

Yealink SIP IP Phones Release Notes of Version 82

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Yealink SIP IP Phones Release Notes of Version

x.82.0.20

1. Introduction

- Firmware Version:
 - T19-E2: 53.81.0.110/53.81.193.110 upgrades to 53.82.0.20
 - T21-E2: 52.81.0.110/52.81.193.110 upgrades to 52.82.0.20
 - T23: 44.81.0.110/44.81.193.110 upgrades to 44.82.0.20
 - T27P: 45.81.0.110/45.81.193.110 upgrades to 45.82.0.20
 - T27G: 69.81.0.110/69.81.193.110 upgrades to 69.82.0.20
 - T29: 46.81.0.110/46.81.193.110 upgrades to 46.82.0.20
 - T40: 54.81.0.110/54.81.193.110 upgrades to 54.82.0.20
 - T40G: 76.81.0.110/76.81.193.110 upgrades to 76.82.0.20
 - T41: 36.81.0.110/36.81.193.110 upgrades to 36.82.0.20
 - T42: 29.81.0.110/29.81.193.110 upgrades to 29.82.0.20
 - T46: 28.81.0.110/28.81.193.110 upgrades to 28.82.0.20
 - T48: 35.81.0.110/35.81.193.110 upgrades to 35.82.0.20
 - T41S/T42S/T46S/T48S: 66.81.0.110/66.81.193.110 upgrades to 66.82.0.20
 - T52S/T54S: 70.81.0.10/70.81.193.10 upgrades to 70.82.0.20
- Applicable Models: T19-E2, T21-E2, T23, T27, T29, T40, T41, T42, T46, T48, T52, T54
- Release Date: Sept 13th, 2017.

2. New Features

1. Add some features related to Key Telephone System (KTS).
2. Added the feature of displaying XML items (e.g., notifications or company logo) on the screen saver.
3. Added two new audio codes, iLBC_15_2kbps and iLBC_13_33kbps.
4. Added the feature that you can connect your Bluetooth-Enabled mobile phone to the IP phone, and then synchronize the mobile contacts to SIP-T40G, SIP-T41S

and SIP-T42S IP Phones.

5. Added the feature that it is allowed to upload MAC certificates via web user interface.
6. Added the feature of 3GPP Technical Specification.
7. Unified the two firmware of GA edition and UC edition into one firmware that you can import CPE KIT to the configuration to realize UC features.
8. Supported phone user interface in French (Canada), Portuguese (Latin) and Spanish (Latin) on SIP-T19P_E2/T21P_E2/T23/ T40/T40G/T27P/T27G/T46S/T48S/T42S/T41S/T52S/T54S IP phone.
9. Supported phone user interface in Chinese on the SIP-T42G/T41P/T40P/T23P/T23G/T21P_E2/T19P_E2 IP phones.
10. Added the feature of Handling a Mobile Phone Call on the SIP-T52S/T54S IP phone.
11. Added the BroadSoft integrated feature of E911 (Enhanced 911).

3. Optimization

1. Optimized the feature of Dial Plan using Digit Map String Rules.
2. Optimized the feature of DND.
3. Optimized the feature of Call Forward.
4. Optimized the feature of Call Hold.
5. Optimized the feature of Conference.
6. Optimized the feature of Call Transfer.
7. Optimized the feature of Caller ID Matching.
8. Optimized the call information display methods.
9. Optimized the feature of Call Park.
10. Optimized the feature of Early Media.
11. Optimized the feature of Server Redundancy.
12. Optimized the feature of Anonymous Call.
13. Optimized the feature of Power Saving.
14. Optimized the feature of Lightweight Directory Access Protocol (LDAP).
15. Added LibCWMP of AVsystem and Annex K for TR-069.
16. Optimized the feature of Wi-Fi that you can select WPA-EAP or WPA2-EAP for its Secure Mode.
17. Optimized the feature that when authentication for auto provisioning failed, a pop-up will be displayed to enable you to enter the authentication information for re-authentication.
18. Optimized the feature of Provisioning Updating.
19. Optimized the feature of Incoming Call.
20. Optimized the feature of BroadCloud Features.

4. Bug Fixes

1. Fixed some issues related to IPv6.

5. New Features Descriptions

1. Add some features related to Key Telephone System (KTS).

Description: In enterprise IT, a key telephone system (KTS) is a telecommunications system that converts a single public switched telephone network (PSTN) line into an array of internal business lines. This basic phone system allows users to use various internal lines from a single telephone desktop set. Here, we added some features related to Key Telephone System (KTS) in the way of PBX mode.

I. You can customize the line key labels one by one or configure the Auto Label rule for these line keys.

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

account.x.auto_label.enable =

account.X.auto_label.rule =

II. You can enable or disable the DSS keys to be assigned with Line type automatically.

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

features.auto_linekeys.enable =

account.X.number_of_linekey =

III. Ignore Incoming Call

Ignore Incoming Call feature is used to ignore the incoming call when there is a call in process. And if the IP phone receives an incoming call in idle state, the user is can only press the Answer soft key or corresponding line key to answer the call.

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

features.ignore_incoming_call.enable =

IV. Using BLF DSS Key to Initiate an Intercom Call

The BLF DSS key can also be used to initiate an intercom call.

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

features.blf.intercom_mode.enable =

features.intercom.mode =

features.intercom.feature_access_code =

2. Added the feature of displaying XML items (e.g., notifications or company logo) on the screen saver.

Description: You can customize the screen saver XML template file to configure the IP phone whether to display following XML items on the screen saver:

- Time and date
- Status icons
- Notifications
- Company logo (only applicable to SIP-T54S/T52S/T48G/T48S/T46G/T46S/T29G IP phones)

The display position of the XML items is configurable. For SIP-T54S/T52S/T48G/T48S/T46G/T46S/T29G IP phones, you can also customize the color of the time and date and notification texts.

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

screensaver.xml_browser.url =

To configure the access URL of the screen saver xml file via web user interface:

Click on **Settings** -> **Preference**.

The screenshot shows the Yealink T46G web interface. The 'Settings' tab is selected, and the 'Preference' sub-tab is active. The 'Screensaver Type' dropdown menu is set to 'Server XML', and the 'XML Browser URL' text field contains 'http://192.168.1.1/CustomScreenSav'. Both of these elements are enclosed in red rectangular boxes. Other settings visible include 'Live Dialpad' (Disabled), 'Inter Digit Time' (4), 'Unused Backlight' (Low), 'Active Backlight Level' (8), 'Backlight Time' (Always On), 'Watch Dog' (Disabled), 'Ring Type' (Ring1.wav), 'Upload Ringtone' (Browse...), 'Wallpaper' (Default), 'Upload Wallpaper' (Browse...), 'Screensaver Wait Time' (15s), 'Screensaver Display Clock' (Enabled), 'Upload Screensaver' (Browse...), and 'XML Browser URL' (http://192.168.1.1/CustomScreenSav). A 'NOTE' section on the right provides information about Live Dialpad, Backlight, Contrast, and Ring Tones.

3. Added two new audio codes, iLBC_15_2kbps and iLBC_13_33kbps.

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

account.X.codec.ilbc_15_2kbps.enable =

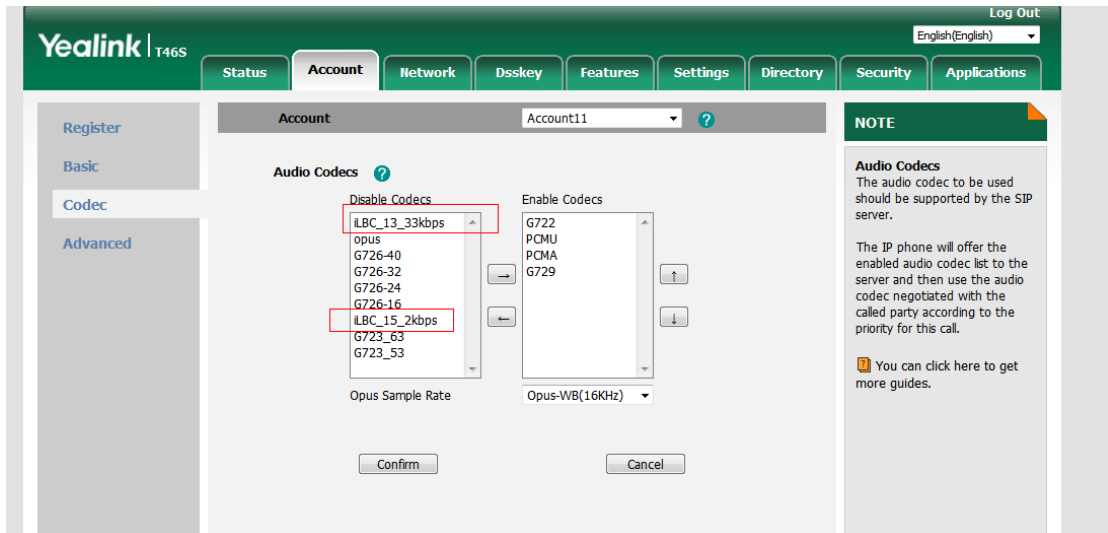
account.X.codec.ilbc_15_2kbps.priority =

`account.X.codec.ilbc_13_33kbps.enable =`

`account.X.codec.ilbc_13_33kbps.priority =`

To configure the codecs to use and adjust the priority of the enabled codecs via web user interface:

Click on **Account** -> **Codec**.



4. Added the feature that you can connect your Bluetooth-Enabled mobile phone to the IP phone, and then synchronize the mobile contacts to SIP-T40G, SIP-T41S and SIP-T42S IP Phones.

Description: When the first time your IP phone pairs and connects to your Bluetooth-enabled mobile phone, you will be asked if you would like to sync phone contacts temporarily. If it is allowed, the phone contacts will be imported to the mobile contacts directory on your IP phone. Now, Yealink SIP-T40G, SIP-T41S and SIP-T42S IP Phones are compatible with the following phone models: iPhone 5SE and above, Samsung S7, Google Pixel, Sony Xperia, Huawei P3, MIUI 4C and below, and Blackberry. For the maximum number of mobile contacts, besides Sony Speria and Google Pixel only support 500 mobile contacts, the other supported models support 1000 mobile contacts.

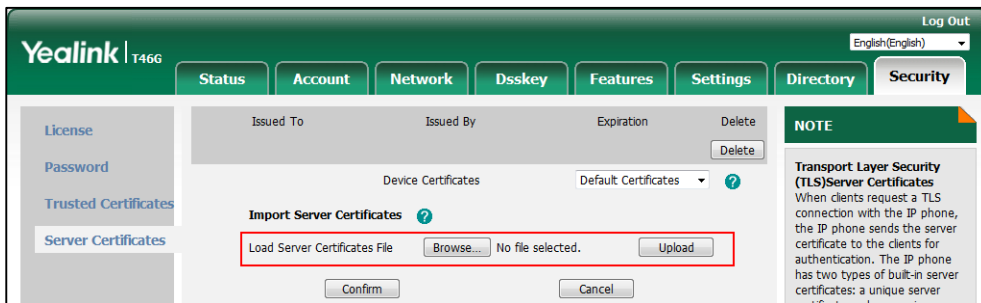
5. Added the feature that it is allowed to upload MAC certificates via web user interface.

Description: When clients request a TLS connection with the IP phone, the IP 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 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.

To upload a server certificate via web user interface:

Click on **Security** -> **Server Certificates**.



6. Added the feature of 3GPP Technical Specification.

Description: For phones deployed in an IP Multimedia Subsystem (IMS) environment, Yealink supports a subset of the 3rd Generation Partnership Project technical specifications (3GPP TS).

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

account.X.path.enable =

account.X.insert_outbound_in_route.enable =

account.X.third_part_request_with_route.enable =

7. Added the feature of Handling a Mobile Phone Call on the SIP-T52S/T54S IP phone.

Description: You can handle a mobile phone call on your SIP-T52S/T54S IP phone, the IP phone acts as a hands free device for your mobile phone. The call information appears on both your IP phone and mobile phone screen. You can control the call's audio to go through the mobile phone or IP phone on your mobile phone.

8. Added the BroadSoft integrated feature of E911 (Enhanced 911).

Description: 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.

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

dialplan.emergency.asserted_id_source =
dialplan.emergency.held.server_url =
dialplan.emergency.held.request_type =
dialplan.emergency.held.request_element.x.name =
dialplan.emergency.held.request_element.x.value =

6. Optimization Descriptions

1. Optimized the feature of Dial Plan using Digit Map String Rules.

Description: Added one basic regular expression syntax - A when creating new dial plan: The letter "A" indicates the account that is applied to the digit map. You can use A alone or a combination of A and account ID (e.g., <A1>).

Example:

"123A", the default account will be applied to the digit map.

"123<A2>", the second account will be applied to the digit map.

Note: It is not applicable to the digit map on a per-line basis.

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

dialplan.digitmap.string =

2. Optimized the feature of DND.

Description: Added DND Feature Synchronization for DND. DND Feature Synchronization feature provides the capability to synchronize the status of the DND features between the IP phone and the server. Sometimes the server may not reject all incoming calls when the DND Feature Synchronization feature is enabled and the DND feature is on. In this scenario, you can configure the IP phones to reject all incoming calls.

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

features.dnd.feature_key_sync.local_processing.enable =
account.x.features.dnd.feature_key_sync.local_processing.enable =

3. Optimized the feature of Call Forward.

Description: Added Call Forward Feature Synchronization for Call Forward. Call

Forward Feature Synchronization feature provides the capability to synchronize the status of the Call Forward features between the IP phone and the server. Sometimes the server may not forward all incoming calls when the Call Forward Feature Synchronization feature is enabled and the Call Forward feature is on. In this scenario, you can configure the IP phones to forward all incoming calls.

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

features.dnd.feature_key_sync.enable =

features.forward.feature_key_sync.enable =

features.forward.feature_key_sync.local_processing.enable =

account.x.features.forward.feature_key_sync.local_processing.enable =

4. Optimized the feature of Call Hold.

Description: Call Hold Tone/Call Held Tone feature allows IP phone to play a call hold/call held tone at specified intervals when there is a call on hold/held. The call hold/call held tone is played through the speakerphone.

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

features.play_hold_tone.interval =

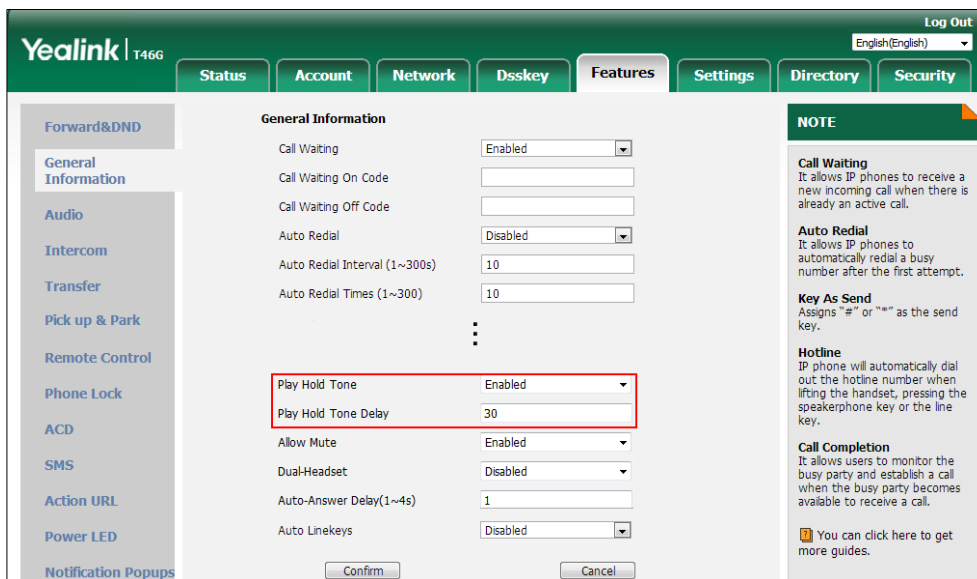
features.play_held_tone.enable =

features.play_held_tone.delay =

features.play_held_tone.interval =

To configure call hold tone and call hold tone delay via web user interface:

Click on **Features -> General Information**.



5. Optimized the feature of Conference.

Description:

- (1) You can enable or disable the IP phone to merge two calls into a conference directly by pressing the Conf/Conference soft key, CONF key or conference DSS key when there are two calls on the phone.

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

features.conference.with_previous_call.enable =

- (2) You can enable or disable the IP phone to set up a three-way conference directly after the second party answers the call.

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

features.local_conf.combine_with_one_press.enable =

6. Optimized the feature of Call Transfer.

Description:

- (1) In the Transfer to screen, you can press **B Transfer** to perform a blind transfer directly, or press **Send** to perform a semi-attended or attended transfer.
- (2) In the Transfer to screen, you can select a contact from the placed call list or select a desired contact from the Directory list(s) by pressing **Directory (Dir)** to perform blind transfer.
- (3) In the Held screen, you can press **Transfer** to enter Transfer to screen, then press **B Transfer** to perform a blind transfer directly, or press **Send** to perform a semi-attended or attended transfer.
- (4) You can configure the transfer type the IP phone will perform when the entered transferee numbers match the Dial Now rule of dial plan.

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

dialplan.transfer.mode =

7. Optimized the feature of Caller ID Matching.

Description: The IP phone will automatically filter its country code, area code, and some special characters, including – () + so that the caller ID will be matched to the contacts in your directory first.

8. Optimized the call information display methods.

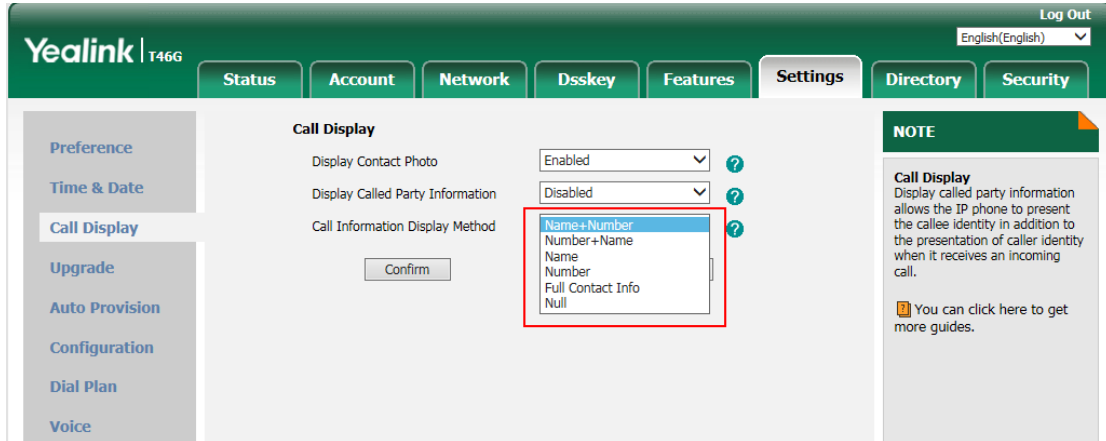
Description: IP phones support six call information display methods: Number+Name, Name, Name+Number, Number, Full Contact Info (display name<sip:xxx@domain.com>) or Null.

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

phone_setting.call_info_display_method =

To configure call display features via web user interface:

Click on **Settings** -> **Call Display**.



9. Optimized the feature of Call Park.

Description: You can enable or disable the IP phone to park/retrieve a call using the line specified by the parameter “linekey.X.line/expansion_module.X.key.Y.line”. It is only applicable to the scenario that the user uses the call park/retrieve park DSS key to park/retrieve a call.

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

features.call_park.line_restriction.enable =

10. Optimized the feature of Early Media.

Description: You can configure the time to wait for the IP phone to play the local ringback tone when the early media cannot be played.

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

phone_setting.early_media.rtp_sniffer.timeout =

11. Optimized the feature of Server Redundancy.

Description:

(1) You can configure the retry times for the IP phone to resend requests when the outbound proxy server Y is unavailable or there is no response from the outbound proxy server Y for a specific account.

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

account.X.outbound_proxy.Y.retry_counts =

(2) You can configure the failback mode for the IP phone to retry the primary

outbound proxy server in failover for a specific account.

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

account.X.outbound_proxy.Y.failback_mode =

- (3) You can configure 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 for a specific account.

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

account.X.outbound_proxy.Y.failback_timeout =

- (4) You can enable or disable the IP phone to register to the secondary outbound proxy server before sending requests to it for a specific account when encountering a failover.

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

account.X.outbound_proxy.Y.register_on_enable =

- (5) You can enable or disable the IP phone to retry to re-subscribe after registering to the secondary outbound proxy server with different IP address for a specific account when encountering a failover.

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

account.X.outbound_proxy.Y.failback_subscribe.enable =

- (6) You can enable or disable the IP phone to only send requests to the registered outbound proxy server for a specific account when encountering a failover.

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

account.X.outbound_proxy.Y.only_signal_with_registered =

12. Optimized the feature of Anonymous Call.

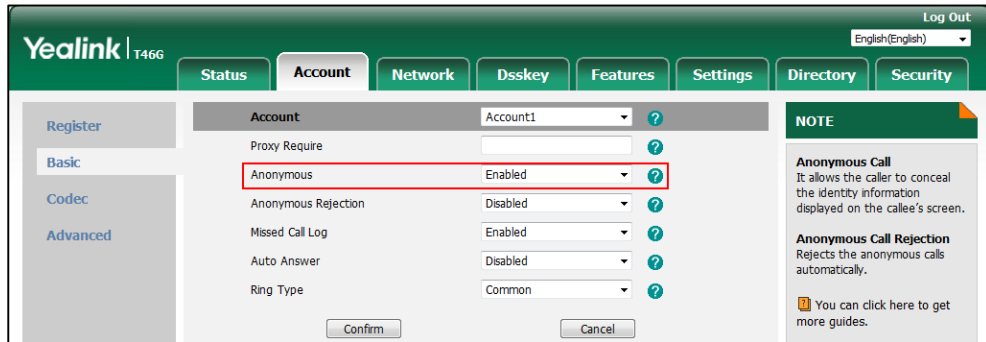
Description: You can enable or disable the IP phone to perform the anonymous call feature on server-side only.

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

account.x.anonymous_call.server_base_only =

To configure anonymous call via web user interface (only for new Anonymous Call mechanism):

Click on **Account** -> **Basic**.



13. Optimized the feature of Power Saving.

Description: For SIP-T54S/T52S/T48S/T48G/T46S/T46G/T29G IP phones, you can also configure the flashing period for the power indicator LED when the IP phone enters power-saving mode.

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

features.power_saving.power_led_flash.on_time =

features.power_saving.power_led_flash.off_time =

14. Optimized the feature of Lightweight Directory Access Protocol (LDAP).

Description:

(1) You can configure the display mode of the attribute name for the LDAP contact number.

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

ldap.numb_display_mode =

(2) Added LDAP Authentication Mechanism, including username and password.

(3) You can configure the display name of the LDAP phone book.

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

ldap.customize_label =

(4) If one LDAP contact have multiple contact numbers, all of these numbers will saved in one LDAP entry.

15. Optimized the feature of Provisioning Updating.

Description: You can enable or disable the IP phone to prompt you for the configuration update and the result (if any configuration changes) during auto provisioning.

16. Optimized the feature of Incoming Call.

Description: You can enable or disable the IP phone to interrupt the user operation when there is an incoming call. This feature allows the IP phone not to prompt the incoming call information when the user is dialing or selecting a contact from directory/call log lists to transfer a call/to set up a conference/to place a new call.

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

phone_setting.incoming_call_when_dialing.priority =

17. Optimized the feature of BroadCloud Features.

Description:

(1) You can add, modify, delete information of buddies on the BroadTouch Business Communicator (BTBC) client, and the buddy list on your IP phone will synchronize with BTBC client.

(2) The IP phone can display presence icon in new style.

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

bw.xmpp.presence_icon.mode =

(3) You can synchronize the presence status to BroadWorks server when you change your presence status manually on the IP phone.

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

bw.xmpp.change_presence.force_manual.enable =

7. Configuration Parameters Enhancements

Auto Provision Template Flies Change Log							
Firmware Version: [x. 81.0.110]-[x.82.0.20]							
Function	Provisioning syntax Comparison		Permitted Value	Default Value	Action	Description	File
	x. 81.0.110	x.82.0.20					
Audio Codec		account.X.codec.<payload_type>.enable = (where <payload_type> should be replaced	0 or 1	When audio codec is iLBC_15_2k bps, the default value is 0; When audio codec is	Add	It enables or disables the specified audio codec for a specific account. 0-Disabled 1-Enabled The name of audio codec: g722-G722	mac.cfg

		by the name of audio codec)		iLBC_13_33 kpbs, the default value is 0;		<p>pcmu-PCMU pcma-PCMA g729-G729 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</p> <p>ilbc_15_2kpbs-iLBC_15_2kpbs ilbc_13_33kpbs-iLBC_13_33kpbs)</p> <p>Example: account.1.codec.g722.enable = 1</p> <p>Note: The name of audio codec in this parameter should be the correct one as listed in the above example, otherwise the corresponding configuration will not take effect.</p>	
Audio Codec		account.X.codec.<payload_type>.priority = (where <payload_type> should be replaced by the name of audio codec)	Integer from 0 to 17	When audio codec is iLBC_15_2kpbs, the default value is 0; When audio codec is iLBC_13_33kpbs, the default value is 0;	Add	<p>It configures the priority of the enabled audio codec for a specific account.</p> <p>The name of audio codec: g722-G722 pcmu-PCMU pcma-PCMA g729-G729 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</p> <p>ilbc_15_2kpbs-iLBC_15_2kpbs</p>	mac.cfg

						<p>ps ilbc_13_33kpbs-iLBC_13_33 kpbs)</p> <p>Example: account.1.codec.g722.priori ty = 1</p> <p>Note: The priority of codec in disable codec list is not specified, and numerical value 1 is defined as the highest priority in the enable codec list. The name of audio codec in this parameter should be the correct one as listed in the above example, otherwise the corresponding configuration will not take effect.</p>	
Local Conferenc e		features.conf erence.with_ previous_call .enable =	0 or 1	0	Add	<p>It enables or disables the local conference for the IP phone.</p> <p>0-Disabled, the Conf/Conference soft key will disappear during a call and the CONF key/conference DSS key will not work. Local conference cannot be set up even though the value of the parameter “account.X.conf_type” is set to 0 (Local Conference).</p> <p>1-Enabled, you can set up a local conference with other two parties. It works only when the value of the parameter “account.X.conf_type” is set to 0 (Local Conference).</p> <p>Note: The CONF key is only applicable to</p>	common. cfg

						SIP-T29G/T27P/T27G IP phones.	
Local Conference		features.local_conf.combine_with_on_press.enable =	0 or 1	0	Add	<p>It enables or disables the IP phone to set up a three-way conference directly after the second party answers the call.</p> <p>0-Disabled, the first call is placed on hold. The user needs to press the Conf/Conference soft key, CONF key or conference DSS key again to set up a conference after the second party answers the call.</p> <p>1-Enabled. The second party joins a conference with the first party after answering the call, both phones play a warning tone.</p> <p>Note: The CONF key is only applicable to SIP-T29G/T27P/T27G IP phones.</p>	common.cfg
LDAP		ldap.number_display_mode =	0 or 1	0	Add	<p>It configures the display mode of the attribute name for the LDAP contact number.</p> <p>0-NumberN (N is an increasing number), for example: Number1, Number2, Number3...</p> <p>1-Attribute name pushed by server</p> <p>Note: It works only if the value of the parameter "ldap.enable" is set to 1 (Enabled).</p>	common.cfg
Screen saver		screensaver.xml_browser.url =	URL within 511 characters	Blank	Add	<p>It configures the access URL of the screen saver xml file.</p> <p>Example: screensaver.xml_browser.url</p>	common.cfg

						<p>= http://192.168.10.25/ScreenSaver.xml</p> <p>During the auto provisioning process, the IP phone connects to the HTTP provisioning server "192.168.10.25", and downloads the screen saver xml file "ScreenSaver.xml".</p>	
Screen saver	screensaver.mode =	screensaver.type =	0, 1 or 2	0	Change	<p>It configures the type of screen saver to display.</p> <p>0-System, the LCD screen will display the built-in picture.</p> <p>1-Custom, the LCD screen will display the custom screen saver images (configured by the parameter "screensaver.upload_url"). If multiple images are uploaded, the IP phone will display all images alternately. The time interval is configured by the parameter "screensaver.picture_change_interval".</p> <p>2-Server XML, the LCD screen will display XML items (configured by the parameter "screensaver.xml_browser_url") when screen saver starts.</p>	common.cfg
Broadsoft UC		bw.xmpp.change_presence.force_manual.enable =	0 or 1	1	Add	<p>It enables or disables to synchronize the presence status to BroadWorks server when you change your presence status manually on the IP phone.</p>	mac.cfg

						0-Disabled 1-Enabled	
Broadsoft UC		bw.xmpp.presence_icon.mode =	0 or 1	0	Add	It enables or disables to display presence icon in new style. 0-Disabled 1-Enabled	mac.cfg
3GPP		account.X.path.enable =	0 or 1	0	Add	It enables or disables the IP phone to carry the Supported:path header in the REGISTER request message. 0-Disabled 1-Enabled	mac.cfg
3GPP		account.X.insert_outbound_in_route.enable =	0 or 1	0	Add	It enables or disables the IP phone to add outbound server address as the topmost Route header in the request message. 0-Disabled 1-Enabled Note: It works only if the received 200 OK response for the REGISTER request contains the Service route header.	mac.cfg
3GPP		account.X.third_party_request_with_route.enable =	0 or 1	0	Add	It enables or disables the IP phone to carry the Route header in the request message which is send to the third-party server (for example, a Music On Hold server). 0-Disabled 1-Enabled Note: It works only if the received 200 OK response for the REGISTER request contains the Service route header.	mac.cfg

Server Redundancy		account.X.outbound_proxy.Y.retry_counts =	Integer from 0 to 20	-1	Add	<p>It configures the retry times for the IP phone to resend requests when the outbound proxy server Y is unavailable or there is no response from the outbound proxy server Y for a specific account.</p> <p>If it is set to -1, the IP phone will invoke the value of the parameter "account.X.sip_server.Y.retry_counts" to take effect.</p> <p>Example: account.1.outbound_proxy.1.retry_counts = 3</p> <p>The IP phone moves to the next available outbound proxy server after three failed attempts.</p>	mac.cfg
Server Redundancy		account.X.outbound_proxy.Y.invite_retry_counts =	Integer from 1 to 10	-1	Add	<p>It configures the number of retries attempted before sending requests to the next available outbound proxy server for a specific account when encountering a failover.</p> <p>If it is set to -1, the IP phone will invoke the value of the parameter "account.X.sip_server.Y.invite_retry_counts" to take effect.</p>	mac.cfg
Server Redundancy		account.X.outbound_proxy.Y.failback_mode =	0, 1, 2 or 3	-1	Add	<p>It configures the failback mode for the IP phone to retry the primary outbound proxy server in failover for a specific account.</p> <p>If it is set to -1, the IP phone will invoke the value of the parameter "account.X.sip_server.Y.failb</p>	mac.cfg

						<p>ack_mode” to take effect.</p> <p>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 IP phone will try to send requests to the secondary outbound proxy server.</p> <p>1-DNSTTL: the IP 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.</p> <p>2-Registration: the IP 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.</p> <p>3-duration: the IP 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.</p> <p>Note: DNSTTL, Registration and duration mode can only be processed when the IP</p>	
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						phone is idle (that is, no incoming/outbound calls, no active calls or meetings, etc.).	
Server Redundancy		account.X.outbound_proxy.Y.failback_timeout =	Integer from 0 to 2147483647	-1	Add	<p>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 for a specific account.</p> <p>If it is set to -1, the IP phone will invoke the value of the parameter "account.X.sip_server.Y.failback_timeout" to take effect.</p> <p>If you set the parameter to 0, the IP phone will not send requests to the primary outbound proxy server until a failover event occurs with the current working server.</p> <p>If you set the parameter from 1 to 59, the timeout will be 60 seconds.</p> <p>Note: It works only if the value of the parameter "account.X.outbound_proxy.Y.failback_mode" is set to 3 (duration).</p>	mac.cfg
Server Redundancy		account.X.outbound_proxy.Y.register_on_enable =	0 or 1	-1	Add	<p>It enables or disables the IP phone to register to the secondary outbound proxy server before sending requests to it for a specific account when encountering a failover.</p> <p>0-Disabled, the IP phone won't attempt to register to the secondary outbound proxy server, since the phone assumes that the</p>	mac.cfg

						<p>primary and secondary outbound proxy servers share registration information. So the IP phone will directly send the requests to the secondary outbound proxy server.</p> <p>1-Enabled, the IP phone will register to the secondary outbound proxy server first, and then send the requests to it.</p> <p>If it is set to -1, the IP phone will invoke the value of the parameter “account.X.sip_server.Y.register_on_enable” to take effect.</p>	
Server Redundancy		account.X.outbound_proxy.Y.failback_subscribe.enable =	0 or 1	-1	Add	<p>It enables or disables the IP phone to retry to re-subscribe after registering to the secondary outbound proxy server with different IP address for a specific account when encountering a failover.</p> <p>0-Disabled</p> <p>1-Enabled, the IP phone will immediately re-subscribe to the secondary outbound proxy server, for ensuring the normal use of the features associated with subscription (for example, BLF, SCA).</p> <p>If it is set to -1, the IP phone will invoke the value of the parameter “account.X.sip_server.Y.failback_subscribe.enable” to take effect.</p> <p>Note: It works only if the</p>	mac.cfg

						value of the parameter “account.X.outbound_proxy.Y.failback_mode” is set to 1, 2 or 3.	
Server Redundancy		account.X.outbound_proxy.Y.only_signal_with_registered =	0 or 1	-1	Add	<p>It enables or disables the IP phone to only send requests to the registered outbound proxy server for a specific account when encountering a failover.</p> <p>0-Disabled 1-Enabled</p> <p>If it is set to -1, the IP phone will invoke the value of the parameter “account.X.sip_server.Y.retry_counts” to take effect.</p> <p>Note: It works only if the value of the parameter “account.X.outbound_proxy.Y.register_on_enable” is set to 1 (Enabled) and the value of the parameter “account.X.outbound_proxy.Y.only_signal_with_registered” is set to 1, 2 or 3.</p>	mac.cfg
Advanced		account.X.auto_label.enable =	0 or 1	0	Add	<p>It enables or disables the Auto Label feature. It is only applicable to the automatically assigned line keys.</p> <p>0-Disabled, the line keys labels are determined by the value of the parameter “account.X.label”.</p> <p>1-Enabled, the line keys labels are determined by the custom label rule (configure by the parameter “account.X.auto_label.rule”).</p> <p>Note: It works only if the value of the parameter</p>	mac.cfg

						“features.auto_linekeys.enable” is set to 1 (Enabled).	
Advanced		account.X.auto_label.rule =	String within 99 characters	{L}_{1}	Add	<p>It configures the Auto Label rule.</p> <p>You need to know the following basic regular expression syntax:</p> <p>{L}: The value is configured by the parameter “account.X.label”.</p> <p>{N}: An increasing number from N . For example, abc{1}{5} represents the following labels: abc15, abc26, abc37, and so on.</p> <p>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.</p> <p>Other Characters: for example, ABC, will display ABC same as what you have configured.</p> <p>Note: It works only if the values of the parameters “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”.</p>	common.cfg
Ignore Incoming Call		features.ignore_incoming_call.enable =	0 or 1	0	Add	<p>It enables or disables the Ignore Incoming Call feature.</p> <p>0-Disabled</p>	common.cfg

						1-Enabled, the users cannot answer the incoming call during the call. The IP phone will not prompt the incoming call information until the current call is end. And if there is an incoming call arrives when the IP phone is idle, the user can only press the corresponding line key, the Answer soft key or the OK key to answer the call.	
Features_ BLF		features.blf.intercom_mode.enable =	0 or 1	0	Add	It enables or disables the IP phone to initiate an outgoing intercom call with a monitored user when pressing the BLF DSS key. 0-Disabled 1-Enabled Note: To use this feature, you also need to configure the intercom mode (configured by the parameter "features.intercom.mode").	common. cfg
Features_ Intercom		features.intercom.mode =	0 or 1	0	Add	It configures the intercom mode. 0-SIP 1-FAC, the feature access code is configured by the parameter "features.intercom.feature_access_code".	common. cfg
Features_ Intercom		features.intercom.feature_access_code =	0 or 1	Blank	Add	It configures the intercom feature access code. Note: It works only if the value of parameter "features.intercom.mode" is set to 1 (FAC).	common. cfg
Autop		static.auto_p	0 or 1	0	Add	It enables or disables the IP	common.

Provisioning		rovision.prompt.enable =				phone to prompt you for the configuration update and the result (if any configuration changes) during auto provisioning. 0-Disabled 1-Enabled Note: If the IP phone performs the auto provision when receiving a SIP NOTIFY message which contains the header "Event: check-sync", the IP phone will display the prompt message no matter whether the configuration is updated.	cfg
Feature Key Synchronization		features.feature_key_sync.enable =	0 or 1	0	Add	It enables or disables the IP phone to send a SUBSCRIBE message with event as-feature-event. 0-Disabled 1-Enabled	common.cfg
Other		phone_setting.hold_or_swap.mode =	0, 1 or 2	0	Add	It configures the display rule of the Hold/Swap soft key when there are two calls on the phone. 0-Only display the Hold soft key. 1-Only display the Swap soft key. 2-Display the Hold and Swap soft key. Note: You can also configure the softkey layout feature to display the Hold or Swap soft key.	common.cfg
Other		phone_setting.incoming_call_when_dialing.priority =	0 or 1	1	Add	It enables or disables the IP phone to interrupt the user operation when there is an incoming call. 0-Disabled, the IP phone will	common.cfg

						<p>not prompt the incoming call information when the user is dialing or selecting a contact from directory/call log lists to transfer a call/to set up a conference/to place a new call.</p> <p>1-Enabled, the IP phone will return to the dialing screen if there is an incoming call arrives when the user is selecting a contact from directory/call log lists to transfer a call/to set up a conference with/to place a new call.</p>	
Feature Key Synchronization		features.forward.feature_key_sync.enable =	0 or 1	1	Add	<p>It enables or disables the forward feature synchronization.</p> <p>0-Disabled</p> <p>1-Enabled, a user changes the forward status on server, the server notifies the phone of synchronizing the status. Conversely, if the user changes forward status on the phone, the IP phone notifies the server of synchronizing the status.</p> <p>Note: It works only if the value of the parameter "features.feature_key_sync.enable" is set to 1 (Enabled).</p>	common.cfg
Feature Key Synchronization		features.dnd.feature_key_sync.local_processing.enable =	0 or 1	0	Add	<p>It enables or disables the local DND when DND is activated on server.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>Note: It works only if the value of the parameters "features.feature_key_sync.enable" and</p>	common.cfg

						<p>“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.</p>	
Account DND		account.X.features.dnd.feature_key_sync.local_processing.enable =	0 or 1	Blank	Add	<p>It enables or disables the local DND for a specific account when DND is activated.</p> <p>0-Disabled 1-Enabled</p> <p>Note: It works only if the value of the parameters “features.feature_key_sync.enable” and “features.dnd.feature_key_sync.enable” are set to 1 (Enabled).</p>	mac.cfg
Account Forward		features.forward.feature_key_sync.local_processing.enable =	0 or 1	Blank	Add	<p>It enables or disables the local forward for a specific account when forward is activated.</p> <p>0-Disabled 1-Enabled</p> <p>Note: It works only if the value of the parameters “features.feature_key_sync.enable” and “features.forward.feature_key_sync.enable” are set to 1 (Enabled).</p>	mac.cfg
Account Forward		account.X.features.forward.feature_key_sync.local_processing.enable =	0 or 1	Blank	Add	<p>It enables or disables the local forward for a specific account when forward is activated.</p> <p>0-Disabled</p>	mac.cfg

						<p>1-Enabled</p> <p>Note: It works only if the value of the parameters “features.feature_key_sync.enable” and “features.forward.feature_key_sync.enable” are set to 1 (Enabled).</p>	
Transfer		dialplan.transfer.mode =	0 or 1	0	Add	<p>It configures the transfer type the IP phone will perform when the entered transferee numbers match the Dial Now rule of dial plan.</p> <p>0-Semi-attended Transfer/Attended Transfer 1-Blind Transfer</p>	common.cfg
Features_Audio Settings		features.play_hold_tone.interval =	Integer from 3 to 3600	30	Add	<p>It configures the time (in seconds) between subsequent call held tones.</p> <p>If it is set to 3 (3s) and the value of the parameter “features.play_hold_tone.delay” is set to 30 (30s), the IP phone will begin to play a hold tone after you place a call on hold for 30 seconds, and repeat the call hold tone every 3 seconds.</p> <p>Note: It works only if the value of the parameter “features.play_hold_tone.enable” is set to 1 (Enabled).</p>	common.cfg
Features_Audio Settings		features.play_held_tone.enable =	0 or 1	0	Add	<p>It enables or disables the IP phone to play the call held tone when a call is held by the other party.</p> <p>0-Disabled 1-Enabled</p>	common.cfg
Features_Audio		features.play_held_tone.	Integer from 3 to	30	Add	It configures the time (in seconds) to wait for the IP	common.cfg

Settings		delay =	3600			<p>phone to play the initial call held tone.</p> <p>If it is set to 30 (30s), the IP phone will wait 30 seconds to play the initial call held tone after you are held by the other party.</p> <p>Note: It works only if the Music on Hold feature is disabled and the value of the parameter “features.play_held_tone.enable” is set to 1 (Enabled).</p>	
Features_ Audio Settings		features.play_held_tone.interval =	Integer from 3 to 3600	60	Add	<p>It configures the time (in seconds) between subsequent call held tones.</p> <p>If it is set to 3 (3s) and the value of the parameter “features.play_held_tone.delay” is set to 30 (30s), the IP 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.</p> <p>Note: It works only if the Music on Hold feature is disabled and the value of the parameter “features.play_held_tone.enable” is set to 1 (Enabled).</p>	common.cfg
Configuration File Version		features.custom_version_info =	String	Blank	Add	<p>It configures the version information of the CFG configuration file.</p> <p>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</p>	common.cfg

						user interface).	
Power Saving		features.power_saving.power_led_flash.on_time =	0, Integer from 100 to 10000	500	Add	<p>It configures the period of time (in milliseconds) that the power indicator LED is on when the IP phone enters the power-saving mode.</p> <p>If it is set to 0 and the value of the parameter "features.power_saving.power_led_flash.off_time" is not set to 0, the power indicator LED will be off when the IP phone enters the power-saving mode.</p>	common.cfg
Power Saving		features.power_saving.power_led_flash.off_time =	0, Integer from 100 to 10000	3000	Add	<p>It configures the period of time (in milliseconds) that the power indicator LED is off when the IP phone enters the power-saving mode.</p> <p>If it is set to 0, the power indicator LED will be on when the IP phone enters the power-saving mode.</p>	common.cfg
Register Advanced		account.x.reg_failed_retry_max_time =	Integer greater than or equal to 0	0	Add	<p>It configures the maximum time period to wait (in seconds) for the IP phone to retry to re-register account X when registration fails.</p> <p>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 you to set this value to an integer between 60 to 1800 if you need to configure this parameter. If the values of</p>	mac.cfg

						<p>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.</p>	
Register Advanced		<p>account.x.reg_failed_retry_min_time =</p>	<p>Integer greater than or equal to 0</p>	0	Add	<p>It configures the base time period to wait (in seconds) for the IP phone to retry to re-register account X when registration fails.</p> <p>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 you to set this value to an integer between 10 to 120 if you need to configure this parameter. If the values of this parameter and the parameter "account.X.reg_failed_retry_max_time" are set to 0, the interval configured by "account.X.reg_fail_retry_interval" will be used.</p>	mac.cfg
Register Advanced		<p>account.X.reg_with_pani_header.enable =</p>	0 or 1	0	Add	<p>It enables or disables the IP phone to include the PANI header in the REGISTER request message.</p> <p>0-Disabled 1-Enabled</p>	mac.cfg
Anonymous Call		<p>account.x.anonymous_call.server_base_only =</p>	0 or 1	Blank	Add	<p>It enables or disables the IP phone to perform the anonymous call feature on server-side only.</p> <p>0-Disabled, the IP phone will</p>	mac.cfg

						<p>perform the anonymous call feature on server-side and local. If the anonymous call feature is enabled on the IP phone, the IP phone will carry the Anonymous attribute in the From header of the INVITE message.</p> <p>1-Enabled , the IP phone will perform the anonymous call feature on server-side only. The IP 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 IP phone.</p> <p>Note: You need to configure parameters “account.X.anonymous_call_oncode” and “account.X.anonymous_call_offcode” to activate or deactivate the server-side anonymous call feature.</p>	
Anonymous Call	account.x.s end_anony mous_code =				Delete		mac.cfg
Anonymous Call	account.x.s end_anony mous_reje ction_code =				Delete		mac.cfg
Other		sip.unreg_wi th_socket_cl ose =	0 or 1	0	Add	<p>It enables or disables the IP phone to close the socket immediately when the user registers the corresponding account(s).</p> <p>0-Disabled 1-Enabled</p>	common. cfg
Failover		sip.reliable_ protocol.tim	0 or 1	0	Add	It enables or disables the	common. cfg

		erae.enable =				<p>timer for ict and nict when TCP protocol is used.</p> <p>0-Disabled 1-Enabled</p> <p>Note: This parameter can be used for fast failover purpose when TCP connection fails. It enables or disables the manual NAT feature on the IP phone.</p> <p>0-Disabled 1-Enabled</p>	
Features_ Wi-Fi		wifi.show_sc an_prompt =	0 or 1	1	Add	<p>It enables or disable the IP phone to display the Wi-Fi scanning prompt after connecting Wi-Fi USB dongle WF40 to the IP phone.</p> <p>0-Disabled, the IP phone will enable the Wi-Fi feature and try to connect to the known wireless network (according to the priority) automatically. But if the IP phone fails to connect to any known wireless network, the IP phone will still display the Wi-Fi scanning prompt when connecting WF40 to the IP phone.</p> <p>1-Enabled</p>	common. cfg
Pickup		features.pick up_display.m ethod =	0, 1, 2 or 3	2	Add	<p>It configures the display method of the call party information on the visual prompt.</p> <p>0-Name 1-Number 2-Name Number 3-Number Name</p> <p>Note: It works only is the</p>	common. cfg

						value of the parameter "features.pickup.blf_visual_enable" is set to 1 (Enabled).	
Features_ Wi-Fi		static.wifi.X.eap_type = (X ranges from 1 to 5)	TTLS, PEAP or TLS	Blank	Add	It configures the EAP authentication mode of the wireless network X. Note: It works only if the value of the parameter "static.wifi.enable" is set to 1 (Enabled) and "static.wifi.X.security_mode" is set to WPA-EAP or WPA2-EAP.	common.cfg
Features_ Wi-Fi		static.wifi.X.eap_user_name = (X ranges from 1 to 5)	String within 32 characters	Blank	Add	It configures the EAP authentication username of the wireless network X. Note: It works only if the value of the parameter "static.wifi.enable" is set to 1 (Enabled), "static.wifi.X.security_mode" is set to WPA-EAP or WPA2-EAP and the value of the parameter "static.wifi.X.eap_type" is set to TTLS or PEAP .	common.cfg
Features_ Wi-Fi		static.wifi.X.eap_password = (X ranges from 1 to 5)	String within 64 characters	Blank	Add	It configures the EAP authentication password of the wireless network X. Note: It works only if the value of the parameter "static.wifi.enable" is set to 1 (Enabled) and "static.wifi.X.security_mode" is set to WPA-EAP or WPA2-EAP.	common.cfg
Broadsoft E911		dialplan.emergency.asserted_id_source =	ELIN, CUSTOM or HELD	ELIN	Add	It configures the precedence of source of emergency outbound identities when placing an emergency call. If it is set to ELIN, the outbound identity used in	mac.cfg

						<p>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.</p> <p>If it is set to CUSTOM, the custom outbound identity configured by “dialplan.emergency.custom_asserted_id” will be used; if the value of the parameter “dialplan.emergency.custom_asserted_id” is left blank, the LLDP-MED ELIN value will be used.</p> <p>If it is set to HELD, the IP phone will use the HELD protocol to retrieve location information from the Location Information Server.</p> <p>Note: If the obtained LLDP-MED ELIN value is blank and no custom outbound identity, the PAI header will not be included in the SIP INVITE request.</p>	
Broadsoft E911		dialplan.emergency.held.server_url =	String	Blank	Add	<p>It configures the Location Information Server URL for the IP phone to send HELD location request.</p> <p>Note: It works only if the value of the parameter “dialplan.emergency.asserted_id_source” is set to HELD.</p>	mac.cfg
Broadsoft E911		dialplan.emergency.held.r	SIMPLE or REDSKY	SIMPLE	Add	It configures the type of the	mac.cfg

		equest_type =				<p>location request message.</p> <p>If it is set to SIMPLE, the IP phone will send the location request message defined in RFC5985</p> <p>If it is set to REDSKY, the IP phone will send the location request message defined by REDSKY.</p> <p>Note: It works only if the value of the parameter “dialplan.emergency.asserted_id_source” is set to HELD.</p>	
Broadsoft E911		dialplan.emergency.held.request_element.x.name =	String	Blank	Add	<p>It configures the custom element name to be sent in a location request message.</p> <p>For example:</p> <p>dialplan.emergency.held.request_element.1.name = mac dialplan.emergency.held.request_element.2.name = companyID dialplan.emergency.held.request_element.3.name = nai</p> <p>The value of X must be continuous.</p> <p>Note: It works only if the value of the parameter “dialplan.emergency.asserted_id_source” is set to HELD.</p>	mac.cfg
Broadsoft E911		dialplan.emergency.held.request_element.x.value =	String	Blank	Add	<p>It configures the custom element value to be sent in a location request message.</p> <p>For example:</p> <p>dialplan.emergency.held.request_element.1.value = 001565B38ECB dialplan.emergency.held.request_element.2.value = 6f2f2d50-c385-4b72-b84a-ce0ca3a77cb7</p>	mac.cfg

						<p>dialplan.emergency.held.request_element.3.value = 8611@pbx.yealink.com</p> <p>The value of X must be continuous.</p> <p>Note: It works only if the value of the parameter "dialplan.emergency.asserted_id_source" is set to HELD.</p>	
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