



# Polycom<sup>®</sup> UC Software 4.0.13

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

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# What's New in Polycom UC Software 4.0.13

Polycom® Unified Communications (UC) software 4.0.13 is a general release that is distributed to all Polycom partners and customers. These release notes include references to previous UC software versions to assist administrators who are updating from a previous software release to a UC software 4.0.x release.

UC software 4.0.13 supports Polycom® SoundPoint® IP, Polycom® SoundStation® IP, Polycom® SoundStation® Duo, Polycom® VVX® 500 and 1500 business media phones, and Polycom® SoundStructure® VoIP Interface. For more details on configuring the phones and the software, refer to the *Polycom UC Software 4.0.5 Administrators' Guide* on [Polycom Support](#).



Polycom strongly recommends upgrading the SoundStation IP 6000 and SoundStation IP 7000 systems to use Updater 5.0.13 to ensure that all newly added certificates and the OpenSSL fix are in place before you install UC Software 4.0.13. This updater needs to be provisioned manually for SoundStation IP 6000 and SoundStation IP 7000 systems.



Polycom strongly recommends using the latest Polycom Desktop Connector (PDC) version 1.0.XXXX.16-MAY-13 17:22, available to download from the [Polycom Desktop Connector website](#), with UC software 4.0.13.

## OpenSSL Upgrade

OpenSSL has been upgraded from version 0.9.8zg to version 1.0.2j for all the phones except for SoundStation IP 6000 and SoundStation IP 7000 phones.

## Important Upgrade Notes and Considerations in UC Software 4.0.13

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 4.0.13 may not be compatible with configuration files from the software releases prior to UC software 3.3.0. If you are updating to the UC software 4.0.13 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 UC software version prior to 3.3.0 and want to use a SoundStructure VoIP Interface, VVX 500 or SoundStation Duo phone, you need to update your existing configuration files as described in [Technical Bulletin 60519](#).

## Upgrading to or Downgrading from 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 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

UC software 4.0.13 does not include support for the SoundPoint IP 300, 301, 320, 330, 430, 500, 501, 600, 601, SpectraLink 84xx, and SoundStation IP 4000 phones. These phones are termed legacy products and are supported for critical issue fixes in SIP 3.2.x (IP 430), SIP 3.1.x (IP 301, 320, 330, 501, 600, 601, 4000), and SIP 2.1.x (IP 300, 500). 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 SoundStation IP 7000 Phones with Polycom® HDX® Integration

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

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

SoundStation IP 7000 Software Version	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

**Recommended Software Versions for the SoundStation IP 7000 with HDX Systems**

SoundStation IP 7000 Software Version	HDX Software Version
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
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 HDX Version 3.1.2 and above only. Customers are encouraged to upgrade to HDX Version 3.1.2 and above and the corresponding recommended UC Software suitable for the SoundStation IP 7000.

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

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

**Recommended Software Versions for the SoundStation IP 7000 with RealPresence Group Series**

SoundStation IP 7000 Software Version	RealPresence Group Series 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)

UC software 4.0.13 supports Chinese character input mode known as PinYin. This feature is available on VVX 1500 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

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

## Supporting BroadSoft Premium Automatic Call Distribution (ACD)

UC software 4.0.13 supports the following Polycom phones for use with the BroadSoft Premium ACD: SoundPoint IP 450, 550, 560, 650, and 670 and VVX 500.



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

## Phone Features and Licenses

As of release 4.0.0, 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 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.

UC software 4.0.13 supports a range of features that are available on the SoundPoint IP, SoundStation, VVX Series and SoundStructure VoIP Interface phones. The features and licenses required to operate the phones vary by phone model. Refer to the [SoundPoint IP Features and Licenses](#) table or the [SoundStation, VVX Series, and SoundStructure VoIP Interface Features and Licenses](#) 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.

**SoundPoint IP Features and Licenses**

<b>Feature</b>	<b>SoundPoint IP 321/331/335</b>	<b>SoundPoint IP 450/550/560</b>	<b>SoundPoint IP 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*

**SoundStation, VVX Series, and SoundStructure VoIP Interface Features and Licenses**

<b>Feature</b>	<b>SIP 5000</b>	<b>SoundStation IP 6000</b>	<b>SoundStation IP 7000</b>	<b>Sound Station Duo</b>	<b>VVX 1500</b>	<b>VVX 500</b>	<b>SoundStructure VoIP Interface</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
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

**SoundStation, VVX Series, and SoundStructure VoIP Interface Features and Licenses**

<b>Feature</b>	<b>SIP 5000</b>	<b>SoundStation IP 6000</b>	<b>SoundStation IP 7000</b>	<b>Sound Station Duo</b>	<b>VVX 1500</b>	<b>VVX 500</b>	<b>SoundStructure VoIP Interface</b>
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 4.0.13 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 UC Software 4.0.13

Template	Parameter	Permitted Values	Change Causes Restart or Reboot
device.cfg, site.cfg	sec.TLS.protocol. 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) 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 SoundStation IP 6000 and SoundStation IP 7000 phones are TLSv1_0 (default) SSLv2v3</p>	No
device.cfg, site.cfg	sec.TLS.protocol. 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) SSLv2v3, TLSv1_1 and TLSv1_2</p> <p>The permitted values for SoundStation IP 6000 and SoundStation IP 7000 phones are TLSv1_0 (default) SSLv2v3</p>	No



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

Template	Parameter	Permitted Values	Change Causes Restart or Reboot
device.cfg, site.cfg	sec.TLS.protocol. 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) SSLv2v3, TLSv1_1 and TLSv1_2 The permitted values for SoundStation IP 6000 and SoundStation IP 7000 phones are TLSv1_0 (default) SSLv2v3</p>	No
device.cfg, site.cfg	sec.TLS.protocol. 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) SSLv2v3, TLSv1_1 and TLSv1_2 The permitted values for SoundStation IP 6000 and SoundStation IP 7000 phones are TLSv1_0 (default) SSLv2v3</p>	No
device.cfg, site.cfg	sec.TLS.protocol. 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) SSLv2v3, TLSv1_1 and TLSv1_2 The permitted values for SoundStation IP 6000 and SoundStation IP 7000 phones are TLSv1_0 (default) SSLv2v3</p>	No

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

Template	Parameter	Permitted Values	Change Causes Restart or Reboot
device.cfg, site.cfg	sec.TLS.protocol. 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) SSLv2v3, TLSv1_1 and TLSv1_2 The permitted values for SoundStation IP 6000 and SoundStation IP 7000 phones are TLSv1_0 (default) SSLv2v3</p>	No
device.cfg, site.cfg	sec.TLS.protocol. 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) SSLv2v3, TLSv1_1 and TLSv1_2 The permitted values for SoundStation IP 6000 and SoundStation IP 7000 phones are TLSv1_0 (default) SSLv2v3</p>	No
device.cfg, site.cfg	device.sec.TLS.pr 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) SSLv2v3, TLSv1_1 and TLSv1_2 The permitted values for SoundStation IP 6000 and SoundStation IP 7000 phones are TLSv1_0 (default) SSLv2v3</p>	No

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

Template	Parameter	Permitted Values	Change Causes Restart or Reboot
device.cfg, site.cfg	device.sec.TLS.pr 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.  TLsv1_0 (default) SSLv2v3, TLsv1_1 and TLsv1_2 The permitted values for SoundStation IP 6000 and SoundStation IP 7000 phones are TLsv1_0 (default) SSLv2v3	No
device.cfg, site.cfg	device.sec.TLS.pr 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.  TLsv1_0 (default) SSLv2v3, TLsv1_0, TLsv1_1 and TLsv1_2 The permitted value for SoundStation IP 6000 and SoundStation IP 7000 phones is TLsv1_0 (default)	No
sip-interop .cfg	tone.dtmf.rfc2833 Payload_OPUS	Sets the Dual Tone Multi Frequency (DTMF) payload required to use the Opus codec. 126 (default) 96 - 127	Yes
sip-interop .cfg	voIpProt.SIP.RFC3 261TimerI	0 (default) - Timer I for reliable transport will be fired at five seconds. This parameter does not cause any change for unreliable transport. 1 - Timer I for reliable transport will be fired at zero seconds.	No

**Configuration File Enhancements for 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.  ALL:!aNULL:!eNULL:!DSS:!SEED:!ECDSA:!IDEA:!MEDIUM:!LOW:!EXP:!DH:!AECDH:!PSK:!SRP:!MD5:!RC4:@STRENGTH (default) String (Maximum of 1024 characters)	No
site.cfg	sec.TLS.webServer.cipherList	Specifies the cipher list for web server.  ALL:!aNULL:!eNULL:!DSS:!SEED:!ECDSA:!IDEA:!MEDIUM:!LOW:!EXP:!DH:!AECDH:!PSK:!SRP:!AES256-SHA:!AES128-SHA:!MD5:!RC4:@STRENGTH (default) String (Maximum of 1024 characters)	No

## Release History

This following table shows the release history of Polycom® Unified Communications (UC) software 4.0.13.

**Release History**

Release	Release Date	Features
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 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.

## Release History

Release	Release Date	Features
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.

## Security Updates

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

## Install UC Software 4.0.13

Consider the following installation and update information when using Polycom UC Software 4.0.13.

### Download the Distribution Files

You can download UC software 4.0.13 using either the combined file or the split file, both in ZIP file format. For general use, Polycom recommends using the split file that corresponds to the phone model(s) for your deployment. Refer to the [Understand the Split ZIP File](#) table to match the correct software file to your phone model. If you are provisioning your phones centrally using configuration files, download the corresponding file version and extract the configuration files to the provisioning server, maintaining the folder hierarchy in the ZIP file.

Polycom recommends using the split ZIP file when possible for a shorter upgrade time. However, in some deployments, you need to download both the combined and split files. For example, deployments running a BootROM version prior to BootROM 4.0.0 require the combined file version. If you require both file versions, download both ZIP files, extract all the configuration files from the split version and extract the **sip.Id** file from the combined file version. All files other than the **sip.Id** files are duplicated across the two ZIP file versions.

The current build ID for the **sip.Id** and resource files listed in the [Understand the Split ZIP File](#) table and the [Understanding the Combined ZIP File](#) table is **4.0.13.1445**.

## Download the Split ZIP File

Use to match your phone model with the correct split distribution file and to understand the configuration files included in the distribution files.

### Understand the Split ZIP File

Distributed Files	File Purpose and Application
2345-12360-001.sip.ld	SIP application executable for SoundPoint IP 321
2345-12365-001.sip.ld	SIP application executable for SoundPoint IP 331
2345-12375-001.sip.ld	SIP application executable for SoundPoint IP 335
2345-12450-001.sip.ld	SIP application executable for SoundPoint IP 450
2345-12500-001.sip.ld	SIP application executable for SoundPoint IP 550
2345-12560-001.sip.ld	SIP application executable for SoundPoint IP 560
2345-12600-001.sip.ld	SIP application executable for SoundPoint IP 650
2345-12670-001.sip.ld	SIP application executable for SoundPoint IP 670
3111-30900-001.sip.ld	SIP application executable for SoundStation IP 5000
3111-15600-001.sip.ld	SIP application executable for SoundStation IP 6000
3111-40000-001.sip.ld	SIP application executable for SoundStation IP 7000
3111-19000-001.sip.ld	SIP application executable for SoundStation Duo
3111-44500-001.sip.ld	SIP application executable for VVX 500
2345-17960-001.sip.ld	SIP application executable for VVX 1500
3111-33215-001.sip.ld	SIP application executable for SoundStructure VoIP Interface
sip.ver	Text file detailing the build-identification(s) for the release.
000000000000.cfg	Master configuration template file
000000000000-directory~.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.
applications.cfg	Contains configuration parameters for microbrowser and browser applications.
features.cfg	Contains configuration parameters for telephony features.
H323.cfg	Contains configuration parameters for the H.323 signaling protocol.
reg-advanced.cfg	Contains configuration parameters for the line and call registration and advanced phone feature settings.
reg-basic.cfg	Contains configuration parameters for the line and call registration and basic phone feature settings.

**(continued)Understand the Split ZIP File**

<b>Distributed Files</b>	<b>File Purpose and Application</b>
region.cfg	Contains configuration parameters for regional and localization settings such as time, date and language.
sip-basic.cfg	Contains configuration parameters for the VoIP server, softswitch registration.
sip-interop.cfg	Contains configuration parameters for the VoIP server, softswitch registration, and interoperability configuration.
site.cfg	Contains configuration parameters that are set on a per site basis.
video.cfg	Contains configuration parameters for video connectivity.
video-integration.cfg	Contains configuration parameters for SoundStation IP 7000 and Polycom HDX integration.
SoundPointIP-dictionary.xml	Includes native support for the following languages: Chinese, Traditional (for SoundPoint IP 321, 331, 335, 450, 550, 560, 650, 670; SoundStation IP 5000, 6000, 7000, SoundStation Duo) Chinese, Simplified (for SoundPoint IP 321, 331, 335, 450, 550, 560, 650, 670; SoundStation IP 5000, 6000, 7000, SoundStation Duo) Danish, Denmark Dutch, Netherlands English, Canada English, United Kingdom English, United States French, France German, Germany Italian, Italy Japanese, Japan (for SoundPoint IP 450, 550, 560, 650, 670; SoundStation IP 5000, 6000, 7000, SoundStation Duo) Korean, Korea (for SoundPoint IP 450, 550, 560, 650, 670; SoundStation IP 5000, 6000, 7000, SoundStation Duo) Norwegian, Norway Polish, Poland Portuguese, Portugal Russian, Russia Slovenian, Slovenia Spanish, Spain Swedish, Sweden
SoundPointIPWelcome.wav	Start-up welcome sound effect
LoudRing.wav	Loud ringer sound effect
Warble.wav	Loud ringer sound effect

## Download the Combined ZIP File

Use [Understanding the Combined ZIP File](#) as a reference guide to each of the files distributed in the combined ZIP file and a brief description of each file. The combined file is required for any phones running BootROM prior to BootROM version 4.0.0: for example, BootROM 3.2.3 Rev B.

### Understanding the Combined ZIP File

Distributed Files	File Purpose and Application
sip.ld	Concatenated SIP application executable
sip.ver	Text file detailing build-identification(s) for the release
000000000000.cfg	Master configuration template file
000000000000-direct ory~.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.
applications.cfg	Contains configuration parameters for microbrowser and browser applications.
features.cfg	Contains configuration parameters for telephony features.
H323.cfg	Contains configuration parameters for the H.323 signaling protocol.
reg-advanced.cfg	Contains configuration parameters for line and call registration and advanced phone feature settings.
reg-basic.cfg	Contains configuration parameters for line and call registration and basic phone settings.
region.cfg	Contains configuration parameters for regional and localization settings such as time, date and language.
sip-basic.cfg	Contains configuration parameters for the VoIP server and softswitch registration.
sip-interop.cfg	Contains configuration parameters for the VoIP server, softswitch registration, and interoperability configuration.
site.cfg	Contains configuration parameters that are set on a per site basis.
video.cfg	Contains configuration parameters for video connectivity.
video-integration.cfg	Contains configuration parameters for SoundStation IP 7000 and Polycom HDX integration.



**(continued) Understanding the Combined ZIP File**

Distributed Files	File Purpose and Application
SoundPointIP-dictionary.xml	Includes native support for the following languages: Chinese, Traditional (for SoundPoint IP 321, 331, 335, 450, 550, 560, 650, 670; SoundStation IP 5000, 6000, 7000, SoundStation Duo) Chinese, Simplified (for SoundPoint IP 321, 331, 335, 450, 550, 560, 650, 670; SoundStation IP 5000, 6000, 7000, SoundStation Duo) Danish, Denmark Dutch, Netherlands English, Canada English, United Kingdom English, United States French, France German, Germany Italian, Italy Japanese, Japan (for SoundPoint IP 450, 550, 560, 650, 670; SoundStation IP 5000, 6000, 7000, SoundStation Duo) Korean, Korea (for SoundPoint IP 450, 550, 560, 650, 670; SoundStation IP 5000, 6000, 7000, SoundStation Duo) Norwegian, Norway Polish, Poland Portuguese, Brazil Russian, Russia Slovenian, Slovenia Spanish, Spain Swedish, Sweden
SoundPointIPWelcome.wav	Startup welcome sound effect
LoudRing.wav	Loud ringer sound effect
Warble.wav	Loud ringer sound effect

## Resolved Issues

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

### UC Software 4.0.13 Resolved Issues

Category	Issue Number	Description
Calling	EN-32391	When the Group Series attempts to dial multiple calls simultaneously, only one call will connect if the SoundStation IP 7000 phone is plugged in as a microphone.
Calling	EN-32324	SoundPoint IP handsets reject MIME message without a Session Description Protocol (SDP) and sends a 415-unsupported media type error message.
Calling	EN-32607	Calls to SoundPoint IP 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 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 VVX business media phone's SSL Client Hello publishes incorrect time for the GMT UNIX Time.
Network	EN-32248	The SoundStation IP 6000 and 7000 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 VVX business media phones fail to sign in to a Skype for Business account due to the expired GlobalSign Root R3 CA certificate.
User Interface	EN-32599	If the Diffie-Hellman (DH) key length is more than 128 bytes, client applications on the 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.

## Known Issues

There are no new known issues for UC Software 4.0.13. The following issues are known to be present in previous releases and will be reviewed for possible fixes in a future release if no reasonable workaround is available.

### Known Issues

Category	Issue Number	Found in Release	Description	Workaround
Application	VOIP-46997		Camera brightness adjustment does not work between levels 3 to 6 on the VVX 1500.	No workaround currently available.
Application	VOIP-66251		British Telecom Caller ID type is not correctly supported (applies to SoundStation Duo).	No workaround currently available.
Calling	VOIP-53514		H.264 calls to an 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 VVX 1500 transmits H.264 QCIF video to Tandberg MXPs in H.323 calls.	Set the video bit rate on the VVX 1500 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.
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.
Hardware	VOIP-37984		Enabling the Idle bit-map on SoundPoint IP 330 and 320 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.
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.

**Known Issues**

Category	Issue Number	Found in Release	Description	Workaround
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 <partnumber>.xml 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 4.0.12*

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

### *Important Upgrade Notes and Considerations in 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 UC software version prior to 3.3.0 and want to use a SoundStructure VoIP Interface, VVX 500 or SoundStation Duo phone, you need to update your existing configuration files as described in [Technical Bulletin 60519](#).

## Upgrading to or Downgrading from 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 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

UC software 4.0.12 does not include support for the SoundPoint IP 300, 301, 320, 330, 430, 500, 501, 600, 601, SpectraLink 84xx, and SoundStation IP 4000 phones. These phones are termed legacy products and are supported for critical issue fixes in SIP 3.2.x (IP 430), SIP 3.1.x (IP 301, 320, 330, 501, 600, 601, 4000), and SIP 2.1.x (IP 300, 500). 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)

UC software 4.0.12 supports Chinese character input mode known as PinYin. This feature is available on VVX 1500 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

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

## Supporting BroadSoft Premium Automatic Call Distribution (ACD)

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



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 UC Software 4.0.12 release.

### 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 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 SoundPoint IP 560 and SoundPoint IP 670 phones might reboot.
General	VOIP-122934	UCS 5.2.0, UCS 4.1.1, UCS 4.0.11	If the compatibility view is not set on SoundPoint IP phone, the web pages are not displayed on Internet Explorer 11.
General	VOIP-120400	UCS 4.0.9	The SoundPoint IP 650 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 SoundPoint IP450 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.
General	VOIP-123101	UCS 4.0.11	During a call, if the <code>voIpProt.SIP.musicOnHold.uri</code> is configured, the SoundPoint IP 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.

**UC Software 4.0.12 Resolved Issues**

Category	Issue Number	Found in Release	Description
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 SoundStation IP 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, UCS 4.0.4, 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.srtp.offer</code> is not considered.
Network	VOIP-121141	UCS 5.4.1, UCS 5.1.3, UCS 5.1.3, 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 SoundPoint IP 6000 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, UCS 4.0.10	The SoundStation IP 5000 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	VVX business media phones don't 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 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.
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>setup.warningLevel</code> to 2, available in releases 4.0.12 and later, to suppress the warnings.

**UC Software 4.0.12 Resolved Issues**

Category	Issue Number	Found in Release	Description
Web Interface	VOIP-120618	UCS 4.0.10	The Web Server Configuration feature cannot be enabled on the SoundStation IP phones when disabled through configuration file.
Web Interface	VOIP-126409	UCS 4.1.1	Polycom SoundStation IP 5000 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 4.0.13.

**Configuration File Enhancements**

Parameter Template	Permitted Values
<code>feature.callCenterCallInformation.enable</code>	1 (default) - Call Center status information displayed while receiving an incoming call. 0 - Does not display Call Center status information. 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. 1 - Displays a warning icon and pop-up messages only for critical warnings. 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. 1 - The phone switches back to local ringback if RTP is stopped.
<code>device.sec.TLS.constTimeFlag.enabled</code>	1 (default) - Enables constant time flag for BIG NUM calculation during Multi Line Telephone Systems (MLTS) connection. 0 - Disables constant time flag.



**Configuration File Enhancements**

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

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

### **Important Update**

**Impacted:** All Polycom SoundPoint IP, Soundstation IP and VVX Business Media Phones.

**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 UC software 4.0.11 Rev K beside their respective Polycom tracking identification numbers.

### **New or Enhanced Features**

The 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 VVX 500 Business Media Phones**

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 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 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 UC Software 4.0.11 release.

### 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="#">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	SoundStation IP 6000 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 4.0.9	SoundPoint IP 550 phones now send network address translation (NAT) keep alive messages to the call server without any issue.
Configuration	VOIP-117275	4.0.10	The SoundStation IP 7000 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

**UC Software 4.0.11 Resolved Issues**

Category	Issue No.	Found in Release	Description
General	VOIP-114780	4.0.8 4.0.9 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 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.

**UC Software 4.0.11 Configuration File Enhancements**

Parameter	Permitted Values	Default
<code>call.shared.preferCallIn</code> <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> <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> <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> <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> <code>Register</code>	0 or 1	1

**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 UC Software 4.0.10

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to 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.

**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>	newRequests,DNSTTL, registration, duration	duration
<code>voIpProt.SIP.outboundProxy.failOver.failBack.mode</code>	newRequests,DNSTTL, registration, duration	duration

**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. 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 UC Software 4.0.10 release.

**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.

**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". <code>voIpProt.server.x.failOver.failBack.mode</code> <code>voIpProt.SIP.outboundProxy.failOver.failBack.mode</code> <code>reg.x.outboundProxy.failOver.failBack.mode</code> <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 VVX 1500 integration with RPRM.

**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 does 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 SoundStationS IP 7000, 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	VVX 1500 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. Note: The Silence Softkey is applicable only for SoundPoint models IP 650, IP670, IP 450, VVX 500, VVX 1500 and SoundStationS IP 7000.
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 UC Software 4.0.9**

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



## Resolved Issues

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

### 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 SoundStation Duo, 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 VVX 1500 from saving directory entries locally when it is registered to a RealPresence Resource Manager.
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 SoundStation IP 7000 system 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.

**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.

**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 UC Software 4.0.8**

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to 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 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 UC software 4.0.8 configuration file parameters.

### 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. The parameter <code>call.advancedMissedCalls.enabled</code> must also be set to 1. The parameter <code>call.advancedMissedCalls.addToReceivedList</code> is ignored. 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. 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. Note that some applications disable both SSLv2 and SSLv3, regardless of this setting. 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. If 1, the first reminder is audible, followed by silent visual reminders 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. 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. If 1, the TCP Socket connection remains open indefinitely.</p>		
<code>voIpProt.offerFullCodecListUponResume</code>	0 or 1	1

### 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.	
	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
tcpIpApp.snmp.retry DnsPeriod	60 – 2147483647 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 UC Software 4.0.7

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to 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 UC software 4.0.7 configuration file parameters.

Parameter	Permitted Value	Default	Description
<code>tcpIpApp.snmp.retry</code> <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 UC Software 4.0.6

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to 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 VVX 500*).

### Configuration File Enhancements

There are no changes to the configuration file parameters.

## Updates to UC Software 4.0.5

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to 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 UC software 4.0.5 configuration file parameters.

### 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.SOPIClientCertificateValidation	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.SOPICipherList	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.

**UC Software 4.0.5 Configuration File Enhancements**

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

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

## Updates to UC Software 4.0.4

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to 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 UC software 4.0.4 configuration file parameters.

**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 el	1	0 or 1
feature	Added	video.dynamicControlMethod	0	0 or 1

**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 UC Software 4.0.3 Rev B**

This section lists additions, changes, removals, enhancements, and configuration file parameter changes to 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 UC Software 4.0.3 Rev F**

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



If you are currently using UC software 4.0.3 (build ID 4.0.3.7314), upgrade to 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 UC Software 4.0.3

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



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 UC software 4.0.3 configuration file parameters.

### 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 0 Phone uses RFC2543 during hold based on the response from far end (default)

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

## Updates to UC Software 4.0.2 Rev B

This section lists additions and changes, removals, enhancements, and configuration file parameter changes to the 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 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) 0 Phone does not perform a DHCP release on network link

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

## Updates to UC Software 4.0.2

Polycom distributed UC software 4.0.2 to select partners and customers. It was shipped with SoundStation Duo. 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 VVX 1500*).

**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](#).

### 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 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 VVX 500 and SoundStructure VoIP Interface sip.ld files in the software release package.

## Updates to UC Software 4.0.1

This section lists additions and changes, removals, enhancements, and configuration file parameter changes to 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 SoundPoint IP 321, 331, 335, 450, 550, 560, 650, 670; VVX 500 and 1500; SoundStation IP 5000; SoundStation Duo; 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 SoundPoint IP 321, 331, 335, 450, 550, 560, 650, 670; VVX 500 and 1500; SoundStation IP 5000; SoundStation Duo; 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 VVX 1500*).

**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 SoundPoint 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 SoundPoint IP, all SoundStation IP, and SoundStation Duo*).

**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 SoundPoint IP 450*).

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



The following table includes parameters modified in 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](#).

### UC Software 4.0.1 Configuration File Enhancements

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

**UC Software 4.0.1 Configuration File Enhancements**

File	Modification	Parameter	Modification Description
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 dns.cache.SRV.x.ttl 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 UC Software 4.0.0**

This section lists additions and changes, removals, enhancements, and configuration file parameter changes to 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 SoundPoint IP 3xx*).
- 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=xxxxxxxx (default null)
dialplan.routing.emergency.outboundIdentity.lldp=xxxxxxxx (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 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`, [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 UC software 4.0.0. You can find the new descriptions and values in the [Polycom UC Software Administrators Guide](#).

### 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 |
| Discontinued | <code>device.auth.*</code><br>The parameters<br><code>device.auth.localAdminPassword</code><br>and<br><code>device.auth.localUserPassword</code><br>have not been removed | Provisioning parameters             |
| Discontinued | <code>device.dhcp.offerTimeout</code>                                                                                                                                     | Provisioning parameter              |
| Discontinued | <code>device.prov.appProvString</code>                                                                                                                                    | Provisioning parameter              |

**UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>                                           | <b>Description</b>                  |
|---------------------|--------------------------------------------------------------------------|-------------------------------------|
| 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.filterReflectedBladeLogs                                           | Call feature parameter              |
| Discontinued        | reg.x.server.H323.y.register                                             | Call feature parameter              |
| Discontinued        | sec.TLS.customDeviceCert.enable                                          | Security parameter                  |
| Discontinued        | sec.dot1x.eapollogoff.pccforcelanlinkreset                               | 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                    |
| 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                    |

**UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>                                                                           | <b>Description</b>                  |
|---------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------|
| Discontinued        | voice.aes.hs.duplexBalance                                                                               | Audio parameter                     |
| Discontinued        | voice.gain.rx.digital.ringer.*<br>The parameter<br>voice.gain.rx.digital.ringer<br>has also been removed | Audio parameters                    |
| Discontinued        | voice.handset.wideband                                                                                   | Audio parameter                     |
| Discontinued        | voice.rxEq.hf.postFilter.*<br>The parameter<br>voice.rxEq.hf.postFilter.enable<br>has not been removed   | Audio parameters                    |
| Discontinued        | voice.rxEq.hf.preFilter.*<br>The parameter<br>voice.rxEq.hf.preFilter.enable<br>has not been removed     | Audio parameters                    |
| Discontinued        | voice.rxEq.hs.postFilter.*<br>The parameter<br>voice.rxEq.hs.postFilter.enable<br>has not been removed   | Audio parameters                    |
| Discontinued        | voice.rxEq.hs.preFilter.*<br>The parameter<br>voice.rxEq.hs.preFilter.enable<br>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 |
| 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 |

**UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter                                                                         | Description                          |
|--------------|-------------------------------------------------------------------------------------------------|--------------------------------------|
| 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.<br>outboundIdentity                                                 | Call feature parameter               |
| Added        | dialplan.routing.emergency.<br>outboundIdentity.lldp                                            | Call feature parameter               |
| Added        | dialplan.routing.ermgency.p<br>referredSource                                                   | Call feature parameter               |
| Added        | exchange.meeting.*                                                                              | Productivity Applications parameter  |
| Added        | exchange.server.url                                                                             | Productivity Applications parameter  |
| Added        | feature.audioVideoToggle.en<br>abled                                                            | Call feature parameter               |
| Added        | feature.bluetooth.enabled                                                                       | Call feature parameter               |
| Added        | feature.enhancedCallDisplay<br>.enabled                                                         | Call feature parameter               |

**UC Software 4.0.0 Configuration File Enhancements**

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

**UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter                                                                                       | Description                                       |
|--------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 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.*                                                                                                        |                                                   |
| Added        | ptt.*                                                                                                         | Paging and push-to-talk parameters                |
| Added        | qbc.*                                                                                                         | SpectraLink quick barcode connector parameters    |

**UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter                                                                                                                                                                                                                        | Description                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 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    |
| Added        | se.rt.emergency.micMute                                                                                                                                                                                                                        | Sound effects parameter    |
| Added        | se.rt.emergency.videoMute                                                                                                                                                                                                                      | Sound effects parameter    |
| Added        | se.rt.external.micMute                                                                                                                                                                                                                         | Sound effects parameter    |



**UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>             | <b>Description</b>         |
|---------------------|--------------------------------------------|----------------------------|
| 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            |
| Added               | tone.chord.misc.E3Major.*                  | Tone parameters            |
| Added               | tone.chord.misc.cs12.*                     | Tone parameters            |
| Added               | up.25mmRealTime                            | User preferences parameter |

**UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter                                                          | Description                |
|--------------|----------------------------------------------------------------------------------|----------------------------|
| 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            |
| Added        | voice.aes.usb.hf.enable                                                          | Audio parameter            |
| Added        | voice.agc.bt.hd.enable                                                           | Audio parameter            |
| Added        | voice.agc.usb.hf.enable                                                          | Audio parameter            |

**UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>         | <b>Description</b>                  |
|---------------------|----------------------------------------|-------------------------------------|
| 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 |
| Changed             | call.autoRouting.preferredProtocol     | Call feature parameter              |
| Changed             | device.auth.*                          | Provisioning parameters             |
| Changed             | device.cma.mode                        | Provisioning parameter              |

**UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>                                                                                                                                        | <b>Description</b>      |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Changed             | device.dhcp.*<br>The parameter<br>device.dhcp.bootSrvOpt has<br>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><br>The parameters<br>device.net.dhcpBootServe,<br>device.net.IPgateway,<br>device.net.subnetMask, and<br>device.net.vlanId have not<br>been changed. | Provisioning parameters |
| Changed             | device.ntlm.versionMode                                                                                                                                               | Provisioning parameter  |
| Changed             | device.prov.*<br>The parameters<br>device.prov.password,<br>device.prov.serverName,<br>device.prov.upgradeServer,<br>and device.prov.user have not<br>been changed.   | Provisioning parameters |
| Changed             | device.serial.enable                                                                                                                                                  | Provisioning parameter  |
| Changed             | device.sntp.gmtOffset                                                                                                                                                 | Provisioning parameter  |
| Changed             | device.syslog.*<br>The parameter<br>device.syslog.serverName has<br>not been changed.                                                                                 | Provisioning parameters |
| Changed             | dialplan.x.digitmap                                                                                                                                                   | Call feature parameter  |
| Changed             | dialplan.x.routing.server.y<br>.transport                                                                                                                             | Call feature parameter  |
| Changed             | dialplan.digitmap                                                                                                                                                     | Call feature parameter  |
| Changed             | dialplan.digitmap.timeOut                                                                                                                                             | Call feature parameter  |
| Changed             | dialplan.impossibleMatchHan<br>dling                                                                                                                                  | Call feature parameter  |
| Changed             | dialplan.removeEndOfDial                                                                                                                                              | Call feature parameter  |

**UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>      | <b>Description</b>      |
|---------------------|-------------------------------------|-------------------------|
| 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 |
| Changed             | lcl.ml.lang.tags.*                  | Multilingual parameters |
| Changed             | log.level.change.slog               | Log parameter           |
| Changed             | log.render.file.size                | Log parameter           |

**UC Software 4.0.0 Configuration File Enhancements**

| Modification | Configuration Parameter                                                                             | Description                   |
|--------------|-----------------------------------------------------------------------------------------------------|-------------------------------|
| 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 nat.keepalive.interval has 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 qos.ip.callControl.dscp.* have not been changed              | Quality of Service parameters |
| Changed      | qos.ip.rtp.*<br>The parameters qos.ip.rtp.dscp.* and qos.ip.rtp.video.dscp.* have not been changed. | Quality of Service parameters |
| Changed      | reg.x.callsPerLineKey                                                                               | Line registration parameter   |
| Changed      | reg.x.outboundProxy.transport                                                                       | Line registration parameter   |
| Changed      | reg.x.ringType                                                                                      | Line registration parameter   |
| Changed      | reg.x.server.y.transport                                                                            | Line registration parameter   |
| Changed      | res.finder.minFree                                                                                  | Phone memory parameter        |

**UC Software 4.0.0 Configuration File Enhancements**

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

**UC Software 4.0.0 Configuration File Enhancements**

| <b>Modification</b> | <b>Configuration Parameter</b>                  | <b>Description</b>         |
|---------------------|-------------------------------------------------|----------------------------|
| 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            |
| Changed             | voice.codecPref.iLBC.*                          | Audio parameters           |
| Changed             | voice.gain.rx.analog.*                          | Audio parameters           |
| Changed             | voice.gain.rx.digital.*                         | Audio parameters           |



**UC Software 4.0.0 Configuration File Enhancements**

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

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