS key LED glows green for 1000ms and then goes out.		
	Note: It works only if "blf.enhanced.callout.enable" is	set to 1 (Enabled).	
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.callout.callin.action <	y000000000xx>.cfg	
Description	It configures the behavior when pressing the BLF/BL itored user is calling out.	F list DSS key if the monitor is ringing and mon-	
	Note: It works only if "blf.enhanced.callout.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.callout.talking.action <	y000000000xx>.cfg	
Description	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor is talking and mon- itored user is calling out.		
	Note: It works only if "blf.enhanced.callout.enable" is	set to 1 (Enabled).	
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.callout.idle.action <	y000000000xx>.cfg	
	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor is idle and monitored user is calling out.		
	Note: It works only if "blf.enhanced.callout.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

BLF Key LED/Icon and Behavior for Talking State Configuration

The following table lists the parameters you can use to configure BLF key LED/icon and Behavior for talking state (the monitored user is talking).

Parameter blf.enhanced.talking.enable	<y000000000xx>.cfg</y000000000xx>
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Description	It enables or disables the custom configuration when the monitored user is talking.		
Permitted	0-Disabled		
Values	1-Enabled, the phone will display the custom BLF/BLF List DSS key LED status/icon colors and per- form the custom behavior when pressing the BLF/BLF List DSS key.		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0	
Parameter	blf.enhanced.talking.led <y00000000xx>.cfg</y00000000xx>		
	It configures the custom BLF/BLF List DSS key LED status/icon colors when the monitored user is talk ing.		
	This value uses the same macro action string synta	ix as an Enhanced DSS key.	
	Example:		
Description	blf.enhanced.talking.led = \$LEDg1000o\$		
	For T57W/T48U/T48S/T48G phones, the BLF/BLF I and then turns to white.	ist DSS key field displays a green icon for 1000ms.	
	For other phones, the BLF/BLF list DSS key LED gl	ows green for 1000ms and then goes out.	
	Note: It works only if "blf.enhanced.talking.enable"	is set to 1 (Enabled).	
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0	
Parameter	blf.enhanced.talking.callin.action	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the behavior when pressing the BLF/E itored user is talking.		
Permitted	Note: It works only if "blf.enhanced.talking.enable"	is set to 1 (Enabled).	
Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.talking.talking.action	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor and monitored user are talking.		
	Note: It works only if "blf.enhanced.talking.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.talking.idle.action <y00000000xx>.cfg</y00000000xx>		
Description	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor is idle and monitored		

	user is talking.
	Note: It works only if "blf.enhanced.talking.enable" is set to 1 (Enabled).
Permitted Values	String
Default	Blank
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920

BLF Key LED/Icon and Behavior for Parked-Against State Configuration

The following table lists the parameters you can use to configure BLF key LED/icon and Behavior for the parked against state (a call is being parked against the monitored phone).

Parameter	blf.enhanced.parked.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the custom configuration when a call is parked against the monitored phone.		
Permitted	0-Disabled		
Values	1-Enabled, the phone will display the custom BLF/BLF List DSS key LED status/icon colors and per- form the custom behavior when pressing the BLF/BLF List DSS key.		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0	
Parameter	blf.enhanced.parked.led	<y000000000xx>.cfg</y000000000xx>	
	It configures the custom BLF/BLF List DSS key LED the monitored phone.	status/icon colors when a call is parked against	
	This value uses the same macro action string synta	x as an Enhanced DSS key.	
	Example:		
Description	blf.enhanced.parked.led = \$LEDg1000o\$		
	For T57W/T48U/T48S/T48G phones, the BLF/BLF List DSS key field displays a green icon for 1000ms and then turns to white.		
	For other phones, the BLF/BLF list DSS key LED glows green for 1000ms and then goes out.		
	Note: It works only if "blf.enhanced.parked.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	blf.enhanced.parked.callin.action	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor is ringing and a call is parked against the monitored phone.		
	Note: It works only if "blf.enhanced.parked.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported	All phones except T30P, T30, T19(P) E2 and CP920		
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Devices			
Parameter	blf.enhanced.parked.talking.action	<y000000000xx>.cfg</y000000000xx>	
	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor is talking and a call is parked against the monitored phone.		
	This value uses the same macro action string synta	x as an Enhanced DSS key.	
Description	Example:		
	blf.enhanced.parked.talking.action = newcall		
	Note: It works only if "blf.enhanced.parked.enable"	is set to 1 (Enabled).	
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP92	0	
Parameter	blf.enhanced.parked.idle.action	<y000000000xx>.cfg</y000000000xx>	
	It configures the behavior when pressing the BLF/BLF list DSS key if the monitor is idle and a call is parked against the monitored phone.		
	This value uses the same macro action string synta	x as an Enhanced DSS key.	
Description	Example:		
	blf.enhanced.parked.idle.action = newcall		
	Note: It works only if "blf.enhanced.parked.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

BLF Key LED/Icon and Behavior for Hold State Configuration

The following table lists the parameters you can use to configure BLF key LED/icon and Behavior for hold state (the call on the monitored phone is placed on hold).

Parameter	blf.enhanced.hold.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the custom configuration when the call on the monitored phone is placed on hold.		
Velues	 0-Disabled 1-Enabled, the phone will display the custom BLF/BLF List DSS key LED status/icon colors. 		
Default	0		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920		
Parameter	blf.enhanced.hold.led	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the custom BLF/BLF List DSS key LED status/icon colors when the call on the monitored phone is placed on hold. This value uses the same macro action string syntax as an Enhanced DSS key.		

	Example:	
	blf.enhanced.hold.led = \$LEDg1000o\$	
	For T57W/T48U/T48S phones, the BLF/BLF List DSS key field displays a green icon for 1000ms and then turns to white.	
	For other phones, the BLF/BLF list DSS key LED glows green for 1000ms and then goes out.	
	Note: It works only if "blf.enhanced.hold.enable" is set to 1 (Enabled).	
Permitted Values	String	
Default	Blank	
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920	

BLF Key LED/Icon and Behavior for DND State Configuration

The following table lists the parameters you can use to configure BLF key LED/icon and Behavior for DND state (DND is activated on the monitored phone).

Parameter	blf.enhanced.dnd.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the custom configuration when DND is activated on the monitored phone.		
Permitted	0-Disabled		
Values	1-Enabled, the phone will display the custom BLF/	BLF List DSS key LED status/icon colors.	
Default	0		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P	, T30, T29G, T19(P) E2 and CP920	
Parameter	blf.enhanced.dnd.led	<y000000000xx>.cfg</y000000000xx>	
	It configures the custom BLF/BLF List DSS key LED status/icon colors when DND is activated on the monitored phone.		
	This value uses the same macro action string syntax as an Enhanced DSS key.		
	Example:		
Description	blf.enhanced.dnd.led = \$LEDrd1000o100yd300\$		
	For T57W/T48U/T48S phones, an infinite loop for the BLF/BLF List DSS key field: displays a red icon for 1000ms, turns to white for 100ms and then displays a yellow icon for 300ms.		
	For other phones, an infinite loop for the BLF/BLF list DSS key LED status: glows red for 1000ms, be in the off state for 100ms and then glows yellow for 300ms.		
	Note: It works only if "blf.enhanced.dnd.enable" is set to 1 (Enabled).		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920		

BLF Key for Intercom Configuration

The BLF key (not include BLF List key) can also be used to initiate an intercom call.

The following table lists the parameter you can use to configure BLF key for Intercom.

Parameter	features.blf.intercom_mode.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to initiate an outgoing intercom call with a monitored user when pressing the BLF key. Note : To use this feature, you also need to configure the intercom mode (configured by the parameter "features.intercom.mode").	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920	

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 call 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	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920	

Shared Line

Yealink phones support Shared Call Appearance (SCA) and Bridged Line Appearance (BLA) to share a line. Shared call appearances and bridged line appearances are similar signaling methods that 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
- Barge in an active call (only SCA)
- Pull a shared call (only SCA)

Topics

State Indicator of Shared Line Shared Call Appearance (SCA) Configuration Bridge Lines Appearance (BLA)

State Indicator of Shared Line

The shared line is indicated by different line key icon. Line key icon is not available on the T30P/T30/T19(P) E2 phones.

The following table shows the LED/icons indicator associated with the shared line:

Line Key LED	Icon			
except for T57W/T48U/T48S/T48G/T19 (P) E2/CP920	T48U/T48S/T48G	T46U/T46S/T46G/T29G	T57W/T54W/T33P/T33G	Description
Off	(2	9	The shared line is idle.
Solid green	(Monitoring SCA Phone)	(Monitoring SCA Phone)	(Monitoring SCA Phone)	The shared line is seized.
Fast-flashing green	(Flashing)	2	(Flashing on T57W)	The shared line receives an incom- ing call.
Solid green	(Flashing)	2	9 (Flashing on T57W)	The shared line is dialing.
Solid green	1	2	2	The shared line is busy or is in a call.
Slowly-flashing green (Local Phone) Slowly-flashing red (other Phones)		2		The call on the shared line is placed on public hold.
Slowly-flashing green (local Phone) Solid red (other Phone)	(Local SCA Phone) (Othe Phone)	(Local SCA Phone) (Local SCA Phone) (Othe Phone)	(Local SCA Phone) (Othe Phone)	The call on the shared line is placed on private hold.
Solid green	<u>\$</u> 2	2	R	The call on the shared line is barged in by the other shared line user.
Slowly-flashing green	S.	a	2	In a multi-party call, place the call on hold at local.

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.

You have the option to provide users the ability to do the following:

- Configure a private hold soft key or Private Hold key and provide users the ability to hold a call privately.
- Configure a call pull code, which allows users to retrieve an existing call from another shared phone that is in an active or public hold status.

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	It configures the line-seize subscription expiration time (in second	ls).	
Description	Note: It works only if "account.X.shared_line" is set to 1 (Shared C	Call Appearance).	
Permitted Values	Integer from 0 to 65535		
Default	15		
Parameter	account.X.shared_line_callpull_code ^[1]	<mac>.cfg</mac>	
	It configures the call pull feature access code to retrieve an existin that is in an active or public hold status.	ng call from another shared phone	
	Note: It works only if "account.X.shared_line" is set to 1 (Shared C	Call Appearance).	
Permitted Values	String within 99 characters		
Default	Blank		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Account > Advanced > Call Pull Feature Access Code		
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.		
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 T30P, T30, T19(P) E2 and CP920		
Parameter	phone_setting.call_remote_end_when_hold.busy_tone.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to play a busy tone when a public hold call on the shared line is retrieved by the remote party.		
	Note: It works only if "features.busy_tone_delay" is not set to 0.		
Velvee	0-Disabled 1-Enabled		
Default	1		
Supported	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S,	T42S, T41S, T33P, T33G, T31P,	

Devices	T31G, T31, T30P, T30, T27G and CP920		
Parameter	account.X.shared_line.idle_details ^[1] <y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to display the basic SCA call info	rmation on the idle screen.	
	Call Appearance).		
Permitted	0-Disabled		
Values	1-Enabled, users can also view the call details by long pressing the SCA line key.		
Default	0		
Supported	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S,	T42S, T41S, T33P, T33G, T31P,	
Devices	T31G, T31, T30P, T30 and T27G		

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Bridge Lines Appearance (BLA)

BLA allows users to share a SIP line on two or more phones. Users can monitor the specific extension (BLA number) for status changes on each IP phone. To use this feature, a BLA group should be pre-configured on the server and one of them is specified as a BLA number.

Yealink phones support BLA using a SUBSCRIBE/NOTIFY mechanism as specified in RFC 3265. The event used is: "dialog" for bridged line appearance subscribe and notify.

Topic

BLA Configuration

BLA Configuration

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

Parameter	account.X.shared_line ^[1]	<mac>.cfg</mac>
Description	It configures the registration line type.	
Permitted	0-Disabled	
Values	3-Draft BLA	
Default	0	
Web UI	Account > Advanced > Shared Line	
Parameter	account.X.bla_number ^[1]	<mac>.cfg</mac>
	It configures the BLA number.	
Description	Note: It works only if "account.X.shared_line" is set to 3 (Draft BLA).	
Permitted Values	String within 99 characters	
Default	Blank	
Web UI	Account > Advanced > BLA Number	
Parameter	account.X.bla.notify_with_expire.enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to add the Expires attribute to the Subscription-State header of the BLA NOTIFY message.	
	Note: It works only if "account.X.shared_line" is set to 3 (Draft BLA). For teltronnic BLA, you need to set	

Values 1-Enabled Default 1 Supported Devices All phones except T30P/T30/T19(P) E2 Parameter account X.bla.subscribe_uri_build_type ^[1] It configures the constitution of the URI for BLA subscription. Description Note: It works only if "account X.shared_line" is set to 3 (Draft BLA). For telfronnic BLA, you need to set the value of this parameter to 1 (Enabled). Permitted 0-From Contact header in the SUBSCRIBE message sent by the server 1-According to the BLA number (configured by the parameter "account X.bla_number") Default 0 Supported All phones except T30P/T30/T19(P) E2 Parameter account X.bla_subscribe_period ^[1] values 1.configures the period (in seconds) of the BLA subscription. Note: It works only if "account X.shared_line" is set to 3 (Draft BLA). Permitted Integer from 60 to 7200 Default 300 Supported All phones except T30P/T30/T19(P) E2 Web U1 Account > Advanced > BLA Subscription Period Parameter phone_setting.call_remote_end_when_hold.busy_tone.enable <y00000000xx>.cfg Permitted phone_setting.call_remote_end_when_hold.busy_tone.enable <y000000000xx>.cfg <</y000000000xx></y00000000xx>			
1-Enabled Default 1 Supported Devices All phones except T30P/T30/T19(P) E2 Parameter account X.bla.subscribe_uri_build_type ^[1] It configures the constitution of the URI for BLA subscription. Description Note: It works only if "account X.shared_line" is set to 3 (Draft BLA). For teltronnic BLA, you need to set the value of this parameter to 1 (Enabled). Permitted 0-From Contact header in the SUBSCRIBE message sent by the server 1-According to the BLA number (configured by the parameter "account X.bla_number") Default 0 Supported All phones except T30P/T30/T19(P) E2 Parameter account X.bla_subscribe_period ^[11] values 1. for figures the period (in seconds) of the BLA subscription. Note: It works only if "account X.shared_line" is set to 3 (Draft BLA). Permitted Integer from 60 to 7200 Default 300 Supported All phones except T30P/T30/T19(P) E2 Web U1 Account > Advanced > BLA Subscription Period Parameter phone_setting.call_remote_end_when_hold.busy_tone.enable <y00000000xx>.cfg Permitted phone_setting.call_remote_end_when_hold.busy_tone.enable <y000000000x< th=""><th></th><th colspan="2">the value of this parameter to 0 (Disabled).</th></y000000000x<></y00000000xx>		the value of this parameter to 0 (Disabled).	
Default 1 Supported Devices All phones except T30P/T30/T19(P) E2 Parameter accountX.bla.subscribe_uri_build_type ^[1] <mac>.cfg It configures the constitution of the URI for BLA subscription. Description Note: It works only if "accountX shared_line" is set to 3 (Draft BLA). For teitronnic BLA, you need to set the value of this parameter to 1 (Enabled). -From Contact header in the SUBSCRIBE message sent by the server 0 -From Contact header in the SUBSCRIBE message sent by the server 1-According to the BLA number (configured by the parameter "accountX.bla_number") Default 0 0 Supported Devices All phones except T30P/T30/T19(P) E2 Parameter accountX.bla_subscribe_period^[1] <mac>.cfg It configures the period (in seconds) of the BLA subscription. Note: It works only if "accountX.shared_line" is set to 3 (Draft BLA). Permitted Values Integer from 60 to 7200 Integer from 60 to 7200 Devices All phones except T30P/T30/T19(P) E2 Web UI Account > Advanced > BLA Subscription Period <y00000000xx>.cfg Parameter phone_setting.call_remote_end_when_hold.busy_tone.enable <y000000000xx>.cfg It enables or disables the phone to play a busy tone when a public hold call on the shared line is <th>Permitted</th><th colspan="2">0-Disabled</th></y000000000xx></y00000000xx></mac></mac>	Permitted	0-Disabled	
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	Default	1	
	Supported Devices		

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Intercom

Intercom is a useful feature in an office environment to quickly connect with the operator or the secretary. You can press the intercom key to place a call to a contact that is answered automatically on the contact's phone as long as the contact is not in an active call. In addition, the intercom key can be used for monitoring the status changes of a specific line on the phone.

Topics

Intercom Key Configuration State Monitor for Intercom Contact Outgoing Intercom Configuration Incoming Intercom Configuration

Intercom Key Configuration

You can configure an Intercom key to provide users the ability to initiate intercom calls directly to the specified contact.

The following shows configuration for an Intercom key.

Line Key Configuration	Programmable Key Configuration
linekey.X.type = 14	
linekov Vline 1	programablekey.X.type = 14
linekey.X.line = 1	programablekey.X.line = 1
linekev.X.value = 4603	
linekey.X.label = Bill	programablekey.X.value = 4603

After provisioning, an Intercom key for Bill (4603) is available on the phone. You can press the Intercom key to place an intercom call to Bill (4603).

If you want to use the Intercom key to pick up a call, you need to enable the Intercom key to monitor state changes, and configure the pickup code for the Intercom key, for example, set "linekey.X.extension = *97" or "programablekey.X.extension = *97". When the monitored user Bill (4603) receives an incoming call, you can press the Intercom key to pick up the call to Bill (4603) directly.

Note: You cannot use a programmable key to monitor an intercom contact for state changes, but press it to pick up a call.

Related Topics

Line Keys Configuration Programmable Keys Configuration State Monitor for Intercom Contact

State Monitor for Intercom Contact

You can make the phone to monitor a specific intercom user for state changes (busy or idle). When the monitored user receives an incoming call, the supervisor can press the intercom key to pick up the call directly. The phones support this feature using a SUBSCRIBE/NOTIFY mechanism as specified in RFC 3265.

Note: If you want to use the Intercom key to pick up a call, you need to configure the pickup code for the Intercom key, for example, "linekey.X.extension = *97".

Topics

State Indicator of Intercom Contact State Monitor for Intercom Contact Configuration

State Indicator of Intercom Contact

The following table shows the LED indicator associated with the Intercom key:

LED Status	Description
Solid green	The monitored user is idle.
Fast-flashing red (200ms)	The monitored user receives an incoming call.
Solid red	The monitored user is dialing.

LED Status	Description
	The monitored user is talking.
Off	The monitored user does not exist.

State Monitor for Intercom Contact Configuration

The following table lists the parameters you can use to configure state monitor for intercom contact.

Parameter	features.intercom.led.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display different intercom DSS key LED status/icons when the status of monitored user changes.		
	Note: It works only if "features.intercom.subscribe.en	able" is set to 1 (Enabled).	
Permitted	0-Disabled		
Values	1-Enabled		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Default	0		
Parameter	features.intercom.subscribe.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables intercom subscription for the phones.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

Outgoing Intercom Configuration

Yealink phones support two methods for initialing intercom calls.

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

Parameter	features.intercom.mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the intercom mode.		
Permitted	ed 0-SIP 1-FAC, the feature access code is configured by "features.intercom.feature_access_code".		
Values			
Default	0		
Parameter	features.intercom.feature_access_code	<y000000000xx>.cfg</y000000000xx>	
	It configures the intercom feature access code.		
Description	Note: It works only if "features.intercom.mode" is set to 1 (FAC).		
Permitted Values	String		
Default	Blank		
Parameter	account.X.call_info ^[1]	<mac>.cfg</mac>	
Description	It configures the value of the Call-Info header for intercom feature.		
Description	The value format likes: <sip:xxx (x="" any="" be="" can="" value)="">; answer-after=0.</sip:xxx>		

	Note: If both Call-Info header and Alert-Info header (defined by the parameter "account.X.alert_info") are configured, the Call-Info header has a higher priority than the Alert-Info header.	
Permitted Values	String within 256 characters	
Default	Blank	

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Incoming Intercom Configuration

The IP phone can process incoming calls differently depending on settings.

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

Parameter	features.intercom.allow	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to answer an inco	It enables or disables the phone to answer an incoming intercom call.		
Permitted	0 -Disabled, the phone will handle an incoming intercom call like a normal incoming call.			
Values	1-Enabled, the phone will automatically answer an	1-Enabled, the phone will automatically answer an incoming intercom call.		
Default	1			
Web UI	Features > Intercom > Intercom Allow			
Phone UI	Menu > Features > Intercom > Intercom Allow			
Parameter	features.intercom.mute	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to mute the microp	hone when answering an intercom call.		
Description	Note: It works only if "features.intercom.allow" and	features.allow_mute" are set to 1 (Enabled).		
Permitted	0-Disabled			
Values	1-Enabled, the microphone is muted for intercom c	alls, and then the other party cannot hear you.		
Default	0			
Web UI	Features > Intercom > Intercom Mute			
Phone UI	Menu > Features > Intercom > Intercom Mute			
Parameter	features.intercom.tone <y00000000xx>.cfg</y00000000xx>			
Description	It enables or disables the phone to play a warning tone when answering an intercom call. Note: It works only if "features.intercom.allow" is set to 1 (Enabled).			
Description				
Permitted Values	0-Disabled 1-Enabled			
Default	1			
Web UI	Features > Intercom > Intercom Tone			
Phone UI	Menu > Features > Intercom > Intercom Tone			
Parameter	features.intercom.barge	<y000000000xx>.cfg</y000000000xx>		
	It enables or disables the phone to answer an incoming intercom call while there is already an active			
Description	call on the IP phone. Note: It works only if "features.intercom.allow" and "call_waiting.enable" are set to 1 (Enabled) and			

	"phone_setting.call_appearance.calls_per_linekey" is greater than 1.		
Permitted	0-Disabled		
Values	1-Enabled, the phone will automatically answer the intercom call and place the active call on hold.		
Default	0		
Web UI	Features > Intercom > Intercom Barge		
Phone UI	Menu > Features > Intercom > Intercom Barge		
Parameter	features.intercom.barge_in_dialing.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the intercom call to answer a	n incoming intercom call while dialing.	
Description	Note: It works only if "features.intercom.barge" is se	et to 0 (Disabled).	
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Parameter	features.intercom.headset_prior.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the channel mode to use when receivi	ng an incoming intercom call.	
Permitted	0-Speaker Mode		
Values	1-Headset Mode, it works only if you connect the heactivated for use.	eadset to the IP phone and the headset mode is	
Default	1		
Supported Devices	All phones except CP920		
Parameter	account.X.alert_info ^[1]		
	It configures the value of the Alert-Info header for intercom feature.		
Description	The value format likes: <sip:xxx (x="" any="" be="" can="" value)="">; answer-after=0.</sip:xxx>		
	Note : If both Call-Info header (defined by the parameter "account.X.call_info") and Alert-Info header are configured, the Call-Info header has a higher priority than the Alert-Info header.		
Permitted Values	String within 256 characters		
Default	Blank		

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

CSTA Control

User Agent Computer Supported Telecommunications Applications (uaCSTA) is explained in detail in Using CSTA for SIP Phone User Agents (uaCSTA) and Services for Computer Supported Telecommunications Applications Phase III.

The uaCSTA feature on the phone may be used for remote control of the phone from computer applications such as PC softphone. You can use the application to control the phone to perform basic call operations. For example, place a call, answer a call, end a call and transfer a call to another party.

It is not applicable to T30P/T30/T19(P) E2/CP920 phones.

Topic

CSTA Control Configuration

CSTA Control Configuration

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

Parameter	features.csta_control.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the CSTA feature.		
	0-Disabled 1-Enabled		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Web UI	Features > Remote Control > CSTA Control		

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

Action URL

Action URL allows the phones 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 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.	
On Hook When the IP phone is on hook.	

Event	Description	
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.	
Open Always Forward	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.	
Close Always Forward	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.	
Open Busy Forward	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.	
Close Busy Forward	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.	
Open NoAnswer For- ward	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.	
Close NoAnswer For- ward	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 the blind transfer.	
Attended Transfer	When the IP phone performs the semi-attended/attended transfer.	
Hold	When the IP phone places a call on hold.	

Event	Description	
UnHold	When the IP phone resumes a held call.	
Held	When a call of the IP phone is held.	
UnHeld	When a held call is resumed.	
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 phone changes from busy to idle.	
Reject Incoming Call	When the IP phone rejects an incoming call.	
Answer New-In 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 via power on.	
Open Call Waiting	When the IP phone enables the call waiting.	
Close Call Waiting	When the IP phone disables the call waiting.	
Headset	When the IP phone presses the HEADSET key (not applicable to CP920 phones).	
Handfree	When the IP phone presses the Speakerphone key (not applicable to CP920 phones).	
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.
\$model	The IP phone model.

Variable Value	Description		
\$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 callee 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.		
\$exp_number	The number of connected expansion modules.		
\$ehs_number	The number of connected EHS.		
\$udisk_number	The number of connected USB flash drives.		
\$usbheadset_number	The number of connected USB headset devices.		
\$wifi_number	The number of connected Wi-Fi dongles.		
\$bluetooth_number	The number of connected Bluetooth dongles.		
\$vpn_ip	The phone IP address assigned by the VPN server.		
	The CFG configuration file contains all current configurations of the IP phone.		
\$cfg_all	Note : The valid URI is: http:// <serveripaddress>/<filename>/?variable name=\$variable value.</filename></serveripaddress>		
	Example:		
	http://10.82.21.10/Upload/?Cfg=\$cfg_all		
	The CFG configuration file contains all non-static parameters made via the phone user interface and web user interface.		
\$cfg_local	Note : It works only if "static.auto_provision.custom.protect" is set to 1 (Enabled). The valid URI is: http:// <serveripaddress>/<filename>/?variable name=\$variable value.</filename></serveripaddress>		
	Example:		
	http://10.82.21.10/Upload/?Cfg=\$cfg_local		

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:	
D	action_url.setup_completed = http://192.168.0.20/h	elp.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.>	ml?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	.xml?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Register Failed	
Parameter	action_url.off_hook <y00000000xx>.cfg</y00000000xx>	
	It configures the action URL the phone sends when off hook.	
Description	Example:	
	action_url.off_hook = http://192.168.0.20/help.xml?IP=\$ip	
Permitted Values	URL within 511 characters	

Default	Plank		
	Blank		
Web UI	Features > Action URL > Off Hook		
Parameter	action_url.on_hook <y00000000xx>.cfg</y00000000xx>		
	It configures the action URL the phone sends wher	n on hook.	
Description			
Permitted	action_url.on_hook = http://192.168.0.20/help.xml?	IP=\$ip	
Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > On Hook		
Parameter		<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends wher	n receiving an incoming call.	
Description	Example:		
Permitted	action_url.incoming_call = http://192.168.0.20/help	.xml?IP=\$ip	
Values	URL within 511 characters		
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	n 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	n establishing a call.	
Description	Example:		
	action_url.call_established = http://192.168.0.20/help.xml?IP=\$ip		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features > Action URL > Established		
Parameter	action_url.dnd_on <y00000000xx>.cfg</y00000000xx>		
	It configures the action URL the phone sends wher	DND feature is activated.	
Description	Example:		
	action_url.dnd_on = http://192.168.0.20/help.xml?IP=\$ip		

.		
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Open DND	
Parameter	action_url.dnd_off	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends when	DND feature is deactivated.
Description	Example:	
	action_url.dnd_off = http://192.168.0.20/help.xml?IF	P=\$ip
Permitted 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 when	the always forward feature is activated.
Description	Example:	
	action_url.always_fwd_on = http://192.168.0.20/help.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/hel	p.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>
Description	It configures the action URL the phone sends when the busy forward feature is deactivated.	

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 <y00000000xx>.cfg It configures the action URL the phone sends when the no answer forward feature is activated. Description Example: action_url.no_answer_fwd_on = http://192.168.0.20/help.xml?IP=\$ip Permitted URL within 511 characters Default Blank Web UI Features > Action URL > No Answer Forward On Parameter action_url.no_answer_fwd_off <y00000000xx>.cfg It configures the action URL the phone sends when the no answer forward feature is deactivated. Description Example: action_url.no_answer_fwd_off = http://192.168.0.20/help.xml?IP=\$ip Permitted URL within 511 characters <y00000000xx>.cfg Values UR within 511 characters Default Blank <y000000000xx>.cfg Permitted URL within 511 characters <y000000000xx>.cfg Default Blank <y000000000xx>.cfg Parameter action_url.transfer_call = http:/192.168.0.20/help.xml?IP=\$ip</y000000000xx></y000000000xx></y000000000xx></y00000000xx></y00000000xx></y00000000xx>		Example:	
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Parameter	action_url.attended_transfer_call	<y000000000xx>.cfg</y000000000xx>
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Permitted	URL within 511 characters	
Values		
Default	Blank	
Web UI	Features > Action URL > Attended Transfer	
Parameter	action_url.hold	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends wher	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 wher	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	a call is held.
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 when a held call is resumed.	
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 when	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?IF	P=\$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	missing 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.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	
Web UI	Features > Action URL > Terminated	
Parameter	action_url.busy_to_idle <y00000000xx>.cfg</y00000000xx>	
	It configures the action URL the phone sends when changing the state of the IP phone from busy to idle.	
Description		
	action_url.busy_to_idle = http://192.168.0.20/help.xml?IP=\$ip	
Permitted	URL within 511 characters	

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 when changing the state of the phone from idle to busy.	
Description	Example:	
	action_url.idle_to_busy = http://192.168.0.20/help.xml?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 wher	changing the IP address of the phone.
Description	Example:	
	action_url.ip_change = http://192.168.0.20/help.xm	I?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > IP Changed	
Parameter	action_url.forward_incoming_call	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends when forwarding an incoming call.	
Description	Example:	
	action_url.forward_incoming_call = http://192.168.0.20/help.xml?IP=\$ip	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Forward Incoming Call	
Parameter	action_url.reject_incoming_call	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends when rejecting an incoming call.	
Description	Example:	
	action_url.reject_incoming_call = http://192.168.0.20/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 when answering a new incoming call.	
Description	Example:	
	action_url.answer_new_incoming_call = http://192.168.0.20/help.xml?IP=\$ip	

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Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Answer New Incoming Ca	11
Parameter	action_url.transfer_finished	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends when	completing a call transfer.
Description	Example:	
	action_url.transfer_finished = http://192.168.0.20/he	elp.xml?IP=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features > Action URL > Transfer Finished	
Parameter	action_url.transfer_failed	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends when	failing to transfer a call.
Description	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 when completing 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 when the call waiting feature is enabled.	
Description	Example:	
	action_url.call_waiting_on = http://192.168.0.20/help.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>
Description	It configures the action URL the phone sends when the call waiting feature is disabled.	

	Example:	
Permitted	action_url.call_waiting_off = http://192.168.0.20/help.xml?IP=\$ip	
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	pressing the HEADSET key.
Description	Example:	
	action_url.headset = http://192.168.0.20/help.xml?I	P=\$ip
Permitted Values	URL within 511 characters	
Default	Blank	
Supported Devices	All phones except CP920	
Web UI	Features > Action URL > Headset	
Parameter	action_url.handfree	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends when pressing the Speakerphone key.	
Description	Example:	
	action_url.handfree = http://192.168.0.20/help.xml?IP=\$ip	
Permitted Values	URL within 511 characters	
Default	Blank	
Supported Devices	All phones except CP920	
Web UI	Features > Action URL > Handsfree	
Parameter	action_url.cancel_callout	<y000000000xx>.cfg</y000000000xx>
	It configures the action URL the phone sends when	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 <y00000000xx>.cfg</y00000000xx>	
	It configures the action URL the phone sends when the outgoing call is rejected.	
Description	Example:	
	action_url.remote_busy = http://192.168.0.20/help.xml?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.	It configures the action URL the phone sends when the remote party cancels the outgoing call in the ringing state.	
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	n you unplug or plug the 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		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G		
Web UI	Features > Action URL > Peripheral Information		
Parameter	action_url.vpn_ip	<y000000000xx>.cfg</y000000000xx>	
	It configures the action URL the phone sends when the IP address assigned by the VPN service changes.		
Description	Example:		
	action_url.vpn_ip= http://192.168.0.20/help.xml?IP=\$ip		
Permitted Values	URL within 511 characters		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G		
Web UI	Features > Action URL > VPN IP		
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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 Variable Values List Action URI Configuration

Example: Capturing the Current Screen of the Phone Example: Placing a Call via Web User Interface

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. For example http://10.3.20.10/ser-vlet?key=OK.

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. When the IP phone receives a GET request from the trusted IP address for the first time, the phone screen prompts the message "Allow remote control?". Select the **OK** soft key on the phone to allow remote control. 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. When the IP phone receives a SIP NOTIFY message with the "Event: ACTION-URI" header from a SIP proxy server for the first time, the LCD screen also prompts the message "Allow remote control?". Select the **OK** soft key on the phone to allow remote control.

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 SIP-T46G
Event: ACTION-URI
Content-Type: message/sipfrag

Content-Length: 6

Message Body

key=OK

Variable Values List

Yealink phones also support a combination of the variable values in the URI, but the order of the variable value is determined by the operation of the phone. The valid URI format is: http(s)://<phonelPAddress>/servlet?key=variable value[;variable value]. Variable values are separated by a semicolon from each other. This method is not applicable to T57W/T48U/T48S/T48G phones.

The following shows an example for deleting all entries from the call history list when the phone is idle:

For CP920 phones:

http://10.3.20.10/servlet?key=F1;OK;F3;DOWN;DOWN;OWN;OK;OK.

For other phones:

http://10.3.20.10/servlet?key=F1;F3;DOWN;DOWN;DOWN;OK;OK.

Note: The variable value is not applicable to all events. For example, the variable value "MUTE" is only applicable when the IP phone is during a call.

When authentication is required, you can use the following URI format: http(s)://username:password@<phoneIPAddress>/servlet?key=variable value. If you are using a browser, we recommend that you use Firefox.

The following table lists predefined variable values:

Variable Value	Phone Action
ок	Press the OK/ √key. (not applicable to T57W phones)
ENTER	Press the Enter soft key. (not applicable to T57W/T48U/T48S/T48G phones)
SPEAKER	Press the Speakerphone key. (not applicable to CP920 phones)
F_TRANSFER	Transfer a call to another party.
VOLUME_UP	Increase the volume.
VOLUME_DOWN	Decrease volume.
MUTE	Mute a call.
F_HOLD/HOLD	Place an active call on hold.
F_CONFERENCE	Press the Conf/Conference soft key.
Cancel/CANCEL	Cancel actions, reject incoming calls or end a call.
x	Cancel actions, reject incoming calls or mute or un-mute calls. (not applicable to T57W phones)
0-9/*/POUND	Press the keypad (0-9, * or #).
L1-LX	Press the line keys (for T57W/T48U/T48S/T48G, X=29; for T54W/T46U/T46S/T46G/T29G, X=27; for T42U/T42G/T42S/T41P/T41S, X=15; for T53W/T53/T43U/T27G, X=21; for T33P/T33G, X=12; for T40P/T40G/T23P/T23G, X=3; for

Variable Value	Phone Action
	T31P/T31G/T31/T21(P) E2, X=2).
LX_LONGPRESS ^[1]	Perform a corresponding action when long pressing line key X.
BACK_IDLE	Return idle screen directly.
F1-F4	Press the soft keys.
MSG	Press the MESSAGE key. (not applicable to CP920 phones)
HEADSET	Press the HEADSET key. (not applicable to CP920 phones)
RD	Press the RD/Redial key (not applicable to CP920 phones).
UP/DOWN/LEFT/RIGHT	Press the navigation keys. (not applicable to T57W phones)
Reboot	Reboot the phone.
AutoP	Perform auto provisioning.
	Activate the DND feature.
DNDOn	Note: It works only if "features.dnd.allow" is set to 1 (Enabled).
	Deactivate the DND feature.
DNDOff	Note: It works only if "features.dnd.allow" is set to 1 (Enabled).
	Place a call to xxx from SIP URI y.
number=xxx&outgoing_uri=y	Example : http://10.3.20.10/servlet?key=number=1234&outgoing_uri- i=1006@10.2.1.48 (1234 means the number you dial out; 1006@10.2.1.48 means the SIP URL you dial from.)
OFFHOOK	Pick up the handset. (not applicable to CP920 phones)
	Press the off-hook key. (only applicable to CP920 phones)
олноок	Hang up the handset (not applicable to CP920 phones).
ANSWER/ASW/Asw	Press the on-hook key. (only applicable to CP920 phones) Answer a call.
Reset	Reset a phone.
ATrans=xxx	Perform a semi-attended/attended transfer to xxx. Join any two call parties together on the phone using the call-id. After
	the call is set up, the two parties disconnect with the phone.
	Scene:
ATrans=callid_A@callid_B	A and D are in a call, the call is active;
	B and D are in a call, the call is placed on hold;
	C and D are in a call, the call is placed on hold;
	callid_A: 32775

Variable Value	Phone Action
	callid_B: 32776
	Example:
	http://10.10.20.10/servlet?key=ATrans=32775@32776
	It means A and B join together and then disconnect with D. But the call between C and D is still in a hold state.
	Note : To get the call-id of the active call, configure the action URL: http(s):// <serveripaddress>/help.xml?CallId=\$call_id. For more information, refer to Action URL.</serveripaddress>
BTrans=xxx	Perform a blind transfer to xxx.
	Get firmware version, registration, DND or forward configuration information.
	The valid value of "x" is 0 or 1, 0 means you do not need to get con- figuration information. 1 means you want to get configuration inform- ation.
phonecfg=get[&accounts=x][&dnd=x][&fw=x]	Note: The valid URI is: http(s):// <phonelpaddress> /ser- vlet?phonecfg=get[&accounts=x][&dnd=x][&fw=x].</phonelpaddress>
	Example:
	http://10.3.20.10/servlet?phonecfg=get[&accounts=1][&dnd=0] [&fw=1]
	Set the valid value for the specified configuration parameter.
phonecfg=set[&configuration para- meter=value]	Note : The valid URI is: http(s)://<- phonelPAddress>/servlet?phonecfg=set[&configuration para- meter=value][&configuration parameter=value]. It can contain up to 10 configuration parameters.
-	Example:
	http://10.3.20.10/servlet?phone cfg=set[&account.1.enable=1][&fea- tures.dnd.enable=1]
	Get the specified configuration information.
phonecfg=get[&configuration parameter]	Note: The valid URI is: http(s)://<- phonelPAddress>/servlet?phonecfg=get[&configuration parameter] [&configuration parameter]. It can contain up to 10 configuration para- meters.
	Example:
	http://10.3.20.10/servlet?phonecfg= get[&account.1.enable][&fea- tures.dnd.enable]
CallWaitingOn	Activate the call waiting feature.
CallWaitingOff	Deactivate the call waiting feature.
	Activate an always/busy/no answer forward feature to xxx for the IP phone ("xxx" means the destination number)
AlwaysFwdOn/BusyFwdOn/NoAn- swFwdOn=xxx=n	The valid value of "n" means the duration time (seconds) before for- warding incoming calls (n is the times of 6, for example, 24). It is only applicable to no answer forward feature.
	Note: For Yealink phones, it works only if "features.fwd.allow" is set

Variable Value	Phone Action
	to 1 (Enabled) and call forward mode is Phone, the always/busy/no answer forward feature will apply to all the accounts on the phone.
	Example:
	http://10.10.20.10/servlet?key=NoAnswFwdOn=1001=24
	Deactivate the always/busy/no answer forward feature for the IP phone.
AlwaysFwdOff/BusyFwdOff/NoAnswFwdOff	Note : For Yealink phones, it works only if "features.fwd.allow" is set to 1 (Enabled) and call forward mode is Phone, the always/busy/no answer forward feature will apply to all the accounts on the phone.
	Example:
	http://10.10.20.10/servlet?key=NoAnswFwdOff
CALLEND/CallEnd	End a call.
	Answer/end/hold/unhold a call (xxx refers to the call-id of the active call).
	Example:
ASW/CANCEL/HOLD/UNHOLD:xxx	http://10.10.20.10/servlet?key=ASW:33093
	Note : To get the call-id of the active call, configure the action URL: http(s):// <serverlpaddress>/help.xml?CallId=\$call_id. For more information, refer to Action URL.</serverlpaddress>
	Log into the ACD system.
ACDlogin	Note : When ACD authentication information is required, the valid URI is: http(s)://<- phoneIPAd-
	dress>/servlet?key=ACDlogin&agentID=xxx&password=xxx. When ACD authentication information is not required, the valid URI is: http (s):// <phoneipaddress>/servlet?key=ACDlogin.</phoneipaddress>
ACDlogout	Log out of the ACD system.
SWAP	Swap to the held call when there is an active call and a held call on the phone.
SPLIT	Split the local conference call into individual calls. After the split, the conference call ends, and other parties are held.
	Note : It is not available for network conference.

^[1]X is the line key ID. For T57W/T48U/T48S/T48G, X=1-29; for T54W/T46U/T46S/T46G/T29G, X=1-27; for T53W/T53/T43U/T27G, X=1-21; for T42U/T42G/T42S/T41P/T41S, X=1-15; for T33P/T33G: X=1-12; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2.

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		
1		
eatures.show_action_uri_option	<y000000000xx>.cfg</y000000000xx>	
It enables or disables the phone to pop up the Allow Remote Control prompt when receiving action URI requests. Note: It works only if "features.action_uri.enable" is set to 1 (Enabled).		
0-Disabled 1-Enabled		
1		
eatures.action_uri_limit_ip	<y000000000xx>.cfg</y000000000xx>	
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). 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.		
Blank		
Features > Remote Control > Action URI Allow IP List		
	eatures.show_action_uri_option enables or disables the phone to pop up the Allow IRI requests. lote: It works only if "features.action_uri.enable" is -Disabled -Enabled eatures.action_uri_limit_ip configures server address from which the phone r fultiple addresses are separated by commas. (for eard, each asterisk represents a field of the IP addres 0.10.255.255). lote: It works only if "features.action_uri.enable" is P address Blank-the phone will reject any HTTP GET request. ny-the phone will accept and handle HTTP GET refu	

Example: Capturing the Current Screen of the Phone

You can capture the screen display of the IP phone using the action URI. The phones can handle an HTTP or HTTPS GET request. The URI format is http(s)://<phoneIPAddress>/screencapture. The captured picture is saved as a BMP or JPEG file.

You can also use the URI "http(s)://<phonelPAddress>/screencapture/download" to capture the screen display first, and then download the image (which is saved as a JPG file and named with the phone model and the capture time) to the local system.

Note: Yealink phones also support capturing the screen display using the old URI "http://<-phonelPAddress>/servlet?command=screenshot".

Before capturing the phone's current screen, ensure that the IP address of the computer is included in the trusted IP address for Action URI on the phone. When you capture the screen display, the phone may prompt you to enter the user name and password of the administrator if the web browser does not remember the user name and password for web user interface login.

Procedure

- 1. Enter request URI (for example, http://10.2.20.252/screencapture) in the browser's address bar and press the Enter key on the keyboard.
- 2. Do one of the following:
 - If it is the first time you capture the phone's current screen using the computer, the browser will display "Remote control forbidden", and the phone screen will prompt the message "Allow remote control?".
 Press **OK** on the phone to allow remote control. The phone will return to the previous screen.

Refresh the web page.

The browser will display an image of the phone's current screen. You can save the image to your local system.

T46G_2016.12	2.07_13.40 × +				
(i) http://10.	2.20.252/screencaptu	re C ⁱ	Q Google <ctrl+< td=""><td>К> ☆ 自 ♣</td><td></td></ctrl+<>	К> ☆ 自 ♣	
	<u>ຈ</u> 101	J	<mark>⊠</mark> 1 13 4	0 Wed, Dec 07	
	101				
		Director			
	History	Directory	DND	Menu	

• Else, the browser will display an image of the phone's current screen directly. You can save the image to your local system.

Note: Frequent capture may affect phone performance. Yealink recommends you to capture the phone screen display within a minimum interval of 4 seconds.

Example: Placing a Call via Web User Interface

Procedure

- 1. Go to Directory > Phone Call Info.
- 2. Select the desired account from the Outgoing Identity drop-down menu.
- 3. Enter the callee's number in the Dial Number field.

<i>l</i> ealink	Statu	s Acc	xount	Network	Dsskey	Features	Settings	Log Out English(English) • Directory Security
Local Directory	Call Par							NOTE
		Dia	l Number	102		Dial Hangup		
Remote Phone Book		Outgoing	Identity	101@10.2.1.48	•			Call Log It shows the call information
Phone Call Info	Call List Dialed L	ist 🕜						such as remote party identification, time and date, and call duration.
LDAP	Index	Date	Time	Local Identity	Name	Number		Call log consists of four lists: Placed List, Missed List,
Multicast IP	1	Wed Dec 07	10:37	101@10.2.1.48	102	<u>102@10.2.</u>	1.48 ^	Received List, and Forwarded List.
MULUCASE IP	2	Wed Dec 07	10:37	101@10.2.1.48	102	102@10.2.	1.48	LBC.
Catting	3	Wed Dec 07	10:36	101@10.2.1.48	102	<u>102@10.2.</u>	1.48	You can click here to get
Setting	4	Wed Dec 07	10:35	101@10.2.1.48	11	<u>11@10.2.1</u>	.48	more quides.
	5	Wed Dec 07	10:35	101@10.2.1.48	112	<u>112@10.2.</u>		more guideor
	6	Wed Dec 07	10.35	101@10.2.1.48	11	11@10.2.1	48	

4. Click Dial to dial out the number.

The web user interface prompts "Call Success" and the phone will automatically dial out the number. You can click **Hang Up** to end the call. If it is the first time you place a call via the web user interface, the LCD screen will prompt the message "Allow remote control?". Press **OK** on the phone to allow remote control and then the phone will automatically dial out the number.

Note: You can also place an IP direct call via the web user interface. The IP phone supports either IPv4 or IPv6 address.

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.		
	 0-Disabled, the server automatically sends a message-summary NOTIFY in a new dialog each time the MWI status changes. (This requires server support). 1-Enabled, the phone will send a SUBSCRIBE message to the server for message-summary updates. 		
Default	0	<u> </u>	
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). 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.mwi_parse_terminated ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to parse the Terminated attribute in the received MWI NOTIFY mes- sage.		
Permitted	0-Disabled		

Values	1-Enabled		
Default	0		
Parameter	account.X.sub_fail_retry_interval ^[1]	<mac>.cfg</mac>	
Description	It configures the interval (in seconds) for the phone	to retry 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 ber. Note : It works only if "account.X.subscribe_mwi" is a configured.		
Permitted Values	 0-Disabled, the phone will subscribe to the messag 1-Enabled 	e waiting indicator to a specific account.	
Default	0		
Web UI	Account > Advanced > Subscribe MWI to Voice Mail		
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		
Phone UI	Menu > Message > Voice Mail > Set Voice Mail Coo	de	
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 Values	0-Disabled 1-Enabled		
Default	1		
Web UI	Account > Advanced > Voice Mail Display		
Parameter	features.voice_mail_alert.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to pop up the mess voicemails.	sage when receiving the same amount of new	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter		<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to subscribe to the ber when configuring a Voice Mail dsskey.	message waiting indicator for the voice mail num-	

	0-Disabled			
Permitted Values	1-Enabled, the phone will subscribe to the value of the Voice Mail dsskey from the server. When there are unread voice messages, the dsskey LED indicator flashes or the dsskey icon indicates the number of unread messages.			
Default	0			
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30 and T27G			
Related	phone_setting.mail_power_led_flash_enable			
Parameters	features.voice_mail_popup.enable			
Parameter	features.hide_unread_vm_number.enable	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to hide the number of unread voice mails in the pop-up message box.			
Permitted	0-Disabled			
Values	1-Enabled			
Default	0			
Supported Devices	T33P, T33G, T31P, T31G, T31, T30P, T30			

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Short Message Service (SMS)

Yealink phones (except CP920 phones) support short message service (SMS). It allows users to send and receive a text message on the support server.

By default, SMS is enabled. You can use SMS at the path: **Menu** > **Message** > **Text Message**. You can also disable SMS.

Topic

SMS Configuration

SMS Configuration

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

Parameter	features.text_message.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to send and receive	a text message.	
	0-Disabled 1-Enabled		
Default	1		
Supported Devices	All phones except CP920		

XML Browser

XML browser simply means that the phone screen display can be managed by external applications. The XML browser feature allows users to develop and deploy custom services which meet user's functional requirements on

the server. Users can customize practical applications, such as weather report, stock information, Google search, news service, and so on.

To use the XML browser feature, you must configure an XML browser key in advance.

For more information on XML browser, refer to Yealink IP Phones XML Browser Developer's Guide.

Topic

XML Browser Configuration

XML Browser Configuration

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

Parameter	push_xml.server	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the address of the push XML server.		
Permitted Values	 Blank-The phone will reject HTTP POST messages from any server. any-The phone will accept HTTP POST messages from any server. IP address or domain name-Multiple addresses are separated by commas. (for example, 10.1.4.3,10.1.4.23); Support asterisk wildcard, each asterisk represents a field of the IP address 		
	(10.10.*.* represents 10.10.00 to 10.10.255.255).		
Default	Blank		
Web UI	Features > Remote Control > Push XML Server IP Address	6	
Parameter	push_xml.block_in_calling	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to block XML applications	s during a call.	
	0-Disabled 1-Enabled		
Default	0		
Web UI	Features > Remote Control > Block XML in Calling		
Parameter	push_xml.sip_notify	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to process the push XML	via SIP NOTIFY message.	
	0-Disabled 1-Enabled		
Default	0		
Web UI	Features > Remote Control > SIP Notify		
Parameter	push_xml.phonebook.search.delay	<y000000000xx>.cfg</y000000000xx>	
	It configures the time (in milliseconds) to wait for the phone phonebook server if the user does not press OK to confirm		
Description	If it is set to 0, the phone immediately sends the entered keywords to the server.		
	Note: For T23P/T23G/T40P/T40G phones, we recommend contacts from the server.	that you not download a large number of	
Permitted Values	Integer from 0 to 10000		
Default	1000		

Parameter	features.xml browser.loading tip.delay	<y000000000xx>.cfg</y000000000xx>			
	It configures the time (in milliseconds) to wait for the phone				
	If the phone doesn't finish loading an XML page within the specified time, the tip, "Loading, please				
•	If it is set to 0, the loading tip feature is disabled.				
	Note: It is not applicable to ImageScreen Object and ImageMenu Object.				
Permitted Values	Integer from 0 to 50000				
Default	100				
Parameter	features.xml_browser.user_name	<y000000000xx>.cfg</y000000000xx>			
Description	It configures the authentication user name for the XML req	uest.			
Permitted Values	String within 15 characters				
Default	Blank				
Parameter	features.xml_browser.pwd	<y000000000xx>.cfg</y000000000xx>			
Description	It configures the authentication password for the XML requ	est.			
Permitted Values	String within 15 characters				
Default	Blank				
Parameter	push_xml.username	<y000000000xx>.cfg</y000000000xx>			
Description	It configures the user name for the phone to authenticate w	vith the push XML server.			
-	Leave it blank if no authentication is required.				
Permitted Values	String				
Default	Blank				
Web UI	Features > Remote Control > User Name				
Parameter	push_xml.password	<y000000000xx>.cfg</y000000000xx>			
Description	It configures the password for the phone to authenticate w	th the push XML server.			
-	Leave it blank if no authentication is required.				
Permitted Values	String within 15 characters				
Default	Blank				
Web UI	Features > Remote Control > Password				
Parameter		<y000000000xx>.cfg</y000000000xx>			
Description	It configures the server address which the DssKey.cfg file i XML command (Command:UploadSystemInfo).	s uploaded to when the phone receives an			
Permitted Values	URL within 1024 characters				
Default	Blank				

Hot Desking

A primary motivation for hot desking is cost reduction. Hot desking is regularly used in places where not all employees are in the office at the same time, or not in the office for a long time, which means actual personal offices would often be vacant, consuming valuable space and resources.

Hot desking allows the user to clear pre-registration configurations of all accounts on the phone.

To use this feature, you need to assign a Hot Desking key. You can also specify which registration configurations are available for the users. It is not applicable to CP920 phones.

Topics

Hot Desking Key Configuration Hot Desking Configuration

Hot Desking Key Configuration

The following shows configuration for a Hot Desking key.

Line Key Configuration	Programmable Key Configuration
linekey.X.type = 34	programablekey.X.type = 34
linekey.X.label = Hot Desking	p g. aaz e. j

After provisioning, a Hot Desking key is available on the phone. You can press the Hot Desking key to clear preregistration configurations of all accounts and register their own account on line 1.

Related Topic

Line Keys Configuration Programmable Keys Configuration

Hot Desking Configuration

You can specify available configurations for registration when using hot desking.

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

Parameter	hotdesking.dsskey_register_name_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to provide an inpu ard when pressing the Hot Desking DSS key.	t field of register name on the hot desking login wiz-	
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	All phones except CP920		
Parameter	hotdesking.dsskey_username_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to provide an input field of user name on the hot desking login wizard when pressing the Hot Desking DSS key.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Supported Devices	All phones except CP920		

Parameter	hotdesking.dsskey_password_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to provide an input field of password on the hot desking login wizard when pressing the Hot Desking DSS key.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Supported Devices	All phones except CP920		
Parameter	hotdesking.dsskey_sip_server_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to provide an inpu when pressing the Hot Desking DSS key.	t field of SIP server on the hot desking login wizard	
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	All phones except CP920		
Parameter	hotdesking.dsskey_outbound_enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to provide an inpu login wizard when pressing the Hot Desking DSS k		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	All phones except CP920		
Parameter	features.hotdesking_clear_calllog.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to clear call record into a new account.	Is of the last guest after using hot desking to log	
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Supported Devices	T33P, T33G, T31P, T31G, T31, T30P, T30		

Device Management

You can enable the device management feature to report device information to the Yealink Device Management Platform, where you can view device information and manage 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.			
Permitted	0-Disabled			
Values	1-Enabled			
Default	0			
Supported Devices	T33P, T33G, T31P, T31G, T31, T30P, T30			
Parameter	static.dm.server.address ^[1]	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the server address of the Yealink Device Management Platform.			
Permitted Values	String within 512 characters			
Default	Blank			
Supported Devices	T33P, T33G, T31P, T31G, T31, T30P, T30			
Parameter	static.dm.server.port ^[1]	<y000000000xx>.cfg</y000000000xx>		
Description	It configures the server port of the Yealink Device Management Platform.			
Permitted Values	Integer from 0 to 65535			
Default	443			
Supported Devices	T33P, T33G, T31P, T31G, T31, T30P, T30			

^[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 Return Code for Unanswered Call Hide Feature Access Codes Accept SIP Trust Server Only 100 Reliable Retransmission SIP Session Timer Reboot in Talking Reserve # in User Name Busy Tone Delay CFG File Version Information Media Loopback Cloud

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	
Permitted Values	1-PAI	
	2-PAI-FROM	

4-PAI-RPID-FROM 5-RPIO-FROM 6-PREFERENCE, the phone uses the custom priority order for the sources of caller identity (configured by the parameter "sip.cid_source.preference"). Default 0 Web UI Account > Advanced > Caller ID Source Parameter accountX.cid_source_privacy[1] <mac>.cfg Description It enables or disables the phone to process the Privacy header field in the SIP message. Note: The priority order: PPI > Privacy > PRID/PAUFrom. Permitted -Disabled, the phone screen presents anonymity instead if there is a Privacy: id in the INVITE request. Default 1 Parameter accountX.cid_source_ppi^[1] Values -tenables or disables the phone to process the P-Preferred-identity (PPI) header in the request message for caller identity presentation. Permitted -Disabled, the phone does not process the P-I referred-identity (PPI) header: -tenabled, the phone does not process the PPI header. -tenabled, the phone presents the caller identity from the PPI header. -tenabled, the phone does not process the Prive or presentation. Default 0 Parameter sip.cid_source_preference 'spold_source_preference _vy000000000xxx.cfg Default 0 Permitted String<</mac>	r			
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preference".	Description Permitted Values Default Parameter Description	It configures the priority order for the sources of cal Note : Yealink phones can derive caller identity from tity (PAI), P-Preferred-Identity and Remote-Party-ID set to 6 (PREFERENCE). String P-Preferred-Identity, P-Asserted-Identity, Remote-F account.X.cp_source ^[1] It configures the identity of the callee according to the 0 -PAI-RPID 1 -Dialed Digits 2 -RFC4916, the caller sends the SIP request mess ported header. The caller then receives an UPDAT	ler identity information. n the following SIP headers: From, P-Asserted-Iden (RPID). It works only if "account.X.cid_source" is Party-ID, From <mac>.cfg he response message. age which contains the from-change tag in the Sup-</mac>	
Default 0	Description Permitted Values Default Parameter Description Permitted	It configures the priority order for the sources of cal Note : Yealink phones can derive caller identity from tity (PAI), P-Preferred-Identity and Remote-Party-ID set to 6 (PREFERENCE). String P-Preferred-Identity, P-Asserted-Identity, Remote-F account.X.cp_source ^[1] It configures the identity of the callee according to the 0 -PAI-RPID 1 -Dialed Digits 2 -RFC4916, the caller sends the SIP request messes ported header. The caller then receives an UPDAT tity in the "From" header.	ler identity information. n the following SIP headers: From, P-Asserted-Iden (RPID). It works only if "account.X.cid_source" is Party-ID, From <mac>.cfg he response message. age which contains the from-change tag in the Sup-</mac>	
	Description Permitted Values Default Parameter Description Permitted	It configures the priority order for the sources of cal Note : Yealink phones can derive caller identity from tity (PAI), P-Preferred-Identity and Remote-Party-ID set to 6 (PREFERENCE). String P-Preferred-Identity, P-Asserted-Identity, Remote-F account.X.cp_source ^[1] It configures the identity of the callee according to the 0 -PAI-RPID 1 -Dialed Digits 2 -RFC4916, the caller sends the SIP request messes ported header. The caller then receives an UPDAT tity in the "From" header. 3 -PAI-RPID-Contact 4 -The phone displays the identity using the custor	ler identity information. In the following SIP headers: From, P-Asserted-Iden (RPID). It works only if "account.X.cid_source" is Party-ID, From < <u>MAC>.cfg</u> the response message. Eage which contains the from-change tag in the Sup- E message from the server and displays the iden-	

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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)
- 603 (Decline)

Topic

Return Code for Refused Call Configuration

Return Code for Refused Call Configuration

The following table lists the parameters you can use to configure the return code for the refused call.

Parameter	features.normal_refuse_code	<y000000000xx>.cfg</y000000000xx>
Description	It configures a return code and reason of SIP response messages when the phone rejects an incom- ing call. A specific reason is displayed on the caller's phone screen.	
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 Refuse	

Return Code for Unanswered Call

You can define the return code and reason of the SIP response message for the unanswered 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)
- 603 (Decline)

This feature is not applicable to T48G/T46G/T42G/T41P/T29G phones.

Topic

Return Code for Unanswered Call Configuration

Return Code for Unanswered Call Configuration

The following table lists the parameters you can use to configure the return code for the refused call.

Parameter	features.no_answer_code	<y000000000xx>.cfg</y000000000xx>
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	It configures a return code and reason of SIP response messages when the phone does not answer an incoming call. A specific reason is displayed on the caller's phone screen.
Permitted Values	 404-Not Found 480-Temporarily Unavailable (Temporarily not available) 486-Busy Here 600-Busy Everywhere 603-Decline
Default	486
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G
Web UI	Features > General Information > Return Code When No Answer

Hide Feature Access Codes

Hide Feature Access Codes feature enables the IP phone to display the feature name instead of the dialed feature access code automatically. For example, the dialed call park code will be replaced by the identifier "Call Park" when you park an active call.

The hide feature access codes feature is applicable to the following features:

- Voice Mail
- Pick up
- Group Pick up
- Barge In (not applicable to T30P/T30/T19(P) E2/CP920 phones)
- Retrieve
- Call Park
- Call Pull (not applicable to T30P/T30/T19(P) E2/CP920 phones)

Topic

Hide Feature Access Codes Configuration

Hide Feature Access Codes Configuration

The following table lists the parameters you can use to configure the hide feature access codes.

Parameter	features.hide_feature_access_codes.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the phone to display the feat dialing and talking. The following feature access codes will be replace • Voice Mail • Pick up • Group Pick up • Barge In • Retrieve • Call Park • Group Park • Call Pull	
	0-Disabled 1-Enabled	

Default	0
Web UI	Features > General Information > Hide Feature Access Codes

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.

		<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to only accept the SIP message from the SIP and outbound proxy server.	
Velues	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 SIP-T46G 28.82.0.20

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. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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 second	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</sip:10111@10.2.1.48:5060>
To: <sip:1058@10.2.1.48:5060> ;tag=200382096</sip:1058@10.2.1.48:5060>
Call-ID: 4_1556494084@10.10.20.32
CSeq: 2 UPDATE
Contact: <sip:10111@10.10.20.32:5060></sip:10111@10.10.20.32:5060>
Max-Forwards: 70
User-Agent: Yealink SIP-T46G 28.82.0.20
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.

<i>m</i>	
account.X.session_timer.enable ^[1]	<mac>.cfg</mac>
It enables or disables the session timer.	
 0-Disabled 1-Enabled, the phone will send periodic UPDATE requests to refresh the session during a call. 	
Account > Advanced > Session Timer	
account.X.session_timer.expires ^[1]	<mac>.cfg</mac>
It configures the interval (in seconds) for refreshing	the SIP session during a call.
An UPDATE will be sent after 50% of its value has elapsed. For example, if it is set to 1800 (1 the phone will refresh the session during a call every 900 seconds.	
Note: It works only if "account.X.session_timer.enal	ole" is set to 1 (Enabled).
Integer from 90 to 7200	
1800	
Account > Advanced > Session Expires (90~7200s)
account.X.session_timer.refresher ^[1]	<mac>.cfg</mac>
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).	
0-UAC	
1-UAS	
1 6/16	
0	
	t enables or disables the session timer. D-Disabled I-Enabled, the phone will send periodic UPDATE r Account > Advanced > Session Timer account.X.session_timer.expires ^[1] t configures the interval (in seconds) for refreshing An UPDATE will be sent after 50% of its value has a he phone will refresh the session during a call eve Note: It works only if "account.X.session_timer.enal Integer from 90 to 7200 1800 Account > Advanced > Session Expires (90~7200s account.X.session_timer.refresher ^[1] t configures who refreshes the SIP session during a Note: It works only if "account.X.session_timer.enal D-UAC

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

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.
	D-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 SIP-T46G 28.82.0.20

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.
	nitted0-Disabled (convert the pound sign into "%23")ues1-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.

	,,	<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. 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)

CFG File Version Information

You can customize the version information for the CFG configuration file and then check the version information via phone/web user interface. With this feature, you can easily know which version of the CFG configuration file the IP phone is configured.

Topic

CFG File Version Information Configuration

CFG File Version Information Configuration

The following table lists the parameters you can use to configure CFG file version information.

Parameter	static.auto_provision.config_version.com	<y000000000xx>.cfg</y000000000xx>
Description	It configures the version information of the Common CFG configuration file. After configuration, you can check the configuration file version information at the path: Menu > Status > Phone > COM Version (phone user interface) or Status > Status > Version > COM Version (web user interface).	
Permitted Values	String	
Default	Blank	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	
Parameter	static.auto_provision.config_version.mac	<y000000000xx>.cfg</y000000000xx>
Description	It configures the version information of the MAC CFG configuration file.	

	After configuration, you can check the configuration file version information at the path: Menu > Status > Phone > MAC Version (phone user interface) or Status > Status > Version > MAC Version (web user interface).	
Permitted Values	String	
Default	Blank	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	
Parameter	features.custom_version_info	<y000000000xx>.cfg</y000000000xx>
	It configures the version information of the CFG configuration file. After configuration, you can check the configuration file version information at the path: Menu > Status > CFG Version (phone user interface) or Status > Status > Version > Configuration Version (web user interface).	
Permitted Values	String	
Default	Blank	
Supported Devices	T48G, T46G, T42G, T41P, T29G	

Media Loopback

The SIP RTP media loopback can be used to make test calls to verify the media path between the phone and server.

RTP packets are looped back toward the source device. In a voice loopback call, an echo is heard at the device originating the call.

For more information on media loopback, refer to RFC 6849.

Topic

Media Loopback Configuration

Media Loopback Configuration

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

Parameter	sip.loopback.enable	<y000000000xx>.cfg</y000000000xx>
	It configures the loopback role for the phone. Note: After the phone accepts the loopback call, the mute feature will be automatically activated on the phone.	
Permitted Values	 0-Loopback-Mirror, the server initiates a loopback call, and the phone accepts the call and mirrors (echoes) all received media back to the server. 1-Loopback-Source, the phone can initiate a loopback call as a media source or receive a loopback call as a loopback mirror. 	
Default	0	
Parameter	sip.loopback_type	<y000000000xx>.cfg</y000000000xx>
Description	It configures the media loopback type.	
Permitted Values	1-rtp-media-loopback, the packet received by loopback mirror is re-encoded based on the SDP nego- tiation. The re-encoded content is returned to the loopback source as an RTP packet with payload type corresponding to the re-encoding format.	

	2-rtp-pkt-loopback, the RTP payload is re-encapsulated and the RTP packets are looped back with a new payload type and format. This type of loopback applies to the encapsulated and direct packet loopback. Any type of encoding-related functions must not be part of this type of loopback path.		
	3-rtp-media-loopback & rtp-pkt-loopback, the answer must include only one of these two loopback types and should give preference to the first loopback-type in the SDP offer.		
Default	3		
Parameter	sip.pkt_loopback_mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the encapsulation mode of incoming F Note: It works only if "sip.loopback_type" is set to 2		
	1-encapsulated packet loopback, the entire incoming RTP packet is encapsulated as payload within an outer RTP packet. The loopback source can generate statistics for one-way path performance up to the RTP level for each direction of travel.		
Values	 2-directed packet loopback, the loopback mirror copies the payload of the incoming RTP packet into a new RTP packet. The packet source can compute only two-way path statistics from the direct loopback packet header. 3-encapsulated & directed, the loopback mirror loops back the incoming RTP packets using either the 		
Default	encapsulated RTP payload format or the direct loopback RTP payload format.		
	3		
	sip.pkt_loopback_encapsulated_payload <y00000000xx>.cfg</y00000000xx>		
Description	It configures the value of dynamic payload for encapsulated RTP. on Note: It works only if "sip.pkt_loopback_mode" is set to 1 (encapsulated packet loopback).		
Permitted Values	Integer greater than 98		
Default	112		
Parameter	sip.pkt_loopback_directed_payload	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the value of dynamic payload for the direct loopback RTP. Note: It works only if "sip.pkt_loopback_mode" is set to 2 (directed packet loopback).		
Permitted	Integer greater than 98		
Default	113		
Parameter	sip.loopback.auto_answer.mode	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to automatically a	nswer the incoming loopback call.	
Permitted Values	0-Disabled 1-Enabled		
	1		

Cloud

Yealink CP920 phones support cloud feature. The Cloud enterprise administrator uses the Yealink VC Cloud management service to assign each user an individual Cloud account. For more information, refer to *Yealink VC Cloud Management Service Administrator Guide*.

After registered with a Yealink Cloud account successfully, the phone will download the Cloud accounts information from the server automatically.

Topic

Cloud Configuration

Cloud Configuration

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

Parameter	vcaccount.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the Cloud feature.	
Velues	0-Disabled 1-Enabled	
Default	0	
Supported Devices	CP920	
Web UI	Features > General Information > Cloud Enable	

Configuration Parameters

This section provides a description and permitted values of some settings.

Topics

BroadSoft Parameters Start2Start ACD Parameters Ethernet Interface MTU Parameters 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.	It enables or disables the BroadSoft features.	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	bw.features_status.display_mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the icon display mode when the corresp Note: It works only if "bw.enable" and "bw.xsi.enable		
Permitted Values	 0-The phone does not display the corresponding icon. (This is the old user experience) 1-Enabled, the phone displays the corresponding icon when it requests the server to enable the corresponding feature. 		
Default	0		
Supported Devices	All color screen phones		
Case Scen- ario	 Check which BSFT features are currently enabled through the icons displayed on the phone. It is available to the following scenarios: Always Forward, Busy Forward, No Answer Forward Anonymous Call Rejection Anonymous Call Simultaneous Ring Personal Remote Office 		
Parameter	bw.features.flash_time	<y00000000xx>.cfg</y00000000xx>	
Description	It configures the time (in seconds) when the phone actively requests the BSFT server to enable the fea- ture . Note: It works only if "bw.enable" and "bw.xsi.enable" are set to 1 (Enabled).		
Permitted Values	Integer from 0 to 86400		

Default	0
Supported Devices	All color screen phones

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

Broadsoft UC

Parameter	bw.xmpp.enable ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the UC feature.		
Description	Note: It works only if "bw.enable" is set to 1 (Enabled).		
	0-Disabled		
Values	1-Enabled		
	0		
Supported Devices	All color screen phones		
Parameter	features.uc_username	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the user name for UC authentication. Note : It works only if "bw.xmpp.enable" is set to 1 (Enabled).		
Permitted Values	String within 99 characters		
Default	Blank		
Supported Devices	All color screen phones		
Web UI	Applications > Broadsoft XMPP > XMPP Account > XMPP UserName		
Parameter	features.uc_password	<y000000000xx> .cfg</y000000000xx>	
	It configures the password for UC authentication.		
Description	Note: It works only if "bw.xmpp.enable" is set to 1 (Enabled).		
Permitted Values	String within 32 characters		
Default	Blank		
Supported Devices	All color screen phones		
Web UI	Applications > Broadsoft XMPP > XMPP Account > XMPP Password		
Parameter	bw.xmpp.presence_icon.mode	<y000000000xx>.cfg</y000000000xx>	
Description	scription It enables or disables to display presence icon in a new style.		
Permitted Values	 0-Disabled, the phone displays the presence icon in old style before V81 1-Enabled, the phone displays the presence icon in the current new style 		
Default	0		
Supported Devices	All color screen phones		
Parameter	bw.xmpp.change_presence.force_manual.enable <pre></pre>		
Description	It enables or disables to synchronize the presence status to the BroadV	Vorks server when you change	

	your presence status manually on the IP phone.	
	0-Disabled	
Values	1-Enabled	
Default	1	
Supported Devices	All color screen phones	
Parameter	bw.xmpp.change_presence.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to change the user's current presence	state locally.
Description	Note: It works only if "bw.xmpp.enable" is set to 1 (Enabled).	
Permitted Values	0-Disabled 1-Enabled	
	0	
Supported	0	
Devices	All color screen phones	
Parameter	phone_setting.dsskey_directory_auto.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the Auto Favorite feature.	
Description	Note: It works only if "bw.xmpp.enable" is set to 1 (Enabled).	
	0-Disabled	
Permitted Values	1-Enabled, the phone will download information of favorites from the cloud server and automatically configure UC Favorite keys from the first unused line key (the line key type is configured as N/A or Line). If a line key is used, the phone will skip to the next unused line key.	
Default	1	
Supported Devices	All color screen phones	
Web UI	Features > General Information > Enable Auto Favorite	
Parameter	phone_setting.uc_favorite_sequence_type	<y000000000xx>.cfg</y000000000xx>
	It configures the order of UC Favorite keys to be assigned automatically.	
	Note : It works only if "phone_setting.dsskey_directory_auto.enable" is set to 1 (Enabled). To assign Ext Key, make sure the expansion module has been connected to the phone in advance.	
	0-linekey > exp1 key > expN key	
	1-exp1 key > expN key > linekey	
Permitted 2-linekey page1 > page1 from ex1 key to expN key > page2 from exp1 key to expN Values from page2 to page3		key to expN key > > linekey
	3 -page1 from exp1 key to expN key > page2 from exp1 key to expN key > \dots > linekey	
	Note: N is the number of your connected expansion modules.	
Default	0	
Supported Devices	All color screen phones	
Parameter	phone_setting.keytype_sequence ^[1] <y000000000xx>.cfg</y000000000xx>	
Description	It configures the display order of BLF List, UC Favorite, Favorite keys when two or three types appear simultaneously.	

	The phone displays the keys with left-to-right order. For example, "favorite,uc_favorite,blf_list" means the display order is Favorite keys > UC Favorite keys > BLF List keys.			
	If only one type is configured, the configured type will have the highest priority. For example, "blf_list" means the IP phone preferentially display the BLF List keys, and remaining keys' display order is: UC Favorite keys > Favorite keys (the default order).			
	Note : If Auto Linekeys feature is enabled (features.auto_linekeys.enable = 1), the Line keys (the line key type is configured as Line) will be shown first.			
Permitted	Blank (the display order: BLF List keys > UC Favorite keys > Favorite ke	eys)		
Values	blf_list, uc_favorite, favorite or a combination of them			
Default	Blank			
Parameter	features.uc_dir.match_tail_number	<y000000000xx>.cfg</y000000000xx>		
	It configures the minimum matched digits of the tail numbers of BroadCloud Buddy. When the entered number matches the tail numbers of a buddy in the buddy directory, the phone will automatically display the matched results on the phone screen when placing a call.			
	If it is set to 0, the entered number must exactly match the number of Bro	oadCloud Buddy.		
	If it is set to other values (for example, 4), the entered number less than the BroadCloud contact.	4 digits would not match with		
	Example:			
	If there is a BroadCloud Buddy name "Sunmy" with the phone number "785656" and the "features.uc_dir.match_tail_number" is set to "4", "5656", "85656" or "785656" would ma (785656)". "656", "56" or "6" would not match "Sunmy (785656)".			
Permitted Values	Integer greater than or equal to 0			
Default	0			
Supported Devices	All color screen phones			
Parameter	search_in_dialing.bw_uc_buddies.enable	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to automatically search entries from the BroadSoft Buddies directory, and display results on the pre-dialing/dialing screen.			
Permitted Values	0-Disabled			
Default	1-Enabled 0			
Supported Devices	All color screen phones			
Parameter	search_in_dialing.bw_uc_buddies.priority <pre></pre>			
Description	It configures the search priority of the BroadSoft Buddies directory.			
Permitted Values	Integer greater than or equal to 0			
Default	6			
Supported Devices	All color screen phones			
Parameter	directory_setting.bw_uc_buddies.enable	<y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the users to access the BroadSoft Buddies directory by pressing the Directory/Dir soft key.			

	0-Disabled 1-Enabled	
Default	0	
Supported Devices	All color screen phones	
Parameter	directory_setting.bw_uc_buddies.priority	<y000000000xx>.cfg</y000000000xx>
Description	It configures the display priority of the BroadSoft Buddies directory.	
Permitted Values	Integer greater than or equal to 0	
Default	12	
Supported Devices	All color screen phones	

 $\ensuremath{^{[1]}}\xspace$ 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.	
Description	Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).	
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	Note : It works only if "sip.authentication_for_xsi" is ation) and "bw.xsi.enable" is set to 1 (Enabled).	set to 0 (User Login Credentials for XSI Authentic-
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 (Ena	abled).
Permitted Values	IP address or domain name	
Default	Blank	
Web UI	Applications > Broadsoft XSI > XSI Account > Host Server	
Parameter	account.X.xsi.server_type ^[1] <mac>.cfg</mac>	
Description	It configures the access protocol of the Xtended Services Platform server.	
Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).		abled).

	http-HTTP	
Values	https-HTTPS	
	-	
	http	
	Applications > Broadsoft XSI > XSI Account > XSI S	
		<mac>.cfg</mac>
Description	It configures the port of the Xtended Services Platfo	
Permitted	Note: It works only if "bw.xsi.enable" is set to 1 (Ena	abled).
Values	Integer from 1 to 65535	
Default	80	
Web UI	Applications > Broadsoft XSI > XSI Account > Port	
Parameter	bw.xsi.enable ^[2]	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the XSI authentication feature	e for the phone.
Permitted Values	It enables or disables the XSI authentication feature for the phone. 0 -Disabled 1 -Enabled If it is set to 0 (Disabled), the following features are unavailable on the phone: BroadWorks Anywhere Remote Office Line ID Blocking Anonymous Call Rejection Simultaneous Ring Personal BroadSoft Directory BroadSoft Call Log Call Park Feature via XSI Mode Call Waiting Feature via XSI Mode Voice Messaging Centralized Call Recording Executive and Assistant BroadWorks Mobility Group Night Forwarding	
	Silent Alerting 0	
Parameter	sip.authentication_for_xsi	<y000000000xx>.cfg</y000000000xx>
Description	It configures the authentication mechanism for XSI access. Note : It works only if "bw.xsi.enable" is set to 1 (Enabled).	
Permitted Values	 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	
Parameter	default_input_method.xsi_password <y000000000xx>.cfg</y000000000xx>	
Description	It configures the default input method when the XSI authentication is failed and the user re-enters the password.	
Permitted Values	123, abc, ABC or 2aB	
Default	2aB	

 $\ensuremath{^{[2]}}\xspace$ If you change this parameter, the phone will reboot to make the change take effect.

Broadsoft ACD

Parameter	account.X.acd.initial_state ^[1]	<mac>.cfg</mac>
Description	It configures the initial status after logging in to ACD.	
Permitted	1-Available	
Values	2-Unavailable	
Default	1	
Parameter	account.X.reason_code.Y ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the unavailable code which must mate platform.	h one of the codes configured on the BroadWorks
Permitted Values	Integer from 1 to 2147483647	
Default	Blank	
Parameter	account.X.reason_code_name.Y ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the unavailable reason which must match one of the reasons configured on the BroadWorks platform.	
Permitted Values	String within 99 characters	
Default	Blank	
Parameter	account.X.supervisor_info_code.Y ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the supervisor number.	
Permitted Values	Integer from 1 to 2147483647	
Default	Blank	
Parameter	account.X.supervisor_info_code_name.Y ^{[1][2]}	<mac>.cfg</mac>
Description	It configures the supervisor name.	
Permitted	String within 99 characters	

Values		
Default	Blank	
Parameter	account.X.call_center.call_info_enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the call center call informatio	n feature.
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	account.X.call_center.show_call_info_time ^[1]	<mac>.cfg</mac>
Description	It configures the interval (in seconds) to specify how Note: It works only if "account.X.call_center.call_int	
Permitted Values	Integer from 1 to 86400	
Default	30	
Parameter	account.X.call_center.disp_code_enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the disposition code feature.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	account.X.call_center.trace_enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the customer originated trace	e feature.
Permitted Values	0-Disabled1-Enabled, it is used to trace the origin of an obsce	ne, harassing, or threatening call.
Default	0	
Parameter	account.X.call_center.emergency_enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the emergency escalation fe	ature.
Permitted Values	 0-Disabled 1-Enabled, it provides the capability for the call center agent to immediately escalate a call to a supervisor by pressing a key on the phone. The supervisor is immediately joined into the call. 	
Default		
Parameter	account.X.call_center.queue_status_enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the queue status notification feature.	
Permitted Values	 0-Disabled 1-Enabled, it enables the agent to view the status of the call center queue on the phone. The queue can be in one of three states: empty, Q'ing and ALERT. 	
Default	0	
Parameter	account.X.call_center.queue_status_light_enable [1]	<mac>.cfg</mac>
Description	It enables or disables the power LED indicator to fla	ash when the ACD calls in the queue have

	reached the maximum number of calls or have waited too long.	
Permitted	0-Disabled (power LED indicator does not flash)	
Values	1-Enabled (power LED indicator fast flashes (300ms) red)	
Default	0	
Parameter	features.homescreen_softkey.acd.enable <	<y000000000xx>.cfg</y000000000xx>
Description		
	Note: It works only if "account.X.acd.enable" is set to 0-Disabled	o 1 (Enabled).
Permitted Values	1-Enabled	
Default	1	
		NAO - 45
Parameter	bw.virtual_user.1.enable It enables or disables the virtual account for the call	<mac>.cfg</mac>
Description		
Permitted	Note: It works only if "bw.xsi.enable" is set to 1 (Enal 0-Disabled	bled).
Values	1-Enabled	
Default	0	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T2	9G
Parameter	bw.virtual_user.1.label	<mac>.cfg</mac>
Description	It configures the virtual account label displayed on the time of the virtual account label displayed on the time of time of time of the time of ti	he phone.
Description	Note: If you leave it blank, the virtual user name use	es VirtualUser1 by default.
Permitted Values	String within 99 characters	
Default	Blank	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T2	9G
Parameter	bw.virtual_user.1.xsi.dnd.enable <	<mac>.cfg</mac>
Description	It enables or disables the user to control the DND status for the virtual account.	
•	Note: It works only if "bw.virtual_user.1.enable" is set to 1 (Enabled).	
Permitted Values	0-Disabled	
	1-Enabled	
Default	0	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	
Parameter	bw.virtual_user.1.xsi.user <	<mac>.cfg</mac>
Description	It configures the user ID of virtual account for XSI access authentication. Description Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).	
Description		

Permitted Values	String within 99 characters		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T2	29G	
Parameter	bw.virtual_user.1.xsi.password	<mac>.cfg</mac>	
	It configures the password of virtual account for XSI access authentication.		
Description	Note: It works only if "bw.xsi.enable" is set to 1 (Ena thentication_for_xsi" is set to 0 (User Login Creden	abled) and it is required only when "sip.au- tials for XSI Authentication).	
Permitted Values	String within 99 characters		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T2	29G	
Parameter	bw.virtual_user.1.xsi.host	<mac>.cfg</mac>	
Description	It configures the IP address of the Xtended Services	s Platform server for the virtual account.	
Description	Note: It works only if "bw.xsi.enable" is set to 1 (Ena	abled).	
Permitted Values	IP address or domain name		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T2	29G	
Parameter	bw.virtual_user.1.xsi.server_type	<mac>.cfg</mac>	
Description	It configures the access protocol of the Xtended Se	rvices Platform server for the virtual account.	
-	Note: It works only if "bw.xsi.enable" is set to 1 (Ena	abled).	
Permitted Values	HTTP or HTTPS		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T2	29G	
Parameter	bw.virtual_user.1.xsi.port	<mac>.cfg</mac>	
Description	It configures the port of the Xtended Services Platform server for the virtual account.		
-	Note: It works only if "bw.xsi.enable" is set to 1 (Ena	abled).	
Permitted Values	Integer from 1 to 65535		
Default	80		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G		
Parameter	account.X.bw_disp_code.Y ^{[1][2]}	<mac>.cfg</mac>	
Description	It configures the disposition code which must match one of the codes configured on BroadWorks.		
Permitted Values	Integer from 1 to 2147483647		

Default	Blank	
Parameter	account.X.bw_disp_code_name.Y ^{[1][2]} <mac>.cfg</mac>	
Description	It configures the disposition code name which must match one of the names configured on BroadWorks.	
Permitted Values	String within 99 characters	
Default	Blank	

[2]Y is the code ID. Y=1-100.

Broadsoft Centralized Call Recording

Parameter	account.X.call_recording.enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the centralized call recording feature.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	bw.call_recording.mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures the centralized call recording mode.	
Permitted	0-XSI	
Values	1-SIP	
Default	1	
Supported Devices	All phones except CP920	

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Broadsoft Security Classification

Parameter	account.X.security_classification.enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables security classification feature.	
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Broadsoft Hoteling

Parameter	account.X.hoteling.enable ^[1]	<mac>.cfg</mac>
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D		
Description	It enables or disables the hoteling feature.	
Permitted Values	 0-Disabled 1-Enabled, users can use any available host (shared) phone by logging in with user credentials. After logging in, users have access to their own guest profile on the host phone. 	
Default	0	
Parameter	account.X.hoteling.user_id ^[1]	<mac>.cfg</mac>
Description	It configures the user ID used to log into the guest p	profile.
Permitted Values	String within 99 characters	
Default	Blank	
Parameter	account.X.hoteling.password ^[1]	<mac>.cfg</mac>
Description	It configures the password used to log into the gue	st profile.
Permitted Values	String within 99 characters	
Default	Blank	
Parameter	features.homescreen_softkey.hoteling.enable	<y000000000xx>.cfg</y000000000xx>
Description		
	Note: It works only if "account.X.hoteling.enable" is 0-Disabled	
Values	1-Enabled	
Default	1	
Parameter	hoteling.authentication_mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures the XML browser hoteling authenticati Note: It works only if "account.X.hoteling.enable" is	
Downsitto d	 0-The phone uses the hoteling user ID and password as authentication credentials. 1-The phone uses the provisioning user name and password as authentication credentials, and at the same time provides the hoteling user ID and password in the payload of the message for authentication credentials. 	
Default	0	
Parameter	account.X.hoteling.expires ^[1]	<mac>.cfg</mac>
Description	It configures the hoteling subscription expiration time (in seconds).	
Permitted Values	Integer from 30 to 2147483647	
Default	3600	
Parameter	account.X.hoteling.auto_login_enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables the phone to save login credentials automatically when logging into the guest profile.	
Permitted Values	0-Disabled 1-Enabled	

Default	0
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Broadsoft Flexible Seating

Parameter	account.X.flexible_seating.enable ^[1]	<mac>.cfg</mac>	
	It enables or disables the flexible seating feature.		
Description	Note : For the host, it works only if "account.X.hoteling.enable" and "account.X.acd.enable" are set to 0 (Disabled).		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	account.X.hoteling.mode ^[1]	<mac>.cfg</mac>	
Description	It configures the hoteling mode.		
	0-Disabled		
Permitted	1-Hoteling		
Values	2-Flexible Seating Host		
	3-Flexible Seating Guest		
Default	0		
Parameter	account.X.hoteling.pin ^[1]	<mac>.cfg</mac>	
Description	It configures the flexible seating PIN.		
Permitted Values	String		
Default	Blank		
Parameter	features.homescreen_softkey.hoteling.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to display the Flexible Seating soft keys such as GuestIn or GuestOut on the idle screen.		
	Note : It works only if "account.X.flexible_seating.enable" is set to 1 0 -Disabled	(Enabled).	
Permitted Values			
Default	1-Enabled 1		
Parameter	bw.flexible_seating.remember_password.ldap.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the phone to encrypt and store the LDAP user credentials when using flexible seating feature.		
	Note : It works only if "bw.enable" and "account.X.flexible_seating.enable" are set to 1 (Enabled). If you disable this feature after enabling it, all the saved user credentials are cleared.		
rennitieu	0-Disabled 1-Enabled		
Values			

Default	0
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G

Related Topic

Securely Storing the LDAP Credentials

Broadsoft Call Decline

Parameter	account.X.features.call_decline.enable ^[1]	<mac>.cfg</mac>
Description	It enables or disables call decline feature.	
	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.	
	0-Disabled 1-Enabled	
Default	0	

^[1]X is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42G/T42U/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2; for T30P/T30/T19(P) E2/CP920, X=1.

Broadsoft Network Directory

Parameter	bw.xsi.directory.enable	<y000000000xx>.cfg</y000000000xx>
It enables or disables the network directory feature.		
Description	Note: It works only if "bw.xsi.enable" is set to 1 (Enable	d).
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	
Parameter	bw_phonebook.group_enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the phone to display the group d	irectory.
Description	Note: It works only if "bw.xsi.directory.enable" is set to -	I (Enabled).
Permitted	0-Disabled	
Values	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.	

	Note: It works only if "bw.xsi.directory.enable" is set to 1 (Enabled).	
	0-Disabled	
	1-Enabled	
	1	
Web UI	Applications > Broadsoft XSI > Network Directory > Per	rsonal
	bw_phonebook.group_common_enable <y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to display the group co	ommon directory.
	Note: It works only if "bw.xsi.directory.enable" is set to 1	1 (Enabled).
	0-Disabled 1-Enabled	
Default	1	
Web UI	Applications > Broadsoft XSI > Network Directory > Gro	pup Common
Parameter	bw_phonebook.enterprise_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to display the enterpris	se directory.
	Note: It works only if "bw.xsi.directory.enable" is set to 1	1 (Enabled).
	0-Disabled 1-Enabled	
Default	1	
Web UI	Applications > Broadsoft XSI > Network Directory > Ent	erprise
Parameter	bw_phonebook.enterprise_common_enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to display the enterpris	se common directory.
Description	Note: It works only if "bw.xsi.directory.enable" is set to 1	1 (Enabled).
	0-Disabled 1-Enabled	
Default	1	
Web UI	Applications > Broadsoft XSI > Network Directory > Ent	erprise Common
Parameter	bw_phonebook.enterprise_common_displayname	<y000000000xx>.cfg</y000000000xx>
	It configures the display name on the phone screen for	,
Description	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 <y00000000xx>.cfg</y00000000xx>	
	It enables or disables the custom directory feature.	
	Note: It works only if "bw.xsi.directory.enable" is set to 1 (Enabled).	
	0-Disabled 1-Enabled	
Values		

Default	0	
		hla Custore Disectore
Web UI	Applications > Broadsoft XSI > Network Directory > Enable Custom Directory	
Parameter		<y000000000xx>.cfg</y000000000xx>
Description	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 > Gro	up
Parameter	bw_phonebook.enterprise_displayname	<y000000000xx>.cfg</y000000000xx>
Description	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	Enterprise	
Web UI	Applications > Broadsoft XSI > Network Directory > Enterprise	
Parameter	bw_phonebook.personal_displayname	<y000000000xx>.cfg</y000000000xx>
Description	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 > Per	sonal
Parameter	bw.xsi.call_log.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the BroadSoft call log feature. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).	
Permitted Values	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>
Description	It enables or disables the user to delete the call log entry from BroadSoft Call Log list on the phone. Note: It works only if "bw.xsi.call_log.enable" is set to 1 (Enabled).	
Permitted Values	 0-Disabled 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 Log for multiple accounts. Note: It works only if "bw.xsi.call_log.enable" is set to 1 (Enabled).	
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 T30P, T30, T19(P) E2 and CP920	
Parameter	directory.update_time_interval	<y000000000xx>.cfg</y000000000xx>
Description	It configures the interval (in minutes) for the phone to u the BroadSoft server. Note : It works only if "bw.xsi.directory.enable" and "bw. (Enabled).	
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. Note: It works only if "bw.xsi.directory.enable" is set to 1 (Enabled).	
Permitted Values	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.xsi.directory.server_search_type	<y000000000xx>.cfg</y000000000xx>
	It configures the search type used by the server search	
Description	Note : It works only if "bw.xsi.directory.enable" is set to 1 (Enabled).	
Permitted	0-Include search with *search content* field	
Values	1-Forward search with search content* field	
Default	0	
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920	
Parameter	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_to 1 (Enabled).	-
Permitted Values	String within 99 characters	

Default	GroupCommon	
Web UI	Applications > Broadsoft XSI > Network Directory > Group Common	
Parameter	bw.xsi.directory.alphabetized_by_lastname.enable	<y000000000xx>.cfg</y000000000xx>
Description	It configures the call ID (first name and last name) disp ing call, places an outgoing call or is during an active	
Permitted	0-First name Last name	
Values	1-Last name, First name	
Default	0	
Supported Devices	All phones except CP920	
Parameter	bw.calllog_and_dir	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to directly enter the N soft key on the idle screen.	
D	Note: It works only if "bw.xsi.call_log.enable" is set to -	
Permitted Values	 0-Disabled, the phone will enter Local Calls screen when pressing the History soft key. 1-Enabled 	
Default	0	
Parameter	search_in_dialing.bw_directory.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to automatically search entries from the BroadSoft directory, and dis- play the results on the pre-dialing/dialing screen.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	search_in_dialing.bw_directory.priority	<y000000000xx>.cfg</y000000000xx>
Description	It configures the search priority of the BroadSoft direct	ory.
Permitted Values	Integer greater than or equal to 0	
Default	5	
Parameter	directory_setting.bw_directory.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the users to access the BroadSoft directory by pressing the Directory/Dir soft key.	
Permitted Values	0-Disabled 1-Enabled	
Default	0	
Parameter	directory_setting.bw_directory.priority	<y000000000xx>.cfg</y000000000xx>
Description	It configures the display priority of the BroadSoft directory.	
Permitted Values	Integer greater than or equal to 0	
Default	6	
-		

Broadsoft Visual Voice Mail

Parameter	bw.voice_mail.visual.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the visual voice mail feature for the phone.	
	Note: It works only if "bw.xsi.enable" is set to 1 (Ena	abled).
Permitted	0-Disabled	
Values	1-Enabled	
Default	0	
Parameter	bw.voice_mail.visual.display_videomail.enable	<y000000000xx>.cfg</y000000000xx>
	It enables or disables the phone to display the video mails in the voice mail list.	
Description	Note: It works only if "bw.xsi.enable" and "bw.voice_mail.visual.enable" are set to 1 (Enabled).	
	0-Disabled	
Values	1-Enabled	
Default	0	
Parameter	voice_mail.message_key.mode	<y000000000xx>.cfg</y000000000xx>
Description	It configures the phone behavior when pressing the MESSAGE key when the phone is idle.	
	0-enter the Set Voice Mail Code screen if the voice mail access code has not been configured; dial	
Values	out the voice mail access code if the voice mail access code has been configured.	
	1-enter the View Voice Mail screen	
Default	0	

Broadsoft SCA

Parameter	account.X.share_line.barge_in.enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the users to interrupt/barge ir	nto an active call on the shared line.	
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	account.X.shared_line_one_touch_bargein.en- able ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to barge in the call between remote shared line party and the third party by pressing the line key.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	account.X.shared_line_one_touch_retrieve.en- able ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to retrieve the public held call on remote shared line party phone by pressing the line key.		
Permitted	0-Disabled		

Values	1-Enabled		
Default	1		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920	All phones except T30P, T30, T19(P) E2 and CP920	
Parameter	features.auto_release_bla_line <	:y000000000xx>.cfg	
Description	It enables or disables the server to release the conno when the SCA call is ended.	ection by sending a notify message to phone	
Permitted Values	 0-Disabled, the phone will send a notify message to the server to release the connection. 1-Enabled 		
Default	0		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		
Parameter	account.X.sca_manage_interface_display_time ^[1] <mac>.cfg</mac>		
Description	It configures how long (in seconds) the phone goes back to the idle screen when entering the Shared Calls screen by long pressing the shared line key.		
Permitted Values	Integer from 0 to 2147483647		
Default	10		
Supported Devices	All phones except T30P, T30, T19(P) E2 and CP920		

 $^{[1]}X$ is the account ID. For T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for T53W/T53/T43U/T42U/T42G/T42S, X=1-12; for T41P/T41S/T27G, X=1-6; for T33P/T33G, X=1-4; for T40P/T40G/T23P/T23G, X=1-3; for T31P/T31G/T31/T21(P) E2, X=1-2.

Broadsoft Call Park

Parameter	features.call_park.park_mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the call park mode.	It configures the call park mode.	
Permitted	0-XSI		
Values	1-FAC, park a call through dialing the call park cod	е.	
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	0-Disabled		
Values	1-Enabled, users can select GPark during a call to group, and select Retrieve in the dialing screen to	park a call to the first available user in the call park retrieve the parked call.	
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).		

Values1-EnabledDefault0Web UIFeatures > Pickup & Park > Audio Alert for Parked > JParametrfeatures.call_park.park_visual_notify_enable <y00000000xx> .cfgDescriptionIt enables or disables the phone to display a parket indicator when a call is parked against its line.Permitted0-Disabled 1-EnabledDefault0Web UIFeatures > Pickup & Park > Visual Alert for Parket Parametrfeatures.parked_call_monitor.blf_audio_enable<y00000000xx> .cfgPermitted1<y00000000xx> .cfgDescriptionIt enables or disables the phone to play an audio altert when a call is parked against the monitored line.Permitted0-Disabled 1-Enabled<y00000000xx> .cfgDefault1SupportAll phones except T486, T466, T426, T41P, T30- T50, T19(P) E2 and CP920Veb UIFeatures > Pickup & Park > Audio Alert for BLF ParketVeb UIfeatures.parked_call_monitor.blf_visual_enable<y00000000xx .cfg<="" td="">Parametrfeatures.parked_call_monitor.blf_visual_enable<y00000000xx .cfg<="" td="">Parametrfeatures.parked_call_monitor.blf_visual_enable<y00000000xx .cfg<="" td="">Parametrfeatures.parked_call_monitor.blf_visual_enable<y00000000xx .cfg<="" td="">Parametrfeatures.parked_call_monitor.blf_visual_enable<y00000000xx .cfg<="" td="">Parametrfeatures.parked_call_monitor.blf_visual_enable<y00000000xx .cfg<="" td="">Parametrfeatures.parked_call_monitor.blf_visual_enable<y000000000xx .cfg<="" td="">Parametrfeatu</y000000000xx></y00000000xx></y00000000xx></y00000000xx></y00000000xx></y00000000xx></y00000000xx></y00000000xx></y00000000xx></y00000000xx></y00000000xx>	[
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Description Note: It works only if "features.parked_call_monitor.blf_audio_enable" is set to 1 (Enabled). Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Config:Customring.wav). For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Config:Customring.wav). For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Splash.wav Supported Devices All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920	Parameter	features.parked_call_monitor.blf.ring_type	<y000000000xx>.cfg</y000000000xx>
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Permitted Silent.wav, Splash.wav or custom ring tone name (for example, Config:Customring.wav). For T3 phones: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring.wav) Default Splash.wav Supported Devices All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920	Description		
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Supported Devices All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920	Valueo	Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Silent.wav, Splash.wav or custom ring	
All phones except 148G, 146G, 142G, 141P, 130P, 130, 129G, 119(P) E2 and CP920	Default	Splash.wav	
Web UI Features > Pickup & Park > Ring Type for BLF Parked Call Monitor		All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920	
	Web UI	Features > Pickup & Park > Ring Type for BLF Parked Call Monitor	

	Color Screen Phones:		
Phone UI	Menu > Basic > Sound > Ring Type for BLF Parked Call Monitor		
I none of	Black-and-white Screen Phones:		
	Menu > Settings > Basic Settings > Sound > Ring T	ype for BLF Parked Call Monitor	
Parameter	features.call_park.group_park_code	features.call_park.group_park_code <y000000000xx>.cfg</y000000000xx>	
Description	It configures the group call park code.		
Description	Note: It works only if "features.call_park.park_mode" is set to 1 (FAC).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features > Pickup & Park > Group Call Park Code		
Parameter	account.X.callpark_enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables Broadsoft call park feature.		
Permitted Values	 0-Disabled 1-Enabled, the phone sends the subscription package to the server with the header "Event:x-broad-works-callpark" 		
Default	1		

Broadsoft Emergency Call

Parameter	bw.emergency_calling.enable	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the BroadWorks Emergency	Calling feature.
Permitted	0-Disabled	
Values	1-Enabled, the phone supports network hold and operator ring-back for emergency calls.	
Default	0	

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.ena	able" 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	

Start2Start ACD Parameters

For more information on ACD, refer to Using_Star2Star_ACD_on_Yealink_IP_Phones.

Parameter	account.X.acd.call_information ^[1]	<mac>.cfg</mac>
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	It configures the string the phone dials out when the ACD agent logs into/logs out of the ACD system (you press the In/Out (Login/Out) soft key on the phone).		
Description	The value format: Call Center Number <time interval=""> User ID<time interval=""> Password.</time></time>		
	Time interval ranges from 1 to 20 (in seconds).		
	For example :		
	account.1.acd.call_information = 806<1 > 1005<2 > 12	234	
	The phone will dial out the call center number 806, wait for 1s, automatically enter the user ID 1005, wait for 2s, automatically enter the password 1234 when you press the In/Out (LogIn/Out) soft key on the phone.		
	Note: It works only if "account.X.sip_server_type" is set to 12 (Star2Star).		
Permitted Values	String		
Default	Blank		
Parameter	account.X.acd.refresh_url ^[1] <m< th=""><th>IAC>.cfg</th></m<>	IAC>.cfg	
Description	It configures the URL the phone sends when the ACD refreshes the status (you press the In/Out (LogIn/Out) of	agent logs into/logs out of the ACD system, or or Refresh soft key on the phone).	
	Note: It works only if "account.X.sip_server_type" is set	et to 12 (Star2Star).	
Permitted Values	String		
Default	Blank		
Parameter	account.X.acd.away_url ^[1] <m< th=""><th>IAC>.cfg</th></m<>	IAC>.cfg	
	It configures the URL the phone sends when the ACD agent changes the status to away (you press the Away soft key on the phone).		
	For example :		
Description	account.1.acd.away_url= http://portal-dev.star2star.com:8181/yealink/reason_code_respon- se?reason_code=#REASONCODE&agent_extension=ext_843 85&agent_location= starbox_628&a- gent_phone=94&customer_id=435s		
	#REASONCODE will be automatically replaced with the away code you entered when the URL is sent to the server.		
	Note : It works only if "account.X.sip_server_type" is set to 12 (Star2Star) and "accoun- t.X.acd.unavailable_reason_enable" is set to 1 (Enabled).		
Permitted		ed).	
Values	String	ed).	
		ed).	
Values Default	String Blank	ed). IAC>.cfg	
Values Default Parameter	String Blank	IAC>.cfg	
Values Default Parameter Description	String Blank account.X.acd.available_url ^[1] <m It configures the URL the phone sends when the ACD</m 	IAC>.cfg agent changes the status to available (you	
Values Default Parameter Description	String Blank account.X.acd.available_url ^[1] <m It configures the URL the phone sends when the ACD press the Avail soft key on the phone).</m 	IAC>.cfg agent changes the status to available (you	
Values Default Parameter Description Permitted	String Blank account.X.acd.available_url ^[1] It configures the URL the phone sends when the ACD press the Avail soft key on the phone). Note: It works only if "account.X.sip_server_type" is set	IAC>.cfg agent changes the status to available (you	

Alcatel-Lucent Barge in Parameters

If you want to use Barge In feature, you should configure a feature access code on the phone. If no feature access code is configured, the Barge In feature is disabled.

Parameter	blf.normal_barge_in_code <y00000000xx>.cfg</y00000000xx>		
	It configures the feature access code for normally barging in the active call of the monitored line.		
Description	If configured, you can press the Barge In soft key to barge in the call. Barge-in plays an audio alert to indicate the arrival of a new participant to the call and all call participants can interact. Note: It applies to the Alcatel-Lucent CTS only.		
Permitted Values	String within 32 characters		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920		
	The feature access code is *32. A (your phone) monitors party B (number: 8866), party B and party C is during the call.		
	Set the following:		
Case Scen- ario	blf.normal_barge_in_code = *32		
	features.blf.show_callinfo.enable = 1		
	During the call of the monitored line, long press the BLF key and press the Barge In soft key, then the phone calls *328866 to barge in the call. All call participants can interact during the call.		
Related Parameters	features.blf.show_callinfo.enable		
Parameter	blf.whisper_barge_in_code <y00000000xx>.cfg</y00000000xx>		
	It configures the feature access code for barging in the active call of the monitored line in whisper.		
Description	If configured, you can press the Whisper BargeIn soft key to barge in the call. You can hear all call participants but your audio can only be transmitted to the user you are monitoring.		
	Note: It applies to the Alcatel-Lucent CTS only.		
Permitted Values	String within 32 characters		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920		
	The feature access code is *32. A (your phone) monitors party B (number: 8866), party B and party C is during the call.		
	Set the following:		
Case Scen-	blf.whisper_barge_in_code = *32		
ario	features.blf.show_callinfo.enable = 1		
	During the call of the monitored line, long press the BLF key and press the Whisper Bargeln soft key, then the phone calls *328866 to barge in the call. You can hear all call participants, but only party B can hear you.		

Related Parameters	features.blf.show_callinfo.enable		
Parameter	blf.listen_barge_in_code	<y000000000xx>.cfg</y000000000xx>	
	It configures the feature access code for barging in the active call of the monitored line in listening mode.		
	If configured, you can press the Listen BargeIn soft key to barge in the call. You are automatically muted so you can listen on the call only. Your outbound audio can not be transmitted to either party.		
	Note: It applies to the Alcatel-Lucent CTS only.		
Permitted Values	String within 32 characters		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P, T30P, T30, T29G, T19(P) E2 and CP920		
	The feature access code is *32. A (your phone) monitors party B (number: 8866), party B and party C is during the call.		
	Set the following:		
Case Scen-	blf.listen_barge_in_code = *32		
ario	features.blf.show_callinfo.enable = 1		
	During the call of the monitored line, long press the BLF key and you press the Listen BargeIn soft key, then the phone calls *328866 to barge in the call. You are automatically muted, so you can hear all call participants, but no one can hear you.		
Related Parameters	features.blf.show_callinfo.enable		

Ethernet Interface MTU Parameters

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		
Parameter	static.network.set_fragment.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the fragmented packet sending.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	1		
Supported Devices	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920		

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

SIP Settings Parameters

Parameter	account.X.compact_header_enable ^[1]	<mac>.cfg</mac>
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Description	It enables or disables the phone to support compact SIP header.		
-	0-Disabled 1-Enabled		
Default	0		
Parameter	r account.X.custom_ua ^[1] <mac>.cfg</mac>		
Description	It configures the suffix of User-Agent in SIP request messages from the phon	е.	
Permitted Values	String within 256 characters		
Default	Blank		
Parameter	r account.X.call_id_mode ^[1] <mac>.cfg</mac>		
Description	It configures the constitution of caller ID.		
Permitted Values	 0-Use random digits 1–Use the combination of the digits and letters 2–Use random digits plus MAC address 		
Default	0		
Parameter	r account.X.path.enable ^[1] <mac>.cfg</mac>		
Description	It enables or disables the phone to carry the Supported:path header in the REGISTER request mes- sage.		
	0-Disabled 1-Enabled	0-Disabled	
Default	0		
Parameter	r account.X.insert_outbound_in_route.enable ^[1] <mac>.cfg</mac>		
Description	It enables or disables the phone to add outbound server address as the topmost Route header in the request message. Note: It works only if the received 200 OK response for the REGISTER request contains the Service route header.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	r account.X.invite_with_rpid_header.enable ^[1] <mac>.cfg</mac>		
Description	It enables or disables the phone to add the Remote-Party-ID (RPID) header in the initial INVITE mes- sage.		
Permitted Values	0-Disabled 1-Enabled		
Default	0	0	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	All phones except T48G, T46G, T42G, T41P and T29G	
Parameter	r account.X.third_part_request_with_route.enable <mac>.cfg</mac>		
Description	It enables or disables the phone to carry the Route header in the request message which is sent to the third-party server (for example, a Music On Hold server). Note: It works only if the received 200 OK response for the REGISTER request contains the Service		

	route header.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	sip.unreg_with_socket_close	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to close the socke responding account(s).	t immediately when the user deregisters the cor-	
	0-Disabled		
Values Default	1-Enabled		
	0		
Parameter	account.X.check_cseq.enable ^[1]	<mac>.cfg</mac>	
Description	It enables or disables the phone to check if the CSe that in the previous request on the same dialog.	eq sequence number in the request is lower than	
Permitted	0-Disabled		
Values	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.	
rennitieu	0-Disabled		
Values	1-Enabled. If the To-tag does not exist, the phone will reject the request.		
Default	0		
Parameter	features.call_invite_format	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the format of callee field in the INVITE	message.	
Permitted	0-sip:XXX		
Values	1-tel:Number, you need to set "account.X.outbound	I_proxy_enable" to 1.	
Default	0		
Parameter	sip.escape_characters.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to convert ASCII code into corresponding symbol.		
Permitted Values	0-Disabled 1-Enabled		
Default	1		
	Target characters: %5F (escape character % plus t	he ASCII characters 5F)	
	1. If you want to convert the ASCII code, set the following:		
Case Scen-	sip.escape_characters.enable = 1		
ario	sip.reserve_characters = %NULL%		
	Result: The target characters %5F are converted to		
	2. If you do not want to convert the ASCII code, set the following:		

	sip.escape_characters.enable = 0		
	sip.reserve_characters = %		
	Result: The target characters %5F remain the same	ə.	
Parameter	sip.reserve_characters	<y000000000xx>.cfg</y000000000xx>	
Description	It specifies the characters that the phone does not recognize as the escape one.		
	Multiple characters are not separated.		
Permitted Values	String		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G		
Related Parameters	sip.escape_characters.enable		
Parameter	sip.tcp_port_random_mode ^[2]	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the listening port mode.		
Permitted	0 -random source port (non 506x), fixed ports (506x	x) carried in the Contact, Via header.	
Values	1 -random source port (non 506x) and other ports (non 506x) carried in the Contact, Via header.		
Default	1		
Parameter	sip.listen_mode	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the listening mode.		
	0-according to the transport protocol		
Permitted Values	1-listening TCP and UDP		
	2-listening TCP and UDP, and subscribe for BLF List containing transport=TCP in the Contact heade		
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	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to add a global pr	efix "+" to the E.164 user parts in SIP: URI.	
Permitted	0-Disabled		
Values	a 1-Enabled, the phone will automatically add a prefix "+" to the number in the E.164 format wh dial using the SIP URI (for example 862512345000@sip.com).		
Default	0		
Parameter	sip.send_keepalive_by_socket	<y000000000xx>.cfg</y000000000xx>	
Deparimtien	It enables or disables the phone to send the keep-a	the phone to send the keep-alive packets based on the transport protocol.	
Description	Note: It works only if "account.X.nat.udp_update_enable" is set to 1 (Default).		

	• Disclosed the phone could the local cline posterior becault an the construct		
rennitieu	0-Disabled, the phone sends the keep-alive packets based on the account		
Values	1-Enabled		
Default	1		
Parameter	sip.sdp_early_answer_or_offer <pre><y00000000xx>.cfg</y00000000xx></pre>		
Description	It enables or disables the phone to generate an SD able provisional response or PRACK request and r	č	
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Parameter	sip.reliable_protocol.timerae.enable	<y000000000xx>.cfg</y000000000xx>	
	It enables or disables the timer for ict and nict when TCP protocol is used.		
Description	Note: This parameter can be used for fast failover purpose when TCP connection fails.		
Permitted	0-Disabled		
Values	1-Enabled		
Default	0		
Parameter	sip.mac_in_ua	<y000000000xx>.cfg</y000000000xx>	
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		
1			

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

Call Settings Parameters

Parameter	phone_setting.show_code403	<y000000000xx>.cfg</y000000000xx>
Description	It configures the display message on the phone screen when receiving a 403 message. If it is left blank, the phone will display the value sent from the server when receiving the 403 mes- sage.	
Permitted Values	String within 99 characters	
Default	Blank	
Parameter	phone_setting.incoming_call_when_dial- ing.priority	<y000000000xx>.cfg</y000000000xx>
Description	It enables or disables the phone to interrupt the user operation when there is an incoming call.	
Permitted Values	0 -Disabled, the phone will not prompt the incoming call information when the user is dialing or select- ing a contact from the directory/call log lists to transfer a call/to set up a conference/to place a new call.	

	1 -Enabled, the phone will return to the dialing screen if there is an incoming call arrives when the user selects a contact from the directory/call log lists to transfer a call/to set up a conference with/to place a new call.		
Default	1		
Parameter	phone_setting.end_call_net_disconnect.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to end the call if th	e network is unavailable during the call.	
Permitted Values	0-Disabled1-Enabled, the phone will end the call and go to the	e Idle screen after 5 seconds.	
Default	0		
Parameter	features.station_name.value	<y000000000xx>.cfg</y000000000xx>	
Description	It configures station name to be displayed on the top-left corner of the LCD screen. Note : The text displayed might be truncated if "features.station_name.scrolling_display" is set to 0 (Disabled). For T43U/T42G/T42S/T42U/T41P/T41S/T27G phones, the station name is displayed in the middle bottom of the idle screen.		
Permitted Values	Blank (the label of the default account will be displayed) String		
Default	Blank		
Parameter	features.station_name.scrolling_display	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the phone to scroll the string	display on the top-left corner of the LCD screen.	
Permitted Values	0-Disabled 1-Enabled		
Default	1		
Parameter	phone_setting.incoming_call.reject.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the user to manually reject a	n incoming call on the phone.	
Permitted Values	 0-Disabled, the Reject soft key disappears from the incoming call screen; pressing X/Mute key, tap the on-hook key or using action URI to reject the call is not permitted. 1-Enabled 		
Default	1		
Parameter	features.call_out_directory_by_off_hook.enable <y000000000xx>.cfg</y000000000xx>		
Description	It enables or disables the phone to automatically dial out the selected contact from Directory once you press the off-hook key.		
Permitted Values	0-Disabled 1-Enabled		
Default	0		
Supported Devices	СР920		
Parameter	features.ok_key.talking.mode	<y000000000xx>.cfg</y000000000xx>	

Description	It configures how the phone behaves when pressing the OK key during the call.			
	0-Do not response			
	1-The phone sends a SIP INFO request that contains the event flashhook message body to the remote party.			
	2 -Enter the Status screen, you can check the firmware version, phone's IP address and so on for troubleshooting.			
	3-Unhold the call			
	4 -Enter the Menu screen, you are allowed to configure Call Forward, Call Waiting, Auto Answer, Key As Send, Hotline, Auto Redial, DND, Intercom, Call Completion, History Setting, Paging List features.			
Default	0			
Supported Devices	All phones except T57W, T48G, T46G, T42G, T41P and T29G			

Unify Parameters

Parameter	unify.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the Unify features.		
Velues	0-Disabled 1-Enabled		
Default	0		
	T57W, T54W, T53W, T53, T48U, T46U, T43U, T42U, T48S, T46S, T42S, T41S, T33P, T33G, T31P, T31G, T31, T30P, T30, T27G and CP920		
_	Identify the Notify messages sent by the Unify server and synchronize the FWD / DND feature with server.		

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

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

Exporting All the Diagnostic Files

Yealink phones support three types of diagnostic files (including Pcap trace, log files, 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, navigate 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.

Log Files

You can configure your device to generate the log files locally, upload the log to the USB flash drive connected to the phone or sent the log to a syslog server in real time, and use these log files to generate informational, analytic and troubleshoot phones.

Topics

Local Logging Syslog Logging

Local Logging

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

Topics

Local Logging Configuration Exporting the Log Files to a Local PC Uploading Log to the USB Flash Drive

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 locally. The log files recorded before are still kept on the phone.					
Permitted Values						
	1-Enabled, the phone will continue to record log to the log files log files to the provisioning server or a specific server or export them t					
Default	1					
Web UI	Settings > Configuration > Enable Local Log					
Parameter	syslog.usb.enable	<y000000000xx>.cfg</y000000000xx>				
	It enables or disables the phone to collect log using a USB flash d	rive.				
Description	Note: It works only if "static.local_log.enable" is set to 1 (Enabled).					
Permitted	0-Disabled					
Values	1-Enabled					
Default	0					
Supported Devices	All phones except T48G, T46G, T42G, T41P, T40P, T40G, T33P, T33G, T31P, T31G, T31, T30P, T30, T29G, T23P, T23G, T21(P) E2 and T19(P) E2					
Web UI	Settings > Configuration > USB Auto Exporting Syslog					
Parameter	static.local_log.level	<y000000000xx>.cfg</y000000000xx>				
	It configures the lowest level of local log information to be rendere	d to the <mac>.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					
	Settings > Configuration > Local Log Level					
Web UI	Settings > Configuration > Local Log Level					
	static.local_log.max_file_size	<y000000000xx>.cfg</y000000000xx>				

	(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:					
	static.local_log.max_file_size = 1024					
	<u>T40P/T40G/T23P/T23G/T21(P) E2/T19(P) E2:</u>					
Permitted	Integer from 256 to 1024					
Values	Other phones:					
	Integer from 256 to 2048					
	T40P/T40G/T23P/T23G/T21(P) E2/T19(P) E2:					
Default	256					
	Other phones:					
	1024 TAND (#400 (#000 (#01 (D) E0 (#10 (D) E0)					
	<u>T40P/T40G/T23P/T23G/T21(P) E2/T19(P) E2:</u>					
Web UI	Settings > Configuration > Max Log File Size (256-1024KB)					
	Other phones:					
-	Settings > Configuration > Max Log File Size (256-2048KB)					
Parameter	static.auto_provision.local_log.backup.enable	<y000000000xx>.cfg</y000000000xx>				
Description	It enables or disables the phone to upload the local log files to the provisioning server or a specific server.					
	Note : The upload path is configured by the parameter "static.auto_provision.local_log.backup.path". 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:					
Permitted Values	- Auto provisioning is triggered;					
values	 The size of the local log files reaches the maximum configured by the parameter "static.local_ log.max_file_size"; 					
	 It's time to upload local log files according to the upload period c ic.auto_provision.local_log.backup.upload_period". 	onfigured by the parameter "stat-				
Default	0					
Parameter	static.auto_provision.local_log.backup.upload_period	<y000000000xx>.cfg</y000000000xx>				
Description	It configures the period (in seconds) of the local log files uploads t cific server.	o the provisioning server or a spe-				
	Note: It works only if "static.auto_provision.local_log.backup.enab	le" is set to 1 (Enabled).				
Permitted Values	Integer from 30 to 86400					
Default	30					
		static.auto_provision.local_log.backup.path r				
Parameter	static.auto_provision.local_log.backup.path	<y000000000xx>.cfg</y000000000xx>				
	static.auto_provision.local_log.backup.path It configures the upload path of the local log files.	<y000000000xx>.cfg</y000000000xx>				

	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, /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, tftp), 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.enab	le" is set to 1 (Enabled).				
Permitted Values	URL within 1024 characters					
Default	Blank					
Parameter	static.auto_provision.local_log.backup.append	<y000000000xx>.cfg</y000000000xx>				
Description	It configures whether the uploaded local log files overwrite the existing files.	sting files or are appended to the				
Permitted	0-Overwrite					
Values	1-Append (not applicable to TFTP Server)					
Default	0					
Parameter	static.auto_provision.local_log.backup.append.limit_mode	<y000000000xx>.cfg</y000000000xx>				
Description	It configures the behavior when local log files on the provisioning server or a specific server reach the maximum file size.					
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.					
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 can be stored on the provisioning server or a specific server.					
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 to the pro- visioning server or a specific server after startup.					
Permitted Values	Integer from 1 to 86400					
Default	120					

Exporting the Log Files to a Local PC

Procedure

- 1. From the web user interface, navigate to Settings > Configuration.
- 2. In the Enable Local Log field, select Enabled or ON.

- **3.** 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.
- Click Export to open the file download window, and then save the file to your local system.
 A diagnostic file named <MAC>-syslog.zip is successfully exported to your local system.

Uploading Log to the USB Flash Drive

The phone log can be uploaded to the connected USB flash drive.

It is not applicable to

T48G/T46G/T42G/T41P/T40P/T40G/T33P/T33G/T31P/T31G/T31/T30P/T30/T29G/T23P/T23G/T21(P) E2/T19(P) E2 phones.

Procedure

- 1. From the web user interface, navigate to Settings > Configuration.
- 2. In the Enable Local Log field, select Enabled or ON.
- 3. In the USB Auto Exporting Syslog field, select Enabled or ON.
- Select the desired value 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.

The log files are uploaded to your USB flash drive.

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, 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.log):

1
2 <134>Mar 29 13:01:30 ipvp[1423.1423]: IPVP<6+info > 690.919.830:dump len:0
3 <134>Mar 29 13:01:31 sua [1583]: DLG <6+info > [255] SIP: 206.165.51.38:5960 Keep Alive sent on UDP!
4 <134>Mar 29 13:01:31 WEB [2225:2248]: WEB <6+info > 691.692.659:CWebMsgThread::OnOutputDump, dump type 0
5 <133>Mar 29 13:01:31 dms [1347.1425]: DNS <5+notice> get mkit msg stats, dump type 0
6 <133>Mar 29 13:01:32 sua [1583]: NET <5+notice> [255] <<<<=== TLS socket 10.100.5.50:5061: read 2 bytes
7 <134>Mar 29 13:01:32 sys [1344.1380]: SYS <6+info > dump to file end
8 <133>Mar 29 13:01:32 sys [1344.1380]: SYS <5+notice> cd /tmp/;/bin/tar -chf log/crash.tar crash;/bin/tar -chf /tmp/syslog.zip log.

The <MAC>.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>.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 IP phone 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	It enables or disables the phone to upload log messages to the syslog server in real time.		
	0-Disabled 1-Enabled		
Default	0		
Web UI	Settings > Configuration > Syslog > Enable Syslog		
Parameter	static.syslog.server	<y000000000xx>.cfg</y000000000xx>	

Description	It configures the IP address or domain name of the syslog server when exporting log to the syslog server.		
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	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the transport protocol that the IP phon server.	e uses when uploading log messages to the syslog	
Permitted	0 -UDP		
Values	1-TCP		
	2 -TLS		
Default	0		
Web UI	Settings > Configuration > Syslog > Syslog Transport Type		
	static.syslog.level <y00000000xx>.cfg</y00000000xx>		
Parameter	static.syslog.level	<y000000000xx>.cfg</y000000000xx>	
	It configures the lowest level of syslog information	hat displays in the syslog.	
		hat displays in the syslog. of an equal or higher severity level and excludes	
Description	It configures the lowest level of syslog information f When you choose a log level, it includes all events events of a lower severity level. The logging level y	hat displays in the syslog. of an equal or higher severity level and excludes	
Description	It configures the lowest level of syslog information to When you choose a log level, it includes all events events of a lower severity level. The logging level y events to log.	hat displays in the syslog. of an equal or higher severity level and excludes	
Description	It configures the lowest level of syslog information to When you choose a log level, it includes all events events of a lower severity level. The logging level y events to log. 0 -Emergency: system is unusable	hat displays in the syslog. of an equal or higher severity level and excludes	
Description	It configures the lowest level of syslog information f When you choose a log level, it includes all events events of a lower severity level. The logging level y events to log. 0-Emergency: system is unusable 1-Alert: action must be taken immediately	hat displays in the syslog. of an equal or higher severity level and excludes	
Description	It configures the lowest level of syslog information f When you choose a log level, it includes all events events of a lower severity level. The logging level y events to log. 0-Emergency: system is unusable 1-Alert: action must be taken immediately 2-Critical: critical conditions	hat displays in the syslog. of an equal or higher severity level and excludes	
Description Permitted Values	It configures the lowest level of syslog information if When you choose a log level, it includes all events events of a lower severity level. The logging level y events to log. 0-Emergency: system is unusable 1-Alert: action must be taken immediately 2-Critical: critical conditions 3-Critical: error conditions	hat displays in the syslog. of an equal or higher severity level and excludes	
Description Permitted Values	It configures the lowest level of syslog information to When you choose a log level, it includes all events events of a lower severity level. The logging level y events to log. 0-Emergency: system is unusable 1-Alert: action must be taken immediately 2-Critical: critical conditions 3-Critical: error conditions 4-Warning: warning conditions	hat displays in the syslog. of an equal or higher severity level and excludes	
Description Permitted Values	It configures the lowest level of syslog information for When you choose a log level, it includes all events events of a lower severity level. The logging level y events to log. 0 -Emergency: system is unusable 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	hat displays in the syslog. of an equal or higher severity level and excludes	
Description Permitted Values Default	It configures the lowest level of syslog information f When you choose a log level, it includes all events events of a lower severity level. The logging level y events to log. 0 -Emergency: system is unusable 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	hat displays in the syslog. of an equal or higher severity level and excludes	
Description Permitted Values Default Web UI	It configures the lowest level of syslog information if When you choose a log level, it includes all events events of a lower severity level. The logging level y events to log. 0-Emergency: system is unusable 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 3	hat displays in the syslog. of an equal or higher severity level and excludes	
Description Permitted Values Default Web UI Parameter	It configures the lowest level of syslog information for the works of a lower severity level, it includes all events events of a lower severity level. The logging level y events to log. 0 -Emergency: system is unusable 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 3 Settings > Configuration > Syslog > Syslog Level	hat displays in the syslog. of an equal or higher severity level and excludes rou choose determines the lowest severity of	
Description Permitted Values Default Web UI Parameter Description	It configures the lowest level of syslog information for When you choose a log level, it includes all events events of a lower severity level. The logging level y events to log. 0 -Emergency: system is unusable 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 3 Settings > Configuration > Syslog > Syslog Level static.syslog.facility It configures the facility that generates the log mess Note : For more information, refer to RFC 3164.	hat displays in the syslog. of an equal or higher severity level and excludes rou choose determines the lowest severity of	
Description Permitted Values Default Web UI Parameter Description	It configures the lowest level of syslog information for When you choose a log level, it includes all events events of a lower severity level. The logging level y events to log. 0 -Emergency: system is unusable 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 3 Settings > Configuration > Syslog > Syslog Level static.syslog.facility It configures the facility that generates the log mess	hat displays in the syslog. of an equal or higher severity level and excludes rou choose determines the lowest severity of	

	Settings > Configuration > Syslog > Syslog Prepend MAC					
	0					
	0-Disabled 1-Enabled					
Description	It enables or disables the phone to prepend the MAC address to the log messages exported to the sys- log server.					
Parameter	static.syslog.prepend_mac_address.enable	<y000000000xx>.cfg</y000000000xx>				
Web UI	Settings > Configuration > Syslog > Syslog Facility					
Default	16					
	 23-Local Use 7 (Local7) 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. 					
	22-Local Use 6 (Local6)					
	21-Local Use 5 (Local5)					
	20-Local Use 4 (Local4)					
	19-Local Use 3 (Local3)					
	18-Local Use 2 (Local2)					
	17-Local Use 1 (Local1)					
	16-Local Use 0 (Local0)					
	15-Clock Daemon (Note 2)					
	14-Log Alert (note 1)					
	13-Log Audit (note 1)					
	12-NTP Subsystem					
	11-FTP Daemon					
	10-Security/Authorization Messages (Note 1)					
	9-Clock Daemon (note 2)					
	8-UUCP Subsystem					
	 5-Messages are generated internally by syslog 6-Line Printer Subsystem 7-Network News Subsystem 					
	4-Security/Authorization Messages (Note 1)					
	3-System Daemons					

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	10.2.20.160	local0.notice	Jun	2 00:42:48 [00:15:65:74:b1:50] sua [845]: APP <5+notice> [SIP] version :0
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] call channels info
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] cb_nict_kill_transaction (id=88)
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] m=audio 7150 RTP/AVP 9 0 8 18 101
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] Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REGISTER, SUBSCRIBE, NOTIFN
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] 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.

Six 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.
- Reset a configuration at a time

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

Reset to Factory Configuration Resetting the IP phone to Default Factory Settings Resetting a Configuration to Default Factory Setting Resetting the IP phone to Custom Factory Settings Deleting the Custom Factory Settings Files

Reset to Factory Configuration

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

Parameter	features.reset_by_long_press_enable <y00000000xx>.cfg</y00000000xx>				
Description	It enables or disables the phone to reset to factory by long pressing OK/ √key.				
Permitted Values	0-Disabled 1-Enabled				
Default	1				
Parameter	features.factory_pwd_enable <y00000000xx>.cfg</y00000000xx>				
Description	It enables or disables the phone to prompt for the administrator password when you long press the OK/\sqrt{key} to perform a factory reset on the idle screen.				
Permitted Values	0-Disabled 1-Enabled				
Default	0				
Case Scen- ario	Reset the phone to factory in the User mode Set the following: features.factory_pwd_enable = 0 static.security.var_enable = 1 When the phone is in the User mode, users can reset the phone to factory settings by long pressing the OK/ √key.				

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?".

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>			
	It configures the access URL of the custom factory configuration files. Note: It works only if "static.features.custom_factory_config.enable" is set to 1 (Enabled) and the file format of the custom factory configuration file must be *.bin.			
Permitted Values	URL within 511 characters			
Default	Blank			
Web UI	Blank T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U: Settings > Configuration > Import Factory Configuration Other Phones: 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.
- Click Del/Delete in the Import Factory Config (Import Factory Configuration) 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.

Resetting a Configuration to Default Factory Setting

You can reset a configuration to default factory instead of resetting your phone.

Note: This feature works only when the parameter "static.auto_provision.custom.protect" is set to 1.

Procedure

- 1. On the web user interface, click the question mark "?" after each configuration.
- 2. Click Reset if any change is made before.

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.

Topics

Capturing the Packets via Web User Interface Ethernet Software Capturing Configuration

Capturing the Packets via Web User Interface

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

Yealink devices support the following two modes for capturing the packets:

- Normal: Export the packets file after stopping capturing.
- Enhanced: Export the packets file while capturing.

Topics

Capturing the Packets in Enhanced Way Capturing the Packets in Normal Way

Capturing the Packets in Enhanced Way

Procedure

- 1. From the web user interface, navigate to Settings > Configuration.
- 2. Select Enhanced from the Pcap Type drop-down menu.
- 3. Click Start in the Pcap Feature field to start capturing signal traffic.
- 4. Reproduce the issue to get stack traces.
- 5. Click Stop in the Pcap Feature field to stop capturing.
- 6. Select a location for saving the packets file on your local system while capturing.

Yealink	Status Account Network	Dsskey Features Settings	Log Out English(English) - Directory Security
Preference	Export or Import Configuration	No selected file Browse ?	NOTE
Time&Date		Import Export	Configuration IP phones can provide feedback in a variety of forms such as log
Call Display	Export CFG Configuration File	Static Settings Export	files, packets, status indicators and so on, which can help an
Upgrade			administrator more easily find the system problem and fix it.
Auto Provision	Import CFG Configuration File	No selected file Browse ?	· Log Files
Configuration		Inporc Cancer	 Capturing Packets Configuration File (*.cfg/*.bin)
Voice	Рсар Туре	Enhanced 🗸 🕜	(log/ lony
Ring	Pcap Feature	Start Stop	Click here to get more product documents.

Note: The steps may differ for different web browsers.

Capturing the Packets in Normal Way

Procedure

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

Yealink	Status Account Network	Dsskey Features Settings	Log Out English(English) • Directory Security
Preference Time&Date	Export or Import Configuration	No selected file Browse 0 Import Export	NOTE Configuration IP phones can provide feedback
Call Display Upgrade	Export CFG Configuration File	Static Settings	in a variety of forms such as log files, packets, status indicators and so on, which can help an administrator more easily find the system problem and fix it.
Auto Provision Configuration	Import CFG Configuration File	No selected file Browse ?	 Log Files Capturing Packets Configuration File
Voice	Рсар Туре	Normal 👻 🕜	(*.cfg/*.bin)
Ring	Pcap Feature	Start Stop Export	Click here to get more product documents.

Ethernet Software Capturing Configuration

You can choose to capture the packets using the Ethernet software in two ways:

- Receiving data packets from the hub: Connect the Internet port of the IP phone and the PC to the same hub, and then use Sniffer, Ethereal or Wireshark software to capture the signal traffic.
- Receiving data packets from PC port: Connect the Internet port of the IP phone to the Internet and the PC port of the IP phone to a PC. Before capturing the signal traffic, make sure the phone can span data packets received from the Internet port to the PC port. It is not applicable to CP920 phones.

Topic

Span to PC Port Configuration

Span to PC Port Configuration

The following table lists the parameter you can use to configure span to PC port.

Parameter	static.network.span_to_pc_port ^[1]	<y000000000xx>.cfg</y000000000xx>	
Description It enables or disables the phone to span data packets received from the WA Note: It works only if "static.network.pc_port.enable" is set to 1 (Auto Negotia)			
Permitted Values	 0-Disabled 1-Enabled, all data packets from the Internet port can be received by PC port. 		
Default	0		
Supported Devices	All phones except CP920		
Web UI	Network > Advanced > Span to PC > Span to PC P	ort	

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

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	escription It enables or disables the Watch Dog feature.		
Permitted	0-Disabled		
Values	1-Enabled, the phone will reboot automatically when the system crashed.		
Default	1		
Web UI	Settings > Preference > Watch Dog		

Network Diagnostics

You can use ping and traceroute diagnostics for troubleshooting network connectivity via the web user interface or phone user interface.

You can also enable the phone to detect the reachability of the connected wired or wireless network via auto provisioning. The phone can display an icon warning (for T42S/T42U/T41S IP phone, prompt a message) on the phone screen when the network is unreachable. You can set the time interval for network reachability detection.

Topics

Ping and Traceroute Diagnostics Network Reachability Detection Configuration

Ping and Traceroute Diagnostics

Procedure

- 1. From the web user interface, click Network > Diagnostics.
- 2. Select Ping or Traceroute from the Command drop-down menu.
- 3. Enter an IP address or a URL (for example, 10.200.108.48) in the IP Address field.
- 4. Click Start to start a ping.

Yealink				Log Out English(English) 🗸
	Status Account Netwo	ork Dsskey Feat	ures Settings	Directory Security
Basic	Diagnostics 🕜			NOTE
PC Port	Command	Ping 👻	0	network-diagnosis-note
NAT	IP Address	10.200.108.48	0	connectivity problems
Advanced	# ping 10.200.108.48 PING 10.200.108.48 (10.200.10 64 bytes from 10.200.108.48: s			Click here to get more
Wi-Fi	64 bytes from 10.200.108.48: s 64 bytes from 10.200.108.48: s 64 bytes from 10.200.108.48: s	eq=2 ttl=126 time=0.744 ms		product documents.
Diagnostics	 — 10.200.108.48 ping statistics 4 packets transmitted, 4 packet round-trip min/avg/max = 0.744 	 s received, 0% packet loss		
	Start	Stop		

You can also diagnose network via the phone user interface at the path: Menu > Features > Diagnostics > Network > Ping or Menu > Features > Diagnostics > Network > Trace Route.

Network Reachability Detection Configuration

The following table lists the parameters you can use to configure network reachability detection.

Parameter	static.features.network_test.enable	<y000000000xx>.cfg</y000000000xx>	
Description	It enables or disables the network reachability detection.		
	0-Disabled		
Permitted Values	1-Enabled, if the network is unreachable, "Network unreachable" is displayed on the T42S/T42U/T41S phones, while a network unreachable icon is displayed in the status bar of other phones.		
Default	0		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T2	29G	
Parameter	static.features.network_test.host	<y000000000xx>.cfg</y000000000xx>	
	It configures the server address that the phone use	s to detect the network reachability.	
	The server address can be the IP address or doma by semicolons.	in name. Multiple server addresses are separated	
Description	Example:		
	static.features.network_test.host = 192.168.1.20;19	2.168.1.10	
	Note: It works only if "static.features.network_test.e	nable" is set to 1 (Enabled).	
Permitted	Blank-The phone does not detect network reachability.		
Values	String within 1024 characters		
Default	Blank		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G		
Parameter	static.features.network_test.check_policy	<y000000000xx>.cfg</y000000000xx>	
Description	It configures the policy when detecting the network reachability of multiple servers.		
Description	Note: It works only if "static.features.network_test.enable" is set to 1 (Enabled).		
Fermitteu	0-OR		
Values	1-AND		
Default	0		
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G		
Parameter	static.features.network_test.period	<y000000000xx>.cfg</y000000000xx>	
Deseriation	It specifies a period of time (in seconds) to detect the network status when the network is reachable.		
Description	Note: It works only if "static.features.network_test.enable" is set to 1 (Enabled).		
Permitted Values	Integer from 2 to 3600		
Default	60		
Supported	All phones except T48G, T46G, T42G, T41P and T29G		
·			

Devices		
Parameter	static.features.network_unavailable_test.period	<y000000000xx>.cfg</y000000000xx>
Description	It specifies a period of time (in seconds) to detect the network status when the network is unreachable. Note: It works only if "static.features.network_test.enable" is set to 1 (Enabled).	
Permitted Values	Integer from 2 to 3600	
Default	30	
Supported Devices	All phones except T48G, T46G, T42G, T41P and T29G	

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 > CFG 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 > CFG 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>	
	It configures the access URL of the custom MAC-Oriented CFG file.		
Description	The URL supports wildcard \$pin. For example, http:// <serveripaddress>/\$pin/.</serveripaddress>		
Permitted	URL within 511 characters		
Values			
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.
- In the Export or Import Configuration (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 configuration files.	
	Note: The file format of the custom configuration file must be *.bin.	
Permitted Values	URL within 511 characters	

Default	Blank
W	T57W/T54W/T53W/T53/T48U/T46U/T43U/T42U:
	Settings > Configuration > BIN Configuration > Import Configuration
Web UI	Other Phones:
	Settings > Configuration > BIN Configuration > Export or Import Configuration

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

Device Status

Available information on device status includes:

- General information (IPv4 address or IPv6 address, phone MAC address, Machine ID, Wi-Fi dongle MAC address, firmware version, and warning).
- Network status (IPv4 status or IPv6 status, IP mode, phone MAC address, Wi-Fi dongle MAC address, and VLAN ID).
- Phone status (product name, hardware version, firmware version, product ID, phone MAC address, Wi-Fi dongle MAC address, Bluetooth dongle MAC address and device certificate status).
- Account status (registration status of SIP accounts).
- Wi-Fi status

Topic

Viewing Device Status

Viewing Device Status

You can view device status via the phone user interface by pressing the OK key or navigating to Menu > Status.

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

Procedure

- 1. Open a web browser on your computer.
- 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 Phone 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 header "Event: check-sync".	a SIP NOTIFY message which contains the
Permitted Values	 0-The phone will reboot only if the SIP NOTIFY meen 1-The phone will reboot. 2-The phone will ignore the SIP NOTIFY message. 	ssage contains an additional string "reboot=true".
Default	1	

Rebooting the Device via the Phone User Interface

You can reboot your device via the phone user interface.

Procedure

- 1. Press Menu > Basic > Reboot (Menu > Settings > Basic Settings > Reboot).
- 2. Press OK.

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 Display Issues Phone Book Issues Audio Issues Wi-Fi and Bluetooth Issues Firmware and Upgrading Issues System Log Issues Password Issues Logo Issues Power and Startup Issues Other Issues

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.
- Ensure that the Wi-Fi feature is disabled.

If your phone connects to the wireless network:

- If the network is secure, ensure the entered password is correct.
- Ensure your gateway/router enables the wireless network feature.

Solving the IP conflict problem

Do one of the following:

- Reset another available IP address for the IP phone.
- Check network configuration via the phone user interface at the path Menu > Advanced (default password: admin) > Network > WAN Port > IPv4 (or IPv6). For black-and-white phones, navigate to Menu > Settings > Advanced Settings (default password: admin) > 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.

Display Issues

The phone screen is blank

Do one of the following:

- Ensure that the IP phone is properly plugged into a functional AC outlet.
- Ensure that the IP phone is plugged into a socket controlled by a switch that is on.
- If the IP phone is plugged into a power strip, try plugging it directly into a wall outlet.
- If your phone is PoE powered, ensure that you are using a PoE-compliant switch or hub.

The phone displays "No Service"

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

Do one of the following:

- Ensure that an account is actively registered on the phone at the path Menu > Status > More > Accounts.
- Ensure that the SIP account parameters have been configured correctly.

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 (handset, 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

Wi-Fi and Bluetooth Issues

The wireless signal strength is low

Ensure the IP phone and your gateway/ router are within the working range and there is no obvious interference (walls, doors, and so on.) between them.

The phone cannot connect to Bluetooth devices all the time

Try to delete the registration information of the Bluetooth device on both IP phone and Bluetooth device, and then pair and connect it again. Contact Yealink field application engineer and your Bluetooth device manufacturer for more information.

The Bluetooth headset affects IP phone's voice quality

You may not experience the best voice quality if you use a Bluetooth headset while the 2.4 GHz band is enabled or while you are in an environment with many other Bluetooth devices. This possible loss in voice quality is due to inherent limitations with Bluetooth technology.

Firmware and Upgrading Issues

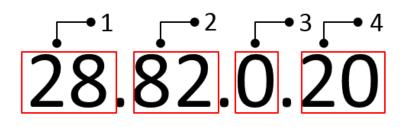
Fail to upgrade the phone firmware

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

Press the OK/ \sqrt{O} key or select **Menu** > **Status** when the phone is idle to check the firmware version. For example 28.82.0.20.



	ltem	Description	
1	Item	Firmware ID. The firmware ID for each IP phone model is: 97: T57W 96: T54W 95: T53W/T53 108: T48U/T46U/T43U 116: T42U 35: T48G 28: T46G 66: T48S/T46S/T42S/T41S 29: T42G 36: T41P	
		 54: T40P 76: T40G 124: T33P/T33G/T31P/T31G/T31/T30P/T30 46: T29G 69: T27G 44: T23P/G 52: T21(P) E2 53: T19(P) E2 78: CP920 	
2	82	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.

Protocols and Ports Issues

What communication protocols and ports do Yealink IP phones support?

Source Device	Source IP	Source Port	Destination Device	Destination IP	Destination Port (Listen- ing port)	Protocol	Description of des- tination port
		2~65535	IP phone or voice gate- way	IP address of IP phone or voice gateway	Determined by des- tination device.	UDP	RTP protocol port, it is used to send or receive audio stream.
		1024~65535	SIP Server	IP address of SIP server	Determined by des- tination device.	UDP/TCP	SIP protocol port, it is used for signaling inter- action with SIP server.
IP	IP address of	1024~65535	TR-069 Server	IP address of TR-069 server	Determined by des- tination device.	TCP	TR-069 protocol port, it is used to communicate with TR-069server.
phones	IP phones	1024~65535	File server	IP address of file server	Determined by des- tination device.	TCP	HTTP protocol port, it is used to download file.
		1024~65535	Remote phone book server	IP address of remote phone book server	Determined by des- tination device.	TCP	HTTP protocol port, it is used to access the remote phone book.
		1024~65535	AA	IP address of AA	Determined by des- tination device.	TCP	HTTP protocol port, it is used for AA com- munication.

Source Device	Source IP	Source Port	Destination Device	Destination IP	Destination Port (Listen- ing port)	Protocol	Description of des- tination port
		68	DHCP Server	IP address of DHCP server	67	UDP	DHCP protocol port, it is used to obtain IP address from DHCP server.
		1024~65535	LDAP Server	IP address of LDAP server	Determined by des- tination device.	TCP	LDAP protocol port, it is used to obtain the contact information from LDAP server.
		1024~65535	NTP Server	IP address of NTP server	123	UDP	NTP protocol port, it is used to synchronize time from NTP time server.
		1024~65535	Syslog Server	IP address of syslog server	514	UDP	Syslog protocol port, it is used for IP phones to upload syslog inform- ation to syslog server.
IP phones	IP address of IP phones	1024~65535	PNP Server	IP address of PNP server (Default value: 224.0.1.75)	5059	UDP/TCP	Protocol port, it is used to obtain the URL of updat- ing file from PNP server.
			Multipaging	Multipaging	65000 65001		
PC	IP address of				1~65535	TCP	HTTP port (default value: 80)
PC	PC				1~65535	ТСР	HTTP port (default value: 443)
SIP Server	IP address of SIP Server	Determined by the des-	IP phones	IP address of IP	1024~65534	UDP/TCP	SIP protocol port, it is used for signaling inter- action with SIP server.
IP phone of voice gateway	IP address of IP phone or voice gate- way	tination device.	" prones	phones	2~65535	UDP	RTP protocol port, it is used by destination device to send or receive audio stream.
TR-069 Server	IP address of TR-069 Server				1024~65535	TCP	TR-069 protocol port, it is used to communicate with TR-069 server.

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	Status Account Network	Log Out Default password is in use. Please change! English (English) T Dsskey Features Settings Directory Security
Password Trusted Certificates Server Certificates	User Type Old Password New Password Confirm Password	admin ? Image: Second
	Confirm	Cancel You can change the user/ administrator password for security.

Logo Issues

Why does the IP phone use DOB format logo file instead of popular BMP, JPG and so on?

The IP phone only uses logo file in DOB format, as the DOB format file has a high compression ratio (the size of the uncompressed file compared to that of the compressed file) and can be stored in smaller space. Tools for converting BMP format to DOB format are available.

Power and Startup Issues

Both PoE cable and power adapter is connected to the phone

The phones use the PoE preferentially.

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:

- Reboot your device.
- Replace the power adapter.

The Phone screen is black

If the power LED indicator is on, the keypad is usable but the phone screen is black, please reboot your IP phone.

The IP phone always displays the Yealink logo

If your IP phone does not boot, check if the provisioning server is accessible on the network and a valid software firmware and valid configuration files are available. Try to use recovery mode to get your phone ready. For more information on recovery mode, refer to Recovery Mode on Yealink phones.

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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. Time	Source	Destination	Protocol	Length Info
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		10.3.20.14	SIP	314 Status: 100 Trying
56 2.034665		10.3.20.14	SIP	342 Status: 487 Request Cancelled
57 2.037965		10.3.5.199	SIP	305 Request: ACK sip:1010@10.3.5.199:5060
58 2.251601		10.3.20.14	SIP	547 Status: 180 Ringing
60 4.650231		10.3.20.14	SIP/SDP	746 Status: 200 OK, with session description
61 4.670808		10.3.20.4	SIP	405 Request: ACK sip:1021@10.3.20.4:5063
192 6.064543		10.3.20.14	SIP	342 Status: 487 Request Cancelled
193 6.067820		10.3.5.199	SIP	305 Request: ACK sip:1010@10.3.5.199:5060
263 6.733904		10.3.20.4	SIP/SDP	918 Request: INVITE sip:1021@10.3.20.4:5063, in-dialog, with session description
264 6./41532		10.3.20.14	SIP	336 Status: 100 Trying
267 6.790510		10.3.20.14	SIP/SDP	746 Status: 200 OK, with session description
269 6.803767	10.3.20.14	10.3.20.4	SIP	405 Request: ACK 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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o. Time	Source	Destination	Protocol	Length Info
56 3.074205		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: 100 Trying
59 3.328526		10.3.20.14	SIP	546 Status: 180 Ringing
60 5.121648		10.3.20.14	SIP/SDP	745 Status: 200 OK, with session description
	10.3.20.14	10.3.20.4	SIP	403 Request: ACK sip:1021@10.3.20.4:5063
	10.3.20.9	224.0.1.75	SIP	544 Request: SUBSCRIBE sip:MAC001565770984@224.0.1.75
182 6.429073	10.3.20.14	10.3.20.4	SIP/SDP	914 Request: INVITE sip:1021@10.3.20.4:5063, in-dialog, with session description
184 6.439004		10.3.20.14	SIP	335 Status: 100 Trying
187 6.482474		10.3.20.14	SIP/SDP	743 Status: 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
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The difference between Shared Call Appearance (SCA) and Bridge Lines Appearance (BLA)

SCA and BLA are similar signaling methods that enable more than one phone to share a SIP line. The method you use varies with the SIP server you are using. In the configuration files, the relevant configuration parameters of SCA and BLA are different. The barge-in and call pull feature are not available with BLA, but they are available with SCA.

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.

Reading Icons

T57W	T54W/T33P/T- 33G	T48U/S· /G	T46U/S- /G	T42- U/ T42- S/ T41- S	T42-	T40P- /G	T29G	T53W/T- 53 /T43U /T27G	CP9- 20	T31P/T31G/- T31/ T30P/T30/ T23P/T23G /T21(P) E2	T19 (P) E2	Description
				T	Ð		-		\Box			Wired network is unavailable
	I	(T48U/- S)	(T46U/- S)	/	/	۵	/	© ;	۵;	Gi	۵	Wired network is unreachable
Ø	8	þ	1	(0	ſo	6	¢	6	6	6	6	Private line registers suc- cessfully
þ	e	(k)	(þa		(X	\bigcirc	(þa	\otimes	\oslash	\oslash	$\overline{\otimes}$	Registration failed
(Flash- ing)	1	(Flash- ing)	1	8	8	8		2	\oslash	8	\bigcirc	Registering
/	/	/	/	/	/	/	/	/	0	/	/	Yealink Cloud account registers suc- cessfully
$\leq \mathbb{D}$	$\leq \mathfrak{D}$			•	••)		Ŷ				4 .	Hands-free (speakerphone) mode
	S	Ì	C		(٢	S	ſ	/	L	٢	Handset mode
\bigcirc	\bigcirc	\mathbb{C}	0	\mathbf{O}	\mathbf{O}	0	C	N	/	೧	い	Headset mode

T57W	T54W/T33P/T- 33G	T48U/S· /G	T46U/S- /G	T42- U/ T42- S/ T41- S	T42-	T40P- /G	T29G	T53W/T 53 /T43U /T27G	CP9- 20	T31P/T31G/- T31/ T30P/T30/ T23P/T23G /T21(P) E2	T19 (P) E2	Description
00	\geq	00	X	00	00	00	\ge	00	00	00	00	Voice Mail
\succeq	\square	\ge	X	/	/	\boxtimes	\mathbb{X}	\bowtie	\bowtie	\boxtimes	\bowtie	Text Message
			A	AA	AA	AA	Ą	AA	AA	AA	AA	Auto Answer
0	-	0	0	DND	DND	DND	0	DND	DND	DND	DND	Do Not Disturb
A	A	(T48U/- S)	(T46U/- S)	. /	/	A	/	A	A	A	A	Phone Warning
Ð	U	P	Ą		┢	ť	¢	Ç	C	ť	Ç	Call Forward
				0	0	0		0	0	0	0	Call Hold
Ð	%	Ş	۲	Ł	Ł	N	۲	V			Ş	Call Mute
Ņ	"	\$	\$	/	/	<u>لې</u>	Þ	V		₽ ₽	Ļ	Keep Mute
\leq	- 	*	¥	∎ (×	∎ (×	Ľ×	*	¤₫×	∎ € ×	□∆×	₽₫×	Ringer volume is 0
		01		€	€	C		0			0	Phone Lock
Y	y	¥	-	>	>	/	-			7	>	Received Calls
5	2	ষ্ঠ	+	5	5	<	1	5	~	K	5	Placed Calls
G	ę	Ş	\$	~	>	ζ	\$	>	ζ	4	~	Missed Calls
•	6	Φ	¢	┎→	┎→	Ç	•	Ç	Ç	ť	Ç	Forwarded Calls
۲	۲	\bigcirc		ullet	/	/	ig)			/	/	Recording starts suc- cessfully (USB recording)
•		•			/	/				/	/	Recording is paused (USB recording)
1	*	Ì		\ominus	\ominus	\ominus	Ŵ	Θ	/	\ominus	/	Recording box is full (DSSKey recording)
۲	۲	۲	R	×	×	• •	R	×	/	×	1	A call cannot be recorded (DSSKey recording)
۲	۲			$oldsymbol{O}$	$oldsymbol{O}$		۲		/		/	Recording

T57W	T54W/T33P/T- 33G	T48U/S· /G	T46U/S· /G	T42- U/ T42- S/ T41- S	T42-	T40P-	T29G	T53W/T 53 /T43U /T27G	CP9- 20	T31P/T31G/- T31/ T30P/T30/ T23P/T23G /T21(P) E2	T19 (P) E2	Description
												starts suc- cessfully (DSSKey recording)
۲	۵	Ø		\otimes	\otimes	\otimes		\otimes	/	\otimes		Recording can- not be started (DSSKey recording)
Ø	8	Ø		ø	Ø	Ø	Ø	ø	/	Ø	/	Recording can- not be stopped (DSSKey recording)
V	V	V	V	VPN	VPN	VPN	V	VPN	VPN	VPN	VPN	VPN is enabled
*	*	*	96	/	/	/	44	₿.	₿ ×	/	/	Bluetooth mode is on
8	8		*	/	/	/	*	8	*	/	/	Bluetooth head- set is both paired and con- nected
2	28	(T48U/- S)	(T46U/- S)	/	/	/	/	X	/	/	/	Bluetooth- enabled mobile phone is both paired and con- nected
(•	(ŀ•	(lo	60)	/	/	/	60)	((ŗ	((r	/	/	Wi-Fi con- nection is suc- cessful
ϕ	-0)	X	X	/	/	/	X	(íř.	((íč×	/		Wi-Fi con- nection failed
7	D	(T48U/- S)	(T46U/- S)	/	/	/	/	R	<u>چ</u>	/		Wi-Fi con- nection is unreachable
/		/		/	/	/	\mathcal{G}	/	/	/	/	Conference
			2				Δ			•		The default con- tact icon
		2	2	/	/	/	2	/	/	/	/	The default caller photo
٩,	فر	٩,	6	/	/	/	S	/	/	/		Line key type is Line (the line is seized)
				/	/	/		/	/	/		Line key type is Speed Dial
1	1	1	2	/	/	/	2	/	/	/	/	Line key type is BLF/BLF List

T57W	T54W/T33P/T- 33G	·T48U/S· /G	·T46U/S· /G	T42- U/ T42- S/ T41- S	T42-	T40P-	T29G	Т53W/T- 53 /T43U /T27G	CP9- 20	T31P/T31G/- T31/ T30P/T30/ T23P/T23G /T21(P) E2	T19 (P) E2	Description
												(BLF/BLF list idle state)
2,	2,	2	2	/	/	/		/	/	/	/	Line key type is BLF/BLF List (BLF/BLF list ringing state)
1	1	-	2	/	/	/	2	/	/	/	/	Line key type is BLF/BLF List (BLF/BLF list talking state)
2.	2.		2	/	/	/	2	/	/	/	/	Line key type is BLF (BLF hold state)
2,	2,		ł	/	/	/	1	/	/	/		Line key type is BLF/BLF List (BLF/BLF list callout state)
2.	2.		2	/	/	/	2	/	/	/	/	Line key type is BLF/BLF List (BLF/BLF list failed state)
1	2	_	2	/	/	/	20	/	/	/	/	Line key type is BLF List (BLF list call park state)
00	00	00	00	/	/	/		/	/	/	/	Line key type is Voice Mail
G	Q	Q		/	/	/	S	/	/	/		Line key type is Direct Pickup
Ì	Q	Q		/	/	/	E	/	/	/	/	Line key type is Group Pickup
6	\$	6	6	/	/	/	8	/	/	/	/	Line key type is Call Park/XML Park (park suc- cessfully/call park idle state)
હ	હ	5	5	/		/	۴	/	/	/	,	Line key type is Call Park/XML Park (call park ringing state)
C	C	C	9	/	/	/	8	/	/	/	/	Park failed
Ę	Ê	Com	2	/	/	/	ð	/	/	/	/	Line key type is Retrieve Park

T57W	T54W/T33P/T- 33G	T48U/S· /G	T46U/S· /G	T42- U/ T42- S/ T41- S	T42-	T40P-	T29G	T53W/T- 53 /T43U /T27G	CP9- 20	T31P/T31G/- T31/ T30P/T30/ T23P/T23G /T21(P) E2	T19 (P) E2	Description
		=		/	/	/		/	/	/		Line key type is Intercom (inter- com idle state)
				/	/	/		/	/	/	/	Line key type is Intercom (inter- com ringing state)
Talking	.	Talking		/	/	/		/	/	/	/	Line key type is Intercom (inter- com talking state)
Callout	1	Callout	 ©	/	/	/		/	/	/	/	Line key type is Intercom (inter- com callout state)
	11			/	/	/		/	/	/	/	Line key type is Intercom (inter- com failed state)
E	۳ س	CHH CHH		/	/	/	S	/	/	/	/	Line key type is DTMF/Prefix
s.	<u>, (</u>]		1	/	/	/	4	/	/	/	/	Line key type is Local Group/XML Group/LDAP/G- oogle Contacts
D	Ð	()	\odot	/	/	/	\mathbf{O}	/	/	/	/	Line key type is XML Browser
R		E E		/	/	/	¢.	/	/	/	/	Line key type is Conference
ŋ	ŋ	5	P	/	/	/	P	/	/	/	/	Line key type is Forward
	GC	Cal	2	/	/	/	š	/	/	/	/	Line key type is Transfer
	Ξ			/	/	/		/	/	/		Line key type is Hold/Private Hold
•	-	9	•	/	/	/	0	/	/	/	/	Line key type is DND
5	\$	C	٢	/	/	/	Ş	/	/	/	/	Line key type is Recall
\geq	\geq	\ge	Х	/	/	/	Х	/	/	/	/	Line key type is SMS
0	O	0	0	/	/	/	۲	/	/	/	/	Line key type is Record/URL Record

T57W	T54W/T33P/T- 33G	T48U/S· /G	T46U/S· /G	T42- U/ T42- S/ T41- S	T42-	T40P- /G	T29G	T53W/T- 53 /T43U /T27G	CP9- 20	T31P/T31G/- T31/ T30P/T30/ T23P/T23G /T21(P) E2	T19 (P) E2	Description
۲	۲	۲	۲	/	/	/	۲	/	/	/	/	Line key type is Record/URL Record (record- ing starts suc- cessfully)
Ð	L.	Ð	2	/	/	/	2	/	/	/	/	Line key type is Multicast Paging/Group Listen- ing/Paging List
	-		ē	/	/	/	Ð	/	/	/	/	Line key type is Hot Desking
LZ/	यि	LZ Z	L)	/	/	/	Ð	/	/	/	/	Line key type is ACD
Ĺ	Ť	Ĺ	û	/	/	/	û	/	/	/	/	Line key type is Zero Touch
(RL)	(R)	URL	9	/	/	/		/	/	/	/	Line key type is URL
				/	/	/		/	/	/	/	Line key type is Phone Lock
2	20	3	2	/	/	/	2	/	/	/	/	Line key type is Directory
			iii	/	/	/	iii	/	/	/	/	Line key type is Custom Key
		/	/	/	/	/	/		/	/	/	Line key type is DECT Intercom
/	$\langle \rangle$	/	£	/	/	/	/	/	/	/	/	Line key type is Extend
Ð	Ð	F	£ <mark>∕</mark>	C	C	0	L	C	C	C	C	The ACD state is available
120	141	F	_ <mark>∕</mark> ≈	C and x	C and x	C and x	2 <mark>8</mark>	C and x	C and x	💽 and x	C and x	The ACD state is unavailable
17	(¹		())	0	0	0	٢	0	0	0	0	The ACD state is Wrap up
ß	Ŀ	ł	Å	Ø	Ø	Ø	Å	Ø	Ø	Ø	Ø	Log out of the ACD system
1	2	9	2	2	2	2	2	2	2	2	3	The shared line/bridged line is idle

T57W	T54W/T33P/T- 33G	T48U/S· /G	T46U/S- /G	T42- U/ T42- S/ T41- S	T42-	T40P- /G	T29G	T53W/T- 53 /T43U /T27G	CP9- 20	T31P/T31G/- T31/ T30P/T30/ T23P/T23G /T21(P) E2	T19 (P) E2	Description
(Flash- ing)	9,	(Flash- ing)	esta a	/	/	/	Ъ	/	/	/		The shared line receives a ring- back tone
(Flash- ing)	9	(Flash- ing)	6ª	/	/	/	2	/	/	/		The shared line receives an incoming call
9	9	9	2	/	/	/	2	/	/	/	/	The shared line is in con- versation
9	3	(F	P	/	/	/	2	/	/	/	/	The shared line conversation is placed on pub- lic hold
(Flash- ing)	(Flashing)	(Flash- ing)	(Flash- ing)	/	/	/	(Flash- ing)	œ	œ	/		USB flash drive/PSTN box is detecting (PSTN box is only applicable to CP920)
				/	/	/		Ŕ	Ŧ	/	/	USB flash drive is detected
HD	HD	HD	HD	HD	HD	HD	HD	HD	HD	HD	HD	High Definition Voice