

# Polycom<sup>®</sup> UC Software 4.0.14

**For Polycom<sup>®</sup> SoundPoint<sup>®</sup> IP Conference Phones, Polycom<sup>®</sup> SoundStation<sup>®</sup> IP Conference Phones, Polycom<sup>®</sup> SoundStation<sup>®</sup> Duo Conference Phones, Polycom<sup>®</sup> VVX<sup>®</sup> 500 and 1500 Business Media Phones, and Polycom<sup>®</sup> SoundStructure<sup>®</sup> VoIP Interface Phones**

Polycom announces the release of Polycom<sup>®</sup> Unified Communications (UC) Software, version 4.0.14. This document provides the latest information about this release.

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## What's New

Polycom® Unified Communications (UC) Software 4.0.14 is a maintenance release for Open SIP deployments. These release notes provide important information on software updates, phone features, and known issues.

### OpenSSL Upgrade

OpenSSL has been upgraded from version 0.9.8zg to version 1.0.2j for Polycom SoundStation IP 6000 conference phones.

### Certificate Enhancements

The following certificate has been added in this release.

#### Certificate Updates

| Certificate Common Name  | RSA Public Key | Signature Algorithm     | Validity Period Start          | Validity Period End            |
|--|----------------|-------------------------|--------------------------------|--------------------------------|
| QuoVadis Root CA 2 G3<br><a href="https://www.quovadisglobal.be/Repository/DownloadRootsAndCRL.aspx">https://www.quovadisglobal.be/Repository/DownloadRootsAndCRL.aspx</a> | 4096 bit       | sha256WithRSAEncryption | Jan 12<br>18:59:32<br>2012 GMT | Jan 12<br>18:59:32<br>2042 GMT |

The following certificate has been removed in this release.

#### Certificate Updates

| Certificate Common Name   | RSA Public Key | Signature Algorithm   | Validity Period Start             | Validity Period End               |
|---|----------------|-----------------------|-----------------------------------|-----------------------------------|
| C=US, O=VeriSign, Inc., OU=Class 1 Public Primary Certification Authority - G2, OU=(c) 1998 VeriSign, Inc. - For authorized use only, OU=VeriSign Trust Network | 1024 bit       | sha1WithRSAEncryption | May 18<br>00:00:00<br>1998<br>GMT | May 18<br>23:59:59<br>2018<br>GMT |

### Introducing the Integrated Updater Application

In Polycom UC software 4.0.x, the Updater files and the UC software files are combined in a single, integrated software package. The Updater application is new for the UC software and replaces the BootROM application incorporated into previous software versions. The name Updater applies to UC software versions 4.0.0 or later, while the name BootROM continues to be used in UC software versions earlier than 4.0.0.

#### Updater Version

Polycom UC software 4.0.x firmware has new updater/bootRom **Polycom UC Updater 5.0.14.0580/0579 rts5**.



Only Polycom SoundStation IP 6000 and 7000 conference phones require manual procedure to upgrade new updater version **Polycom UC Updater 5.0.14.0580/0579 rts5**.

#### Updater Version Table

| Platforms       | App Version | Updater/BootROM Version                |
|-----------------|-------------|--|
| IP6000 (Mirage) | 4.0.14.0987 | 5.0.14.0580/0579 (Manual installation) |
| IP7000 (Onyx)   | 4.0.14.0987 | 5.0.14.0580/0579 (Manual installation) |

## Phone Features and Licenses

As of release 4.0.0, Polycom UC software supports the Productivity Suite, which includes features such as a Corporate Directory, Visual Conference Management, USB Call Recording, Polycom Desktop Connector, and Exchange Calendar. Upgrading to the current Polycom UC software automatically enables the Productivity Suite; no license is required. The Voice Quality Monitoring (VQMon) feature continues to be a licensed and paid product.

For customers using versions of Polycom UC software prior to 4.0.0, Polycom provides a site license for all features in the Productivity Suite, except for the VQMon feature. To get a license for the VQMon feature, select *Download a Non VQMon SITE License* on [Polycom Voice Applications](#). You can also find a trial license for the VQMon feature which enables you access to the feature for a limited time.

Polycom UC software 4.0.14 supports a range of features that are available on the Polycom SoundStation IP conference phone, Polycom SoundStation conference phone, Polycom VVX business media phone, and Polycom SoundStructure VoIP interface phones. The features and licenses required to operate the phones vary by phone model. Refer to the [Polycom SoundStation IP Conference Phone Features and Licenses](#) table or the [Polycom SoundStation Conference Phone, Polycom VVX Business Media Phone, and Polycom SoundStructure VoIP Interface Phone Features and Licenses](#), and table to find out which phone features and licenses you require for your phone model.

The following table describes features available for each phone and indicates whether a feature license is required.

- *No* indicates that a phone does not support a feature.
- *Yes* indicates that a phone supports a feature and no license is required.
- *Yes\** indicates that the phone requires you to purchase a feature license from Polycom to support a feature.

**Polycom SoundStation IP Conference Phone Features and Licenses**

| <b>Feature</b>             | <b>Polycom SoundStation IP Conference Phone 321/331/335</b> | <b>Polycom SoundStation IP Conference Phone 450/550/560</b> | <b>Polycom SoundStation IP Conference Phone 650/670</b> |
|----------------------------|---|---|---|
| 4-way local conference     | No  | Yes   | Yes   |
| Asian Languages            | Chinese only  | Yes   | Yes   |
| Call Recording             | No  | No  | Yes   |
| Conference Management      | No  | Yes   | Yes   |
| Configurable Soft keys     | Yes   | Yes   | Yes   |
| Customizable UI Background | No  | Yes   | Yes   |
| Electronic Hookswitch      | Yes   | Yes   | Yes   |
| Enhanced BLF               | No  | Yes   | Yes   |
| Enhanced Feature Keys      | Yes   | Yes   | Yes   |
| H.323 Video                | No  | No  | No  |
| VQMon                      | Yes*  | Yes*  | Yes*  |

**Polycom SoundStation Conference Phone, Polycom VVX Business Media Phone, and Polycom SoundStructure VoIP Interface Phone Features and Licenses**

| <b>Feature</b>             | <b>Polycom SoundPoint IP 5000 Conference Phone</b> | <b>Polycom SoundStation IP 6000 Conference Phone</b> | <b>Polycom SoundStation IP 7000 Conference Phone</b> | <b>Polycom SoundStation Duo Conference Phone</b> | <b>Polycom VVX 1500 Business Media Phone</b> | <b>Polycom VVX 500 Business Media Phone</b> | <b>Polycom SoundStructure VoIP Interface Phone</b> |
|----------------------------|--|--|--|--|--|---|--|
| Asian Languages            | Yes  | Yes  | Yes  | Yes  | Yes  | Yes   | No   |
| Conference Management      | No   | No   | Yes  | Yes  | Yes  | Yes   | No   |
| Customizable UI Background | No   | No   | No   | No   | Yes  | Yes   | No   |
| Electronic Hookswitch      | No   | No   | No   | No   | Yes  | Yes   | No   |
| Enhanced BLF               | No   | No   | No   | No   | No   | Yes   | No   |

**Polycom SoundStation Conference Phone, Polycom VVX Business Media Phone, and Polycom SoundStructure VoIP Interface Phone Features and Licenses**

| <b>Feature</b>         | <b>Polycom SoundPoint IP 5000 Conference Phone</b> | <b>Polycom SoundStation IP 6000 Conference Phone</b> | <b>Polycom SoundStation IP 7000 Conference Phone</b> | <b>Polycom SoundStation Duo Conference Phone</b> | <b>Polycom VVX 1500 Business Media Phone</b> | <b>Polycom VVX 500 Business Media Phone</b> | <b>Polycom SoundStructure VoIP Interface Phone</b> |
|------------------------|--|--|--|--|--|---|--|
| Enhanced Feature Keys  | No   | No   | Yes*   | No   | Yes  | Yes   | No   |
| H.323 Video            | No   | No   | No   | No   | Yes*   | No  | No   |
| Local Call Recording   | No   | No   | No   | No   | Yes  | Yes   | No   |
| Pinyin Character Entry | No   | No   | No   | No   | Yes*   | No  | No   |
| VQMon                  | Yes*   | No   | No   | Yes*   | Yes  | Yes   | No   |

## Configuration File Enhancements

The following table lists configuration file enhancements that include new or changed parameters for this Polycom UC software 4.0.14 release. For more information on using configuration parameters to enable or disable features, see the *Polycom UC Software Administrator Guide* available on the [Polycom Support - Voice](#) site.

### Configuration File Enhancements for Polycom UC Software 4.0.14

| Template                | Parameter                    | Permitted Values   | Change Causes Restart or Reboot |
|-------------------------|------------------------------|--|---------------------------------|
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>browser | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and phone browser. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2</p> <p>The microbrowser restarts when there is a change in the browser TLS protocol or TLS cipher settings, and the last web page displayed is not restored.</p> <p>The permitted values for Polycom SoundStation IP 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p> | No                              |
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>ldap    | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and Lightweight Directory Access Protocol (LDAP). The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2</p> <p>The permitted values for Polycom SoundStation 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p>  | No                              |

**Configuration File Enhancements for Polycom UC Software 4.0.14 (continued)**

| Template                | Parameter                      | Permitted Values   | Change Causes Restart or Reboot |
|-------------------------|--------------------------------|--|---------------------------------|
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>sip       | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and SIP signaling. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p> | No                              |
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>sopi      | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and SOPI. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p>          | No                              |
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>webServer | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and Web Server. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p>    | Yes                             |

**Configuration File Enhancements for Polycom UC Software 4.0.14 (continued)**

| Template                | Parameter                             | Permitted Values  | Change Causes Restart or Reboot |
|-------------------------|---------------------------------------|---|---------------------------------|
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>xmpp             | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and XMPP. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p>               | No                              |
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>exchangeServices | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and Exchanges services. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p> | No                              |
| device.cfg,<br>site.cfg | device.sec.TLS.pr<br>otocol.syslog    | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and Syslog. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p>             | No                              |



**Configuration File Enhancements for Polycom UC Software 4.0.14 (continued)**

| Template                | Parameter                     | Permitted Values   | Change Causes Restart or Reboot |
|-------------------------|-------------------------------|--|---------------------------------|
| device.cfg,<br>site.cfg | device.sec.TLS.protocol.prov  | Configure the lowest TLS/SSL version to use for handshake negotiation between phone and provisioning. The phone handshake starts with the highest TLS version irrespective of the value you configure.<br><br>TLsv1_0 (default)<br>SSLv2v3, TLsv1_1 and TLsv1_2<br>The permitted values for Polycom SoundStation IP 7000 conference phones are<br>TLsv1_0 (default)<br>SSLv2v3       | No                              |
| device.cfg,<br>site.cfg | device.sec.TLS.protocol.dot1x | Configure the lowest TLS/SSL version to use for handshake negotiation between phone and 802.1x authentication. The phone handshake starts with the highest TLS version irrespective of the value you configure.<br><br>TLsv1_0 (default)<br>SSLv2v3, TLsv1_0, TLsv1_1 and TLsv1_2<br>The permitted values for Polycom SoundStation IP 7000 conference phones is<br>TLsv1_0 (default) | Yes                             |
| site.cfg                | sec.uploadDevice.privateKey   | 0 (default) - While generating the Certificate Signing Request from the phone, the device private key is not uploaded to provisioning server.<br><br>1 - The device private key is uploaded to provisioning server along with the CSR.   | No                              |

## Security Updates

Please refer to the [Polycom Security Center](#) for information about known and resolved security vulnerabilities.

## Install

Consider the following installation and update information when using Polycom UC software 4.0.14.

## Download the Distribution Files

To download Polycom UC software 4.0.14, you can choose the combined UC software package or the split UC software package, both in ZIP file format. The combined version contains all files for all phone models. The split software package is smaller, downloads more quickly, and contains sip.id files for each phone model, enabling you to choose provisioning software for your phone model and maintain software versions for each model in the same root directory.

For general use, Polycom recommends using the split resource file that corresponds to the phone models for your deployment. To match the correct UC software resource file to your phone model, see the table [Understand the Combined ZIP and Split ZIP Files](#). If you are provisioning your phones centrally using configuration files, download the corresponding resource file and extract the configuration files to the provisioning server, maintaining the folder hierarchy in the ZIP file.

The current build ID for the sip.id and resource files is **UCS 4.0.14.1388 rts22 D**.

## Understand the Combined and Split ZIP Files

To understand the files distributed in the combined ZIP file, refer to the following table.

### Understand the Combined ZIP and Split ZIP Files

| Distributed Files     | File Purpose and Application  | Combined | Split |
|-----------------------|---|----------|-------|
| 2345-12360-001.sip.id | SIP application executable for Polycom SoundStation IP 321 conference phones  | No       | Yes   |
| 2345-12365-001.sip.id | SIP application executable for Polycom SoundStation IP 331 conference phones  | No       | Yes   |
| 2345-12375-001.sip.id | SIP application executable for Polycom SoundStation IP 335 conference phones  | No       | Yes   |
| 2345-12450-001.sip.id | SIP application executable for Polycom SoundStation IP 450 conference phones  | No       | Yes   |
| 2345-12500-001.sip.id | SIP application executable for Polycom SoundStation IP 550 conference phones  | No       | Yes   |
| 2345-12560-001.sip.id | SIP application executable for Polycom SoundStation IP 560 conference phones  | No       | Yes   |
| 2345-12600-001.sip.id | SIP application executable for Polycom SoundStation IP 650 conference phones  | No       | Yes   |
| 2345-12670-001.sip.id | SIP application executable for Polycom SoundStation IP 670 conference phones  | No       | Yes   |
| 3111-30900-001.sip.id | SIP application executable for Polycom SoundStation IP 5000 conference phones | No       | Yes   |
| 3111-15600-001.sip.id | SIP application executable for Polycom SoundStation IP 6000 conference phones | No       | Yes   |
| 3111-40000-001.sip.id | SIP application executable for Polycom SoundStation IP 7000 conference phones | No       | Yes   |

**(continued) Understand the Combined ZIP and Split ZIP Files**

| <b>Distributed Files</b>        | <b>File Purpose and Application</b>   | <b>Combined</b> | <b>Split</b> |
|---------------------------------|---|-----------------|--------------|
| 3111-19000-001.sip.ld           | SIP application executable for Polycom SoundStation Duo conference phones   | No              | Yes          |
| 3111-44500-001.sip.ld           | SIP application executable for Polycom VVX 500 business media phones  | No              | Yes          |
| 2345-17960-001.sip.ld           | SIP application executable for Polycom VVX 1500 business media phones   | No              | Yes          |
| 3111-33215-001.sip.ld           | SIP application executable for Polycom SoundStructure VoIP interface phone  | No              | Yes          |
| sip.ld                          | Concatenated SIP application executable   | Yes             | No           |
| sip.ver                         | Text file detailing the build-identification(s) for the release.  | Yes             | Yes          |
| 000000000000.cfg                | Master configuration template file  | Yes             | Yes          |
| 000000000000-directo<br>ry~.xml | Local contact directory template file. To apply on a per phone basis, replace the 0s with the MAC address of the phone and remove '~' from the file name. | Yes             | Yes          |
| applications.cfg                | Contains configuration parameters for microbrowser and browser applications.  | Yes             | Yes          |
| features.cfg                    | Contains configuration parameters for telephony features.   | Yes             | Yes          |
| H323.cfg                        | Contains configuration parameters for the H.323 signaling protocol.   | Yes             | Yes          |
| reg-advanced.cfg                | Contains configuration parameters for the line and call registration and advanced phone feature settings.   | Yes             | Yes          |
| reg-basic.cfg                   | Contains configuration parameters for the line and call registration and basic phone feature settings.  | Yes             | Yes          |
| region.cfg                      | Contains configuration parameters for regional and localization settings such as time, date and language.   | Yes             | Yes          |
| sip-basic.cfg                   | Contains configuration parameters for the VoIP server, softswitch registration.   | Yes             | Yes          |
| sip-interop.cfg                 | Contains configuration parameters for the VoIP server, softswitch registration, and interoperability configuration.                                       | Yes             | Yes          |
| site.cfg                        | Contains configuration parameters that are set on a per site basis.   | Yes             | Yes          |
| video.cfg                       | Contains configuration parameters for video connectivity.   | Yes             | Yes          |
| video-integration.cfg           | Contains configuration parameters for Polycom SoundStation IP 7000 conference phone and Polycom® HDX® integration.  | Yes             | Yes          |
| SoundPointIPWelcom<br>e.wav     | Start-up welcome sound effect   | Yes             | Yes          |

**(continued) Understand the Combined ZIP and Split ZIP Files**

| Distributed Files | File Purpose and Application | Combined | Split |
|-------------------|------------------------------|----------|-------|
| LoudRing.wav      | Loud ringer sound effect     | Yes      | Yes   |
| Warble.wav        | Loud ringer sound effect     | Yes      | Yes   |

## Version History

This following table shows the release history of Polycom® Unified Communications (UC) Software 4.0.14.

### Version History

| Release      | Release Date  | Features   |
|--------------|---------------|--|
| 4.0.14       | February 2019 | This release has important field fixes.  |
| 4.0.13       | October 2017  | This release has important field fixes.  |
| 4.0.12       | June 2017     | This release has important field fixes.  |
| 4.0.11 Rev K | April 2017    | New software change on Polycom VVX 500 business media phones to support new LCD panel on the phones.   |
| 4.0.11       | June 2016     | This release has important field fixes.  |
| 4.0.10 Rev D | April 2016    | This release has important field fixes.  |
| 4.0.10       | January 2016  | This release has important field fixes.  |
| 4.0.9        | June 2015     | This release has important field fixes.  |
| 4.0.8        | January 2015  | This release has important field fixes.  |
| 4.0.7        | July 2014     | This release has important field fixes.  |
| 4.0.6        | March 2014    | Added support for the improved touchscreen driver for the VVX 500 business media phone.  |
| 4.0.5        | December 2013 | Added support for GENBAND directory, Global Address Book (GAB) and Personal Address Book (PAB). Added support for Multiple Appearance Directory Number-Single Call Appearance (MADN-SCA) for Shared Line Appearance scenarios. |
| 4.0.4 Rev C  | June 2013     | Added corporate directory under the Directories softkey in the call transfer menu.   |

## Language Support

The Polycom VVX phones' user interface include native support for the following languages:

- Chinese, Traditional
- Chinese, Simplified
- Danish, Denmark

- Dutch, Netherlands
- English, Canada
- English, United Kingdom
- English, United States
- French, France
- German, Germany
- Italian, Italy
- Japanese, Japan
- Korean, Korea
- Norwegian, Norway
- Polish, Poland
- Portuguese, Portugal
- Russian, Russia
- Slovenian, Slovenia
- Spanish, Spain
- Swedish, Sweden

## Resolved Issues

The following issues have been resolved for the Polycom UC software 4.0.14 release.

### Polycom UC Software 4.0.14 Resolved Issues

| Category        | Issue Number | Description  |
|-----------------|--------------|--|
| Call Management | EN-93086     | Polycom phone does not perform Naming Authority Pointer (NAPTR) query for the outbound proxy while validating the incoming request using parameters <code>voIpProt.SIP.requestValidation.1.method= "source"</code> and <code>voIpProt.SIP.requestValidation.1.request= "INVITE"</code> . |
| Calling         | EN-93139     | Polycom VVX business media phone continues to display the placed call list when <code>feature.callList.enabled</code> and <code>feature.callListPlaced.enabled</code> parameters are disabled.   |
| Calling         | EN-82307     | Polycom phone goes to hold state immediately after the call is answered, when the phone receives two consecutive UPDATE messages during early dialog, one without a direction attribute and the other with a direction attribute as "recvonly" in the SDP.                               |
| Calling         | EN-93085     | Polycom SoundStation IP conference phone puts the call on hold while dialing to hunt group which has the pre-alerting feature enabled.   |
| Calling         | EN-62056     | Polycom SoundStation IP conference phone goes to held state immediately when it receives "recvonly" in the initial call answer and fails to go back to active state even after re-negotiation with "sendrecv".   |

**Polycom UC Software 4.0.14 Resolved Issues**

| Category         | Issue Number           | Description   |
|------------------|------------------------|---|
| Calling          | EN-70647               | All VxWorks version 5.5 supported phone freezes while uploading logs to the boot server when the upload frequency is 3-4 seconds.   |
| Configuration    | EN-65058               | Polycom SoundStation IP 5000 conference phone is unable to fetch the IP address from DHCP server during the software upgrade when the sub-option in Option 43 is incorrectly configured.                                |
| General          | EN-89543               | If the primary server responds with a 503 response, the phone sends delayed Refresh REGISTER to secondary server when the expiry timeout is less than 70 seconds.   |
| General          | EN-83605               | When Polycom phone receives NOTIFY with terminated before the SUBSCRIBE response, the phone crashes/reboots due to a memory leak.   |
| General          | EN-58645               | Polycom SoundStation IP conference phone does not offer all the codecs from previous Session Description Protocol (SDP) when resuming a call with <code>voIpProt.offerFullCodecListUponResume</code> parameter enabled. |
| General          | EN-85672               | When the primary server does not respond, the phone sends REGISTER with new call-id and Cseq 1 to the registered secondary server during fail back.   |
| General          | EN-81595               | With the re-registration on failover (RRoFO) feature enabled and transport configured as TCPpreferred, the phone do not honor the 401 challenge with authentication header for UDP if TCP connection is not successful. |
| Hardware         | EN-67943               | Polycom SoundStation IP conference phone randomly reboots during DNS lookup.  |
| Interoperability | EN-89106               | Polycom phone prepends "sip:" while relaying SIPS-URI in Record-Route/Route header.   |
| Interoperability | EN-81177               | Polycom SoundStation IP conference phone do not handle "sips:" URL in Route header correctly when user name is present.   |
| Localization     | EN-65184               | Polycom phones do not display the label properly if Unicode character value for HTML entities is beyond 127.  |
| Network          | EN-66337               | Polycom SoundStation IP 7000 conference phones fail to send option 60 and 125 in every 7 <sup>th</sup> DHCP request message.  |
| Network          | EN-92774               | Polycom phone is unable to parse NAPTR response if NAPTR response contains encoded replacement string.  |
| Provisioning     | EN-87721               | The subscription for server-based call forward and DND fails over TLS.  |
| Provisioning     | EN-81581               | When the Polycom phone generates Certificate Signing Request (CSR), the phone does not upload a private key to the provisioning server.   |
| Security         | EN-121039<br>EN-121040 | Fixed security vulnerabilities.   |

**Polycom UC Software 4.0.14 Resolved Issues**

| <b>Category</b> | <b>Issue Number</b> | <b>Description</b>  |
|-----------------|---------------------|---|
| User Interface  | EN-84011            | In GENBAND environments with an Oracle SBC, the phone reboots when a user presses the Hold, Transfer, or both soft keys at the same time during a call. |
| User Interface  | EN-88155            | Polycom VVX business media phone is unable to display Unicode text having Armenian characters.  |

## Known Issues

The following table lists all known issues and suggested workarounds for Polycom UC Software version 4.0.14.



These release notes do not provide a complete listing of all known issues that are included in the software. Issues not expected to significantly impact customers with standard voice and video conferencing environments may not be included. In addition, the information in these release notes is provided as-is at the time of release and is subject to change without notice.

### Known Issues

| Category      | Issue ID   | Description   | Workaround  |
|---------------|------------|---|---|
| Application   | VOIP-46997 | Camera brightness adjustment does not work between levels 3 to 6 on the Polycom VVX 1500 business media phone.  | No workaround currently available.  |
| Application   | VOIP-66251 | British Telecom Caller ID type is not correctly supported (applies to Polycom SoundStation Duo conference phone).   | No workaround currently available.  |
| Audio         | EN-76703   | While the Polycom RealPresence Group Series system connected to Polycom SoundStation IP 7000 conference phone is in video call, when the connection is lost and then restored again, the far-end audio randomly switches to the Polycom SoundStation IP 7000 conference phone instead of staying on the Polycom RealPresence Group Series system. | No workaround currently available.  |
| Calling       | VOIP-53514 | H.264 calls to an Polycom HDX 9002 device using an MGC 50 Gateway using H.320 result in lip sync issues (applies to VVX 1500).  | Set the call for transcoding on the MGC.  |
| Calling       | VOIP-54799 | The Polycom VVX 1500 business media phones transmit H.264 QCIF video to Tandberg MXPs in H.323 calls.   | Set the video bit rate on the Polycom VVX 1500 business media phone to 512 Kbps to avoid the issue. |
| Calling       | VOIP-63609 | Cannot answer a call using the speaker soft key when DND is enabled and <code>call.rejectBusyOnDnd</code> is set to zero (applies to SpectraLink 84xx).   | No workaround currently available.  |
| Configuration | EN-95403   | The Polycom SoundStation IP 6000 and 7000 conference phones idle browser displays SSL connection timeout error after the restart when the idle browser is configured with HTTPS URL.  | No workaround currently available.  |
| General       | VOIP-89407 | In an MADN scenario, observed that the received call list on the phone is not getting updated when a MADN call is answered by a different destination.  | No workaround currently available.  |



**Known Issues**

| Category         | Issue ID   | Description  | Workaround  |
|------------------|------------|--|---|
| Hardware         | VOIP-37984 | Enabling the Idle bit-map on Polycom SoundStation IP 330 and 320 conference phones causes the line key labels and dialed digits to be invisible.                     | Do not use the idle bit-map on 330/320 phones; instead, set <code>ind.idleDisplay.enabled=0</code> .                    |
| Network          | VOIP-72211 | An explicitly trusted Intermediate CA fails TLS verification when it is the issuer of a server certificate.  | No workaround currently available.  |
| Network          | EN-96231   | Phone authentication fails for the first time when using the EAP-TLS method for 802.1x authentication.   | No workaround currently available.  |
| Security         | VOIP-37175 | If configuration files are used to set the SNTP server address, date validity checking on CA certificates will be ignored for https provisioning.                    | Set the SNTP server address through the phone UI or use DHCP to inform the phone of the SNTP server address.            |
| Security         | VOIP-62482 | Server certificate serial number is checked against the host name if the outbound proxy is configured.   | No workaround currently available.  |
| Software Updates | VOIP-70728 | Software upgrade does not work if <code>&lt;partnumber&gt;.xml</code> file is not specified as a part of <code>upgrade.custom.server.url</code> configuration value. | Ensure the <code>part-number.xml</code> file is part of the <code>upgrade.custom.server.url</code> configuration value. |

## Updates to Previous Software Releases

This section lists new, enhanced, and discontinued software features and capabilities in previous software releases.

### *What's New in Polycom UC Software 4.0.13*

## Upgrading to or Downgrading from Polycom UC Software 4.0.x

As of UC software 4.0.x, Polycom has changed the process of upgrading and downgrading software on the phones. To upgrade to UC software 4.0.x, you need to install the new Upgrader application. Once you have installed the Upgrader, you can install UC software 4.0.x.

To downgrade from UC software 4.0.x, you need first to install a new application called the Downgrader. Once you have installed the Downgrader, you can install an earlier UC software version.

For detailed instructions on how to upgrade and downgrade your UC software, see Polycom UC Software 4.0.x Upgrade and Downgrade Methods (Engineering Advisory 64731) on [Polycom Support](#).

## Introducing the Integrated Updater Application

In Polycom UC software 4.0.x, the Updater files and the UC software files are combined in a single, integrated software package. The Updater application is new for the UC software and replaces the BootROM application incorporated into previous software versions. The name Updater applies to UC software versions 4.0.0 or later, while the name BootROM continues to be used in UC software versions earlier than 4.0.0.

## Considerations for Legacy Phones

Polycom UC software 4.0.13 does not include support for the Polycom® SoundPoint® IP 300, 301, 320, 330, 430, 500, 501, 600, 601 conference phones, Polycom® SpectraLink® 84xx series Wireless Telephone, and Polycom® SoundStation® IP 4000 conference phones. These phones are termed legacy products and are supported for critical issue fixes in SIP 3.2.x (Polycom SoundPoint IP 430 conference phone), SIP 3.1.x (Polycom SoundPoint IP 301, 320, 330, 501, 600, 601, 4000 conference phones), and SIP 2.1.x (Polycom SoundPoint IP 300, 500 conference phones). For assistance on provisioning methods that support a mix of legacy and current products, refer to *Maintaining Older Polycom Phones Beyond Their Last Supported Software Release (Technical Bulletin 35311)* on [Polycom Support](#).

## Supporting Earlier Software versions

For details on platform support for previous software versions, refer to the [UC Software/SIP Software Release Matrix](#).

## Managing Polycom® SoundStation® IP 7000 Conference Phones with Polycom® HDX® Integration

If your phone deployment includes Polycom SoundStation IP 7000 conference phones with Polycom HDX 4000/6000/7000/8000/9000 integration, use [Recommended Software Versions for the Polycom SoundStation IP 7000 Conference Phones with Polycom HDX Systems](#) table as a guide to select a recommended software version.

### Recommended Software Versions for the Polycom SoundStation IP 7000 Conference Phones with Polycom HDX Systems

| Polycom SoundStation IP 7000 conference phone Software Version | Polycom HDX Software Version  |
|--|---|
| 3.2.1 or 3.2.2 and BootROM 4.2.0                               | 2.5.0.7, 2.5.0.8  |
| 3.2.3 and BootROM 4.2.2  | 2.6.0, 2.6.0.2, 2.6.1, 2.6.1.3  |
| 3.3.1 and BootROM 4.3.1  | 2.6.1.3, 3.0, 3.0.0.1, 3.0.0.2, 3.0.1, 3.0.2, 3.0.2.1, 3.0.3, 3.0.3.1 |
| 4.0.1 and Updater 5.0.1  | 3.0.3, 3.0.3.1  |
| 4.0.2 Rev B and Updater 5.0.1                                  | 3.0.4, 3.0.5, 3.1.0, 3.1.0.1  |
| 4.0.3 Rev F and Updater 5.0.1                                  | 3.1.2, 3.1.1.2, 3.1.1.3   |
| 4.0.4 and Updater 5.0.3  | 3.1.3   |

### Recommended Software Versions for the Polycom SoundStation IP 7000 Conference Phones with Polycom HDX Systems

| Polycom SoundStation IP 7000 conference phone Software Version | Polycom HDX Software Version |
|--|------------------------------|
| 4.0.7 and Updater 5.0.4  | 3.1.6*                       |
| 4.0.9 and Updater 5.0.8  | 3.1.9                        |
| 4.0.10 and Updater 5.0.9                                       | 3.1.11                       |
| 4.0.13 and Updater 5.0.13                                      | 3.1.11                       |



Support is available for Polycom HDX version 3.1.2 and above only. Customers are encouraged to upgrade to Polycom HDX version 3.1.2 and above and the corresponding recommended UC Software suitable for the Polycom SoundPoint IP 7000 conference phone.

## Managing Polycom® SoundStation® IP 7000 Conference Phones with Polycom® RealPresence® Group Series Integration

If your phone deployment includes Polycom SoundStation IP 7000 conference phones with Polycom RealPresence Group Series 300/500/700 integration, use [Recommended Software Versions for the Polycom SoundStation IP 7000 Conference Phones with Polycom RealPresence Group Series System](#) table as a guide to select a recommended software version.

### Recommended Software Versions for the Polycom SoundStation IP 7000 Conference Phones with Polycom RealPresence Group Series System

| Polycom SoundStation IP 7000 Conference Phone Software Version | Polycom RealPresence Group Series System Software Version |
|--|---|
| 4.0.2 Rev B and Updater 5.0.1                                  | 4.0.0, 4.0.0.1  |
| 4.0.3 Rev F and Updater 5.0.1                                  | 4.0.1, 4.0.2  |
| 4.0.3F and Updater 5.0.1                                       | 4.0.1, 4.0.2  |
| 4.0.4 and Updater 5.0.1  | 4.1.1, 4.1.1.1  |
| 4.0.5 and Updater 5.0.1  | 4.1.3, 4.1.4, 4.1.5                                       |
| 4.0.7 and updater 5.0.4  | 4.2.0   |
| 4.0.7 and Updater 5.0.5  | 5.0.2   |
| 4.0.11 and Updater 5.0.11                                      | 5.1.2, 6.0.0, 6.0.1, 6.1.0, 6.1.1                         |
| 4.0.13 and Updater 5.0.13                                      | 5.1.2, 6.0.0, 6.0.1, 6.1.0, 6.1.1, 6.1.2                  |

## Supporting the PinYin Input Mode (XT9 input)

Polycom UC software 4.0.13 supports Chinese character input mode known as PinYin. This feature is available on Polycom® VVX® 1500 business media phones and will require a feature license for activation. Refer to *Using PinYin to Input Chinese Characters on Polycom VVX Business Media Phones (FP 76554)* on [Polycom Support](#) to learn more.

## Supporting the BroadSoft Hoteling Feature

Polycom UC software 4.0.13 supports Polycom SoundPoint IP 450, 550, 560, 650, and 670 conference phones for use with the BroadSoft Hoteling feature.

## Supporting BroadSoft Premium Automatic Call Distribution (ACD)

Polycom UC software 4.0.13 supports Polycom SoundPoint IP 450, 550, 560, 650, and 670 conference phones and Polycom VVX 500 business media phones for use with the Broadsoft Premium ACD.



For detailed information about the ACD feature, see *Using Premium Automatic Call Distribution for Call Centers (Feature Profile 76179)* on [Polycom Support](#).

## Resolved Issues

The following issues have been resolved for the Polycom UC software 4.0.13 release.

### Polycom UC Software 4.0.13 Resolved Issues

| Category | Issue Number | Description   |
|----------|--------------|---|
| Calling  | EN-32391     | When Polycom RealPresence Group Series system attempts to dial multiple calls simultaneously, only one call will connect if the Polycom SoundStation IP 7000 conference phone is plugged in as a microphone.  |
| Calling  | EN-32324     | The Polycom SoundPoint IP conference phone handsets reject MIME message without a Session Description Protocol (SDP) and sends a 415-unsupported media type error message.  |
| Calling  | EN-32607     | Calls to Polycom SoundStation IP conference phones do not appear on the missed calls list.  |
| Calling  | EN-30015     | When the configuration parameter <code>voIpProt.SIP.RFC3261TimerI</code> is set to 1, the Polycom VVX business media phone sends 481 response code to second INVITE after rejecting initial INVITE message with 488 response even when the transaction timeout is zero, as per specification for Transmission Control Protocol (TCP) transport. |
| General  | EN-32375     | The Polycom VVX business media phone's SSL Client Hello publishes incorrect time for the GMT UNIX Time.   |

**Polycom UC Software 4.0.13 Resolved Issues**

| <b>Category</b> | <b>Issue Number</b> | <b>Description</b>   |
|-----------------|---------------------|--|
| Network         | EN-32248            | The Polycom SoundStation IP 6000 and 7000 conference phones are not honoring the Maximum Segment Size (MSS) received in TCP SYN packet during the TCP handshake.       |
| Security        | EN-41471            | Resolved important security vulnerabilities.   |
| Security        | EN-35538            | The Polycom phone fails to login when registered to server using Built-in certificate.   |
| User Interface  | EN-32599            | If the Diffie-Hellman (DH) key length is more than 128 bytes, client applications on the Polycom VVX business media phones take longer time to establish a connection. |
| User Interface  | EN-42373            | Call Forward No Answer (CFNA) ring count field defaults to incorrect value when the server call forwarding is disabled in the device and enabled on the server.        |

## Configuration File Enhancements

The following table lists configuration file enhancements that include new or changed parameters for this Polycom UC software 4.0.13 release. For more information on using configuration parameters to enable or disable features, see the Administrator Guide for Polycom UC software for your software release available on the Polycom Voice Support site.

### Configuration File Enhancements for Polycom UC Software 4.0.13

| Template                | Parameter                    | Permitted Values  | Change Causes Restart or Reboot |
|-------------------------|------------------------------|---|---------------------------------|
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>browser | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and phone browser. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2</p> <p>The microbrowser restarts when there is a change in the browser TLS protocol or TLS cipher settings, and the last web page displayed is not restored.</p> <p>The permitted values for Polycom SoundStation IP 6000 and 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p> | No                              |
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>ldap    | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and Lightweight Directory Access Protocol (LDAP). The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2</p> <p>The permitted values for Polycom SoundStation IP 6000 and 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p>   | No                              |

**Configuration File Enhancements for Polycom UC Software 4.0.13 (continued)**

| Template                | Parameter                      | Permitted Values  | Change Causes Restart or Reboot |
|-------------------------|--------------------------------|---|---------------------------------|
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>sip       | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and SIP signaling. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 6000 and 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p> | No                              |
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>sopi      | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and SOPI. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 6000 and 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p>          | No                              |
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>webServer | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and Web Server. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 6000 and 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p>    | No                              |

**Configuration File Enhancements for Polycom UC Software 4.0.13 (continued)**

| Template                | Parameter                             | Permitted Values   | Change Causes Restart or Reboot |
|-------------------------|---------------------------------------|--|---------------------------------|
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>xmpp             | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and XMPP. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 6000 and 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p>               | No                              |
| device.cfg,<br>site.cfg | sec.TLS.protocol.<br>exchangeServices | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and exchanges services. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 6000 and 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p> | No                              |
| device.cfg,<br>site.cfg | device.sec.TLS.pr<br>otocol.syslog    | <p>Configure the lowest TLS/SSL version to use for handshake negotiation between phone and Syslog. The phone handshake starts with the highest TLS version irrespective of the value you configure.</p> <p>TLSv1_0 (default)<br/>SSLv2v3, TLSv1_1 and TLSv1_2<br/>The permitted values for Polycom SoundStation IP 6000 and 7000 conference phones are<br/>TLSv1_0 (default)<br/>SSLv2v3</p>             | No                              |



**Configuration File Enhancements for Polycom UC Software 4.0.13 (continued)**

| Template                | Parameter                         | Permitted Values   | Change Causes Restart or Reboot |
|-------------------------|-----------------------------------|--|---------------------------------|
| device.cfg,<br>site.cfg | device.sec.TLS.pr<br>otocol.prov  | Configure the lowest TLS/SSL version to use for handshake negotiation between phone and provisioning. The phone handshake starts with the highest TLS version irrespective of the value you configure.<br><br>TLsv1_0 (default)<br>SSLv2v3, TLsv1_1 and TLsv1_2<br>The permitted values for Polycom SoundStation IP 6000 and 7000 conference phones are<br>TLsv1_0 (default)<br>SSLv2v3      | No                              |
| device.cfg,<br>site.cfg | device.sec.TLS.pr<br>otocol.dot1x | Configure the lowest TLS/SSL version to use for handshake negotiation between phone and 802.1x authentication. The phone handshake starts with the highest TLS version irrespective of the value you configure.<br><br>TLsv1_0 (default)<br>SSLv2v3, TLsv1_0, TLsv1_1 and TLsv1_2<br>The permitted value for Polycom SoundStation IP 6000 and 7000 conference phones is<br>TLsv1_0 (default) | No                              |
| sip-interop<br>.cfg     | tone.dtmf.rfc2833<br>Payload_OPUS | Sets the Dual Tone Multi Frequency (DTMF) payload required to use the Opus codec.<br>126 (default)<br>96 - 127   | Yes                             |
| sip-interop<br>.cfg     | voIpProt.SIP.RFC3<br>261TimerI    | 0 (default) - Timer I for reliable transport will be fired at five seconds. This parameter does not cause any change for unreliable transport.<br>1 - Timer I for reliable transport will be fired at zero seconds.  | No                              |

**Configuration File Enhancements for Polycom UC Software 4.0.13 (continued)**

| Template | Parameter                    | Permitted Values   | Change Causes Restart or Reboot |
|----------|------------------------------|--|---------------------------------|
| site.cfg | sec.TLS.cipherList           | Specifies the cipher list for all applications except web server.<br><br>ALL:!aNULL:!eNULL:!DSS:!SEED:!ECDSA:!IDEA:!MEDIUM:!LOW:!EXP:!DH:!AECDH:!PSK:!SRP:!MD5:!RC4:@STRENGTH (default)<br>String (Maximum of 1024 characters) | No                              |
| site.cfg | sec.TLS.webServer.cipherList | Specifies the cipher list for web server.<br><br>ALL:!aNULL:!eNULL:!DSS:!SEED:!ECDSA:!IDEA:!MEDIUM:!LOW:!EXP:!DH:!AECDH:!PSK:!SRP:!AES256-SHA:!AES128-SHA:!MD5:!RC4:@STRENGTH (default)<br>String (Maximum of 1024 characters) | No                              |

## What's New in Polycom UC Software 4.0.12

The Polycom UC software 4.0.12 release includes the following new features and enhancements:

### Important Upgrade Notes and Considerations in Polycom UC Software 4.0.12

This section contains important notes on Polycom hardware and software.

#### Configuration Files

Since UC software 3.3.0, Polycom has simplified and extensively modified the configuration files, their respective parameters and defaults, and the provisioning methods. Some of the software updates in UC software 4.0.12 may not be compatible with configuration files from software releases prior to UC software 3.3.0. If you are updating to the UC software 4.0.12 from a release prior to 3.3.0, Polycom recommends reading [Technical Bulletin 60519: Simplified Configuration Enhancements in Polycom® UC Software 3.3.0](#) before you deploy the updated software.



If you use a Polycom UC software version prior to 3.3.0 and want to use a Polycom® SoundStructure® VoIP Interface phone, Polycom® VVX® 500 business media phone or Polycom® SoundStation® Duo conference phone, you need to update your existing configuration files as described in [Technical Bulletin 60519](#).

## Upgrading to or Downgrading from Polycom UC Software 4.0.x

As of UC software 4.0.x, Polycom has changed the process of upgrading and downgrading software on the phones. To upgrade to UC software 4.0.x, you need to install the new Upgrader application. Once you have installed the Upgrader, you can install UC software 4.0.x.

To downgrade from UC software 4.0.x, you need first to install a new application called the Downgrader. Once you have installed the Downgrader, you can install an earlier UC software version.

For detailed instructions on how to upgrade and downgrade your UC software, see Polycom UC Software 4.0.x Upgrade and Downgrade Methods (Engineering Advisory 64731) on [Polycom Support](#).

## Introducing the Integrated Updater Application

In Polycom UC software 4.0.x, the Updater files and the UC software files are combined in a single, integrated software package. The Updater application is new for the UC software and replaces the BootROM application incorporated into previous software versions. The name Updater applies to UC software versions 4.0.0 or later, while the name BootROM continues to be used in UC software versions earlier than 4.0.0.

## Considerations for Legacy Phones

Polycom UC software 4.0.12 does not include support for the Polycom® SoundPoint® IP 300, 301, 320, 330, 430, 500, 501, 600, 601 conference phones, Polycom® SpectraLink® 84xx series Wireless Telephone, and Polycom® SoundStation® IP 4000 conference phones. These phones are termed legacy products and are supported for critical issue fixes in SIP 3.2.x (Polycom SoundPoint IP 430 conference phone), SIP 3.1.x (Polycom SoundPoint IP 301, 320, 330, 501, 600, 601, and 4000 conference phones), and SIP 2.1.x (Polycom SoundPoint IP 300 and 500 conference phones). For assistance on provisioning methods that support a mix of legacy and current products, refer to *Maintaining Older Polycom Phones Beyond Their Last Supported Software Release (Technical Bulletin 35311)* on [Polycom Support](#).

## Supporting the PinYin Input Mode (XT9 input)

Polycom UC software 4.0.12 supports Chinese character input mode known as PinYin. This feature is available on Polycom® VVX® 1500 business media phones and will require a feature license for activation. Refer to *Using PinYin to Input Chinese Characters on Polycom VVX Business Media Phones (FP 76554)* on [Polycom Support](#) to learn more.

## Supporting the BroadSoft Hoteling Feature

Polycom UC software 4.0.12 supports the following Polycom phones for use with the BroadSoft Hoteling feature: Polycom SoundPoint IP 450, 550, 560, 650, and 670 conference phones.

## Supporting BroadSoft Premium Automatic Call Distribution (ACD)

Polycom UC software 4.0.12 supports the following Polycom phones for use with the BroadSoft Premium ACD: Polycom SoundPoint IP 450, 550, 560, 650, and 670 conference phones and Polycom VVX 500 business media phone.



For detailed information about the ACD feature, see [Using Premium Automatic Call Distribution for Call Centers \(Feature Profile 76179\)](#) on [Polycom Support](#).

## Resolved Issues

The following issues have been resolved for the Polycom UC software 4.0.12 release.

### Polycom UC Software 4.0.12 Resolved Issues

| Category      | Issue Number | Found in Release                       | Description   |
|---------------|--------------|--|---|
| Calling       | VOIP-121789  | UCS 4.0.11                             | The Polycom SoundPoint IP conference phones do not switch back to the local ring tone during blind transfers.   |
| Configuration | VOIP-118008  | UCS 4.0.11                             | The changed settings in the MAC-web.cfg file of the phone does not get uploaded to the path provided in the OVERRIDES_DIRECTORY through Web Configuration Utility.                      |
| General       | VOIP-118307  | UCS 4.0.10                             | Special characters such as '() {} #' are not supported in the line authentication password field of the phone while entering the user login credentials.                                |
| General       | VOIP-111907  | UCS 4.0.10                             | When dialing a contact from the corporate directory, if the corporate directory is scrolled multiple times, the Polycom SoundPoint IP 560 and 670 conference phones might reboot.       |
| General       | VOIP-122934  | UCS 5.2.0,<br>UCS 4.1.1,<br>UCS 4.0.11 | If the compatibility view is not set on Polycom SoundPoint IP conference phone, the web pages are not displayed on Internet Explorer 11.  |
| General       | VOIP-120400  | UCS 4.0.9                              | The Polycom SoundPoint IP 650 conference phones restart occasionally in an irregular pattern.   |
| General       | VOIP-114168  | UCS 4.0.8                              | When dialing a contact selected from the corporate directory search, the Polycom SoundPoint IP450 conference phone restarts automatically within two seconds.                           |
| General       | VOIP-114347  | UCS 4.0.8                              | When updating the configuration from the phone menu, if <code>dir.local.readonly</code> parameter is set to 1 and provisioning server is unreachable, the phone restarts automatically. |

**Polycom UC Software 4.0.12 Resolved Issues**

| Category       | Issue Number | Found in Release                                    | Description  |
|----------------|--------------|---|--|
| General        | VOIP-123101  | UCS 4.0.11  | During a call, if the <code>voIpProt.SIP.musicOnHold.uri</code> is configured, the Polycom SoundPoint IP conference phone does not send the SDP information in the session refresh INVITE.                           |
| General        | VOIP-120795  | UCS 4.0.11  | In a simultaneous ring environment, when an incoming call is received, the call drops.   |
| Network        | VOIP-117354  | UCS 4.0.10  | The phone displays a "Request Failed" error on a successful blind transfer when the Session Description Protocol (SDP) origin session-id and session-version does not match with the previous INVITE request.        |
| Network        | VOIP-118668  | UCS 4.0.8   | During boot-up, if the switch takes time to respond to the phone as a part of the Link Layer Discovery Protocol (LLDP), the Polycom SoundPoint IP conference phone might not pick up the correct VLAN ids from LLDP. |
| Network        | VOIP-124271  | UCS 4.0.11  | When Link Layer Discovery Protocol (LLDP) packets receive empty port description with Type Length Value being 0, the phone ignores VLAN.   |
| Network        | VOIP-122825  | UCS 5.4.5,<br>UCS 4.0.4,<br>UCS 4.0.11              | When sending Session Description Protocol (SDP) offer in a transfer scenario, if an INVITE without SDP is received, the <code>sec.srtplib.offer</code> is not considered.  |
| Network        | VOIP-121141  | UCS 5.4.1,<br>UCS 5.1.3,<br>UCS 5.1.3,<br>UCS 4.0.8 | When Maximum Transmission Unit (MTU) is reduced on VVX 1500 phone, high load occurs on Session Border Controller (SBC) due to excessive fragmented packets.  |
| Provisioning   | VOIP-120547  | UCS 4.0.9   | The Polycom SoundPoint IP 6000 conference phone stops responding after a period of time when a Multi Line Telephone Systems (MTLS) connection is used for provisioning periodically.                                 |
| Provisioning   | VOIP-125679  | UCS 4.0.8,<br>UCS 4.0.10                            | The Polycom SoundPoint IP 5000 conference phones send a subscribe message every 30 seconds over the TLS even when the subscription has not expired.  |
| Security       | VOIP-122626  | UCS 5.4.5   | All GlobalSign Root R3 CA certificates are not shown to be supported.  |
| Security       | VOIP-124676  | UCS 5.5.1   | Polycom VVX business media phones do not allow HTTPS provisioning as Let's Encrypt certificate is not on the list of trusted certificates.   |
| Security       | VOIP-121529  | UCS 5.5.1   | When generating a Certificate Signing Request (CSR) on Polycom VVX business media phones, the phone's private key is sent to the provisioning server along with the CSR.   |
| User Interface | VOIP-123568  | UCS 4.0.11  | During an incoming call, there is no option to disable the call center status information being displayed.   |

**Polycom UC Software 4.0.12 Resolved Issues**

| Category       | Issue Number | Found in Release | Description   |
|----------------|--------------|------------------|---|
| User Interface | VOIP-120740  | UCS 4.0.11       | When Line Registration is disabled on the phone, a "Line Unregistered" pop-up text message and a warning icon display. Set <code>up.warningLevel</code> to 2, available in releases 4.0.12 and later, to suppress the warnings.   |
| Web Interface  | VOIP-120618  | UCS 4.0.10       | The Web Server Configuration feature cannot be enabled on the Polycom SoundStation IP conference phones when disabled through configuration file.   |
| Web Interface  | VOIP-126409  | UCS 4.1.1        | Polycom SoundStation IP 5000 conference phone has a memory leak issue that results in a medium-security vulnerability (CVSSv3 score = 5.4) in the web interface. An independent security researcher, Francis Alexander, has reported this vulnerability to Beyond Security's SecuriTeam Secure Disclosure program, who in turn alerted Polycom. |

## Configuration File Enhancements

The following table lists the configuration file enhancements that include new or changed parameters for this Polycom UC software 4.0.12.

**Configuration File Enhancements**

| Parameter Template                                    | Permitted Values  |
|---|---|
| <code>feature.callCenterCallInformation.enable</code> | 1 (default) - Call Center status information displayed while receiving an incoming call.<br>0 - Does not display Call Center status information.<br>The Call Center information can be viewed by pressing Call Info soft key. |
| <code>up.warningLevel</code>                          | 0 (default) - Displays warning icon and a pop-up message for all warnings.<br>1 - Displays a warning icon and pop-up messages only for critical warnings.<br>2 - Does not display any warning icon or pop-up message.         |
| <code>call.switchToLocalRingbackWithoutRTP</code>     | 0 (default) - The phone does not switch back to local ringback if Real-Time Transport Protocol (RTP) is stopped.<br>1 - The phone switches back to local ringback if RTP is stopped.  |

**Configuration File Enhancements**

| Parameter Template                                   | Permitted Values   |
|--|--|
| <code>device.sec.TLS.constTimeFlag.enabled</code>    | 1 (default) - Enables constant time flag for BIG NUM calculation during Multi Line Telephone Systems (MLTS) connection.<br>0 - Disables constant time flag.  |
| <code>voIpProt.SIP.renewSubscribeOnTLSRefresh</code> | 1 (default) - For an as-feature-event, the SUBSCRIBE message is sent along with the RE-REGISTER when Transport Layer Security (TLS) breaks.<br>0 - The SUBSCRIBE and RE-REGISTER messages is sent at different times.  |
| <code>device.net.lldpFastStartCount</code>           | Specifies the number of consecutive Link Layer Discovery Protocol (LLDP) packets the phone sends at the time of LLDP discovery.<br>5 (default)<br>3 to 10<br>LLDP packets are sent every seconds during this extended discovery period.  |
| <code>net.lldp.extendedDiscovery</code>              | Specifies the duration of time that LLDP discovery continues after sending the number of packets defined by the parameter <code>device.net.lldpFastStartCount</code> .<br>0 (default)<br>0 to 3600<br>LLDP packets are sent every 5 seconds during this extended discovery period. |

## ***Important Upgrade Notes and Considerations in UC Software 4.0.11 Rev K***

### **Important Update**

**Impacted:** All Polycom® SoundPoint® IP conference phone, Polycom® SoundStation® IP conference phone, and Polycom® VVX® business media phone.

**Details:** This release includes a critical fix (VOIP-116371) that corrects a problem with Polycom phones manufactured with a serial number or MAC address in the range 64167F as opposed to 0004F2. Without this fix, customers using Polycom phones with the new serial number range will see impaired performance.

**Recommendation:** Polycom recommends that this release be used for all phones going forward. Phones with older serial numbers or MAC addresses will continue to work correctly with this build with no impact.

## ***What's New in Polycom UC Software 4.0.11 Rev K***

This release has a new software change and resolved issues from previous releases.

### **New Features in 4.0.11 Rev K**

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.11 Rev K beside their respective Polycom tracking identification numbers.

### **New or Enhanced Features**

The Polycom UC software 4.0.11 Rev K software version includes the features and functionality of version 4.0.11, with the addition of important field fixes.

### **New Display Component on Polycom® VVX® 500 Business Media Phones**

Polycom VVX 500 business media phones manufactured as of May 2017 are being shipped with the new display component from a secondary component vendor. When the Polycom VVX 500 business media phone encounters an incompatible version of UC software on the provisioning server that does not support the new component, the phone installs the UC software and you may experience a flicker. This release includes a software change that makes it compatible with the new display component.

## ***What's New in Polycom UC Software 4.0.11***

This release has a new software change and resolved issues from previous releases.

### **New Features in 4.0.11**

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.11 beside their respective Polycom tracking identification numbers.



## New or Enhanced Features

The 4.0.11 software version includes the features and functionality of version 4.0.10, with the addition of important field fixes.

## Resolved Issues

The following issues have been resolved for the Polycom UC software 4.0.11 release.

### Polycom UC Software 4.0.11 Resolved Issues

| Category      | Issue No.   | Found in Release | Description   |
|---------------|-------------|------------------|---|
| Calling       | VOIP-115888 | 4.0.9            | Outbound calls from the Multiple Appearance Directory Number (MADN) lines now display the called number.  |
| Calling       | VOIP-116267 | 4.0.9            | Phones now use the contact uniform resource identifier (URI) and Tel URI in the request line of the BYE message. When the <code>reg.1.telUri</code> parameter is disabled, the phone uses the contact URI and the call ends. When the <code>reg.1.telUri</code> parameter is enabled, the phone uses the Tel URI and the call ends. |
| Calling       | VOIP-117314 | 5.4.2            | Ringer and paging, hands-free and Push-to-talk (PTT), and handset and headset loudness in phones are now boosted up to full scale when a low power signal is received. For more details on the configuration parameters added for this issue, see <a href="#">Polycom UC Software 4.0.11 Configuration File Enhancements</a> .      |
| Calling       | VOIP-117387 | 4.0.9            | Outbound calls from the MADN lines now show the called number without any issue.  |
| Cisco         | VOIP-108644 | 4.0.8            | Polycom SoundStation IP 6000 conference phone no longer displays the "DHCP failed" message when connected to a Cisco® Catalyst® 2960-X switch with ports set to auto negotiate.   |
| Configuration | VOIP-115998 | 4.0.8<br>4.0.9   | Polycom SoundStation IP 550 conference phones now send network address translation (NAT) keep alive messages to the call server without any issue.  |
| Configuration | VOIP-117275 | 4.0.10           | Polycom SoundStation IP 7000 conference phone performance has been improved by increasing the available free space.   |
| Functionality | VOIP-112880 | 4.0.9            | If the phone auto-answers a click-to-dial call, the phone plays the correct ringtone and not the reboot ringtone.   |
| Functionality | VOIP-116990 | 4.0.10           | Phone works fine and no longer causes issues during an incoming call while the phone is under any of the menus from the Home Screen and the call is ended by the far end before the call is answered.   |
| General       | VOIP-113784 | 4.0.9            | Forwarding a call manually no longer causes any issues even if <code>feature.urlDialing.enabled</code> parameter is disabled.   |

**Polycom UC Software 4.0.11 Resolved Issues**

| Category       | Issue No.   | Found in Release         | Description   |
|----------------|-------------|--------------------------|---|
| General        | VOIP-114780 | 4.0.8<br>4.0.9<br>4.0.10 | During an incoming page, if the volume is increased in the phone, the phone now retains the increased paging volume.  |
| General        | VOIP-117261 | 5.4.4<br>4.0.10          | During an outage, the phone now falls back to the secondary server and sends the SUBSCRIBE message for registration and presence.   |
| Security       | VOIP-113939 | 5.4.1                    | The following two StartCom Root CA certificates are added to the Polycom trusted CA bundle: <ul style="list-style-type: none"> <li>StartCom Certification Authority</li> <li>StartCom Certification Authority G2</li> </ul> |
| User Interface | VOIP-114192 | 4.0.9                    | The Forward After Rings UI no longer gets over lapped with its value configured.  |

## Configuration File Enhancements

The following table includes configuration file enhancements for this release.

**Polycom UC Software 4.0.11 Configuration File Enhancements**

| Parameter  | Permitted Values | Default |
|--|------------------|---------|
| <code>call.shared.preferCallIn</code><br><code>foCID</code>  | 0 or 1           | 0       |
| <p>If the value is 0, the Caller-ID information received in the 200 OK status code will not be ignored if the NOTIFY message received with caller information includes display information.</p> <p>If the value is set to 1, the Caller-ID information received in the 200 OK status code will be ignored if the NOTIFY message received with caller information includes display information.</p> |                  |         |
| <code>voice.handsetHeadset.rxd</code><br><code>g.offset</code>   | 9 to -12         | 0       |
| Offsets the RxDg range of the handset and headset by the specified number of decibels.   |                  |         |
| <code>voice.ringerPage.rxdg.of</code><br><code>fset</code>   | 9 to -12         | 0       |
| Offsets the RxDg range of the ringer and hands-free Page by the specified number of decibels.  |                  |         |
| <code>voice.handsfreePtt.rxdg.</code><br><code>offset</code>   | 9 to -12         | 0       |
| Offsets the RxDg range of the hands-free and hands-free Push-to-Talk (PTT) by the specified number of decibels.  |                  |         |
| <code>voIpProt.SIP.newCallOnUn</code><br><code>Register</code>   | 0 or 1           | 1       |

### Polycom UC Software 4.0.11 Configuration File Enhancements

| Parameter                                    | Permitted Values | Default |
|--|------------------|---------|
|  |                  |         |
|  |                  |         |
|  |                  |         |
| <code>voIpProt.SIP.looseContact</code>       | 0 or 1           | 0       |
|  |                  |         |
|  |                  |         |
| <code>call.autoAnswer.playTone.enable</code> | 0 or 1           | 1       |
|  |                  |         |
|  |                  |         |

## Updates to Polycom UC Software 4.0.10

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.10 beside their respective Polycom tracking identification numbers.

### Configuration File Enhancements

The following table includes configuration file enhancements for this release.

#### Polycom UC Software 4.0.10 Configuration File Enhancements

| Parameter  | Permitted Values   | Default               |
|--|--|-----------------------|
| <code>voIpProt.SIP.dtmfViaSignaling.rfc2976.nonLegacyEncoding</code> | 0 or 1   | 1                     |
|  |  |                       |
|  |  |                       |
| <code>sec.TLS.profile.webServer.cipherSuiteDefault</code>            | 0 to 1   | 1                     |
|  |  |                       |
|  |  |                       |
| <code>voIpProt.server.x.failOver.failBack.mode</code>                | <code>newRequests, DNSTTL, registration, duration</code> | <code>duration</code> |
|  |  |                       |
|  |  |                       |
| <code>voIpProt.SIP.outboundProxy.failOver.failBack.mode</code>       | <code>newRequests, DNSTTL, registration, duration</code> | <code>duration</code> |
|  |  |                       |
|  |  |                       |

**Polycom UC Software 4.0.10 Configuration File Enhancements**

| Parameter  | Permitted Values                           | Default                                 |
|--|--|---|
| reg.x.outboundProxy.failOver.failBack.mode   | newRequests,DNSTTL, registration, duration | duration                                |
| The default value for this parameter is changed to "duration" from "newRequests".  |  |   |
| reg.x.server.y.failOver.failBack.mode  | newRequests,DNSTTL, registration, duration | duration                                |
| The default value for this parameter is changed to "duration" from "newRequests".  |  |   |
| sec.TLS.LDAP.strictCertificateCommonNameValidation   | 0 or 1                                     | 1                                       |
| If 0, the Common Name validation of the certificate used for LDAPS (LDAP over TLS) connection is skipped. If 1, the Common Name of the certificate used for LDAPS (LDAP over TLS) connection is validated.<br>Note: Changing this parameter value causes the phone to restart. |  |   |
| softkey.feature.silence  | 0 or 1                                     | 1                                       |
| If 0, the Silence softkey is disabled. If 1, the Silence softkey is enabled.   |  |   |
| sec.TLS.cipherList   | String                                     | RSA:!EXP:!LOW:!NULL:!MD5:!RC4:@STRENGTH |
| For this parameter, the default value is changed from "RSA:!EXP:!LOW:!NULL:!MD5:@STRENGTH" to "RSA:!EXP:!LOW:!NULL:!MD5:!RC4:@STRENGTH".   |  |   |

**Resolved Issues**

The following issues have been resolved for the Polycom UC software 4.0.10 release.

**Polycom UC Software 4.0.10 Resolved Issues**

| Category | Issue No.   | Found in Release | Description  |
|----------|-------------|------------------|--|
| Audio    | VOIP-111421 | 4.0.9            | Repeat pressing a DTMF digit by the callee does not cause packet loss, which would have decreased the Mean Opinion Score (MOS) in the Voice Quality monitoring system. The MOS remains constant as expected. |
| Calling  | VOIP-102676 | 4.0.7            | The 3CX call park feature with TCP trunk does not cause one-way audio and the phone is able to unpark call.  |
| Calling  | VOIP-102748 | 4.0.7            | Phone uses the blind transfer behavior from EFK soft keys, and sends a HOLD before the REFER message.  |
| Calling  | VOIP-104132 | 4.0.9            | If an emergency server is not configured, emergency calls are routed through the registrar server and any calls dialed to configured emergency numbers are treated as emergency calls.                       |

**Polycom UC Software 4.0.10 Resolved Issues**

| Category          | Issue No.   | Found in Release | Description   |
|-------------------|-------------|------------------|---|
| Contact Directory | VOIP-110539 | 4.0.8            | The phone does not reboot if a contact is not selected and dialed within two seconds of receiving search results in the Corporate Directory search.   |
| General           | VOIP-101787 | 4.0.5            | Phone scrolls the TO and FROM headers in the caller ID in BLF feature with Genband.   |
| General           | VOIP-102240 | 5.3.0            | The default for the following parameters is changed from "newRequests" to "duration".<br><code>voIpProt.server.x.failOver.failBack.mode</code><br><code>voIpProt.SIP.outboundProxy.failOver.failBack.mode</code><br><code>reg.x.outboundProxy.failOver.failBack.mode</code><br><code>reg.x.server.y.failOver.failBack.mode</code> |
| General           | VOIP-102354 | 5.4.0            | Mismatch between file system versions due to a flash corruption is fixed. The phone now starts successfully without displaying the Fix soft key.  |
| General           | VOIP-102415 | 4.0.10           | A new configuration parameter is added to support the draft-kaplan-dispatch-info-dtmf-package draft for relaying DTMF digits.   |
| General           | VOIP-102488 | 4.0.8            | IP 5000 software acquires DHCP address successfully when option 43 uses HEX value.  |
| General           | VOIP-103424 | 4.0.8            | When a call server sends a NOTIFY message to the phone with "State : TERMINATED", the phone does not send additional SUBSCRIBE messages once the call is canceled.  |
| General           | VOIP-105621 | 4.0.8            | Enabling SSLv3 on the LDAP server and disabling the same on the phone does not cause phone freeze or power off after one day from reboot.   |
| General           | VOIP-108864 | 4.0.9            | The phone sends a CANCEL request if the call is ended, even if there has been no response from the server for the original INVITE request.  |
| General           | VOIP-109628 | 4.0.4            | The overall Mean Opinion Score (MOS) is accurate even when there are several SSRC changes, for example, when codec changes. The phone triggers a VQMon report when SSRC change is reported by DSP.  |
| General           | VOIP-110514 | 4.0.9            | Common Name validation of the certificate used for LDAPS (LDAP over TLS) connection is configurable through configuration file, phone interface, and Web UI.  |
| Inter-operability | VOIP-102162 | 4.0.9            | Improved Polycom® VVX® 1500 business media phone integration with RPRM.   |

**Polycom UC Software 4.0.10 Resolved Issues**

| Category       | Issue No.   | Found in Release | Description  |
|----------------|-------------|------------------|--|
| Network        | VOIP-106112 | 4.0.8            | Phone does not broadcast SIP and RTP packages to PC port and prevents unwanted network load.   |
| Provisioning   | VOIP-106847 | 4.0.8            | Phones do not get into a reboot loop when provisioning from an FTP server that has a contact directory with more than 350 contacts.  |
| Provisioning   | VOIP-109272 | 4.0.9            | For a call number that ends in “#” or “*”, the phone sends “user=phone” in the invite message.   |
| Security       | VOIP-109244 | 4.0.9            | Denial of service vulnerabilities in OpenSSL are fixed.  |
| Security       | VOIP-109284 | 5.4.1            | RC4 encryption ciphers are not supported on TCP port 443.  |
| Security       | VOIP-111442 | 4.0.10           | Cipher support for the web server is configurable.   |
| User Interface | VOIP-101549 | 4.0.8            | For Polycom® SoundStation® IP 7000 conference phone, the Automatic Gain Control or Noise Suppression sub menus under the administration menu are removed.  |
| User Interface | VOIP-101667 | 4.0.9            | Phones configured to use the custom cipher suite display the cipher list correctly.  |
| User Interface | VOIP-108496 | 4.0.9            | Polycom VVX 1500 business media phone displays the callee name in the Called List when the callee does not answer the call.  |
| User Interface | VOIP-109005 | 4.0.8            | When the Silence softkey is enabled, phone displays this softkey when the phone is ringing. Pressing this key silences the ringing phone.<br>Note: The Silence Softkey is applicable only for Polycom® SoundPoint® IP 650, 670, and 450 conference phones, Polycom VVX 500 and 1500 business media phones and Polycom SoundStation IP 7000 conference phone. |
| User Interface | VOIP-109418 | 4.0.9            | Phone does not display “Unknown” for incoming call ID unless the calling party address is null. For all other cases, phone displays the destination address for incoming call ID.  |
| User Interface | VOIP-111325 | 5.4.0            | Enable ease of install by customizing Quick Setup to show only username and password fields.   |

**Updates to Polycom UC Software 4.0.9**

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.9 beside their respective Polycom tracking identification numbers.

## Resolved Issues

The following issues have been resolved for the Polycom UC software 4.0.9 release.

### Polycom UC Software 4.0.9 Resolved Issues

| Category          | Issue No.   | Found in Release | Description  |
|-------------------|-------------|------------------|--|
| Audio             | VOIP-92804  | 4.0.5            | To resolve a problem that caused audio issues on the Polycom® SoundStation® Duo conference phone, support has been discontinued for using the Spectralink proprietary G.726QI codec for PTT/Paging. Users should use G.711-mu or G.722 for PTT/Paging instead.                                       |
| Calling           | VOIP-97987  | 4.0.5            | The default value of the parameter <code>up.simplifiedSipCallInfo</code> is now correctly set to '1'.  |
| Calling           | VOIP-101500 | 4.0.8            | A problem has been resolved that caused the phone to send DTMF characters "*" and "#" incorrectly.   |
| Contact Directory | VOIP-101462 | 4.0.6            | A problem was resolved that prevented a Polycom® VVX® 1500 business media phone from saving directory entries locally when it is registered to a Polycom® RealPresence® Resource Manager system.   |
| General           | VOIP-100999 | 4.0.8            | Several unused configuration parameters were removed from the <code>cfgParamDef.xml</code> file  |
| General           | VOIP-100887 | 4.0.8            | New parameter <code>device.net.lldpCapabilitiesRequired.set</code> has been added for use when the LLDP packet with system capabilities should be set to 0x0000.   |
| General           | VOIP-100310 | 4.0.8            | New parameter <code>ptt.pageMode.group.x.allowReceive</code> was added to allow the phone to send a page to an unsubscribed group.   |
| General           | VOIP-97556  | 4.0.7            | An issue was resolved that caused the Polycom® SoundStation® IP 7000 conference phone to send incorrect information about the software version running on the system. The correct information can be viewed on Polycom® RealPresence® Group Series systems running software versions 5.x and higher. |
| General           | VOIP-97556  | 4.0.7            | A problem with handling the MWI NOTIFY message has been resolved.  |
| User Interface    | VOIP-98141  | 4.0.8            | When you do a quick search in the Genband GAB, the Submit soft key does not display correctly.   |

**Polycom UC Software 4.0.9 Resolved Issues**

| Category           | Issue No.   | Found in Release | Description   |
|--------------------|-------------|------------------|---|
| User Interface     | VOIP-100146 | 4.0.8            | A problem was resolved that caused SoundPoint systems to display soft keys incorrectly when the flexible line key feature is enabled. |
| VOIPUser Interface | VOIP-98086  | 4.0.8            | When you edit a directory entry and save changes, the Save soft key now clears the screen correctly.                                  |

## Configuration File Enhancements

The following table includes configuration file enhancements for this release.

**Polycom UC Software 4.0.9 Configuration File Enhancements**

| Parameter  | Permitted Values | Default |
|--|------------------|---------|
| <code>ptt.channel.x.allowReceive</code>  | 0 to 1           | 1       |
| If 0, disables receiving PTT calls on the specified channel. If 1, allows receiving PTT calls on the specified channel.                        |                  |         |
| <code>device.net.lldpCapabilitiesRequired.set</code>   | 0 to 1           | 0       |
| If 0, the phone ignores LLDP packets with System Capabilities as 0x0000. If 1, the phone uses LLDP packets with System Capabilities as 0x0000. |                  |         |
| <code>ptt.pageMode.group.x.allowReceive</code>   | 0 to 1           | 1       |
| If 0, disables receiving page calls on the specified group. If 1, allows receiving page calls on the specified group.                          |                  |         |

## Updates to Polycom UC Software 4.0.8

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.8 beside their respective Polycom tracking identification numbers.

## New or Enhanced Features

The version 4.0.8 software version includes the features and functionality of 4.0.7, with the following additions.

- You can now configure Exchange Calendar alert tones on Polycom® VVX® business media phones. (VOIP-96381)  
Administrators can customize Exchange Calendar alert tones using configuration files only. The parameter `exchange.meeting.reminderType` is an existing parameter that has been updated for the new customization functionality. (Related to VOIP-96381)
- You can now configure the Message Waiting Indicator (MWI) alert tone. (VOIP-94741)  
Administrators can customize MWI tones using configuration files only. The parameter `mwi.reminder.enable` is a new parameter that has been added.



- You can now configure whether applications can use the SSLv3 or SSLv2 protocols. (VOIP-97280)  
Administrators can customize use of these protocols using the parameter `device.sec.TLS.SSLv2v3.enabled`, a new parameter added with this release.

## Configuration File Enhancements

Refer to the following table for a list of all enhancements made to Polycom UC software 4.0.8 configuration file parameters.

### Polycom UC Software 4.0.8 Configuration File Enhancements

| Parameter   | Permitted Values | Default |
|---|------------------|---------|
| <code>call.advancedMissedCalls.addToMissedList</code>   | 0 or 1           | 0       |
| <p>If 1, remotely handled calls are logged as missed calls.<br/>The parameter <code>call.advancedMissedCalls.enabled</code> must also be set to 1.<br/>The parameter <code>call.advancedMissedCalls.addToReceivedList</code> is ignored.<br/>If 0, remotely handled calls are not logged as missed calls.</p> |                  |         |
| <code>call.doNotPlayLocalOnProvisionResponseSdp</code>  | 0 or 1           | 0       |
| <p>If 1, the local ringback tone does not play after 183 with SDP.<br/>If 0, the local ringback tone plays immediately after 183 with or without SDP.</p>   |                  |         |
| <code>device.sec.TLS.SSLv2v3.enabled</code>   | 0 or 1           | 0       |
| <p>If 1, applications can use SSLv3 (or SSLv2) protocol.<br/>Note that some applications disable both SSLv2 and SSLv3, regardless of this setting.<br/>If 0, applications cannot use SSLv3 (or SSLv2) protocol.</p>   |                  |         |
| <code>exchange.meeting.reminderType</code>  | 0 - 2            | 2       |
| <p>If 2, all calendar reminders are audible and visual.<br/>If 1, the first reminder is audible, followed by silent visual reminders<br/>If 0, all reminders are silent visual reminders</p>  |                  |         |
| <code>mwi.reminder.enable</code>  | 0 or 1           | 0       |
| <p>If 1, a Message Waiting Indicator (MWI) tone plays each time the phone receives an MWI update.<br/>If 0, no MWI tone is played.</p>  |                  |         |
| <code>tcpIpApp.keepalive.tcp.sip.persistentConnection.enable</code>   | 0 or 1           | 0       |
| <p>If 0, the TCP Socket connection is closed after 1 minute. When the phone sends a new SIP message, a new connection is opened.<br/>If 1, the TCP Socket connection remains open indefinitely.</p>   |                  |         |
| <code>voIpProt.offerFullCodecListUponResume</code>  | 0 or 1           | 1       |

### Polycom UC Software 4.0.8 Configuration File Enhancements

| Parameter | Permitted Values  | Default |
|-----------|---|---------|
|           | If 1, the phone offers the full codec list in the resume offer.<br>If 0, the phone does not send the full codec list in the resume offer. |         |

## Documentation Corrections

This section includes updates to correct errors inadvertently included in the *UC Software Administrator Guide 4.0.5*. You can find this guide at [support.polycom.com](http://support.polycom.com).

## Omitted Parameter

The following parameter was omitted from the previous version of the *UC Software Administrator Guide*.

| Parameter                                      | Permitted Value            | Default | Description  |
|--|----------------------------|---------|--|
| <code>tcpIpApp.snmp.retry<br/>DnsPeriod</code> | 60 – 2147483647<br>seconds | 86400   | Sets a retry period for DNS queries. Note that the DNS retry period you configure is affected by other DNS queries made by the phone. If the phone makes a query for another service such as SIP registration during the configured retry period but receives no response, the Network Time Protocol (NTP) DNS query is omitted to limit the overall number of retry attempts made to the unresponsive server. If no other DNS attempts are made by other services, then the retry period you configure is not affected. If at any time the DNS server becomes responsive to another service, then NTP also immediately retries its DNS query as well. |

## Incorrect Default Values Listed for <device/> Parameters

The default values of the <device/> parameters vary according to the region to which the phone is shipped. The *UC Software Administrator Guide 4.0.5* incorrectly lists the default values for the <device/> parameters as “null”. Instead, the document should not list default values for the <device/> parameters. (VOIP-95919, VESC-4789)

## Updates to Polycom UC Software 4.0.7

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.7 beside their respective Polycom tracking identification number.

## New or Enhanced Features

There are no new or enhanced features for this release.

## Configuration File Enhancements

Refer to the following table for a list of all enhancements made to Polycom UC software 4.0.7 configuration file parameters.

| Parameter  | Permitted Value    | Default | Description  |
|--|--------------------|---------|--|
| <code>tcpIpApp.snmp.retry</code><br><code>DnsPeriod</code> | 60 – 86400 seconds | 60      | Set a retry period for DNS queries. Note that the DNS retry period you configure is affected by other DNS queries made by the phone. If the phone makes a query for another service such as SIP registration during the retry period you configure and receives no response, the Network Time Protocol (NTP) DNS query is omitted to limit the overall number of retry attempts made to the unresponsive server. If no other DNS attempts are made by other services, then the retry period you configure is not affected. If at any time the DNS server becomes responsive to another service, then NTP also immediately retries its DNS query as well. |

## Updates to Polycom UC Software 4.0.6

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.6 beside their respective Polycom tracking identification number.

### New or Enhanced Features

**87581/91102** Added support for the improved touchscreen driver (*applies to Polycom® VVX® 500 business media phone*).

### Configuration File Enhancements

There are no changes to the configuration file parameters.

## Updates to Polycom UC Software 4.0.5

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.5 beside their respective Polycom tracking identification number.

## New or Enhanced Features

**83102** Added support for Multiple Appearance Directory Number-Single Call Appearance (MADN-SCA) for Shared Line Appearance Scenarios.

**87263/72669** Added support for Global Address Book (GAB).

**87264** Added support for Personal Address Book (PAB).

**87029/88933** The Message Waiting Indicator (MWI) LED light no longer blinks when the phone is in power-saving mode and has not received any new messages.

## Configuration File Enhancements

Refer to the following table for a list of all enhancements made to Polycom UC software 4.0.5 configuration file parameters.

### Polycom UC Software 4.0.5 Configuration File Enhancements

| Parameter  | Permitted Value                     | Default  | Description   |
|--|-------------------------------------|----------|---|
| Feature.corporateDirectory.enabled                 | 0 or 1                              | 0        | Enables the GAB functionality.  |
| Sec.TLS.SOPI.strictCertCommonNameValidation        | 0 or 1                              | 1        | Determines certification validation. When set to 0, there is no certification validation needed and any certification is accepted and trusted.                  |
| reg.x.bargeInEnabled                               | Maximum line number registered      | 0        | Determines whether a user can barge in on an active call.   |
| sec.TLS.SOPI.cipherList                            | String (max of 1024 characters)     | NoCipher | Defines the cipher list for SOPI transactions.  |
| dir.local.serverFeatureControl.method              | GENBANDSOPI                         | <Blank>  | Sets GENBANDSOPI to synchronize to the server. If this is not set, no synchronization is done and the standard contact directory is used.                       |
| dir.local.genbandgenbandl.serverFeatureControl.reg | 1 to Maximum line number registered | 1        | Determines the line that is used to obtain PAB information. Does not change how numbers are dialed. Does not require a reboot –automatically updates at runtime |
| msg.mwi.x.led                                      | 0 or 1                              | 1        | Enables and disables the LED Message Waiting Indicator on receiving a new message   |
| mwi.backLight.disable                              | 0 or 1                              | 0        | If set to 1, disables backlight on new voice message arrival.   |

### Polycom UC Software 4.0.5 Configuration File Enhancements

| Parameter                         | Permitted Value  | Default          | Description  |
|-----------------------------------|--|------------------|--|
| reg.l.server.l.s<br>pecialInterop | GENBAND  | standard         | Required to enable MADN-SCA on GENBAND.                      |
| sec.TLS.profileS<br>election.SOPI | PlatformProfile<br>1,<br>PlatformProfile<br>2<br>ApplicationPro<br>file1 to<br>ApplicationPro<br>file7 | PlatformProfile1 | Defines the certificates to be used for SOPI authentication. |

Note: Also refer to configuration parameter changes in Polycom UC software 4.0.4, 4.0.3 Rev F, 4.0.2 Rev B and 4.0.2.

## Updates to Polycom UC Software 4.0.4

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.4 beside their respective Polycom tracking identification number.

### New or Enhanced Features

**35157** Added ability to dial '+' character by pressing '\*' twice for international dialing.

**51255** Added SDP negotiation of "a=rtcp-fb" for RTCP Feedback Messages to request I-Frames.

**72440** Added support for MS 2008 Radius Server.

**76188** Added ability to process DTMF entry during early media.

**78976** Added support for early media followed by local ring back.

### Configuration File Enhancements

Refer to the following table for a list of all enhancements made to the Polycom UC software 4.0.4 configuration file parameters.

#### Polycom UC Software 4.0.4 Configuration File Enhancements

| File    | Modification | Parameter                         | Default | Permitted Values |
|---------|--------------|-----------------------------------|---------|------------------|
| feature | Added        | reg.X.teluri                      | 0       | 0 or 1           |
| feature | Added        | voIpProt.SIP.supportFor100r<br>el | 1       | 0 or 1           |
| feature | Added        | video.dynamicControlMethod        | 0       | 0 or 1           |

**Polycom UC Software 4.0.4 Configuration File Enhancements**

| File    | Modification | Parameter                                     | Default       | Permitted Values |
|---------|--------------|---|---------------|------------------|
| feature | Added        | video.forceRtcpVideoCodecControl              | 0             | 0 or 1           |
| feature | Added        | voIpProt.SIP.useLocalTargetUriForLegacyPickup | 0             | 0 or 1           |
| feature | Added        | reg.l.useLocalTargetUriForLegacyPickup        | 0             | 0 or 1           |
| feature | Added        | voIpProt.SIP.fmtmpMustForG7221                | 0             | 0 or 1           |
| feature | Added        | voIpProt.SDP.offer.rtcpVideoCodecControl      | 0             | 0 or 1           |
| feature | Added        | tcpIpApp.snmp.Aquery                          | 0             | 0 or 1           |
| feature | Added        | lcl.datetime.date.dateTop                     | 1*            | 0 or 1           |
| feature | Added        | lcl.ml.lang.clock.X.dateTop                   | 1*            | 0 or 1           |
| feature | Added        | pstn.fxsType                                  | CO            | 0 to 256         |
| feature | Added        | dialplan.digitmap.timeOut                     | 3 3 3 3 3 3 3 | 0 to 768         |

**Updates to Polycom UC Software 4.0.3 Rev B**

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.3 Rev B beside their respective Polycom tracking identification number.



Polycom is releasing UC software 4.0.3. Rev B for AT&T only. Please refer to [Updates to Previous Software Releases](#) for all available software features and updates.

**New or Enhanced Features**

There are no new changes or enhanced features from previous software versions.

**Updates to Polycom UC Software 4.0.3 Rev F**

This section lists all changes, additions, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.3 Rev F beside their respective Polycom tracking identification number.



If you are currently using Polycom UC software 4.0.3 (build ID 4.0.3.7314), upgrade to Polycom UC software 4.0.3 Rev F (build ID 4.0.3.7562).

## New or Enhanced Features

There are no new or enhanced features from previous software versions.

## Configuration File Enhancements

There are no changes to the configuration file parameters.

## Updates to Polycom UC Software 4.0.3

This section lists all changes, additions, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.3 beside their respective Polycom tracking identification number.



Polycom UC software 4.0.3 is a limited release that was distributed only to select partners and customers. The build ID for this release was 4.0.3.7314.

## New or Enhanced Features

**78271** Added support for tel URI in the P-Preferred-Identity header of INVITE messages.

**79601/79006/79007** Added support to allow only RFC3264 type SDP media negotiation.

## Configuration File Enhancements

Refer to the following table for a list of all enhancements made to the Polycom UC software 4.0.3 configuration file parameters.

**Polycom UC Software 4.0.3 Configuration File Enhancements**

| File    | Modification | Parameter                       | Modification Description   |
|---------|--------------|---------------------------------|--|
| feature | Added        | voIpProt.SIP.useRFC3264HoldOnly | 1 Phone always uses RFC3264 during hold<br>0 Phone uses RFC2543 during hold based on the response from far end (default) |

Note: Also refer to configuration parameter changes in Polycom UC software 4.0.2 Rev B and 4.0.2.

## Updates to Polycom UC Software 4.0.2 Rev B

This section lists additions and changes, removals, enhancements, and configuration file parameter changes to the Polycom UC software 4.0.2 Rev B beside their respective Polycom tracking identification number.

## New or Enhanced Features

**72403** Added support for DHCP renews after loss and recovery of Wi-Fi LAN connection (*applies to SpectraLink 8400*).

**76730** Enhanced the digitmap by removing the prepending '+' to the outbound calls and giving the option of configuring the "+" in the dial plan (applies to Lync mode only). Note: For more information on digitmap, refer to the Microsoft Lync Interoperability section.

**77038** Added support for early media followed by local ring back.

## Configuration File Enhancements

Refer to the following table for a list of all enhancements made to the Polycom UC software 4.0.2 Rev B configuration file parameters.

| File     | Modification | Parameter                         | Modification Description  |
|----------|--------------|-----------------------------------|---|
| Wireless | Added        | device.dhcp.releaseOnLinkRecovery | 1 Phone performs a DHCP release on network link recovery (default)<br>0 Phone does not perform a DHCP release on network link |

Note: Also refer to configuration parameter changes in Polycom UC software 4.0.2.

## Updates to Polycom UC Software 4.0.2

Polycom distributed UC software 4.0.2 to select partners and customers. It was shipped with Polycom® SoundStation® Duo conference phone. The build-ID for this release was UC software 4.0.2.8017.

## New or Enhanced Features

**40451/75448** Added support for XT9 PinYin input for Chinese characters (*applies to Polycom® VVX® 1500 business media phone*).

**52485/66494** Added support for BroadSoft Hoteling Event Package.

**57167/66494/76023** Added support for BroadSoft Call Center Status Event Package.

**54576** Added support for the new SpectraLink 8452 Wi-Fi handset with 2D barcode reader.



## Configuration File Enhancements

Refer to the following table for a list of new parameters. Note that these configuration parameters are detailed in *Using Premium Automatic Call Distribution for Call Centers (FP 76179)*, which will be made available on [Polycom Profiled UC Software Features](#).

### Polycom UC Software 4.0.2 Configuration File Enhancements

| File     | Modification | Parameter                        | Modification Description                             |
|----------|--------------|----------------------------------|--|
| feature  | Added        | feature.callCenterStatus.enabled | Call feature parameter                               |
| feature  | Added        | feature.hoteling.enabled         | Call feature parameter                               |
| feature  | Added        | hoteling.reg                     | Call feature parameters                              |
| wireless | Added        | barcode.X.Y                      | Parameters used to configure the 2D barcode scanner* |

\*For a detailed description of new parameters specific to the SpectraLink 8400 product family, their properties and values, refer to the Polycom SpectraLink 8400 Series Wireless Telephone Deployment Guide.

## Understanding Updates to Polycom UC Software 4.0.1B

There are no functional differences between Polycom UC software 4.0.1B and Polycom UC software 4.0.1. Polycom UC software 4.0.1B was released to include the Polycom® VVX® 500 business media phone and SoundStructure VoIP Interface sip.ld files in the software release package.

## Updates to Polycom UC Software 4.0.1

This section lists additions and changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.1 beside their respective Polycom tracking identification number.

### New or Enhanced Features

**48734** In a server-based, centralized conference, the phone can now send parallel REFERs without waiting for a 202 Accepted.

**67081/70634** Added support for phones to interoperate with a limited set of Microsoft® Lync™ server features (*applies to Polycom® SoundPoint® IP 321, 331, 335, 450, 550, 560, 650, and 670 conference phones; Polycom® VVX® 500 and 1500 business media phones; Polycom® SoundStation® IP 5000 conference phone; Polycom® SoundStation® Duo conference phone; and SpectraLink 84xx*).

**67090** Syslog now includes the ability to identify multiple audio streams (*applies to SpectraLink 84xx*).

**67594** Added interoperability between the Message Waiting Indicator (MWI) and Microsoft Lync.

**68500** The SpectraLink 84xx handsets now display the X-Loader version information in the Phone menu (Menu > Settings > Status > Platform > Phone).

**68602** Added support for SS RTP.

**68798** Added support for Microsoft SRTP extensions.

**69962/70924** Added Microsoft OCS/Lync Presence functionality to phones (*applies to Polycom SoundPoint IP 321, 331, 335, 450, 550, 560, 650, and 670 conference phones; Polycom VVX 500 and 1500 business media phones; Polycom SoundStation IP 5000 conference phone; Polycom SoundStation Duo conference phone; and SpectraLink 84xx*).

**70122** Phones now display the Away presence status after a period of user inactivity specified by the following parameters: `pres.idleTimeout.offHours.period`, `pres.idleTimeout.officeHours.period`, `pres.idleTimeout.offHours.enabled`, and `pres.idleTimeout.officeHours.enabled`.

**70232** Added a parameter `call.transfer.blindPreferred` to control whether the Transfer soft key on the SpectraLink 84xx should be a consultative transfer or blind transfer.

**70614** Added support for Microsoft 2008 Radius (802.1X).

**71025** Added new per-registration configuration options for several SRTP parameters: `reg.x.srtp.enable`, `reg.x.srtp.offer`, `reg.x.srtp.require`.

**71183** Added missing barcode symbologies (*applies to SpectraLink 84xx*).

**71198** Added an option in the Web Configuration Utility for SIP and Provisioning TLS applications to make the Common Name of Subject test configurable.

**71424** Updated the presence icon on the phones to be consistent with the Microsoft Lync/OCS style (*applies to SpectraLink 84xx*).

**71439** Not including the parameter `oai.userID` in the configuration file or setting the value to NULL both result in the phone using its MAC address to check in into the OAI server (*applies to SpectraLink 84xx*).

**71660** Enhanced the Reset to Default option in the Updater to match the option in the application software.

**71774** The call forward status on the status bar now displays when Forward – No Answer or Forward – Busy is enabled (*applies to SpectraLink 84xx*).

**71997** Added full support for RFC2782 (DNS load balancing).

**72074** In the Web Configuration Utility, the Country Code field has been renamed to Regulatory Domain (*applies to SpectraLink 84xx*).

**72193** In the phone menu, the Country Code field has been renamed to Regulatory Domain (*applies to SpectraLink 84xx*).

**72279** Enabled an EFK to allow a user to invoke the Call Back feature while on hook (*applies to Polycom® VVX® 1500 business media phone*).

**72304** The default value for the configuration parameter `up.useDirectoryNames` is now 1 (enabled).

**72310/7412** The SpectraLink series handsets can now display the BootL1 version information in Phone menu (Menu > Status > Platform > Phone).

**72319** The phone displays a warning icon when the WLAN Network Manager detects an invalid Regulatory Domain request (*applies to SpectraLink 84xx*).

**72320** The phone displays a warning triangle when the WLAN Network Manager detects an invalid Regulatory Domain limit setting (*applies to SpectraLink 84xx*).

**72367** The phone automatically publishes an Inactive (Idle) presence status after 5 minutes of user inactivity.

**72554** Added the ability to configure the `pres.idleTimeout` parameters through the phone menus.

**72555** Added the ability to configure the `pres.idleTimeout` parameters through the Web Configuration Utility.

**72654** The Exchange Calendaring feature on the SpectraLink handsets has been improved with the following enhancements:

The Calendar icon is shown in the main menu once the calendar is authorized.

The phone displays a Calendar: synchronizing scrolling message in the status bar.

**72791** The microbrowser on the Polycom SoundPoint IP conference phones has been functionally improved with the following enhancements:

The audio tag element will inject a Play soft key when in focus.

The user can now specify additional attributes to the audio tag which will be interpreted as a soft key, thus allowing the user to do things such as a Details soft key.

The audio tag will have a descriptive label which will be used as the button label for the audio element in the page. This enables each audio tag to be rendered as a single element in the page with an icon and a descriptive text. The user no longer needs to switch to the text to see the details.

The descriptive label will also be used for the title of the playback screen.

**72823** In the media player, the Exit soft key has been renamed to Back.

**72824** Playback automatically starts when selecting an audio element from the browser.

**73420** When the phone language is set to Japanese, the phone now uses the English AM/PM string for the time/date display (*applies to all Polycom SoundPoint IP conference phone, all Polycom SoundStation IP conference phone, and Polycom SoundStation Duo conference phone*).

**73500** The 'Connect/disconnect from the server' option has been moved to the Calendar menu (Features > Calendar) in the SpectraLink 84xx handsets.

**73510** The Web Configuration Utility language now supports multiple default language labels and help text in English, with the option to add/access other languages.

**73669** Updated the 2048-bit Trusted CA Root Certificate List from VeriSign.

**73670** Added new VeriSign Intermediate CA certificates.

**73671** Added RSA 2048 V3 Root Certificate to Root Store to all phones.

**73805** The phone can now display up to 4 Chinese characters in the soft keys (*applies to Polycom SoundPoint IP 450 conference phone*).

**73907/74289** Added the ability to automatically upgrade the BootL1 and BootBlock (*applies to SpectraLink 84xx*).

**74247** In the Web Configuration Utility, the default available utility languages depend on the platform.

**74417** The Updater (BootROM) now supports Basic Authentication with HTTP/HTTPS.

**75308** Added the ability to upload encrypted call lists to the provisioning server (*applies to SpectraLink 84xx*).

**75469** The volume of PTT audio has been increased and setting the parameter `voice.handsfree.rxag.SL8440=10`, then updating the phone using Update Configuration does not cause the phone to restart (*applies to SpectraLink 84xx*).

## Configuration File Enhancements

Refer to [Polycom UC Software 4.0.1 Configuration File Enhancements](#) table for a list of enhancements made to the Polycom UC software 4.0.1 configuration file parameters.



The following table includes parameters modified in Polycom UC software 4.0.1. You can find detailed descriptions of the parameters and their values in the [Polycom UC Software 4.0.1 Administrators' Guide](#).

### Polycom UC Software 4.0.1 Configuration File Enhancements

| File               | Modification | Parameter  | Modification Description        |
|--------------------|--------------|--|---------------------------------|
| sip-interop        | Added        | <code>call.transfer.blindPreferred</code>  | Call feature parameter          |
| debug              | Added        | <code>feature.lyncDebug</code>   | Call feature parameter          |
| site               | Added        | <code>reg.x.srtp.enable</code><br><code>reg.x.srtp.offer</code><br><code>reg.x.srtp.require</code> | Call feature parameters         |
| wireless           | Added        | <code>np.custom1.ringing.toneVolume.usbHeadset</code>  | Notification profiles parameter |
| wireless           | Added        | <code>np.meeting.ringing.toneVolume.usbHeadset</code>  | Notification profiles parameter |
| wireless           | Added        | <code>np.normal.ringing.toneVolume.usbHeadset</code>   | Notification profiles parameter |
| wireless           | Added        | <code>np.silent.ringing.toneVolume.usbHeadset</code>   | Notification profiles parameter |
| site               | Added        | <code>sec.encrypted.upload.callLists</code>  | Security parameter              |
| sip-interop        | Added        | <code>sec.srtp.mki.length</code>   | Security parameter              |
| sip-interop        | Added        | <code>sec.srtp.padRtpToFourByteAlignment</code>  | Security parameter              |
| reg-advanced, site | Added        | <code>up.headset.phoneVolumeControl</code>   | User preferences parameter      |
| debug              | Added        | <code>up.headset.AlwaysUseIntrinsicRinger</code>   | User preferences parameter      |
| reg-advanced, site | Added        | <code>up.idleStateView</code>  | User preferences parameter      |
| video              | Added        | <code>video.iFrame.delay</code>  | Video parameter                 |

**Polycom UC Software 4.0.1 Configuration File Enhancements**

| File               | Modification | Parameter   | Modification Description   |
|--------------------|--------------|---|--|
| debug              | Added        | video.iFrame.period   | Video parameter  |
| techsupport        | Added        | voice.usb.headset.rxdg  | Audio parameter  |
| techsupport        | Added        | voice.usb.headset.txdg  | Audio parameter  |
| site               | Added        | voice.volume.persist.usbHeadset                                   | Audio parameter  |
| sip-interop        | Added        | voIpProt.SIP.conference.parallelRefer                             | Call feature parameter   |
| site               | Added        | webutility.language.plcmServerUrl                                 | Web Configuration Utility parameter  |
| techsupport        | Removed      | voice.gain.rx.digital.headset.IP_330                              | Audio parameter  |
| techsupport        | Removed      | voice.gain.rx.digital.headset.IP_335                              | Audio parameter  |
| site               | Changed      | dns.cache.NAPTR.x.ttl<br>dns.cache.SRV.x.ttl<br>dns.cache.A.x.ttl | The maximum value increased from 65535 to 2147483647.                                    |
| reg-advanced, site | Changed      | up.useDirectoryNames  | The default value changed from 0 (disabled) to 1 (enabled).                              |
| pstn               | Changed      | up.operMode   | The default value changed from 0 to auto.  |
| techsupport        | Changed      | voice.headset.rxag.adjust.IP_335                                  | The default value changed from -11 to 4 and the maximum value changed from -11 to 90.    |
| techsupport        | Changed      | voice.headset.rxag.adjust.IP_330                                  | The default value changed from -5 to 4 and the maximum value changed from -5 back to 90. |
| sip-interop        | Changed      | VoIpProt.SIP.failoverOn503Response                                | The default value changed from 1 (enabled) to 0 (disabled).                              |

**Updates to Polycom UC Software 4.0.0**

This section lists additions and changes, removals, enhancements, and configuration file parameter changes to Polycom UC software 4.0.0 beside their respective Polycom tracking identification number.

## New or Enhanced Features

**26549** Enhanced the local missed call feature for shared line appearances. This feature supports RFC 3326 Reason Header.

**28514** Enhanced the method of selecting a ring type on the menu screen.

**29056** Enhanced the method of notifying the user of unregistered lines.

**30251** Added support for non-volatile call lists (*applies to SpectraLink 84xx*).

**30887** Added support for 802.1X authentication. Authentication methods include MD-5, EAP-PEAP, EAP-FAST, EAP-TLS, and EAP-TTLS.

**32169** The user is now notified with a confirmation when deleting contact information.

**33546** Added a host name field to the DHCP registration.

**35170** Added support for User Profiles. Users may log into and out of the phone using a server-independent, configuration file-based, authentication method. When successfully authenticated, the user's personal configuration files are applied as well as the user's personal local contact directory and call lists.

**35171** Updated most configuration parameters to be updated without the need of a reboot. Only a select number of configuration parameters require a reboot in order to be invoked.

**36166** Added the option for the user to allow ringer volume levels to persist after the phone reboots.

**38201** The Web-based configuration utility no longer requires the user to submit changes along with a reboot after each page has been modified.

**41429** Added the ability in the microbrowser to manage allowable characters into the input field.

**41430** Added the ability in the microbrowser for the user to select an item from a list using the dial pad.

**44258** Enhanced the API by enhancing the HTTP Push capability by supporting mutual TLS.

**44699** Added a Reset to Factory capability.

**45777** Added user accessible diagnostic functions ping and traceroute.

**47730** The scrolling status bar has been enhanced. The time between scrolled lines has been increased (*applies to Polycom® SoundPoint® IP 3XX conference phone*).

**47766** The Trusted CA Pool Management capability has been enhanced. The number of supported customer certificates has been increased to six.

**48714** Added ability for the phone to mute the microphone when auto-answering a call.

**48750** The Web-based configuration utility now enables the user to configure outbound proxies on a per line basis.

**48757** Contacts added to the list are now highlighted and displayed without the need to scroll up or down to view the addition.

**50258** Enhanced the method of notifying the user of error and warning indications.

**51101** Added the ability to use an Emergency Location Identification Number (ELIN) from LLDP-MED to add a P-Asserted-Identity when using emergency routing:

```
dialplan.routing.emergency.preferredSource=[ELIN|Config] (default ELIN)
dialplan.routing.emergency.outboundIdentity=xxxxxxx (default null)
dialplan.routing.emergency.outboundIdentity.lldp=xxxxxxx (default null).
```

- 51471** Added a configuration option to disable the test of subject's CommonName against the registration address (associated with CA management).
- 52844** Added certificate validation for 802.1X.
- 53128** Added a configuration option to modify the Backlight timeout duration.
- 53360** Added the ability to display the phone's current ARP table in the diagnostic menu (*applies to SpectraLink 84xx*).
- 53908** The web-based configuration utility now offers the ability to configure soft keys and line keys.
- 54301** The timestamp is now displayed alongside the caller in the Call Lists.
- 54648** Added HTTPS support in the Updater that was previously called BootROM.
- 54680** Introduced the ability to import and export local and global configuration files using a PC browser.
- 54683** The browser-based SW Upgrade button that enables user to upgrade phones with one of multiple compatible software versions is available on the Polycom provisioning server.
- 54730** Noticeable enhancement from the time the phone is powered up and when it is ready for use.
- 56150** Added Data Link Layer L2 Discovery between phones and PC.
- 56187** Added ToID and FromID in SIP Publish packets for VQMon reports.
- 56274** Added multicast group paging based on the SpectraLink PTT solution.
- 56942** Configuring Soft key (EFK) settings no longer require a reboot in order to take effect.
- 57392** Added support to the microbrowser for HTTP proxy authentication (*applies to SpectraLink 84xx*).
- 57981** Added support for custom device certificates.
- 58007** Added the ability to revoke certificates used in SSL transactions by using OCSP.
- 58336** Added SHOULD SDP answer behavior as per RFC 3264.
- 58507** Enhanced the Web-based configuration and provisioning utility.
- 60297** Added the ability of random distribution of polling to check for software upgrades.
- 60907** Added the ability to disable Call Waiting while still allowing further outgoing calls.
- 61051** Added the ability to display custom soft keys on input forms in the microbrowser.
- 61138** Added support for incoming TLS connections on the Web server.
- 61343** Added the ability to disable authentication verification for received SRTP packets.
- 62671** Added a time-stamped log event indicating when the phone is ready to be used.
- 63592** Added API calls to the microbrowser for Media Player.
- 63629** Added Sennheiser EHS configuration menus and options.
- 64144** The alerting LED and associated line-key animation for second and subsequent incoming calls are now disabled when the Call Waiting feature waiting is disabled.
- 64243** The API Data push message size limit has been increased to 2048 bytes from 1024 bytes.
- 64359** Converted the BLA dialog rendering from *No* to *Yes* for user agents that are a remote party to the existing call dialog.
- 65287** Added the ability to prevent a phone from being provisioned at start-up.  
Configuration parameter `prov.startupCheck.enabled` [default = 1 (enabled)]

**66212** Added support for setting the syslog server address from DHCP.

**66323** Added an administrator operations menu in the Updater to the setup menu: Reboot, Reset Settings, Format File System, and Install BootBlock.

**66604** The phone reports connectivity event notifications to an 802.1x enabled switch port when a non-authenticated PC disconnects or reconnects to the phone.

**67600** Password and other security entry fields now perform a brief echo of entered characters before being obscured from view.

**68110** Added control of available telephony features on the Office Communications Server (OCS) using the `reg.x.telephony` configuration parameter.

**68899** Added the ability on the microbrowser to enter two-digit dial pad values for selecting entries in a list.

**69225** Added the ability to allow a hard key to be directly assigned an Enhanced Feature Key (EFK) style macro.

**69442** Productivity features such as LDAP, Local Call Recording, and Visual Conference Management are enabled without the requirement of a license file. Note that VQMon will remain a licensable feature.

**71633** The Reset setting in the Updater menu does not erase the CA and Device Certificates.

## Configuration File Enhancements

Certain groups of configuration parameters have been modified in Polycom UC software 4.0.0. In these cases, instead of listing every parameter, the following table will specify a group of related parameters with an abbreviated XML path name ending with (.\*) .

For example, suppose the following parameters are modified: `device.wifi.enabled`, `device.wifi.ipAddress`, and `device.wifi.ssid`. Since these parameters all begin with `device.wifi`, [Polycom UC Software 4.0.0 Configuration File Enhancements](#) table abbreviates these parameters as `device.wifi.*`

Most device parameters have identical parameters ending with `.set`. The `.set` parameters are not included in the following table.



The following table includes parameters changed in Polycom UC software 4.0.0. You can find the new descriptions and values in the [Polycom UC Software Administrators Guide](#).

### Polycom UC Software 4.0.0 Configuration File Enhancements

| Modification | Configuration Parameter          | Description                         |
|--------------|----------------------------------|-------------------------------------|
| Discontinued | <code>apps.x.Label</code>        | Productivity Applications parameter |
| Discontinued | <code>apps.x.Url</code>          | Productivity Applications parameter |
| Discontinued | <code>apps.ucdesktop.IP</code>   | Productivity Applications parameter |
| Discontinued | <code>apps.ucdesktop.name</code> | Productivity Applications parameter |
| Discontinued | <code>apps.ucdesktop.port</code> | Productivity Applications parameter |



**Polycom UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter  | Description                         |
|--------------|--|-------------------------------------|
| Discontinued | device.auth.*<br>The parameters<br>device.auth.localAdminPassword and<br>device.auth.localUserPassword have not been removed | Provisioning parameters             |
| Discontinued | device.dhcp.offerTimeout   | Provisioning parameter              |
| Discontinued | device.prov.appProvString  | Provisioning parameter              |
| Discontinued | device.prof.appProvType  | Provisioning parameter              |
| Discontinued | device.sec.SSL.*   | Provisioning parameters             |
| Discontinued | device.sec.deviceCertEnabled   | Provisioning parameter              |
| Discontinued | exchange.server.address  | Productivity Applications parameter |
| Discontinued | httpd.lp.port  | Provisioning parameter              |
| Discontinued | lcl.datetime.date.digitFormatEnable  | User preference parameter           |
| Discontinued | log.level.change.lp  | Log parameter                       |
| Discontinued | log.level.change.nwmgr   | Log parameter                       |
| Discontinued | log.level.change.sync  | Log parameter                       |
| Discontinued | reg.x.filterReflectedBladialogs  | Call feature parameter              |
| Discontinued | reg.x.server.H323.y.register   | Call feature parameter              |
| Discontinued | sec.TLS.customDeviceCertificate  | Security parameter                  |
| Discontinued | sec.dot1x.eapollogoff.pfforcelanlinkreset  | Security parameter                  |
| Discontinued | voIpProt.SDP.useLegacyPayloadTypeNegotiation   | Call feature parameter              |
| Discontinued | voIpProt.server.H323.x.register  | Call feature parameter              |
| Discontinued | voice.aec.hd.*<br>The parameter voice.aec.hd.enable has not been removed   | Audio parameters                    |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>   | <b>Description</b>                  |
|---------------------|--|-------------------------------------|
| Discontinued        | voice.aec.hf.*<br>The parameter voice.aec.hf.enable has not been removed                           | Audio parameters                    |
| Discontinued        | voice.aec.hs.*<br>The parameter voice.aec.hs.enable has not been removed                           | Audio parameters                    |
| Discontinued        | voice.aes.hd.duplexBalance   | Audio parameter                     |
| Discontinued        | voice.aes.hf.*<br>The parameter voice.aes.hf.enable has not been removed                           | Audio parameters                    |
| Discontinued        | voice.aes.hs.duplexBalance   | Audio parameter                     |
| Discontinued        | voice.gain.rx.digital.ringer.*<br>The parameter voice.gain.rx.digital.ringer has also been removed | Audio parameters                    |
| Discontinued        | voice.handset.wideband   | Audio parameter                     |
| Discontinued        | voice.rxEq.hf.postFilter.*<br>The parameter voice.rxEq.hf.postFilter.enable has not been removed   | Audio parameters                    |
| Discontinued        | voice.rxEq.hf.preFilter.*<br>The parameter voice.rxEq.hf.preFilter.enable has not been removed     | Audio parameters                    |
| Discontinued        | voice.rxEq.hs.postFilter.*<br>The parameter voice.rxEq.hs.postFilter.enable has not been removed   | Audio parameters                    |
| Discontinued        | voice.rxEq.hs.preFilter.*<br>The parameter voice.rxEq.hs.preFilter.enable has not been removed     | Audio parameters                    |
| Added               | apps.x.label   | Productivity Applications parameter |
| Added               | apps.x.url   | Productivity Applications parameter |
| Added               | apps.push.secureTunnelEnabled  | Productivity Applications parameter |
| Added               | apps.push.secureTunnelPort   | Productivity Applications parameter |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter   | Description                          |
|--------------|---|--------------------------------------|
| Added        | apps.push.secureTunnelRequired  | Productivity Applications parameter  |
| Added        | apps.statePolling.responseMode  | Productivity Applications parameter  |
| Added        | apps.telNotification.callStateChangeEvent   | Productivity Applications parameter  |
| Added        | apps.telNotification.userLoggingInOutEvent  | Productivity Applications parameter  |
| Added        | apps.ucdesktop.*<br>The parameter<br>apps.ucdesktop.enabled has<br>existed in previous versions | Productivity Applications parameters |
| Added        | bg.color.*  | Background parameter                 |
| Added        | bluetooth.radioOn   | Call feature parameter               |
| Added        | call.advancedMissedCalls.*  | Call feature parameters              |
| Added        | call.callWaiting.enable   | Call feature parameter               |
| Added        | call.localConferenceEnabled   | Call feature parameter               |
| Added        | callLists.*   | Call feature parameters              |
| Added        | device.hostname   | Provisioning parameter               |
| Added        | device.net.dhcpBootServer   | Provisioning parameter               |
| Added        | device.net.dot1x.*  | Provisioning parameters              |
| Added        | device.pacfile.*  | Provisioning parameters              |
| Added        | device.prov.upgradeServer   | Provisioning parameter               |
| Added        | device.sec.TLS.*  | Provisioning parameters              |
| Added        | device.usbnet.*   | Provisioning parameters              |
| Added        | device.wifi.*   | Provisioning parameter               |
| Added        | dialplan.applyToPstnDialing   | Call feature parameter               |
| Added        | dialplan.routing.emergency.outboundIdentity   | Call feature parameter               |
| Added        | dialplan.routing.emergency.outboundIdentity.lldp  | Call feature parameter               |
| Added        | dialplan.routing.ermgency.pREFERREDSource   | Call feature parameter               |
| Added        | exchange.meeting.*  | Productivity Applications parameter  |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>   | <b>Description</b>                      |
|---------------------|--|---|
| Added               | <code>exchange.server.url</code>   | Productivity Applications parameter     |
| Added               | <code>feature.audioVideoToggle.enabled</code>  | Call feature parameter                  |
| Added               | <code>feature.bluetooth.enabled</code>   | Call feature parameter                  |
| Added               | <code>feature.enhancedCallDisplay.enabled</code>   | Call feature parameter                  |
| Added               | <code>feature.exchangeCalendar.enabled</code>  | Call feature parameter                  |
| Added               | <code>feature.nonVolatileRingerVolume.enabled</code>                                     | Call feature parameter                  |
| Added               | <code>httpd.cfg.secureTunnelEnabled</code>   | Web Configuration Utility parameter     |
| Added               | <code>httpd.cfg.secureTunnelPort</code>  | Web Configuration Utility parameter     |
| Added               | <code>httpd.cfg.secureTunnelRequired</code>  | Web Configuration Utility parameter     |
| Added               | <code>httpd.ta.secureTunnelEnabled</code>  | Web Configuration Utility parameter     |
| Added               | <code>httpd.ta.secureTunnelPort</code>   | Web Configuration Utility parameter     |
| Added               | <code>httpd.ta.secureTunnelRequired</code>   | Web Configuration Utility parameter     |
| Added               | <code>ind.pattern.blink.*</code>   | LED indicator parameter                 |
| Added               | <code>ind.pattern.flashSlow2.*</code>  | LED indicator parameter                 |
| Added               | <code>lcl.x.pstnCountry</code>   | Multilingual parameter                  |
| Added               | <code>lcl.aidt</code>  | Multilingual parameter                  |
| Added               | <code>lcl.callerId</code>  | Multilingual parameter                  |
| Added               | <code>lcl.callerIdType</code>  | Multilingual parameter                  |
| Added               | <code>lcl.country.*</code><br>The parameter <code>lcl.country</code> has also been added | Multilingual parameters                 |
| Added               | <code>lcl.dtmfLevel</code>   | Multilingual parameter                  |
| Added               | <code>lcl.dtmfTwist</code>   | Multilingual parameter                  |
| Added               | <code>lcl.flashTiming</code>   | Multilingual parameter                  |
| Added               | <code>lcl.pstnCountryIndex</code>  | Multilingual parameter                  |
| Added               | <code>lineKey.*</code>   | Flexible line key assignment parameters |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter   | Description                                       |
|--------------|---|---|
| Added        | log.level.change.barcd  | Log parameter                                     |
| Added        | log.level.change.bluet  | Log parameter                                     |
| Added        | log.level.change.clist  | Log parameter                                     |
| Added        | log.level.change.daa  | Log parameter                                     |
| Added        | log.level.change.dock   | Log parameter                                     |
| Added        | log.level.change.drvtb  | Log parameter                                     |
| Added        | log.level.change.oaip   | Log parameter                                     |
| Added        | log.level.change.ocsp   | Log parameter                                     |
| Added        | log.level.change.pdc  | Log parameter                                     |
| Added        | log.level.change.pres   | Log parameter                                     |
| Added        | log.level.change.pstn   | Log parameter                                     |
| Added        | log.level.change.ptt  | Log parameter                                     |
| Added        | log.level.change.rtls   | Log parameter                                     |
| Added        | log.level.change.tls  | Log parameter                                     |
| Added        | log.level.change.wifi   | Log parameter                                     |
| Added        | log.render.stdout.*<br>The parameter log.render.stdout has existed in previous versions                       | Log parameter                                     |
| Added        | mb.main.toolbar.autoHide.*<br>The parameter mb.main.toolbar.autoHide.enabled has existed in previous versions | Microbrowser parameters                           |
| Added        | messaging.*   | SpectraLink instant messaging parameters          |
| Added        | np.*  | SpectraLink notification profiles parameters      |
| Added        | oai.*   | SpectraLink Open Application Interface parameters |
| Added        | prov.login.*  | Distributed polling parameters                    |
| Added        | prov.loginCredPwdFlushed.enabled  | Distributed polling parameter                     |
| Added        | prov.polling.timeRandomEnd  | Distributed polling parameter                     |
| Added        | prov.startupCheck.enabled   | Provisioning parameter                            |
| Added        | pstn.*  |   |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter  | Description                                    |
|--------------|--|--|
| Added        | ptt.*  | Paging and push-to-talk parameters             |
| Added        | qbc.*  | SpectraLink quick barcode connector parameters |
| Added        | qos.ethernet.*<br>The parameters<br>qos.ethernet.callControl.us<br>er_priority,<br>qos.ethernet.other.user_pri<br>ority,<br>qos.ethernet.rtp.user_prior<br>ity, and<br>qos.ethernet.rtp.video.user<br>_priority exist in previous<br>versions. | SpectraLink QoS parameters                     |
| Added        | reg.x.auth.domain  | Call feature parameter                         |
| Added        | reg.x.auth.useLoginCredenti<br>als   | Call feature parameter                         |
| Added        | reg.x.gruu   | Call feature parameter                         |
| Added        | reg.x.server.y.specialInter<br>op  | Call feature parameter                         |
| Added        | reg.x.server.y.useOutboundP<br>roxy  | Call feature parameter                         |
| Added        | reg.x.srtp.enable  | Call feature parameter                         |
| Added        | reg.x.srtp.offer   | Call feature parameter                         |
| Added        | reg.x.srtp.require   | Call feature parameter                         |
| Added        | reg.x.telephony  | Call feature parameter                         |
| Added        | se.pat.misc.customX.*  | Sound effects parameters                       |
| Added        | se.pat.misc.miscX.*  | Sound effects parameters                       |
| Added        | se.rt.answerMute.*   | Sound effects parameters                       |
| Added        | se.rt.autoAnswer.micMute   | Sound effects parameter                        |
| Added        | se.rt.autoAnswer.videoMute   | Sound effects parameter                        |
| Added        | se.rt.customX.micMute  | Sound effects parameter                        |
| Added        | se.rt.customX.videoMute  | Sound effects parameter                        |
| Added        | se.rt.default.micMute  | Sound effects parameter                        |
| Added        | se.rt.default.videoMute  | Sound effects parameter                        |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>             | <b>Description</b>       |
|---------------------|--|--------------------------|
| Added               | se.rt.emergency.micMute                    | Sound effects parameter  |
| Added               | se.rt.emergency.videoMute                  | Sound effects parameter  |
| Added               | se.rt.external.micMute                     | Sound effects parameter  |
| Added               | se.rt.external.videoMute                   | Sound effects parameter  |
| Added               | se.rt.internal.micMute                     | Sound effects parameter  |
| Added               | se.rt.internal.videoMute                   | Sound effects parameter  |
| Added               | se.rt.precedence.micMute                   | Sound effects parameter  |
| Added               | se.rt.precedence.videoMute                 | Sound effects parameter  |
| Added               | se.rt.ringAnswerMute.*                     | Sound effects parameters |
| Added               | se.rt.splash.micMute                       | Sound effects parameter  |
| Added               | se.rt.splash.videoMute                     | Sound effects parameter  |
| Added               | se.rt.visual.micMute                       | Sound effects parameter  |
| Added               | se.rt.visual.videoMute                     | Sound effects parameter  |
| Added               | sec.TLS.SIP.strictCertCommonNameValidation | Security parameter       |
| Added               | sec.TLS.customCaCert.*                     | Security parameters      |
| Added               | sec.TLS.customDeviceCert.*                 | Security parameters      |
| Added               | sec.TLS.customDeviceKey.*                  | Security parameters      |
| Added               | sec.TLS.profile.*                          | Security parameters      |
| Added               | sec.TLS.profileSelection.*                 | Security parameters      |
| Added               | sec.hostMoveDetect.*                       | Security parameters      |
| Added               | sec.srtp.holdWithNewKey                    | Security parameter       |
| Added               | sec.srtp.mki.length                        | Security parameter       |
| Added               | sec.srtp.resumeWithNewKey                  | Security parameter       |
| Added               | softkey.x.insert                           | Security parameter       |
| Added               | tcpIpApp.fileTransfer.waitForLinkIfDown    | IP parameter             |
| Added               | tone.chord.misc.A3Major.*                  | Tone parameters          |
| Added               | tone.chord.misc.C3Major.*                  | Tone parameters          |
| Added               | tone.chord.misc.Db3Major.*                 | Tone parameters          |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter  | Description                |
|--------------|--|----------------------------|
| Added        | tone.chord.misc.E3Major.*  | Tone parameters            |
| Added        | tone.chord.misc.cs12.*   | Tone parameters            |
| Added        | up.25mmRealTime  | User preferences parameter |
| Added        | up.backlight.timeout.*<br>The parameter up.backlight.timeout has also been added | User preferences parameter |
| Added        | up.cfgWarningsEnabled  | User preferences parameter |
| Added        | up.displayOperMode   | User preferences parameter |
| Added        | up.headsetOnlyAlerting   | User preferences parameter |
| Added        | up.hearingAidCompatibility.enabled   | User preferences parameter |
| Added        | up.hideDateTimeWhenNotSet  | User preferences parameter |
| Added        | up.multiKeyAnswerEnabled   | User preferences parameter |
| Added        | up.operMode  | User preferences parameter |
| Added        | up.pstnSetup   | User preferences parameter |
| Added        | up.warningLevel  | User preferences parameter |
| Added        | upgrade.*  | Provisioning parameter     |
| Added        | video.callMode.default   | Video parameter            |
| Added        | video.debug  | Video parameter            |
| Added        | voIpProt.SIP.dialog.strictXLineId  | Call feature parameter     |
| Added        | voIpProt.SIP.IM.autoAnswerDelay  | Call feature parameter     |
| Added        | voIpProt.SIP.mtls.enable   | Call feature parameter     |
| Added        | voIpProt.SIP.pingMethod  | Call feature parameter     |
| Added        | voIpProt.server.x.specialInterop   | Call feature parameter     |
| Added        | voIpProt.server.x.useOutboundProxy   | Call feature parameter     |
| Added        | voice.aec.bt.hd.enable   | Audio parameter            |
| Added        | voice.aec.usb.hf.enable  | Audio parameter            |
| Added        | voice.aes.bt.hd.enable   | Audio parameter            |



**Polycom UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>         | <b>Description</b>                  |
|---------------------|--|-------------------------------------|
| Added               | voice.aes.usb.hf.enable                | Audio parameter                     |
| Added               | voice.agc.bt.hd.enable                 | Audio parameter                     |
| Added               | voice.agc.usb.hf.enable                | Audio parameter                     |
| Added               | voice.bt.*                             | Audio parameters                    |
| Added               | voice.handset.rxag                     | Audio parameter                     |
| Added               | voice.handset.rxdg                     | Audio parameter                     |
| Added               | voice.handset.st.                      | Audio parameter                     |
| Added               | voice.handset.txag                     | Audio parameter                     |
| Added               | voice.handset.txdg                     | Audio parameter                     |
| Added               | voice.handsfree.*                      | Audio parameters                    |
| Added               | voice.headset.rxag                     | Audio parameter                     |
| Added               | voice.headset.rxdg                     | Audio parameter                     |
| Added               | voice.headset.st                       | Audio parameter                     |
| Added               | voice.headset.txag                     | Audio parameter                     |
| Added               | voice.headset.txdg                     | Audio parameter                     |
| Added               | voice.ns.bt.*                          | Audio parameters                    |
| Added               | voice.ns.usb.*                         | Audio parameters                    |
| Added               | voice.ringer.rxag                      | Audio parameter                     |
| Added               | voice.rxEq.usb.*                       | Audio parameters                    |
| Added               | voice.rxQos.ptt.*                      | Audio parameters                    |
| Added               | voice.rxQos.wireless.*                 | Audio parameters                    |
| Added               | voice.txEq.usb.*                       | Audio parameters                    |
| Added               | voice.usb.*                            | Audio parameters                    |
| Added               | voice.volume.persist.bluetooth.headset | Audio parameter                     |
| Added               | voice.volume.persist.usb.handsfree     | Audio parameter                     |
| Added               | wifi.*                                 | Wi-Fi parameters                    |
| Changed             | apps.push.messageType                  | Productivity Applications parameter |
| Changed             | apps.uc.desktop.enabled                | Productivity Applications parameter |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>   | <b>Description</b>      |
|---------------------|--|-------------------------|
| Changed             | call.autoRouting.preferredProtocol   | Call feature parameter  |
| Changed             | device.auth.*  | Provisioning parameters |
| Changed             | device.cma.mode  | Provisioning parameter  |
| Changed             | device.dhcp.*<br>The parameter device.dhcp.bootSrvOpt has not been changed   | Provisioning parameters |
| Changed             | device.dns.*   | Provisioning parameters |
| Changed             | device.em.power  | Provisioning parameter  |
| Changed             | device.line.*  | Provisioning parameters |
| Changed             | device.net.*<br>The parameters device.net.dhcpBootServe, device.net.IPgateway, device.net.subnetMask, and device.net.vlanId have not been changed.   | Provisioning parameters |
| Changed             | device.ntlm.versionMode  | Provisioning parameter  |
| Changed             | device.prov.*<br>The parameters device.prov.password, device.prov.serverName, device.prov.upgradeServer, and device.prov.user have not been changed. | Provisioning parameters |
| Changed             | device.serial.enable   | Provisioning parameter  |
| Changed             | device.snmp.gmtOffset  | Provisioning parameter  |
| Changed             | device.syslog.*<br>The parameter device.syslog.serverName has not been changed.  | Provisioning parameters |
| Changed             | dialplan.x.digitmap  | Call feature parameter  |
| Changed             | dialplan.x.routing.server.y.transport  | Call feature parameter  |
| Changed             | dialplan.digitmap  | Call feature parameter  |
| Changed             | dialplan.digitmap.timeOut  | Call feature parameter  |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>      | <b>Description</b>      |
|---------------------|-------------------------------------|-------------------------|
| Changed             | dialplan.impossibleMatchHandling    | Call feature parameter  |
| Changed             | dialplan.removeEndOfDial            | Call feature parameter  |
| Changed             | dialplan.routing.server.x.transport | Call feature parameter  |
| Changed             | dir.H350.dev.attribute.x.type       | Directory parameter     |
| Changed             | dir.H350.dev.transport              | Directory parameter     |
| Changed             | dir.H350.group.attribute.x.type     | Directory parameter     |
| Changed             | dir.H350.group.transport            | Directory parameter     |
| Changed             | dir.H350.person.attribute.x.type    | Directory parameter     |
| Changed             | dir.H350.person.transport           | Directory parameter     |
| Changed             | dir.corp.attribute.x.type           | Directory parameter     |
| Changed             | dir.corp.transport                  | Directory parameter     |
| Changed             | dir.local.nonVolatile.maxSize       | Directory parameter     |
| Changed             | dir.local.volatile.maxSize          | Directory parameter     |
| Changed             | divert.x.autoOnSpecificCaller       | Call feature parameter  |
| Changed             | divert.x.contact                    | Call feature parameter  |
| Changed             | divert.x.sharedDisabled             | Call feature parameter  |
| Changed             | divert.busy.*                       | Call feature parameters |
| Changed             | divert.dnd.*                        | Call feature parameters |
| Changed             | divert.fwd.x.enabled                | Call feature parameter  |
| Changed             | divert.noanswer.*                   | Call feature parameters |
| Changed             | ind.led.x.index                     | LED indicator parameter |
| Changed             | keypadLock.*                        | Phone lock parameters   |
| Changed             | lcl.ml.lang.clock.x.format          | Multilingual parameter  |
| Changed             | lcl.ml.lang.list                    | Multilingual parameter  |
| Changed             | lcl.ml.lang.menu.*                  | Multilingual parameters |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter  | Description                   |
|--------------|--|-------------------------------|
| Changed      | lcl.ml.lang.tags.*   | Multilingual parameters       |
| Changed      | log.level.change.slog  | Log parameter                 |
| Changed      | log.render.file.size   | Log parameter                 |
| Changed      | log.render.file.upload.append.limitMode  | Log parameter                 |
| Changed      | log.render.file.upload.period  | Log parameter                 |
| Changed      | log.render.stdout  | Log parameter                 |
| Changed      | log.sched.*  | Log parameters                |
| Changed      | msg.bypassInstantMessage   | Voicemail parameter           |
| Changed      | nat.*<br>The parameter<br>nat.keepalive.interval has<br>not been changed.                                    | IP parameters                 |
| Changed      | phoneLock.enabled  | Phone lock parameter          |
| Changed      | pnet.remoteCall.dtmfDuration   | Peer networking parameter     |
| Changed      | powerSaving.enable   | Power saving parameter        |
| Changed      | prov.fileSystem.ffs0.minFreeSpace  | Provisioning parameter        |
| Changed      | prov.polling.mode  | Distributed polling parameter |
| Changed      | prov.polling.time  | Distributed polling parameter |
| Changed      | qos.ethernet.*   | Quality of Service parameters |
| Changed      | qos.ip.callControl.*<br>The parameters<br>qop.ip.callControl.dscp.*<br>have not been changed                 | Quality of Service parameters |
| Changed      | qos.ip.rtp.*<br>The parameters<br>qos.ip.rtp.dscp.* and<br>qos.ip.rtp.video.dscp.* have<br>not been changed. | Quality of Service parameters |
| Changed      | reg.x.callsPerLineKey  | Line registration parameter   |
| Changed      | reg.x.outboundProxy.transport  | Line registration parameter   |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>                       | <b>Description</b>                 |
|---------------------|--|------------------------------------|
| Changed             | <code>reg.x.ringType</code>                          | Line registration parameter        |
| Changed             | <code>reg.x.server.y.transport</code>                | Line registration parameter        |
| Changed             | <code>res.finder.minFree</code>                      | Phone memory parameter             |
| Changed             | <code>res.finder.sizeLimit</code>                    | Phone memory parameter             |
| Changed             | <code>res.quotas.background</code>                   | Phone memory parameter             |
| Changed             | <code>res.quotas.bitmap</code>                       | Phone memory parameter             |
| Changed             | <code>res.quotas.cache</code>                        | Phone memory parameter             |
| Changed             | <code>res.quotas.font</code>                         | Phone memory parameter             |
| Changed             | <code>res.quotas.tone</code>                         | Phone memory parameter             |
| Changed             | <code>res.quotas.xmlui</code>                        | Phone memory parameter             |
| Changed             | <code>roaming_buddies.reg</code>                     | SpectraLink call feature parameter |
| Changed             | <code>roaming_privacy.reg</code>                     | SpectraLink call feature parameter |
| Changed             | <code>se.destination</code>                          | Sound effects parameter            |
| Changed             | <code>se.pat.callProg.msgWaiting.name</code>         | Sound effects parameter            |
| Changed             | <code>se.pat.misc.instantMessage.name</code>         | Sound effects parameter            |
| Changed             | <code>se.pat.misc.localHoldNotification.name</code>  | Sound effects parameter            |
| Changed             | <code>se.pat.misc.messageWaiting.name</code>         | Sound effects parameter            |
| Changed             | <code>se.pat.misc.negativeConfirm.name</code>        | Sound effects parameter            |
| Changed             | <code>se.pat.misc.positiveConfirm.name</code>        | Sound effects parameter            |
| Changed             | <code>se.pat.misc.remoteHoldNotification.name</code> | Sound effects parameter            |
| Changed             | <code>se.pat.misc.welcome.name</code>                | Sound effects parameter            |
| Changed             | <code>sec.H235.*</code>                              | Sound effects parameters           |
| Changed             | <code>tcpIpApp.keepalive.*</code>                    | IP parameters                      |
| Changed             | <code>tcpIpApp.port.*</code>                         | IP parameters                      |
| Changed             | <code>up.25mm</code>                                 | User preferences parameter         |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>                  | <b>Description</b>         |
|---------------------|---|----------------------------|
| Changed             | up.analogHeadsetOption                          | User preferences parameter |
| Changed             | up.backlight.idleIntensity                      | User preferences parameter |
| Changed             | up.oneTouchVoiceMail                            | User preferences parameter |
| Changed             | up.useDirectoryNames                            | User preferences parameter |
| Changed             | up.welcomeSoundEnabled                          | User preferences parameter |
| Changed             | up.welcomeSoundOnWarmBootEnabled                | User preferences parameter |
| Changed             | video.camera.frameRate                          | Video parameter            |
| Changed             | video.localCameraView.fullScreen.mode           | Video parameter            |
| Changed             | video.maxCallRate                               | Video parameter            |
| Changed             | video.screenMode                                | Video parameter            |
| Changed             | video.screenModeFS                              | Video parameter            |
| Changed             | voIpProt.H323.dtmfViaSignaling                  | Call feature parameter     |
| Changed             | voIpProt.H323.enable                            | Call feature parameter     |
| Changed             | voIpProt.H323.local.port                        | Call feature parameter     |
| Changed             | voIpProt.SIP.local.port                         | Call feature parameter     |
| Changed             | voIpProt.SIP.outboundProxy.transport            | Call feature parameter     |
| Changed             | voIpProt.SIP.specialEvent.lineSeize.nonStandard | Call feature parameter     |
| Changed             | voIpProt.server.x.transport                     | Call feature parameter     |
| Changed             | voIpProt.server.dhcp.option                     | Call feature parameter     |
| Changed             | voice.audioProfile.Lin16.16ksp.payloadSize      | Audio parameter            |
| Changed             | voice.audioProfile.Lin16.32ksp.payloadSize      | Audio parameter            |
| Changed             | voice.audioProfile.Lin16.44_1ksp.payloadSize    | Audio parameter            |
| Changed             | voice.audioProfile.Lin16.48ksp.payloadSize      | Audio parameter            |
| Changed             | voice.audioProfile.Lin16.8ksp.payloadSize       | Audio parameter            |

**Polycom UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter   | Description      |
|--------------|---|------------------|
| Changed      | <code>voice.codecPref.iLBC.*</code>   | Audio parameters |
| Changed      | <code>voice.gain.rx.analog.*</code>   | Audio parameters |
| Changed      | <code>voice.gain.rx.digital.*</code>  | Audio parameters |
| Changed      | <code>voice.gain.tx.analog.*</code>   | Audio parameters |
| Changed      | <code>voice.gain.tx.digital.*</code>  | Audio parameters |
| Changed      | <code>voice.handset.rxag.adjust.*</code>  | Audio parameters |
| Changed      | <code>voice.handset.sidetone.adjust.*</code>  | Audio parameters |
| Changed      | <code>voice.handset.txag.adjust.*</code>  | Audio parameters |
| Changed      | <code>voice.headset.sidetone.adjust.*</code>  | Audio parameters |
| Changed      | <code>voice.headset.txag.adjust*</code>   | Audio parameters |
| Changed      | <code>voice.ns.hd.*</code><br>The parameter <code>voice.ns.hd.enable</code> has not been changed. | Audio parameters |
| Changed      | <code>voice.ns.hf.signalAttn</code>   | Audio parameter  |
| Changed      | <code>voice.ns.hf.silenceAttn</code>  | Audio parameter  |
| Changed      | <code>voice.ns.hs.signalAttn</code>   | Audio parameter  |
| Changed      | <code>voice.ns.hs.silenceAttn</code>  | Audio parameter  |

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