Yealink SIP IP Phones Release Notes of Version 84

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Yealink SIP IP Phones Release Notes of Version x.84.0.125

1. Introduction

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  T19-E2: 53.84.0.95 upgrades to 53.84.0.125

  T21-E2: 52.84.0.95 upgrades to 52.84.0.125

  T23: 44.84.0.95 upgrades to 44.84.0.125

  T40P: 54.84.0.95 upgrades to 54.84.0.125

  T40G: 76.84.0.95 upgrades to 76.84.0.125

  T27G: 69.84.0.95 upgrades to 69.84.0.125

  T41S/T42S/T46S/T48S: 66.84.0.95 upgrades to 66.84.0.125

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- Applicable Models: T19-E2, T21-E2, T23, T40P, T40G, T27G, T41S, T42S, T46S, T48S, CP920, T53, T53W, T54W, T57W

- Release Date: Mar 16th, 2020.

2. New Features

1. Added QuoVadis Root CA2 and HydrantID SSL ICA G2 as new Trusted Certificate.

3. Optimization

1. Changed the permitted value of the parameter account.x.custom_ua from string within 128 characters to string within 256 characters.

4. Bug Fixes

1. Fixed an issue that the voice QoS may not be synchronized when the phone is working with Yealink Management Cloud Service and Yealink Device Management Platform.

Yealink SIP IP Phones Release Notes of Version x.84.0.95

2. Introduction

- Firmware Version:

  T53/T53W: 95.84.0.85 upgrades to 95.84.0.95

  T54W: 96.84.0.85 upgrades to 96.84.0.95

  T57W: 97.84.0.85 upgrades to 97.84.0.95

- Applicable Models: T53, T53W, T54W, T57W

- Release Date: Dec 6th, 2019.

3. New Features

2. Added the feature of auto Wi-Fi connection.

4. Optimization

None

5. Bug Fixes

1. Fixed a probabilistic issue that with individual differences, in some special situations, when you use the hands-free speakerphone during the call, the remote party may hear an echo.

Yealink SIP IP Phones Release Notes of Version x.84.0.90

1. Introduction

- Firmware Version:

  T19-E2: 53.84.0.80 upgrades to 53.84.0.90

  T21-E2: 52.84.0.80 upgrades to 52.84.0.90

  T23: 44.84.0.80 upgrades to 44.84.0.90

  T40P: 54.84.0.80 upgrades to 54.84.0.90

  T40G: 76.84.0.80 upgrades to 76.84.0.90

  T27G: 69.84.0.80 upgrades to 69.84.0.90

  T41S/T42S/T46S/T48S: 66.84.0.80 upgrades to 66.84.0.90

  CP920: 78.84.0.80 upgrades to 78.84.0.90

  T52S/T54S: 70.84.0.15 upgrades to 70.84.0.70

- Applicable Models: T19-E2, T21-E2, T23, T40P, T40G, T27G, T41S, T42S, T46S, T48S, CP920, T52S, T54S

- Release Date: Oct 11th, 2019.

2. New Features

None

3. Optimization

1. Optimized the German translation.

4. Bug Fixes

2. Fixed an issue that there will be a Web security risk caused by Command Injection, Path-Traversal, Cross-Site-Reqest-Forgery (CRFS), etc. for T52S and T54S.
3. Fixed an issue that the invalid characters in the value of rsakey parameter will result in Web service crashing for T52S and T54S.

Yealink SIP IP Phones Release Notes of Version x.84.0.80

1. Introduction

- Firmware Version:

  T19-E2: 53.84.0.15 upgrades to 53.84.0.80

  T21-E2: 52.84.0.15 upgrades to 52.84.0.80

  T23: 44.84.0.15 upgrades to 44.84.0.80

  T40P: 54.84.0.15 upgrades to 54.84.0.80

  T40G: 76.84.0.15 upgrades to 76.84.0.80

  T27G: 69.84.0.15 upgrades to 69.84.0.80

  T41S/T42S/T46S/T48S: 66.84.0.15 upgrades to 66.84.0.80

  CP920: 78.84.0.15 upgrades to 78.84.0.80

  T53/T53W: 95.84.0.35 upgrades to 95.84.0.85

  T54W: 96.84.0.35 upgrades to 96.84.0.85

  T57W: 97.84.0.35 upgrades to 97.84.0.85

- Applicable Models: T19-E2, T21-E2, T23, T40P, T40G, T27G, T41S, T42S, T46S, T48S, CP920, T53, T53W, T54W, T57W

- Release Date: Aug 30th, 2019.

2. New Features

1. Yealink Device Management Platform and Yealink Management Cloud Service are not supported by T40P/T40G/T23P/T23G/ T21(P)E2/T19(P) E2 IP phone.
2. Added the feature that you can view the complete label of line key on T27G, T41S, T42S, T46S, T53, T53W and T54W IP phone.
3. Added the feature that the power LED indicator flashes when the phone receives a voice mail or a text message during a call.
4. Added the feature that you can disable the phone to perform an intelligent search when searching for contacts in the directory.
5. Added the feature that you can configure a ring tone that the phone plays before the incoming call is automatically answered.

6. Added the feature that you can configure the phone to use anonymous identity to access the LDAP directory.
7. Added the feature that you can configure EDK macro action string to access Advanced menu by entering the correct authentication information.
8. Added the feature that you can configure the contact number by EDK macro action string or "!+EKD macro name", and the phone will execute the action according to the EDK rules.
9. Added the feature that you can configure the transfer type that the phone will perform when the entered transferee number matches the predefined string of the digit map.
10. Added the feature that you can configure the phone to keep the original call status after semi-attended/attended transfer is rejected by the server.
11. Added a new rule for Daylight Saving Time (DST) configuration.
12. Added the feature of entering password to access phone menus.
13. Added the feature of Dsskey Lock.
14. Added the feature of BLF Key for Intercom.
15. Supported BT41 Bluetooth USB Dongle. It supports 16K WBS when connecting Bluetooth headset except AirPods.
16. Added the feature that the wired network information and the wireless network information are stored separately on the phone and distinguished by the network adapter.
17. Added the feature of Ribbon Presence on T46S, T48S, T54W and T57W IP phone.
18. Added the feature of Ribbon E911.
19. Added the feature of Ribbon Emergency Instant Messages.
20. Added the feature of Ribbon MADN-SCA (Multiple appearance directory number−single call appearance).
21. Added the feature of Ribbon One-Touch Call Park and Retrieve.

3. Optimization

1. Optimized the display method of history records in the History.
2. Optimized the feature of Call Display.
3. Optimized the feature that you can add groups with same group name and contacts with same contact name and same contact number to the IP phone if needed.
4. Optimized the display method of the contacts with same contact number but different contact names.
5. Optimized the feature of Google Contacts.
6. Optimized the feature that if there is only one remote phone book, the phone will enter the configured Remote URL directly when pressing Directory soft key.
7. Optimized the feature that when you search for a LDAP contact, the search results will not display the contact without contact number.
8. Optimized the feature that if call waiting is disabled, and the phone is during the call, phone will perform an LDAP search when receiving a second incoming call. This feature is also applicable to the scenario that when DND or call forward is enabled.
9. Optimized Time Zone.

10. Optimized the feature that you can customize the data format configured by "lcl.datetime.date.format", for example, DD.MM.YYYY.
11. Optimized the feature of XML Browser.
12. Optimized the feature that for Status object configuration on color-screen IP phone, if you configure the value of color as "RGB", the IP phone will display a color text.
13. Optimized the feature that if you configure the parameter *features.local_conf.combine_with_one_press.enable=1* (enables the phone to set up a three-way conference directly after the second party answers the call), when the conference set up failed, the phone will prompt you with a message.
14. Optimized the feature that when you press a line key to enter the pre-dialing screen, you can press the SpeedDial key to dial out using this line directly.
15. Optimized the feature of Call Display that you can configure the phone to display the local identity whenever it receives an incoming call.
16. Optimized the feature of BLF key LED/icon and Behavior for DND state that you can configure the BLF key LED to glow yellow.
17. Optimized the feature of BLF/BLF List Subscription.
18. Optimized the feature of Emergency Dialplan and Enhanced 911.
19. Optimized the feature of Call Park and Retrieve.
20. Optimized the feature that you can clear the MAC-local configurations via auto provisioning.
21. Optimized the feature that you can enable DHCP Active feature and configure DHCP Custom Option via phone user interface directly under the path of Menu -> Advanced -> Auto Provision.
22. Changed the default value of the parameter *network.redundancy.mode* from 0 to 2, that the phone will use the wired network preferentially.
23. Optimized the feature of PnP Provision.
24. Optimized the feature that according to TIA-4965, the volume level of handset or headset will be reset to level 11 for the next call if the volume level for the last call exceeds the standards.

4. Bug Fixes

1. Fixed an issue that after you configure 3-level access permissions, some configurations may not be displayed normally on the phone.
2. Fixed an issue that the phone may failed to report to the UaCSTA server when the call is ended.
3. Fixed a logic issue when you set backlight to Always Off on black-and-white screen phone.
4. Fixed an issue that the phone may not play keypad tone when the DTMF type is set to INBAND.
5. Fixed an issue that the Caller ID displayed in the History may be incorrect when you perform call transfer.
6. Fixed an issue that the transfer may be failed when you pick up the call by BLF key.
7. Fixed an issue that the phone may fail to reject the local anonymous call.

8. Fixed an issue that the phone may use the wrong account to send the text message.
9. Fixed an issue about the display logic of Wi-Fi MAC address displayed on the phone.
10. Fixed an issue that there will be a Web security risk caused by Command Injection, Path-Traversal, Cross-Site-Reqest-Forgery (CRFS), etc.
11. Fixed an issue that the invalid characters in the value of rsakey parameter will result in Web service crashing.

5. New Features Description

1. **Added the feature that you can view the complete label of line key on T27G, T41S, T42S, T46S, T53, T53W and T54W IP phone.**
   Description: If the label length feature is set to Extended, you can extend the line key labels that the phone will display all the characters of the line key label when the phone is idle or during the call.
   The parameters in the auto provision template are described as follows:
   features.config_dsskey_length =

2. **Added the feature that the power LED indicator flashes when the phone receives a voice mail or a text message during a call.**
   Description: You can configure the power LED indicator to slowly flashes for 1 second when the phone receives a voice mail or a text message during a call.
   The parameters in the auto provision template are described as follows:
   phone_setting.mail_power_led_flash_enable =

3. **Added the feature that you can disable the phone to perform an intelligent search when searching for contacts in the directory.**
   Description: The phone only displays the search results of a number match if you disable the intelligent search when searching for contacts in the directory.
   The parameters in the auto provision template are described as follows:
   phone_setting.search_t9.enable =

4. **Added the feature that you can configure a ring tone that the phone plays before the incoming call is automatically answered.**
   Description: You can configure the phone to play a beep tone or a custom ring tone before the incoming call is automatically answered.
   The parameters in the auto provision template are described as follows:
   features.auto_answer.ring_type =

5. **Added the feature that you can configure the phone to use anonymous identity to access the LDAP directory.**
   Description: After you configured this feature, if the authentication information is not configured on the phone, the phone can log into the LDAP server with an empty authentication information. But if the server does not allow the anonymity to log into, the phone prompts users to enter the corresponding user name and password.

The parameters in the auto provision template are described as follows:

ldap.anonymous_bind_operation.enable =

6. **Added the feature that you can configure the phone to keep the original call status after semi-attended/attended transfer is rejected by the server.**
   Description: If party A makes an active call with party B and party B wants to transfer this call to party C by a semi-attended transfer, but the transfer is rejected by the server, the call between party A and party B is held and party B is still calling party C. If party A makes an active call with party B and party B wants to transfer this call to party C by an attended transfer, but the transfer is rejected by the server, the call between party A and party B is held and party B still makes an active call with party C.
   The parameters in the auto provision template are described as follows:
   features.transfer_keep_session2_after_failed.enable =

7. **Added a new rule for Daylight Saving Time (DST) configuration.**
   Description: You can configure the offset days for the start time and the end time of Daylight Saving Time (DST). For example, if you set 2 days offset for the start time, the actual start time will be two days earlier than planned.

8. **Added the feature of Dsskey Lock.**
   Description: You can configure the type of dsskey to be locked on the phone and the password to unlock those dsskeys.
   The parameters in the auto provision template are described as follows:
   custom.features.dsskey_lock_type =
   custom.features.dsskey_lock_type =

9. **Added the feature of BLF Key for Intercom.**
   Description: The phone can be configured to initiate an outgoing intercom call to a monitored user when pressing the BLF key.
   The parameters in the auto provision template are described as follows:
   features.blf.intercom_mode.enable =

10. **Added the feature of Ribbon Presence on T46S, T48S, T54W and T57W IP phone.**
    Description: You can monitor status changes of GAB/PAB contacts in real time after adding these contacts to a presence list. The presence list supports up to 100 GAB/PAB contacts. The IP phone synchronizes the presence status with that on the soft client.
    The parameters in the auto provision template are described as follows:
    gb.presence.enable =
    gb.presence.line =
    directory_setting.presence_list.enable =
    directory_setting.presence_list.priority =

11. **Added the feature of Ribbon E911.**
    Description: During a 911 call, if the subscriber has disconnected, the Ribbon server

keeps the session resources in places, then notifies the emergency services operator and he could initiate a "ringback", in which case the subscriber's line is rung. The subscriber is re-connected upon answer. The subscriber can reconnect to the existing 911 call by simply going offhook.

12. **Added the feature of Ribbon Emergency Instant Messages.**
   Description: When an emergency call is made, Ribbon server sends an emergency instant message, including location, phone number, etc., to the phone that is registered with a special account. The phone displays the information pushed by the server and plays the pre-configured ring tone.
   The parameters in the auto provision template are described as follows:
   gb.emergency_instant_messages.enable =
   gb.emergency_instant_messages.displaytimeout =
   features.emergency_instant_messages.ring_type =

13. **Added the feature of Ribbon MADN-SCA (Multiple appearance directory number—single call appearance).**
   Description: The MADN-SCA feature enables a group of users to share a single line with other contacts. You can configure the star code to change the phone status from non-private to private or from private to non-private.
   The parameters in the auto provision template are described as follows:
   account.X.share_line.enable_private_code =
   account.X.share_line.cancel_private_code =

14. **Added the feature of Ribbon One-Touch Call Park and Retrieve.**
   Description: When users register the account on the Kandy server, they can use a call park key for one-touch parking and retrieving. If the parked call is not retrieved within a period of time assigned by the Kandy server, the phone performing call park will receive a call back. This feature is not applicable to T19(P) E2/CP920 IP phone.

6. Optimization Description

1. **Optimized the feature of Call Display.**
   Description:
   (1) You can configure the phone to display the small contact photo and display the full 16-digit number hen it receives an incoming call, dials a call or is in a call.
      The parameters in the auto provision template are described as follows:
      phone_setting.little_contact_photo_display.enable =
   (2) You can configure the phone to display the identity of the called party whenever it receives an incoming call.
      The parameters in the auto provision template are described as follows:
      phone_setting.called_party_info_display.enable =
   (3) The phone will match and display the called party information in the priority of Label -> Display Name -> Register Name ->User Name.

2. **Optimized the display method of the contacts with same contact number but different contact names.**
   Description: When there is an incoming call, the phone will match the contact in alphabetical descending order and display the first one with priority. When your search for a contact, the search results are displayed in alphabetical ascending order.

3. **Optimized the feature of Google Contacts.**
   Description: You can assign a dsskey as Google Contacts so that you can access the google contacts directly by press the pre-configured dsskey. Meanwhile, you can configure the phone to only display the google contact whose number field is not empty.
   The parameters in the auto provision template are described as follows:
   google_contact_server.display_mode =

4. **Optimized Time Zone.**
   Description: (1) Changed the time zone of Kyrgyzstan (Bishkek) into UTC+6. (2) Changed the time zone of Kazakhstan (Aktau) into UTC+5. (3) If you set your location as Australia (Perth), the Daylight Saving Time (DST) cannot be configured. (4) Added two new time zones for South Africa named as Harare and Pretoria, without Daylight Saving Time (DST).

5. **Optimized the feature of XML Browser.**
   Description: After you configure the TextMenu object and there are many menu items under it, you can press the corresponding digit before each menu item to access the sub-menu directly.

6. **Optimized the feature of BLF/BLF List Subscription.**
   Description: You can configure the function of the extension value when the dsskey type is set to BLF.
   The parameters in the auto provision template are described as follows:
   features.blf_extension.mode =

7. **Optimized the feature of Emergency Dialplan and Enhanced 911.**
   Description: You can configure the secondary Location Information Server URL for the phone to send HELD location request.
   The parameters in the auto provision template are described as follows:
   dialplan.emergency.held.secondary.server_url =

8. **Optimized the feature of Call Park and Retrieve.**
   Description: You can enable the phone to park a call using the HOLD hard key.
   The parameters in the auto provision template are described as follows:
   features.call_park.performby_holdhardkey.enable =

9. **Optimized the feature of PnP Provision.**
Description: You can configure the phone to match the received provisioning URL with the last one from where the phone successfully requests the configuration via a PnP provision.
The parameters in the auto provision template are described as follows:
static.auto_provision.pnp_check_url.enable =

10. **Optimized the feature that according to TIA-4965, the volume level of handset or headset will be reset to level 11 for the next call if the volume level for the last call exceeds the standards.**
Description: If the volume level of handset or headset for the current call is adjusted to level 12/13/14/15, the volume level will automatically be reset to 11 after the call. That is, the initial volume level is 11 for the next call.
The parameters in the auto provision template are described as follows:
voice.handset.tia4965.enable =
voice.headset.tia4965.enable =

7. Configuration Parameters Enhancements

Auto Provision Template Flies Change Log							
Firmware Version：[x.84.0.15/x.84.0.35]-[x.84.0.80]							
Function	Provisioning syntax Comparison		Permitted Value	Default Value	Action	Description	File
	x.84.0.15/ x.84.0.35	x.84.0.80					
Power LED Indicator		phone_setting.mail_power_led_flash_enable =	0, 1, 2	1	Add	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).	common.cfg
Directory Search Settings		phone_setting.search_t9.enable =	0 or 1	1	Add	It enables or disables the phone to perform an intelligent search when searching for contacts in the directory.	common.cfg
Auto Answer		features.auto_answer.ring_type =	0 (beep tone) Ring1.wav, Ring2.wav, Ring3.wav,	0	Add	It configures a ring tone the phone plays before the incoming call is automatically	common.cfg

			Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (for example, Customring. wav)			answered. Note: It works only if "features.auto_answer_tone.en able" is set to 1 (Enabled).	
Auto Answer		features.auto_ answer_delay =	1 to 60	1	Change	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).	common. cfg
LDAP		ldap.anonym ous_bind_ope ration.enable =	0 or 1	1	Add	It enables or disables the phone to use anonymous identity for accessing the LDAP directory. Note: It works only if "ldap.enable" is set to 1 (Enabled).	common. cfg
Dial Now		dialplan.transf er.mode =	0 or 1	0	Add	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.	common. cfg
Call Transfer		features.trans fer_keep_sessi on2_after_fail ed.enable =	0 or 1	0	Add	It enables or disables the phone to keep the original call status after semi-attended/attended transfer is rejected by the server.	common. cfg
Dsskey Lock		custom.featur es.dsskey_loc	Blank (all valid function	Blank	Add	It configures which types of dsskeys to be locked on the	common. cfg

		k_type =	types are not locked); dsskey type IDs.			phone. Multiple dsskey type IDs are separated by commas.	
Ribbon Presence		gb.presence.enable =	0 or 1	0	Add	Enables or disables the presence feature.	common.cfg
Ribbon Presence		gb.presence.line =	T58A/T57W/ T54W/T48S/T 46S: 1-16; T53W/T53/T4 2S: 1-12; T41S/T27G: 1-6; T40P/T40G/T 23P/T23G: 1-3; T21(P) E2: 1-2; T19(P) E2/CP920/CP 960: 1.	1	Add	Configures the line the phone uses to subscribe to the presence state.	common.cfg
Ribbon Presence		directory_setting. presence_list. enable =	0 or 1	1	Add	Enables or disables the users to access the presence list by pressing the Directory soft key/tapping the directory icon.	common.cfg
Ribbon Presence		directory_setting. presence_list. priority =	Integer greater than or equal to 0	6	Add	Configures the display priority of the Presence List.	common.cfg
Outgoing Intercom		features.intercom.mode =	0 or 1	0	Add	It configures the intercom mode.	common.cfg
Ribbon Emergency Instant Messages		gb.emergency_instant_mes sages.enable =	0 or 1	0	Add	Enables or disables the phone to display emergency instant messages.	MAC.cfg
Ribbon Emergency Instant Messages		gb.emergency_instant_mes sages.displayt imeout =	Integer from 0 to 60	1	Add	Specifies the duration (in minutes) the emergency instant messages display. If it is set to 0, the message prompt will not disappear automatically. If it is set to other values, the	MAC.cfg

						message prompt will disappear automatically after the designated time. The instant messages display until one of the following occurs: • The user presses Cancel • The user presses any key on the phone • The phone goes off-hook • Another instant message is received • A popup message displays • The phone receives an incoming call • Timeout Note: It works only if "gb.emergency_instant_messages.enable" is set to 1 (Enabled).	
Ribbon Emergency Instant Messages		features.emergency_instant_messages.ring_type =	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, CustomRingtone.wav).	Splash.wav	Add	Configures the alert tone the phone plays when an emergency instant message is received.	MAC.cfg
Ribbon SCA		account.X.share_line.enable_private_code =	String within 32 characters	Blank	Add	Configures the star code for the phone to change its status from private to non-private.	MAC.cfg
Ribbon SCA		account.X.share_line.cancel	String within 32 characters	Blank	Add	Configures the star code for the phone to change its status	MAC.cfg

		_private_code =				from private to non-private. Note: It works only if "account.X.shared_line" is set to 1 (Shared Call Appearance). It is only applicable to MADN-SCA.	
Call Display		phone_setting.little_contact_photo_display.enable =	0 or 1	1	Add	It enables or disables the phone to display the little contact photo when it receives an incoming call, dials a call or is in a call. Note: It works only if "phone_setting.contact_photo_display.enable" is set to 1 (Always) or 2 (Adaptive).	common.cfg
Google Contacts		google_contact_server.display_mode =	0 or 1	1	Add	It configures the display mode of the Google contacts. Note: It works only if "google_contact_server.enable" is set to 1 (Enabled).	common.cfg
BLF Key LED/Icon and Behavior for DND State		blf.enhanced.dnd.enable =	0 or 1	0	Add	It enables or disables the custom configuration when DND is activated on the monitored phone.	common.cfg
BLF Key LED/Icon and Behavior for DND State		blf.enhanced.dnd.led =	String	Blank	Add	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.	common.cfg
BLF/BLF List Subscription		features.blf_extension.mode =	0 or 1	1	Add	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 BLF value@<server-	common.cfg

						IPaddress>.	
Transfer via DTMF		features.dtmf. replace_tran =	0 or 1	0	Add	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.	common. cfg
Transfer via DTMF		features.dtmf. transfer =	String within 32 characters	Blank	Add	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).	common. cfg
CLIP and COLP		account.x.cp_ source =	0, 1, 2, 3, or 4	0	Change	It configures the identity of the callee according to the response message.	MAC.cfg
Emergency Dialplan and Enhanced 911		dialplan.emer gency.held.se condary.serve r_url =	String	Blank	Add	It configures the secondary Location Information Server URL for the phone to send HELD location request. Note: It works only if "dialplan.emergency.enable" is set to 1 (Enabled) and "dialplan.emergency.asserted_ id_source" is set to HELD.	common. cfg
Call Park and Retrieve		features.call_p ark.performby _holdhardkey. enable =	0 or 1	0	Add	It enables or disables the phone to park a call using the HOLD hard key.	common. cfg
PnP Provision		static.auto_pr ovision.pnp_c heck_url.enab le =	0 or 1	0	Add	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.	common. cfg
ACD		acd.logout_fix ed_display.en able =	0 or 1	0	Add	It enables or disables the phone to display the Login/Logout soft key on a	common. cfg

				20		fixed location after the phone logs into the ACD system. Note: It works only if "account.X.acd.enable" is set to 1 (Enabled) and "account.X.acd.available" is set to 0 (Disabled).	
ACD		acd.available_ fixed_display. enable =	0 or 1	0	Add	It enables or disables the phone to display the Available/Avail or Unavailable/Unavail soft key on a fixed location after the phone logs into the ACD system. Note: It works only if "account.X.acd.enable" and "account.X.acd.available" are set to 1 (Enabled).	common. cfg
Broadsoft ACD		acd.disp_code _fixed_display .enable =	0 or 1	0	Add	It enables or disables the phone to display the DispCode soft key on a fixed location after the phone logs into the ACD system. Note: It works only if "account.X.acd.enable" and "account.X.call_center.disp_co de_enable" are set to 1 (Enabled).	common. cfg
Broadsoft ACD		acd.trace_fixe d_display.ena ble =	0 or 1	0	Add	It enables or disables the phone to display the Trace soft key on a fixed location after the phone logs into the ACD system. Note: It works only if "account.X.acd.enable" and "account.X.call_center.trace_en able" are set to 1 (Enabled).	common. cfg
Broadsoft Call Park		features.parke d_call_monito	0 or 1	0	Add	It enables or disables the phone to display a visual alert	common. cfg

		r.blf_visual_enable =			when a call is parked against the monitored line.	
Broadsoft Call Park		features.parked_call_monitor.blf_audio_enable =	0 or 1	1	Add	It enables or disables the phone to play an audio alert when a call is parked against the monitored line.	common.cfg
Broadsoft Call Park		features.parked_call_monitor.blf.ring_type =	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).	Splash.wav	Add	It configures an alert tone to play when a call is parked against the monitored line. Note: It works only if "features.parked_call_monitor.blf_audio_enable" is set to 1 (Enabled).	common.cfg
LDAP		ldap.custom_extra_attr_name =	String	Blank	Add	It configures the custom attribute names of each record that are displayed on the phone. The valid format is: <custom attribute name on the phone>%<attribute name on the server>. Multiple attribute names are separated by spaces.	common.cfg
LDAP		ldap.display_extra_attr =	String	Blank	Add	It configures the extra attributes list of each record to be displayed on the phone. The attribute must start with "%" symbol. Multiple attributes are separated by spaces.	common.cfg
LDAP		ldap.extra_attr =	String	Blank	Add	It configures the extra attributes of each record to be returned by the LDAP server. Multiple attributes are	common.cfg

						separated by spaces.	
Wireless Network IP Addressing Mode		static.network.wifi.ip_address_mode =	0, 1, or 2	0	Add	It configures the IP addressing mode for the wireless network.	common.cfg
Wireless Network IP Addressing Mode		static.network.wifi.preference =	0 or 1	0	Add	It specifies IPv4 or IPv6 as the preferred wireless network in a Dual-Stack mode. Note: It works only if "static.network.wifi.ip_address_mode" is set to 2 (IPv4 & IPv6).	common.cfg
IPv4 Wireless Network		static.network.wifi.internet_port.type =	0 or 2	0	Add	It configures the Internet port type for IPv4 wireless network. Note: It works only if "static.network.wifi.ip_address_mode" is set to 0 (IPv4) or 2 (IPv4 & IPv6).	common.cfg
IPv4 Wireless Network		static.network.wifi.internet_port.ip =	IPv4 Address	Blank	Add	It configures the IPv4 address for the wireless network. Note: It works only if "static.network.wifi.ip_address_mode" is set to 0 (IPv4) or 2 (IPv4 & IPv6), and "static.network.wifi.internet_port.type" is set to 2 (Static IP).	common.cfg
IPv4 Wireless Network		static.network.wifi.internet_port.mask =	Subnet Mask	Blank	Add	It configures the IPv4 subnet mask for the wireless network. Note: It works only if "static.network.wifi.ip_address_mode" is set to 0 (IPv4) or 2 (IPv4 & IPv6), and "static.network.wifi.internet_port.type" is set to 2 (Static IP).	common.cfg
IPv4 Wireless Network		static.network.wifi.internet_port.gateway =	IPv4 Address	Blank	Add	It configures the IPv4 default gateway for the wireless network. Note: It works only if "static.network.wifi.ip_address_mode" is set to 0 (IPv4) or 2 (IPv4 & IPv6), and "static.	common.cfg

						network.wifi.internet_port.type " is set to 2 (Static IP).	
IPv4 Wireless Network		static.network.wifi.static_dns_enable =	0 or 1	0	Add	It triggers the static DNS feature to on or off for the wireless network. Note: It works only if "static.network.wifi.internet_port.type" is set to 0 (DHCP).	common. cfg
IPv4 Wireless Network		static.network.wifi.primary_dns =	IPv4 Address	Blank	Add	It configures the primary IPv4 DNS server for the wireless network. 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).	common. cfg
IPv4 Wireless Network		static.network.wifi.secondary_dns =	IPv4 Address	Blank	Add	It configures the secondary IPv4 DNS server for the wireless network. 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).	common. cfg
IPv6 Wireless Network		static.network.wifi.ipv6_internet_port.type =	0 or 1	0	Add	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).	common. cfg
IPv6 Wireless Network		static.network.wifi.ipv6_internet_port.ip =	IPv6 Address	Blank	Add	It configures the IPv6 address for the wireless network. Note: It works only if "static.network.wifi.ip_address_mode" is set to 1 (IPv6) or 2	common. cfg

IPv6 Wireless Network		static.network .wifi.ipv6_prefi x =	Integer from 0 to 128	64	Add	(IPv4 & IPv6), and "static. network.wifi.ipv6_internet_port .type" is set to 1 (Static IP). It configures the IPv6 prefix for the wireless network. Note: It works only if "static.network.wifi.ip_address_ mode" is set to 1 (IPv6) or 2 (IPv4 & IPv6), and "static. network.wifi.ipv6_internet_port .type" is set to 1 (Static IP).	common. cfg
IPv6 Wireless Network		static.network .wifi.ipv6_inter net_port.gate way =	IPv6 Address	Blank	Add	It configures the IPv6 default gateway for the wireless network. Note: It works only if "static.network.wifi.ip_address_ mode" is set to 1 (IPv6) or 2 (IPv4 & IPv6), and "static. network.wifi.ipv6_internet_port .type" is set to 1 (Static IP).	common. cfg
IPv6 Wireless Network		static.network .wifi.ipv6_stati c_dns_enable =	0 or 1	0	Add	It triggers the static IPv6 DNS feature to on or off for the wireless network. Note: It works only if "static.network.wifi.ipv6_intern et_port.type" is set to 0 (DHCP).	common. cfg
IPv6 Wireless Network		static.network .wifi.ipv6_pri mary_dns =	IPv6 Address	Blank	Add	It configures the primary IPv6 DNS server for the wireless 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).	common. cfg
IPv6 Wireless Network		static.network .wifi.ipv6_seco ndary_dns =	IPv6 Address	Blank	Add	It configures the secondary IPv6 DNS server for the	common. cfg

						wireless 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).	
IPv6 Wireless Network		static.network.wifi.ipv6_icmp_v6.enable =	0 or 1	1	Add	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).	common.cfg
Alcatel-Lucent Barge in		blf.normal_barge_in_code =	String within 32 characters	Blank	Add	It configures the feature access code for normally barging in the active call of the monitored line. 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.	common.cfg
Alcatel-Lucent Barge in		blf.whisper_barge_in_code =	String within 32 characters	Blank	Add	It configures the feature access code for barging in the active call of the monitored line in whisper. 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.	common.cfg

					Note: It applies to the Alcatel-Lucent CTS only.	
Alcatel-Lucent Barge in		blf.listen_barge_in_code =	String within 32 characters	Blank	Add	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 cannot be transmitted to either party. Note: It applies to the Alcatel-Lucent CTS only.	common.cfg
Sending Volume		voice.handset.tia4965.enable =	0 or 1	1	Add	It enables or disables the handset'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.handset.autoreset_spk_vol" takes precedence over that configured by this parameter.	common.cfg
Sending Volume		voice.headset.tia4965.enable =	0 or 1	1	Add	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.	common.cfg

8. Default Value Setting Changes

Default Value Factory Setting Change Log

Features	Description	Default Value of Factory Setting	
		x.84.0.15/x.84.0.35	**x.84.0.80**
Wi-Fi	It configures the network connection mode to be used preferentially.	account.X.transfer_refer_to_contact_header.enable=?1	account.X.transfer_refer_to_contact_header.enable=?0

Yealink SIP IP Phones Release Notes of Version x.84.0.30

1. Introduction

- Firmware Version:

  T53: 95.84.0.20 upgrades to 95.84.0.30

  T53W: 95.84.0.20 upgrades to 95.84.0.30

  T54W: 96.84.0.20 upgrades to 96.84.0.30

- Applicable Models: T53, T53W, T54W

- Release Date: Apr 4th, 2019.

2. New Features

None

3. Optimization

None

4. Bug Fixes

1. Fixed an issue.

Yealink SIP IP Phones Release Notes of Version x.84.0.20

1. Introduction

- Firmware Version:

  T53: 95.84.0.10 upgrades to 95.84.0.20

  T53W: 95.84.0.10 upgrades to 95.84.0.20

  T54W: 96.84.0.10 upgrades to 96.84.0.20

- Applicable Models: T53, T53W, T54W

- Release Date: Mar 1st, 2019.

2. New Features

None

3. Optimization

1. Optimized the voice quality.

4. Bug Fixes

None

Yealink SIP IP Phones Release Notes of Version x.84.0.15

1. Introduction

- Firmware Version:

  T19-E2: 53.84.0.10 upgrades to 53.84.0.15

  T21-E2: 52.84.0.10 upgrades to 52.84.0.15

  T23: 44.84.0.10 upgrades to 44.84.0.15

  T27G: 69.84.0.10 upgrades to 69.84.0.15

  T40P: 54.84.0.10 upgrades to 54.84.0.15

  T40G: 76.84.0.10 upgrades to 76.84.0.15

  T41S/T42S/T46S/T48S: 66.84.0.10 upgrades to 66.84.0.15

  T52S/T54S: 70.84.0.10 upgrades to 70.84.0.15

  CP920: 78.84.0.10 upgrades to 78.84.0.15

- Applicable Models: T19-E2, T21-E2, T23, T27G, T40P, T40G, T41S, T42S, T46S, T48S, T52S, T54S, CP920
- Release Date: Nov 29th, 2018.

2. New Features

None

3. Optimization

1. Changed the autop parameter *static.lang.gui* into *lang.gui*, and *static.lang.wui* into *lang.wui*. Please use the new autop parameter for configuration if your device is upgraded to firmware V84.
2. Updated the resource files of the language packs. If your device is upgrade to firmware V84 and you want customize the language by yourself, please use the new resource files of the language packs.

4. Bug Fixes

1. Fixed an issue related to Yealink Device Management Platform.

Yealink SIP IP Phones Release Notes of Version x.84.0.10

1. Introduction

- Firmware Version:

  T19-E2: 53.83.0.35 upgrades to 53.84.0.10

  T21-E2: 52.83.0.35 upgrades to 52.84.0.10

  T23: 44.83.0.35 upgrades to 44.84.0.10

  T27G: 69.83.0.35 upgrades to 69.84.0.10

  T40P: 54.83.0.35 upgrades to 54.84.0.10

  T40G: 76.83.0.35 upgrades to 76.84.0.10

  T41S/T42S/T46S/T48S: 66.83.0.35 upgrades to 66.84.0.10

  T52S/T54S: 70.83.0.35 upgrades to 70.84.0.10

  CP920: 78.81.0.10 upgrades to 78.84.0.10

- Applicable Models: T19-E2, T21-E2, T23, T27G, T40P, T40G, T41S, T42S, T46S, T48S, T52S, T54S, CP920

- Release Date: Sept 10th, 2018.

2. New Features

1. Added the feature that you can use the BLF List key to park the active call.
2. Added the feature of Icon Customization.
3. Added the feature of Google Contacts.
4. Added the feature of Call Information Display.
5. Added the feature that you can configure the monitored users or monitored BLF list for Visual and Audio Alert feature of BLF lines.
6. Supported Yealink Wi-Fi USB Dongle WF50 on SIP-T27G/T41S/T42S/T46S/T48S IP Phones.
7. Added a new transfer mode for Dsskey.
8. Added the feature of DND for Call Center.
9. Added the feature that you can configure the phone to display the caller ID according to the From header of SIP message provided through the server when the IP phone receives an incoming call.

10. Added the feature of Return Code for Unanswered Call.
11. Added the feature of Warning Display.
12. Added the feature of Network Reachability Detection.
13. Added a newly supported cipher suites: ECDHE.
14. Added the feature that if the "static.auto_provision.custom.protect" is set to 1, you can reset the phone with the method of **Reset local settings/Reset non-static settings/Reset static settings/Reset userdata & local config** on the web user interface.
15. Added the feature that you can view VLAN ID via phone user interface by navigating to **Menu**->**Status**->**More**->**Network**.
16. Added the feature that if the IP phone is connected to a wireless network successfully, you can view the connected wireless network information via web user interface by navigating to **Status**->**Wi-Fi Status**.
17. Added the feature that you can configure the IP phone to merge and display multiple history records.
18. Added the feature that during the call, you can press the OK key to check the current time & date and other phone information (IP, MAC, Firmware) in the Status screen.
19. Added the feature that you can configure the return code to play the congestion tone.
20. Added the feature that you can configure the IP phone to add the Remote-Party-ID header in the initial INVITE message.
21. Added the feature of BLF Key LED/Icon and Behavior for Hold State.
22. Added the feature of BLF Key LED/Icon and Behavior for DND State.
23. Added the feature that you can upload the custom ring tones in A_LAW format to the IP phone.

3. Optimization

1. Optimized the feature that when you are performing a call transfer, if the caller ends the call, the phone will exit the dialing screen and return to the idle screen, also a message will be popped up to prompt that the call was hung up.
2. Optimized the feature of Call Display.
3. Optimized the feature of Remote Phone Book.
4. Optimized the feature of Broadsoft Flexible Seating.
5. Optimized the feature of DND Synchronization.
6. Optimized the feature of Call Forward Synchronization.
7. Optimized the feature that when the IP address of the outbound proxy server changed, the connection using the old IP address will not lose.
8. Optimized the feature of BLF/BLF List Key Behaviors.
9. Optimized the feature Action URL.
10. Optimized the feature of USB Port Lock.
11. Optimized the feature of EDK Prompt.
12. Optimized the feature that you can adjust the volume of intercom tone by pressing the volume key when the intercom call is answered.
13. Optimized the feature of Action URI.

14. Optimized the feature of Distinctive Ring Tones.
15. Optimized the feature of Call Log.
16. Optimized the feature of Speed Dial.

4. Bug Fixes

None

5. New Features Descriptions

1. **Added the feature that you can use the BLF List key to park the active call.**

    Description: You can park the active call to the monitored users who is in the BLF list.

    The parameters in the auto provision template are described as follows:

    account.x.blf_list_call_parked_code =

    account.x.blf_list_call_parked_list =

2. **Added the feature of Icon Customization.**

    Description: You can upload custom DSS keys icons and menu icons to the phone. Contact Yealink FAE to obtain the Icon Templates Pack. Make sure the name and format of new icons are same as the old ones. It is only applicable to T54S/T52S/T48S/T46S IP phones.

    The parameters in the auto provision template are described as follows:

    phone_setting.icon.url =

    phone_setting.icon.delete=

3. **Added the feature of Google Contacts.**

    Description: Google contact is a phone book that 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, the Google contacts appear in the phone directory.

    The parameters in the auto provision template are described as follows:

    google_contact_server.enable =

    To configure Google Contact Server via web user interface:

    Click on **Directory** -> **Google Contacts** -> **Google Contact Server**.

4. **Added the feature of Call Information Display.**

Description: You can configure the IP phone to display the call information by long pressing the BLF/BLF List key. It is not applicable to T19(P) E2 and CP920 IP phones.

The parameters in the auto provision template are described as follows:

features.blf.show_callinfo.enable =

5. **Added the feature that you can configure the monitored users or monitored BLF list for Visual and Audio Alert feature of BLF lines.**

    Description: You can configure the IP phone to play a visual alert or an audio alert when monitored users or monitored BLF list you specified receive an incoming call.

    The parameters in the auto provision template are described as follows:

    features.pickup.blf_visual.list =
    features.pickup.blf_audio.list =

6. **Added a new transfer mode for Dsskey.**

    Description: You can configure the transfer mode as Optional. When the user presses the DSS Key during a call, you can choose to transfer the call via New Call, Attended Transfer or Blind Transfer manually.

    The parameters in the auto provision template are described as follows:

    transfer.dsskey_deal_type =

7. **Added the feature of DND for Call Center.**

    Description: You can configure your phone to appear a virtual account, which stands for the ACD system that you log into. To control DND state of the ACD system, you must configure valid authentication information for the Xtended Services Platform (XSP) to authenticate the virtual account. When all agents in this ACD system are unavailable to answer incoming calls, you can activate DND for the virtual account. As a result, all incoming calls to this ACD system are rejected automatically.

    The parameters in the auto provision template are described as follows:

    bw.virtual_user.1.enable =
    bw.virtual_user.1.label =
    bw.virtual_user.1.xsi.user =
    bw.virtual_user.1.xsi.password =
    bw.virtual_user.1.xsi.host =
    bw.virtual_user.1.xsi.server_type =
    bw.virtual_user.1.xsi.port =

bw.virtual_user.1.xsi.dnd.enable =

8. **Added the feature that you can configure the phone to display the caller ID according to the From header of SIP message provided through the server when the IP phone receives an incoming call.**
   The parameters in the auto provision template are described as follows:
   phone_setting.call_display_name.mode =

9. **Added the feature of Return Code for Unanswered Call.**
   Description: 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) and 603 (Decline).
   The parameters in the auto provision template are described as follows:
   features.no_answer_code =

10. **Added the feature of Warning Display.**
    Description: When one of the following situations occurs:
    (1) The default password is being used
    (2) Account registration failed
    (3) Provisioning credentials are wrong
    (4) Network is unavailable
    On the SIP-T42S/T41S IP phones, a warning message appears on the idle screen.
    On the SIP-T54S/T52S/T48S/T46S/T40G/T40P/T27G/T23G/T23P/T21(P) E2/T19(P) E2 IP phones, a warning icon appears in the status bar.
    Note: As General Data Protection Regulation required, there should be a warning icon in the status bar warning information on the Status screen when the default password is used. You can go to Menu -> Status -> Warnings -> Clear Icon on the phone user interface to disable the phone to display warnings.
    The parameters in the auto provision template are described as follows:
    phone_setting.warnings_display.mode =

11. **Added the feature of Network Reachability Detection.**
    Description: 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/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.

The parameters in the auto provision template are described as follows:

static.features.network_test.enable =

static.features.network_test.host =

static.features.network_test.check_policy =

static.features.network_test.period =

static.features.network_unavailable_test.period =

12. Added the feature that you can configure the IP phone to merge and display multiple history records.

Description: You can enable the IP phone to merge and display multiple history records. Note that only the unestablished call log of the same contact's same call type can be merged.

The parameters in the auto provision template are described as follows:

features.call_log_merge.enable =

13. Added the feature that you can configure the return code to play the congestion tone.

Description: You can configure the return code that the phone will play congestion tone as soon as the phone receives it.

The parameters in the auto provision template are described as follows:

features. congestion_tone.codelist =

14. Added the feature that you can configure the IP phone to add the Remote-Party-ID header in the initial INVITE message.

Description: The IP phone can be configured to add the Remote-Party-ID header in the initial INVITE message.

The parameters in the auto provision template are described as follows:

account.x.invite_with_rpid_header.enable =

15. Added the feature of BLF Key LED/Icon and Behavior for Hold State.

Description: You can use the parameters to configure BLF key LED/icon and Behavior for hold state (the call on the monitored phone is placed on hold).

The parameters in the auto provision template are described as follows:

blf.enhanced.hold.enable =

blf.enhanced.hold.led =

16. Added the feature of BLF Key LED/Icon and Behavior for DND State.

Description: You can use the parameters to configure BLF key LED/icon and Behavior for DND state (DND is activated on the monitored phone).

The parameters in the auto provision template are described as follows:

blf.enhanced.dnd.enable =

blf.enhanced.dnd.led =

6. Optimization Descriptions

1. Optimized the feature of Call Display.

Description: You can configure the IP phone to display the called party information when it receives an incoming call.

The parameters in the auto provision template are described as follows:

phone_setting.called_party_info_display.enable =

To configure Display Called Party Information feature via web user interface:

Click on **Settings** -> **Call Display** -> **Display Called Party Information**.

2. Optimized the feature of Remote Phone Book.

Description: You can configure the user name and password used to access the remote phone book X.

The parameters in the auto provision template are described as follows:

remote_phonebook.data.X.username =

remote_phonebook.data.X.password =

3. Optimized the feature of Broadsoft Flexible Seating.

Description: You can configure the IP phone whether to save and use LDAP directory user credentials when using flexible seating feature.

The parameters in the auto provision template are described as follows:

bw.flexible_seating.remember_password.ldap.enable =

4. Optimized the feature of DND Synchronization.

Description: You can enable the DND feature synchronization for a specified account X.

The parameters in the auto provision template are described as follows:

account.X.feature_key_sync.enable =

account.X.dnd.feature_key_sync.enable =

5. **Optimized the feature of Call Forward Synchronization.**

Description: You can enable the forward feature synchronization for a specified account X.

The parameters in the auto provision template are described as follows:

account.X.feature_key_sync.enable =

account.x.forward.feature_key_sync.enable =

6. **Optimized the feature of BLF/BLF List Key Behaviors.**

Description: You can configure BLF/BLF List Key Behavior as intercom when pressing the BLF/BLF List keys, so that the phone will place an intercom call to the monitored number.

The parameters in the auto provision template are described as follows:

blf.enhanced.idle.enable =

blf.enhanced.idle.idle.action =

blf.enhanced.callin.enable =

blf.enhanced.callin.idle.action =

blf.enhanced.callout.enable =

blf.enhanced.callout.idle.action =

blf.enhanced.talking.enable =

blf.enhanced.talking.idle.action =

blf.enhanced.parked.enable =

blf.enhanced.parked.idle.action =

7. **Optimized the feature Action URL.**

Description: You can configure the action URL information the IP phone sends to the server when unplugged or plugged the USB device.

The parameters in the auto provision template are described as follows:

action_url.peripheral_information =

To configure this feature via web user interface:

Click on **Features** -> **Action URL** -> **Peripheral Information**.

8. **Optimized the feature of USB Port Lock.**

   Description: You can enable or disable the USB flash drive feature. If disabled, the phone cannot detect USB flash drive attached to the USB port.

   The parameters in the auto provision template are described as follows:

   static.usbdisk.function.enable =

9. **Optimized the feature of EDK Prompt.**

   Description: You can configure the title for Enhanced DSS Keys (EDK) prompt X.

   The parameters in the auto provision template are described as follows:

   edk.edkprompt.X.title =

10. **Optimized the feature of Action URI.**

    Description: Added two new variable values that you can pre-configured for the Action URI. One is "Lx_LONGPRESS", if configured, the phone will perform a corresponding action when long pressing a key; and the other is "BACK_IDLE), if configured, the phone return to the idle screen no matter which screen it is currently in.

11. **Optimized the feature of Distinctive Ring Tones.**

    Description: If the INVITE request contains "Alert-Info: Intercom", the IP phone will answer incoming calls automatically without playing the ring tone.

12. **Optimized the feature of Call Log.**

    Description: You can configure the string of the digit map to be applied to the numbers dialed from the call history list. It only takes effect on Received Calls, Missed Calls and Forwarded Calls.

    The parameters in the auto provision template are described as follows:

    features.local_calllog.received.replace_rule =

13. **Optimized the feature of Speed Dial.**

    Description: When you set a speed dial key manually, you can also enter the contact number with the DTMF sequence that you want to send in the Value field. The contact number and DTMF sequence are separated by commas. One comma stands for 500 milliseconds. For example, 1234,,123# means the phone dials out the number 1234 first,

then after the call is set up for 1 second, it sends the DTMF sequence 123# to the remote party.

The parameters in the auto provision template are described as follows:

linekey.X.type =

linekey.X.value =

7. Configuration Parameters Enhancements

Auto Provision Template Flies Change Log							
Firmware Version：[x. 83.0.35]-[x.84.0.10]							
Function	**Provisioning syntax Comparison**		**Permitted Value**	**Default Value**	**Action**	**Description**	**File**
	x. 83.0.35	**x.84.0.10**					
BLF List		account.x.blf_list_call_parked_code =	String within 32 characters	Blank	Add	It configures the feature access code of call park for account X. Example: account.1.blf_list_call_parked_code = *68 Note: It is not applicable to CP920/T48G/T46G/T42G/T41P /T29G/T19(P) E2 IP phones.	MAC.cfg
BLF List		account.x.blf_list_call_parked_list =	Blank all serial numbers of monitored users in the BLF list	Blank	Add	It configures the serial numbers of the monitored users in the BLF list where you can park the active call to 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 an active call to any monitored user. account.1.blf_list_call_parked_list = all You can park the active call to any monitored user.	MAC.cfg

DND		account.x.dnd .feature_key_s ync.enable =	0 or 1	Blank	Add	account.1.blf_list_call_parked_li st = 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 press the BLF list key, the phone parks a call other than transferring a call. It works only if "account.X.blf_list_call_ parked_code" is configured. It is not applicable to CP920/T48G/T46G/T42G/T41P /T29G/T19(P) E2 IP phones.	
DND		account.x.dnd .feature_key_s ync.enable =	0 or 1	Blank	Add	It enables or disables the DND feature synchronization for account X. Note: The value configured by this parameter takes precedence over that configured by the parameter "features.dnd.feature_key_sync .enable". It works only if "account.X.feature_key_sync.en able" is set to 1 (Enabled), and it is not applicable to T48G/T46G/T42G/T41P/T29G/ CP920 IP phones. 0-Disabled 1-Enabled, server-based DND is enabled. Server and local phone DND are synchronized.	MAC.cfg
DND		account.x.feat ure_key_sync. enable =	0 or 1	0	Add	It enables or disables to synchronize the feature status between the IP phone and the server for account	MAC.cfg

						X. Note: It is not applicable to T48G/T46G/T42G/T41P/T29G/ CP920 IP phones. The value configured by this parameter takes precedence over that configured by the parameter "features.feature_key_sync.ena ble". 0-Disabled 1-Enabled, the IP phone to send a SUBSCRIBE message with event "as-feature-event".	
Call Forward		account.x.for ward.feature_ key_sync.ena ble =	0 or 1	Blank	Add	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.en able" is set to 1 (Enabled) and it is not applicable to T48G/T46G/T42G/T41P/T29G/ CP920 IP phones.	MAC.cfg
SIP Settings		account.x.invit e_with_rpid_h eader.enable =	0 or 1	0	Add	It enables or disables the IP phone to add the Remote-Party-ID (RPID) header in the initial INVITE message. Note: It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones. 0-Disabled 1-Enabled	MAC.cfg
Broadsoft Flexible		bw.flexible_se ating.rememb	0 or 1	0	Add	It enables or disables the IP phone to encrypt and store the	common.c fg

Seating		er_password.ldap.enable =				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, all the saved user credentials are cleared. 0-Disabled 1-Enabled	
Broadsoft ACD		bw.virtual_user.1.enable =	0 or 1	0	Add	It enables or disables the virtual account for the call center. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled). It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones. 0-Disabled 1-Enabled	MAC.cfg
Broadsoft ACD		bw.virtual_user.1.label =	String within 99 characters	Blank	Add	It configures the virtual account label displayed on the phone. Note: If you leave it blank, the virtual user name uses VirtualUser1 by default. It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones.	MAC.cfg
Broadsoft ACD		bw.virtual_user.1.xsi.dnd.enable =	0 or 1	0	Add	It enables or disables the user to control the DND status for the virtual account. Note: It works only if "bw.xsi.enable" and "bw.virtual_user.1.enable" are set to 1 (Enabled). It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones.	MAC.cfg

					0-Disabled 1-Enabled	
Broadsoft ACD		bw.virtual_user.1.xsi.host =	IP address or domain name	Blank	Add	It configures the IP address of the Xtended Services Platform server for the virtual account. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled). It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones.	MAC.cfg
Broadsoft ACD		bw.virtual_user.1.xsi.password =	String within 99 characters	Blank	Add	It configures the password of virtual account for XSI access authentication. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled) and it is required only when the value of the parameter "sip.authentication_for_xsi" is set to 0 (User Login Credentials for XSI Authentication). It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones.	MAC.cfg
Broadsoft ACD		bw.virtual_user.1.xsi.port =	Integer from 1 to 65535	80	Add	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 (Enabled). It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones.	MAC.cfg
Broadsoft ACD		bw.virtual_user.1.xsi.server_type =	HTTP or HTTPS	Blank	Add	It configures the access protocol of the Xtended Services Platform server for the virtual account. Note: It works only if "bw.xsi.enable" is set to 1	MAC.cfg

					(Enabled). It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones.	
Broadsoft ACD		bw.virtual_user.1.xsi.user =	String within 99 characters	Blank	Add	Configures the user ID of the call center for XSI access authentication. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled). It is not applicable to SIPT48G/ T46G/T42G/T41P/T29G IP phones.	MAC.cfg
Call Information Display		features.blf.show_callinfo.enable =	0 or 1	1	Add	It enables or disables the IP phone to display the call information by long pressing the BLF/BLF List key. Note: It is not applicable to T48G/T46G/T42G/T41P/T29G/ T19(P) E2/CP920 IP phones. 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.	common.cfg
Call Log		features.call_log_merge.enable =	0 or 1	0	Add	It enables or disables the IP phone to merge the same history records. Note: The merged entry only displays the initiation time of the last call. It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones. 0-Disabled, each call is logged individually in the calls list. 1-Enabled, consecutive	common.cfg

						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.	
Network Reachability Detection		static.features.network_test.check_policy =	0 or 1	0	Add	It configures the logic when detecting the network reachability of multiple servers. Note: It works only if "static.features.network_test.enable" is set to 1 (Enabled). 0-OR 1-AND	common.cfg
Network Reachability Detection		static.features.network_test.enable =	0 or 1	0	Add	It enables or disables the network reachability detection. 0-Disabled 1-Enabled, if the network is unreachable, "Network unreachable" is displayed on the T42S/T41S IP phones, while a network unreachable icon is displayed in the status bar of other IP phones.	common.cfg
Network Reachability Detection		static.features.network_test.host =	Blank-The phone does not detect network reachability. String within 1024 characters	Blank	Add	It configures the server address that the phone uses to detect the network reachability. The server address can be the IP address or domain name. Multiple server addresses are separated by semicolons. Example: static.features.network_test.host = 192.168.1.20;192.168.1.10 Note: It works only if "static.features.network_test.enable" is set to 1 (Enabled).	common.cfg
Network		static.features	Integer from	60	Add	It specifies the time interval (in	common.c

Reachability Detection		.network_test. period =	2 to 3600			seconds) for network reachability detection when the network is reachable. Note: It works only if "static.features.network_test.e nable" is set to 1 (Enabled).	fg
Network Reachability Detection		static.features .network_una vailable_test.p eriod =	Integer from 2 to 3600	30	Add	It specifies the time interval (in seconds) for network reachability detection when the network is unreachable. Note: It works only if "static.features.network_test.e nable" is set to 1 (Enabled).	common.c fg
Return Code		features.no_a nswer_code =	404 480 486 603	486	Add	It configures a return code and reason of SIP response messages when the IP phone does not answer an incoming call. A specific reason is displayed on the caller's phone screen. Note: It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones. 404-Not Found 480-Temporarily Unavailable (Temporarily not available) 486-Busy Here 603-Decline	common.c fg
Visual and Audio Alert BLF Lines		features.picku p.blf_audio.lis t =	any Monitored phone number ListX	any	Add	It configures the monitored users who want to enable audio alert for BLF pickup feature. The IP phone plays an audio alert when a monitored user receives an incoming call. Multiple monitored users are separated by commas. Example: features.pickup.blf_audio.list = any or leave it blank	common.c fg

| Visual and Audio Alert BLF Lines | | features.picku p.blf_visual.lis t = | any Monitored phone number ListX | any | Add | The IP phone plays an audio alert when any monitored user receives an incoming call. 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_ena ble" is set to 1 (Enabled). It is not applicable to CP920/T48G/T46G/T42G/T41P /T29G/T19(P) E2 IP phones. | |
| It configures the monitored users who want to enable visual alert for BLF pickup feature. The IP phone displays a visual alert when a monitored user receives an incoming call. Multiple monitored users are separated by commas. Example: features.pickup.blf_visual.list = any or leave it blank The IP phone displays a visual alert when any monitored user receives an incoming call. features.pickup.blf_visual.list = 4604,4605 | common.c fg |

						The IP phone displays a visual alert when monitored user 4604 or 4605 receives an incoming call. features.pickup.blf_visual.list = List1 The IP 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_ena ble" is set to 1 (Enabled). It is not applicable to CP920/T48G/T46G/T42G/T41P /T29G/T19(P) E2 IP phones.	
Google Contacts		google_conta ct_server.ena ble =	0 or 1	0	Add	It enables or disables the IP phone to connect to the Google Contact Server. Note: It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones. 0-Disabled 1-Enabled	common.c fg
Call Display		phone_settin g.call_display_ name.mode =	0 or 1	0	Add	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 history records display. It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones. 0-Names matched to the entries in the following phone directories are displayed	common.c fg

					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.	
USB Port Lock		phone_settin g.warnings_di splay.mode =	0 or 1	1	Add	It enables or disables the USB flash drive feature. Note: It works only if "static.usb.power.enable" is set to 1 (Enabled) and only applicable to T46S/T48S/T52S/T54S/CP920 IP phones. 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 IP phone. 1-Enabled	common.c fg
Action URL		action_url.peri pheral_inform ation =	URL within 511 characters The value format is: http(s)://IP address of server/help.x ml?variable name=variab le value. For	Blank	Add	It configures the action URL information the IP phone sends to the server when unplugged or plugged the USB device. Example: action_url.peripheral_informati on = http://192.168.0.20/help.xml?I P=$ip&WIFI=$wifi_number	common.c fg

			Pre-defined events, refer to Pre-defined Events List. For variable value, refer to Variable Values List.				
BLF Key LED/Icon and Behavior for DND State		blf.enhanced. dnd.enable =	0 or 1	0	Add	It enables or disables the custom configuration when DND is activated on the monitored phone. Note: It is not applicable to T48G/T46G/T42G/T41P/T29G/ T19(P) E2/CP920 IP phones. 0-Disabled 1-Enabled, the IP phone will display the custom BLF/BLF List DSS key LED status/icon colors.	common.c fg
BLF Key LED/Icon and Behavior for DND State		blf.enhanced. dnd.led =	String	Blank	Add	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: blf.enhanced.dnd.led = $LEDg1000o$ For T54S/T52S/T46S/T42S/T41S/T 40P/T40G/T27G/T23P/T23G/T 21(P) E2 IP phones, the BLF/BLF List DSS key LED glows green for 1000ms and then goes out. For T48S IP phones, the BLF/BLF List DSS key field displays a green icon for	common.c fg

						1000ms and then turns to white. Note: It works only if "blf.enhanced.dnd.enable" is set to 1 (Enabled). It is not applicable to T48G/T46G/T42G/T41P/T19(P) E2/CP920 IP phones.	
BLF Key LED/Icon and Behavior for Hold State		blf.enhanced. hold.enable =	0 or 1	0	Add	It enables or disables the custom configuration when the call on the monitored phone is placed on hold. Note: It is not applicable to T48G/T46G/T42G/T41P/T29G/ T19(P) E2/CP920 IP phones. 0-Disabled 1-Enabled, the IP phone will display the custom BLF/BLF List DSS key LED status/icon colors.	common.c fg
BLF Key LED/Icon and Behavior for Hold State		blf.enhanced. hold.led =	String	Blank	Add	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 T54S/T52S/T46S/T42S/T41S/T 40P/T40G/T27G/T23P/T23G/T 21(P) E2 IP phones, the BLF/BLF List DSS key LED glows green for 1000ms and then goes out. For T48S IP phones, the BLF/BLF List DSS key field displays a green icon for	common.c fg

						1000ms and then turns to white. Note: It works only if "blf.enhanced.hold.enable" is set to 1 (Enabled). It is not applicable to T48G/T46G/T42G/T41P/T19(P)E2/CP920 IP phones.	
Bluetooth		bluetooth.a2dp_sink =	0, 1 or 2	1	Add	It enables or disables the IP phone to act as the connected Bluetooth-Enabled mobile phone player. Note: It is only applicable to CP920 IP phones. 0-Disabled, the Media audio item is hidden for the connected Bluetooth-Enabled mobile phone. 1-Enabled, you need to enable the Media audio feature manually after the Bluetooth-enabled mobile phone is paired and connected. Enable the Media audio feature via phone user interface at the path: Menu->Settings->Basic Settings->Bluetooth->Paired Bluetooth Device->Option->Detail->Channel Control->Media Audio. 2-Enabled, the IP phone automatically acts as the Bluetooth-Enabled mobile phone player after you pair and connect the Bluetooth-Enabled mobile phone to the IP phone successfully.	common.cfg
Bluetooth		bluetooth.connect_confirm.	0 or 1	0	Add	It enables or disables the phone to prompt users to	common.cfg

		enable =				confirm the reconnection request from the Bluetooth device. Note: It is only applicable to CP920 IP phones. 0-Disabled 1-Enabled, the prompt window will not appear during the call.	
EDK Prompt		edk.edkprompt.X.title =	String	EDK Prompt	Add	It configures the text string used as a title for the EDK prompt X. The title appears at the top of the user inputs prompt screen. If it is left blank, EDK Prompt is displayed. Example: edk.edkprompt.1.title = MyTitle Note: It works only if "features.enhanced_dss_keys.enable" and "edk.edkprompt.X.enable" are set to 1 (Enabled). It is not applicable to T48S/T48G IP phones.	common.cfg
CFG File Version Information		static.auto_provision.config_version.mac =	String	Blank	Add	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). Note: It is not applicable to T48G/T46G/T42G/T41P/T29G	common.cfg

						IP phones.	
CFG File Version Informatio n		static.auto_pr ovision.config _version.com =	String	Blank	Add	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->CO M Version (web user interface). Note: It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones.	common.c fg
Call Log		features.local_ calllog.receive d.replace_rule =	String	Blank	Add	It configures the string of the digit map to be applied to the numbers dialed from the call history list. Example: features.local_calllog.received.r eplace_rule = <00:+>x.|<5:1>xx 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.	common.c fg

Remote Phone Book		remote_phonebook.data.X. username =	String	Blank	Add	It configures the user name used to access the remote phone book X.	common.cfg
Remote Phone Book		features.headset.ctrl_call.enable =	String	Blank	Add	It configures the password used to access the remote phone book X.	common.cfg