Yealink SIP IP Phones Release Notes of Version 84

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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


- 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

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


- 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.
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:
   
   \[ \text{features.blf.show_callinfo.enable} = \]

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:
   
   \[ \text{features.pickup.blf_visual.list} = \]
   \[ \text{features.pickup.blf_audio.list} = \]

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:
   
   \[ \text{transfer.dsskey_deal_type} = \]

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:
   
   \[ \text{bw.virtual_user.1.enable} = \]
   \[ \text{bw.virtual_user.1.label} = \]
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

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.
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:**

- `phone_setting.warnings_display.mode =`
- `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

<table>
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<th>Function</th>
<th>Provisioning syntax Comparison</th>
<th>Permitted Value</th>
<th>Default Value</th>
<th>Action</th>
<th>Description</th>
<th>File</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLF List</td>
<td>account.x.blf_list_call_parked_code =</td>
<td>String within 32 characters</td>
<td>Blank</td>
<td>Add</td>
<td>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.</td>
<td>MAC.cfg</td>
</tr>
<tr>
<td>BLF List</td>
<td>account.x.blf_list_parked_list =</td>
<td>Blank all serial numbers of monitored users in</td>
<td>Blank</td>
<td>Add</td>
<td>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 supported.</td>
<td>MAC.cfg</td>
</tr>
<tr>
<td>Parameter</td>
<td>Format</td>
<td>Description</td>
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<tr>
<td>DND</td>
<td>account.x.dnd.feature_key_sync.enable = 0 or 1 Blank Add</td>
<td>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 &quot;features.dnd.feature_key_sync.enable&quot;. It works only if “account.X.feature_key_sync.enable” is set to 1</td>
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<tr>
<td>Feature</td>
<td>Parameter</td>
<td>Values</td>
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</tr>
<tr>
<td><strong>DND</strong></td>
<td>account.x.feature_key_sync.enable =</td>
<td>0 or 1</td>
<td>0</td>
<td>Add</td>
<td>It enables or disables to synchronize the feature status between the IP phone and the server for account 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 &quot;features.feature_key_sync.enable&quot;. 0-Disabled 1-Enabled, server-based DND is enabled. Server and local phone DND are synchronized.</td>
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</tr>
<tr>
<td><strong>Call Forward</strong></td>
<td>account.x.forward.feature_key_sync.enable =</td>
<td>0 or 1</td>
<td>Blank</td>
<td>Add</td>
<td>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 &quot;features.forward.feature_key_sync.enable&quot;. It works only if “account.X.feature_key_sync.enable” is set to</td>
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<tr>
<td>Feature</td>
<td>Setting</td>
<td>Description</td>
<td>Notes</td>
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</tr>
<tr>
<td>SIP Settings</td>
<td>account.x.invite_with_rpid_header.enable = 0 or 1 0 Add</td>
<td>Enables or disables the IP phone to add the Remote-Party-ID (RPID) header in the initial INVITE message.</td>
<td>Note: It is not applicable to T48G/T46G/T42G/T41P/T29G/CP920 IP phones.</td>
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<tr>
<td>Broadsoft Flexible Seating</td>
<td>bw.flexible_seating.remember_password.ldap.enable = 0 or 1 0 Add</td>
<td>Enables or disables the IP phone to encrypt and store the LDAP user credentials when using flexible seating feature.</td>
<td>Note: It works only if &quot;bw.enable&quot; and &quot;account.X.flexible_seating.enable&quot; are set to 1 (Enabled). If you disable this feature, all the saved user credentials are cleared.</td>
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<tr>
<td>Broadsoft ACD</td>
<td>bw.virtual_user.1.enable = 0 or 1 0 Add</td>
<td>Enables or disables the virtual account for the call center.</td>
<td>Note: It works only if &quot;bw.xsi.enable&quot; is set to 1 (Enabled). It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones.</td>
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<tr>
<td>Broadsoft ACD</td>
<td>bw.virtual_user.1.label = String within 99 Blank Add</td>
<td>Configures the virtual account label displayed on</td>
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</tr>
</tbody>
</table>
## Broadsoft ACD

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
<th>Default Value</th>
<th>Notes</th>
<th>MAC.cfg</th>
</tr>
</thead>
<tbody>
<tr>
<td>bw.virtual_user.1.xsi.dnd.enable</td>
<td>Enables or disables the user to control the DND status for the virtual account.</td>
<td>0 or 1</td>
<td>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. 0-Disabled 1-Enabled</td>
<td></td>
</tr>
<tr>
<td>bw.virtual_user.1.xsi.host</td>
<td>Configures the IP address of the Xtended Services Platform server for the virtual account.</td>
<td>IP address or domain name</td>
<td>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.</td>
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</tr>
<tr>
<td>bw.virtual_user.1.xsi.password</td>
<td>Configures the password of virtual account for XSI access authentication.</td>
<td>String within 99 characters</td>
<td>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”</td>
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<tr>
<td>Parameter</td>
<td>Type</td>
<td>Value</td>
<td>Description</td>
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<tr>
<td><strong>Broadsoft ACD</strong></td>
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<td><strong>bw.virtual_user.1.xsi.port</strong> = Integer from 1 to 65535 Add It configures the port of the Xtended Services Platform server for the virtual account.</td>
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<td>80</td>
<td>Note: It works only if “bw.xsi.enable” is set to 1 (Enabled). It is not applicable to T48G/T46G/T42G/T41P/T29 G IP phones.</td>
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</tr>
<tr>
<td><strong>Broadsoft ACD</strong></td>
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<td></td>
<td><strong>bw.virtual_user.1.xsi.server_type</strong> = HTTP or HTTPS Blank Add It configures the access protocol of the Xtended Services Platform server for the virtual account.</td>
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<td></td>
<td></td>
<td></td>
<td>Note: It works only if “bw.xsi.enable” is set to 1 (Enabled). It is not applicable to T48G/T46G/T42G/T41P/T29 G IP phones.</td>
<td></td>
</tr>
<tr>
<td><strong>Broadsoft ACD</strong></td>
<td></td>
<td></td>
<td><strong>bw.virtual_user.1.xsi.user</strong> = String within 99 characters Blank Add Configures the user ID of the call center for XSI access authentication.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Note: It works only if “bw.xsi.enable” is set to 1 (Enabled). It is not applicable to SIP/T48G/T46G/T42G/T41P/T29 G IP phones.</td>
<td></td>
</tr>
<tr>
<td><strong>Call Information Display</strong></td>
<td></td>
<td></td>
<td><strong>features.blf.show_callsrinfo.enable</strong> = 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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>Note: It is not applicable to T48G/T46G/T42G/T41P/T29 G IP phones.</td>
<td></td>
</tr>
<tr>
<td>Feature</td>
<td>Setting</td>
<td>Default</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>------------------</td>
<td>---------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Call Log</strong></td>
<td></td>
<td></td>
<td><strong>features.call_log_merge.enable</strong> = 0 or 1 0 Add</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0</td>
<td>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 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.</td>
<td></td>
</tr>
<tr>
<td><strong>Network Reachability Detection</strong></td>
<td></td>
<td></td>
<td><strong>static.features.network_test.check_policy</strong> = 0 or 1 0 Add</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0</td>
<td>It configures the logic when detecting the network reachability of multiple servers. Note: It works only if &quot;static.features.network_test.enable&quot; is set to 1 (Enabled).</td>
<td></td>
</tr>
</tbody>
</table>
| Network Reachability Detection | static.feature.s.network_test.enable | 0 or 1 | 0 | Add | 0-OR
|                             |                                 |      |   |     | 1-AND
|                             | 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. |

<table>
<thead>
<tr>
<th>Network Reachability Detection</th>
<th>static.feature.s.network_test.host</th>
<th>Blank</th>
<th>Add</th>
<th>Blank-The phone does not detect network reachability. String within 1024 characters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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 &quot;static.features.network_test.enable&quot; is set to 1 (Enabled).</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Network Reachability Detection</th>
<th>static.feature.s.network_test.period</th>
<th>Integer from 2 to 3600</th>
<th>60</th>
<th>Add</th>
<th>It specifies the time interval (in seconds) for network reachability detection when the network is reachable. Note: It works only if &quot;static.features.network_test.enable&quot; is set to 1 (Enabled).</th>
</tr>
</thead>
</table>

<p>| Network Reachability Detection | static.feature.s.network_un | Integer from 2 to 30 | Add | It specifies the time interval (in seconds) for network reachability detection when the network is unreachable. |
|--------------------------------|--------------------------|----------------------|-----|--------------------------------|---------------------------------|</p>
<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
<th>Values</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Network Reachability</strong></td>
<td>Detects network reachability with a period of 3600 seconds.</td>
<td>static</td>
<td>Note: It works only if &quot;static.features.network.test.enable&quot; is set to 1 (Enabled).</td>
</tr>
<tr>
<td><strong>Return Code</strong></td>
<td>Configures a return code and reason of SIP response messages when the IP phone does not answer an incoming call.</td>
<td>404, 480, 486, 603</td>
<td>Note: It is not applicable to T48G/T46G/T42G/T41P/T29G IP phones.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>486</td>
<td>404 - Not Found</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>480 - Temporarily Unavailable (Temporarily not available)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>486 - Busy Here</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>603 - Decline</td>
</tr>
<tr>
<td><strong>Visual and Audio Alert BLF</strong></td>
<td>Configures 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.</td>
<td>any</td>
<td>Example:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>features.pickup.blf_audio.list = any or leave it blank</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The IP phone plays an audio alert when any monitored user receives an incoming call.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>features.pickup.blf_audio.list = 4604, 4605</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The IP phone plays an audio alert when any monitored user receives an incoming call.</td>
</tr>
<tr>
<td><strong>Visual and Audio Alert BLF Lines</strong></td>
<td>features.pickup.blf_visual.list =</td>
<td>any</td>
<td>any</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>----------------------------------</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>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 The IP phone displays a visual alert when monitored user 4604 or 4605 receives an incoming call.</td>
<td>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 &quot;account.X.blf_list_uri&quot;. Note: It works only if &quot;features.pickup.blf_audio.enable&quot; is set to 1 (Enabled). It is not applicable to CP920/T48G/T46G/T42G/T41P/T29G/T19(P) E2 IP phones.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feature</td>
<td>Parameter</td>
<td>Default</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------------------------------------------</td>
<td>---------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>BLF Visual Alert</td>
<td>features.pickup.blf_visual.list = List1</td>
<td></td>
<td>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 &quot;account.X.blf.blf_list_uri&quot;. Note: It works only if &quot;features.pickup.blf_visual_enable&quot; is set to 1 (Enabled). It is not applicable to CP920/T48G/T46G/T42G/T41P/T29G/T19(P) E2 IP phones.</td>
</tr>
<tr>
<td>Google Contacts</td>
<td>google_contact_server.enable = 0 or 1</td>
<td>0</td>
<td>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.</td>
</tr>
<tr>
<td>Call Display</td>
<td>phone_setting.call_display_name.mode = 0 or 1</td>
<td>0</td>
<td>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 preferentially, the common. cfg</td>
</tr>
<tr>
<td><strong>USB Port Lock</strong></td>
<td><strong>phone_settining.warnings_display.mode</strong> =</td>
<td>0 or 1</td>
<td>1</td>
</tr>
<tr>
<td>------------------</td>
<td>------------------------------------------</td>
<td>-------</td>
<td>---</td>
</tr>
<tr>
<td><strong>Action URL</strong></td>
<td><strong>action_url.peripheral_information</strong> =</td>
<td>URL within 511 characters The value format is: http(s):/IP address of server/help.xml?variable</td>
<td>Blank</td>
</tr>
</tbody>
</table>
### BLF Key LED/Icon and Behavior for DND State

<table>
<thead>
<tr>
<th>name</th>
<th>value</th>
<th>behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>blf.enhanced</td>
<td>dnd.enable = 0 or 1</td>
<td>Add</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>blf.enhanced</td>
<td>dnd.led = String Blank</td>
<td>Add</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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</td>
</tr>
<tr>
<td>BLF Key LED/Icon and Behavior for Hold State</td>
<td>blf.enhanced.hold.enable</td>
<td>0 or 1</td>
</tr>
<tr>
<td>BLF Key LED/Icon and Behavior for Hold State</td>
<td>blf.enhanced.hold.led</td>
<td>String</td>
</tr>
</tbody>
</table>
For T54S/T52S/T46S/T42S/T41S/T40P/T40G/T27G/T23P/T23G/T21(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 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 common.cfg
<table>
<thead>
<tr>
<th>Bluetooth</th>
<th><strong>bluetooth.connect_confirmation.enable</strong> =</th>
<th>0 or 1</th>
<th>0</th>
<th>Add</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong></td>
<td>It enables or disables the phone to prompt users to confirm the reconnection request from the Bluetooth device.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Note: It is only applicable to CP920 IP phones.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0-Disabled</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-Enabled, the prompt window will not appear during the call.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EDK Prompt</th>
<th><strong>edk.edkprompt.X.title</strong> =</th>
<th>String</th>
<th>EDK Prompt</th>
<th>Add</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Example:</strong></td>
<td>edk.edkprompt.1.title = MyTitle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Note:</strong></td>
<td>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.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CFG File Version Information</td>
<td>static.auto_provision.config_version.mac =</td>
<td>String</td>
<td>Blank</td>
<td>Add</td>
</tr>
<tr>
<td>CFG File Version Information</td>
<td>static.auto_provision.config_version.common =</td>
<td>String</td>
<td>Blank</td>
<td>Add</td>
</tr>
<tr>
<td>Call Log</td>
<td>features.local_calllog.received.replace_rule =</td>
<td>String</td>
<td>Blank</td>
<td>Add</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Remote Phone Book</th>
<th>remote_phonebook.data.X.username = String</th>
<th>Blank</th>
<th>Add</th>
<th>It configures the user name used to access the remote phone book X.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Phone Book</td>
<td>features/headset.ctrl_call.enable = String</td>
<td>Blank</td>
<td>Add</td>
<td>It configures the password used to access the remote phone book X.</td>
</tr>
</tbody>
</table>