

Spectralink 84-Series Wireless Telephone

Release Notes

Spectralink Software 4.6.1

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Chapter 1: General

These release notes include references to several previous Spectralink Software versions to assist administrators who are updating to their Spectralink 84-Series handsets to Spectralink Software 4.6.1 from an earlier software release.



Note: Spectralink Software 4.6.x is limited to the Spectralink 84-Series product line

As of September 2012, starting with software release Spectralink Software 4.2.0, Spectralink 84-Series handset software became independent from Polycom UCS software. Spectralink 84-Series software releases are named Spectralink Software X.Y.Z and only support Spectralink 84-Series handsets, and not Polycom devices.

Releases after Polycom UCS 4.1.0 no longer support Spectralink 84-Series handsets. However Polycom UCS releases prior to September 2012, i.e. Polycom UCS 4.1.0 and earlier, are compatible with the Spectralink 84-Series handsets.

For more details on configuring phones and software features, refer to the *Spectralink 84-Series Wireless Telephone Administration Guide*. Newer features that may not be documented yet in the Admin Guide are described in these release notes.

The Spectralink Software 4.6.1 Release Notes contain the following sections:

- **What's New in Spectralink Software 4.6.1?** Read this section to understand new features introduced in Spectralink Software 4.6.1.
- **Change Log for Spectralink Software 4.6.1** This section lists new, enhanced, and discontinued software features.
- **Updates to Previous Software Releases** This section lists enhanced and discontinued software features in previous software releases.
- **Known Issues and Suggested Workarounds** This section lists existing known issues and suggests workarounds, if available.
- **Reference Documents** This reference section links you to all documents referred to in these release notes.

Important Upgrade Notes

Microsoft Lync Interoperability

For additional information about deploying Microsoft® Lync® in your phone environment, see *Spectralink 84-Series Interoperability Guide for Microsoft Lync Server 2013*.

Spectralink 8450/ 8452/ 8453 Quick Barcode Connector (QBC)

Using the Spectralink Quick Barcode Connector (QBC) with 8450/ 8452/ 8453 phones running UCS 4.6.x requires QBC version 1.20.x or later. Previous versions of QBC will not operate properly.

Bluetooth Headset Support

Only Bluetooth® headsets that support EDR and ESCO protocols are recommended for use with the Spectralink 84-Series. Bluetooth headset use is not recommended with phones and other peripheral devices that have the 2.4GHz Wi-Fi band enabled.

Chapter 2: What's New in Spectralink Software 4.6.1?

Spectralink Software 4.6.1 is based on Spectralink Software 4.6.0. The 4.6.1 and 4.6.0 releases are almost identical except 4.6.1 has an additional menu item for ease of configuring Microsoft Lync 2013. The 4.6.1 release includes all the 4.6.0 fixes and enhancements.

Spectralink Software 4.6.0 is based on Spectralink Software 4.4.0 and included support for Microsoft Lync 2013, as well as bug-fixes and minor enhancements. The 4.6.0 release was qualified by Microsoft for Lync 2013 interoperability. After qualification, a potentially confusing menu item was identified and version 4.6.1 was created to minimize deployment confusion. Version 4.6.1 and 4.6.0 is identical from a SIP interoperability and call-control perspective.

Please refer to the *Spectralink 84-Series Wireless Telephones with Microsoft Lync Server 2013 Integration Guide* application note for supported features and special configuration instructions. Bug fixes and minor enhancement are listed on the following pages.

This software release is for those 84-Series handset models that support MS Lync. Non-Lync 84-Series handsets should not use the 4.6.x software releases and use the non-Lync releases (e.g. 4.3.x).

84-Series support for MS Lync

On August 1st 2013, all Spectralink 84-Series handsets were made available for sale in two variants, SIP, and SIP with Microsoft Lync. The standard SIP version supports direct integration with all call-servers listed in this Guide (except Microsoft), and SIP with Lync will additionally support Microsoft Lync. The handset's supported version will be identifiable via product ID & label markings.

84-Series Product IDs with Microsoft Lync Support

Model	
8440:	2200-36149-001, 2200-36150-001 2200-37174-101, 2200-37175-101
8441:	2200-37290-001, 2200-37290-101
8450:	2200-37152-001, 2200-37153-001 2200-37176-101, 2200-37177-101
8452:	2200-37172-001, 2200-37173-001 2200-37198-101, 2200-37199-101

Label example



Model

8453: 2200-37294-001, 2200-37294-101

All 8440/8450/8452 handsets manufactured before August 1, 2013 are the SIP with Lync variant, and will interoperate with Lync providing they operate with a Lync software release (4.4.x or 4.6.x). If they are upgraded to a SIP only release (4.3.x) they will work with all listed call-server except Microsoft Lync.

After August 1, 2013 8440/8450/8452 models are available for sale with SIP or SIP with Lync. Those handsets that have not been factory-enabled to run Microsoft Lync will not run Lync software releases. Lync handsets support Lync or non-Lync code, however 8441/8453 will not support 4.2.x or earlier.

As a result, starting with the 4.3.x & 4.4.x releases, Spectralink has made available two different software release streams that support SIP (4.3.x), or SIP with Lync (4.4.x and 4.6.x). These software releases shall clearly identify if they support Lync or not.

The new Spectralink 8441/8453 models were launched with SIP or SIP with Lync variants. These models can only run 4.3.x software or later.

New Filenames

The firmware files included in the release zip package changed with version 4.4.0. Filenames are no longer based on the hardware id of the 84-Series product. Instead a unified software file is deployed that is applicable for all hardware models (the 8440, 8441, 8450, 8452, and 8453 models).

The 3111-36150-001.sip.ld, 3111-36152-001.sip.ld and 3111-36154-001.sip.ld files are no longer included. The unified file is named **slnk84xx.lync.ld** for the 4.4.x and 4.6.x SIP with Lync variant.

When a phone running 4.4.0 or above software boots, it will automatically look for the slnk84xx.lync.ld file. This is a hardcoded filename that is not dependent on the APP_FILE_PATH parameter in the config files. However, if the APP_FILE_PATH parameter is not specified, then the phone shall not look for the slnk84xx.lync.ld file either. This is current behavior.

If the phone cannot find the slnk84xx.lync.ld file it will look for a filename using the same algorithm as currently existing software. For example, an 8440 phone will look for a file named 3111-36150-001 pre-pended to the value of APP_FILE_PATH. If that file can't be found, then it looks for APP_FILE_PATH as a standalone file.

The introduction of the slnk84xx.lync.ld software requires a transition step when updating software from releases previous to 4.4.0, because the previous releases do not know about the new filename.

There are two ways to update from older software:

- Rename the slnk84xx.lync.ld to the hardware model of the phones installed at your site. The following list indicates how to rename the files based on your phone model. If your site contains a mixed environment of phones, you can copy the slnk84xx.lync.ld file and rename it to multiple file names.
 - 8440 - rename to 3111-36150-001.sip.ld
 - 8450 - rename to 3111-36152-001.sip.ld
 - 8452 - rename to 3111-36154-001.sip.ld
- Change the value of the APP_FILE_PATH parameter in the config files to slnk84xx.lync.ld. See the Admin Guide for instructions on modifying the config files.

If you are already running 4.4.x then the above steps are not necessary and you can upgrade directly to the slnk84xx.lync.ld load.

Other 4.6.x Enhancements

The following enhancements were introduced in 4.6.0 and worthy of noting:

- The OAI Rich Multiline Display command now allows to set different size fonts properly.
- Enhancements to make the phone roam to a new AP a bit faster.
- General improvements to PTT functionality.

Change Log for Spectralink Software 4.6.1

The following section lists changes in Spectralink Software 4.6.1 from Spectralink Software 4.6.0.

Fixes and enhancements

WUCS-1614 Update menus and config files to have Lync2013 option

Chapter 3: Updates to Previous Software Releases

Understanding Updates to Spectralink Software 4.6.0

The following section lists changes in Spectralink Software 4.6.0 from Spectralink Software 4.3.0/4.4.0.

Fixes and enhancements

- ESCWIRE-434** Browser randomly fails
- WUCS-789** Frequent handset failures require phone reboot.
- WUCS-1165** Phone reboots after taken out of range in call
- WUCS-1176** Emergency Call is enabled / viewable without logging in to a User Profile, but does not work
- WUCS-1251** Firmware reset will sometimes cause one way audio
- WUCS-1290** The word "CallAction" in a data push causes the phone to reboot
- WUCS-1389** call.callsPerLineKey Needs to Cause a Reboot
- WUCS-1398** Second Incoming PTT Call has no audio when made the active PTT call
- WUCS-1494** 84-Series phones slow to hand off in standby
- WUCS-1531** Phone identifies itself as Polycom SoundPoint IP phone when using WebUI
- WUCS-1555** Phone refuses to attempt ftp download of top level provisioning files
- WUCS-1576** Pressing and Navigating the Soft Keys when phone is configured for autolock results in Locking while navigating favorites
- WUCS-1580** Unable to get font size of OpCode 21 (Rich Text) messages to change.

Understanding Updates to Spectralink Software 4.3.0/4.4.0

The following section lists changes in Spectralink Software 4.3.0/4.4.0 from Spectralink Software 4.2.1.

Fixes and enhancements

- ESCWIRE-374** Soft keys executing custom java script functions multiple times
- ESCWIRE-385** Ring types configured with delay sound distorted.
- ESCWIRE-387** No "Unlock" soft key displays to unlock the key pad
- ESCWIRE-421** 84-Series no audio
- WUCS-720** Remove Polycom branding from the phone
- WUCS-817** Add additional RTLS locations transmission rate choices
- WUCS-1023** Phone Sends POST messages twice if Default Only user is set to "1"
- WUCS-1024** Suspicious "so" logs seen when establish call.
- WUCS-1054** In call forwarding, DUT adds "sip:" part to a username which makes forwarding doesn't work
- WUCS-1084** Priority calls (channel 24) interrupt Emergency PTT (channel 25) on sending phone only
- WUCS-1105** Emergency Dial can still stack calls when in the macro (EFK) mode
- WUCS-1120** Add configurable Alert settings for XML API Push
- WUCS-1149** Unable to resume an IM conversation after a call is answered
- WUCS-1208** PTT tweedle and second line ring
- WUCS-1214** prov.polling.enabled should be enabled by default
- WUCS-1236** Failure of screen to DIM, keypad backlights off
- WUCS-1243** Notes in flat template file MACaddress-ext.cfg - provided as part of 4.2.0 release incorrectly name the file
- WUCS-1248** Change voip.prot parameters to reg.1 parameters in template files provided with release
- WUCS-1249** Move IM section out of the openSIP section of the flat deployment template
- WUCS-1266** Scheduled logs battery status sometimes fails
- WUCS-1278** Modify PTT emergency call to be a speakerphone call
- WUCS-1279** Modify PTT Emergency call to send XML alarm notification
- WUCS-1280** Add IP address for single point QBC deployment to per-phone, per-user files
- WUCS-1287** New/ Unknown part number causes polyapp to watchdog and reboot
- WUCS-1289** Emergency dial doesn't work if phone in call with callsPerLineKey=1
- WUCS-1296** Add channel 25 to ptt.cfg
- WUCS-1300** tel: URI execution pops up confirmation "Call" "Cancel" softkeys
- WUCS-1304** Migrate Polycom Upgrade Server option to Spectralink
- WUCS-1307** Add seed directory
- WUCS-1350** Force speakerphone for emergency dial leaves audio termination set to chassis

- WUCS-1359** Increase timeout period for qbc.inactivity.timeout
- WUCS-1360** Backlight turning off when phone is in charger
- WUCS-1362** Change "hit" to "press" in the phrase "Warning detected, hit Cancel to prevent Alarm"
- WUCS-1365** Warning dialog and local notification does not refresh when phone is in existing call
- WUCS-1367** Change Duress behavior so emergency call is optional
- WUCS-1377** Cannot add certificate using PolyApp menus or Updater
- WUCS-1378** Backlight dims-to-off when phone is in charger, only the first time a new battery is used in a phone
- WUCS-1386** While editing details of the contact directory, back key is not working
- WUCS-1413** User Profile Configuration Template does not include reg.2.server.1.address in IM section of login.cfg, or in IM section of site.cfg in Flat and Group templates
- WUCS-1416** Add PTT parameter for Duress Button to Personal Alarms cfg file
- WUCS-1417** Buttons on dock (Volume and Speaker) do not work after a reboot
- WUCS-1418** device.set="1" is missing from the syslog section of site.cfg in both Flat_Deployment and User_Profiles_Deployment directories
- WUCS-1432** Getting battery fault messages in logs
- WUCS-1436** Getting boot log message "No compatible BootL1 found" on all man down phones
- WUCS-1467** With the keypad Locked on a handset which initiates a Duress button call - at times the calling handset sticks in a state where the Unlock key is unavailable
- WUCS-1486** Change default Realm to something brand neutral
- WUCS-1490** Change default provisioning server username so is not PlcmSplp
- WUCS-1496** Change firmware filenames

Configuration File Changes

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



Web Info: Find detailed descriptions of parameters and values

You can find descriptions of all parameters in the *Spectralink 84-Series Wireless Telephone Administration Guide*.

Table 1: Configuration Changes for Spectralink Software 4.3.0/4.4.0

<i>Parameter</i>	<i>Modification</i>	<i>Description (Min/ Max/ Default)</i>		
apps.push.alertSound	Removed			
apps.telNotification.alarmEvent	Added	FALSE	TRUE	FALSE
log.level.change.accl	Added	0	6	4
log.level.change.accl2	Added	0	6	4
log.level.change.batt	Added	0	6	4
log.level.change.fips	Added	0	6	4
log.render.stdout	Modified	FALSE	TRUE	FALSE
mb.main.toolbar.autoHide.enabled	Modified	FALSE	TRUE	FALSE
ptt.emergencyDial.emergencyDialEnable	Added	FALSE	TRUE	TRUE
ptt.emergencyDial.notificationEnable	Added	FALSE	TRUE	FALSE
ptt.tonesInCall.enable	Added	FALSE	TRUE	TRUE
qbc.inactivity.timeout	Modified	30,000 (in ms, 5 mins)	1,800,000 (in ms, 30 min)	60,000 (in ms, 10 min)
qos.ethernet.callControl.user_priority	Modified	0	7	4
qos.ethernet.other.user_priority	Modified	0	7	0
qos.ethernet.rtp.user_priority	Modified	0	7	6
qos.ethernet.rtp.video.user_priority	Modified	0	7	6
sec.TLS.profile.1.deviceCert	Modified	"Factory" "Platform1" "Platform2" "Application1" "Application2" "Application3" "Application4" "Application5" "Application6" Default: "Factory"		
up.backlight.idleIntensity	Modified	0	3	0
up.backlight.timeout	Modified	5	60	10
up.PersonalAlarm.emerDialForceSpeakerPhone	Added	FALSE	TRUE	TRUE
up.PersonalAlarm.emergencyDialEnable	Added	FALSE	TRUE	FALSE
up.PersonalAlarm.notificationEnable	Added	FALSE	TRUE	TRUE
up.PersonalAlarm.running.sensitivity	Added	0	7	0
up.PersonalAlarm.running.timeout	Added	5	60	7

<i>Parameter</i>	<i>Modification</i>	<i>Description (Min/ Max/ Default)</i>		
up.PersonalAlarm.still.sensitivity	Added	0	7	0
up.PersonalAlarm.still.timeout	Added	5	300	7
up.PersonalAlarm.suspendMonitoring	Added	0	300	0
up.PersonalAlarm.tilt.sensitivity	Added	0	7	0
up.PersonalAlarm.tilt.timeout	Added	5	300	7
up.PersonalAlarm.warningTimeout	Added	5	60	10
upgrade.plcm.server.url	Modified	http://downloads.spectralink.com/software/upgrade/		
volpProt.SIP.requestValidation.digest.realm	Modified	wirelessIpPhone		
webutility.language.plcmServerUrl	Modified			
wifi.rtls.ekahau.txIntervalSeconds	Added	10	600	60

Understanding Updates to UCS 4.2.1

The following section lists changes in Spectralink Software 4.2.1 from Spectralink Software 4.2.0.

Fixes and enhancements

WUCS-565 [ESCWIRE-343] Handsets will not always reconnect to the network.

WUCS-1053 Cannot scroll from AP to AP in Site Survey

WUCS-1137 Many Pop-up messages corrupted

Understanding Updates to UCS 4.2.0

The following section lists changes in Spectralink Software 4.2.0 from Polycom UC Software 4.1.0.

New or enhanced features

WUCS-85 Improved wireless maximum power selection settings and menus

WUCS-368 Features that used the same credentials as Lync (Calendar for example) are now logged off when the Lync user logs out.

WUCS-730 The 84-Series Handset now reports its vendor ID as "spectralink" in the Ms-Device-Info header

- WUCS-759** The 84-Series Handset now identifies itself as a “spectralink” device in DHCP options 12 and 60
- WUCS-793** Added Emergency Dial feature as an alternate use of the Push-To-Talk button
- WUCS-793** Renamed URL dial to name dial

Features no longer available

As part of its focus on wireless solutions, Spectralink Software 4.2.0 removes a number of features that complicate or confuse the deployment of wireless-only products.

- WUCS-591** Removed references to ZTP (Zero Touch Provisioning) which is not supported on the Spectralink 84-Series product line.
- WUCS-593** Removed the “Quick Setup” option which did not cover wireless network acquisition.
- WUCS-602** Removed support for Telchemy VQMON.

Fixes and enhancements

- 74901** When the lock feature is enabled, after phone reboot, the emergency/ authorized call list is now properly displayed when the user tries to place a call using headset/ speaker key
- 75591** In Lync environment the phone does now properly logs out all other user login credential dependent applications.
- 77192** Adding a ‘+’ sign to the Line Identification address via the phone’s Web Configuration Utility is now properly displayed.
- 78269** Changing the phone lock from Alert to DND work from the UI.
- 78361** During the phone state polling when an http request is passed the callstatehandler is now properly returning call line information for all the lines.
- 79797** Message Waiting Indicator no longer blinking when the user signs out of the phone.
- 79955** Deleting CA or Device certificate from the UI now works as intended.
- 80519** Inviting a Spectralink 84-Series to an Instant Messaging group is now ignored, the phone no longer rings indefinitely.
- 80613** Backlight no longer stays on after a firmware update is downloaded.
- 80614** Low and Critical battery alerts now work in all cases.
- WUCS-395** Push-To-Talk start of conversation tone now plays properly
- WUCS-421** Handset now properly displays the idle screen when locked

Understanding Updates to UCS 4.1.0

This UCS 4.1.0 release is a software upgrade for SIP phones that are qualified to deliver direct interoperability for Lync. Supported platforms for this limited release include the VVX 500 and Spectralink 8440, 8450 and 8452.

New or enhanced features

- 42163** Added support for Simplified best-effort SRTP.
- 66597** Added support for Microsoft STUN/ TURN/ ICE.
- 68649** Added support for Lync Certificate Provisioning using MS Web Ticket.
- 68652** Added support for Microsoft E911.
- 68653** Added support for Lync Call admission control.
- 68802** Added support for Lync In-band provisioning.
- 68803** Added support for Lync server address discovery.
- 68654** Added support for Lync Media bypass.
- 69089** Added support for Lync Private incoming line.
- 69094** Added support to switch over to local ring when early media fails.
- 69096** Added support for Lync dial plans.
- 69106** Added support for Branch office resiliency (BOR) feature.
- 70673** Added support for alternative call forwarding identities.
- 74216** Added support for video synchronization with Lync client.
- 74567** Added support for Microsoft Web Ticket Client Protocol.
- 74510** Added ability to route all outbound requests via Outbound Proxy Server with different callee and caller URI domains.
- 74557** Added support for a manual configuration re-sync with the Lync provisioning server.
- 74616** Added support for extension-based dialing.
- 74894** Added ability to retrieve Lync server root certificate automatically using DHCP Option 43.
- 75141** Added Base profile menu option for easy out-of-the-box experience.
- 77281** Added support for Lync mode on phones (Lync Base profile).

Enhanced capabilities

- 79321** Significant improvement is done on the batter threshold levels (*applies to Spectralink 84-Series*)
- 79063** Phone now updates the presence status information for all the watched buddies (*applies to VVX500*).

- 78198** Significant improvement is done for the phone microbrowser and directory search for faster access (*applies to VVX1500*).
- 78107** Phone now displays a warning message upon reaching the maximum number of buddies.
- 78100** On the phone Presence - Idle timeout settings, changing the "office hours" timeout value keeps "Off hours" timeout unchanged.
- 78087** When a call is made from the Spectralink 84-Series phone, the receiving phone displays complete number of the caller.
- 77089** In Lync environment, any changes to the buddy presence state are immediately reflected on the presence icons and status.
- 76995** In Lync environment, the phone call list details are not uploaded to the provisioning server when setting the configuration parameter `feature.callList.enabled="0"` (*applies to VVX500*).
- 76981** Phone displays call forwarding icon and forwards calls correctly when the function is enabled from the phone web user interface.
- 76446** Calls to PSTN network work appropriately even when Media Bypass is enabled on PSTN gateway.
- 76261** The phone password field for Lync configuration remains empty when there is no password set, thereby allowing the user to set a new password.
- 76194** An incoming call first displays as pop up before getting minimized to call appearance/filter view on the phone.
- 76028** The Polycom desktop connector (PDC) has been improved and connects to user's laptop/ PC after installation.
- 75874** Resolved the issue with Jabra PRO 9450 headset, only the internal headset ring tone is played (*applies to VVX500*).
- 75872** Resolved the issue with phone ringer when attaching/ detaching a USB headset during an incoming call.
- 75743** Addressed the usage of configured outbound proxy server address for Voice quality monitoring feature on phone.
- 75715** Local directory can now save contacts searched from the phone's corporate directory even when the local directory is disabled.
- 75694** Adding/ removing of USB headset no longer affects the phones configured with EHS headsets (Jabra, Plantronics or Sennheiser).
- 75674** URL dialing is now possible between unregistered phones.
- 75643** Issue of displaying the call list on phone when the configuration parameter `feature.callList.enabled="0"` is now fixed.
- 75605** Corrected the display of contacts which has long information fields (first name, last name, etc) in detail view on the phone.
- 75431** PTT and Paging feature has been now enhanced to user iLBC codec.

- 75355** Improved the synchronization of contacts addition/ deletion between the Lync MOC client on PC and the Phone IM.
- 75245** Fixed the issue on buddy presence status not getting updated when the phone is disconnected from network.
- 74901** When the lock feature is enabled, after phone reboot, the emergency/ authorized call list is displayed when user tries to place a call using headset/ speaker key.
- 74888** Fixed the issue with respect to the host status display “In a call” during a multiparty Lync conference call.
- 74175** When the phone presence state is set to “Be Right Back”, it will no longer change to “Offline” when the phone is left idle for a long period of time.
- 73797** The caller details are now displayed properly for the participants in the Lync consultative transfer.call.
- 72518** On the Lync soft client, only mobile platforms are categorized as mobile.
- 70723** The phone now fetches the correct available software from the Polycom provisioning server when the parameter `upgrade.plcm.server.url` is set correctly.
- 57864** Changing the SRTP parameters will now take effect immediately without rebooting the phone.

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.



Web Info: Find detailed descriptions of parameters and values

You can find descriptions of all parameters in the *Spectralink 84-Series Wireless Telephone Administration Guide*.

Table 2: Configuration File Enhancements for UCS 4.1.0

File	Modification	Parameter
feature	Added	apps.telNotification.appInitializationEvent
feature	Added	apps.telNotification.networkUpEvent
feature	Added	apps.telNotification.uiInitializationEvent
feature	Added	apps.telNotification.taInitializationEvent
feature	Added	apps.telNotification.uiInitializationEvent
feature	Added	device.baseProfile device.baseProfile.set

<i>File</i>	<i>Modification</i>	<i>Parameter</i>
feature	Added	dialplan.applyToForward
feature	Added	dialplan.x.applyToForward
feature	Added	locInfo.x.A1
feature	Added	locInfo.x.A3
feature	Added	locInfo.x.country
feature	Added	locInfo.x.HNO
feature	Added	locInfo.x.HNS
feature	Added	locInfo.x.label
feature	Added	locInfo.x.LOC
feature	Added	locInfo.x.NAM
feature	Added	locInfo.x.PC
feature	Added	locInfo.x.POD
feature	Added	locInfo.x.PRD
feature	Added	locInfo.x.RD
feature	Added	locInfo.x.STS
feature	Added	log.level.change.afe
feature	Added	log.level.change.ice
feature	Added	log.level.change.loc
feature	Added	log.level.change.ticket
feature	Added	log.level.change.xml
feature	Added	np.custom1.ringing.privateLine.tonePattern
feature	Added	np.custom1.ringing.privateLine.vibration
feature	Added	np.meeting.ringing.privateLine.tonePattern
feature	Added	np.meeting.ringing.privateLine.vibration
feature	Added	np.normal.ringing.privateLine.tonePattern
feature	Added	np.normal.ringing.privateLine.vibration

<i>File</i>	<i>Modification</i>	<i>Parameter</i>
feature	Added	np.silent.ringing.privateLine.tonePattern
feature	Added	np.silent.ringing.privateLine.vibration
feature	Added	prov.login.lcCache.domain
feature	Added	prov.login.lcCache.user
feature	Added	reg.x.dialPlanName
feature	Added	reg.x.lisdisclaimer
feature	Added	reg.x.lync.autoProvisionCertLocation
feature	Added	reg.x.ringType.privateLine
feature	Added	reg.x.serverAutoDiscovery
feature	Added	reg.x.srtp.simplifiedBestEffort
feature	Added	sec.srtp.simplifiedBestEffort
feature	Added	softkey.feature.simplifiedSignIn
feature	Added	tcplpApp.ice.mode
feature	Added	tcplpApp.ice.password
feature	Added	tcplpApp.ice.realm
feature	Added	tcplpApp.ice.username
feature	Added	tcplpApp.ice.stun.passwordServer
feature	Added	tcplpApp.ice.stun.server
feature	Added	tcplpApp.ice.stun.udpPort
feature	Added	tcplpApp.ice.tcp.enabled
feature	Added	tcplpApp.ice.turn.server
feature	Added	tcplpApp.ice.turn.tcpPort
feature	Added	tcplpApp.ice.turn.udpPort
feature	Added	voice.page.handsfree.rxag
feature	Added	voice.ptt.handsfree.rxag

Understanding Updates to UCS 4.0.2 REV B

New or enhanced features

- 72403** Added support for DHCP renew after loss and recovery of WiFi LAN connection (*applies to Spectralink 84-Series*).
- 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.

Enhanced capabilities

- 73667** The syslog counter on the Spectralink 84-Series phones are updated accordingly when audio packets are received.
- 75557** On the web interface of the phone, the logging module parameter WiFi Manager log value is updated in the field help section when the mouse is over parameter name as well as its value as (*applies to Spectralink 84-Series*).
- 76057** When a phone is registered with a single shared line, the Join soft key is no longer displayed inappropriately when the monitored phone puts the call on hold.
- 76084** In a shared BLF line scenario, the monitoring phone no longer resumes the call from the monitored phone without playing any busy tone.
- 76095** In a shared BLF line scenario, phone now displays the incoming call status of the monitored phone (*applies to VVX 500*).
- 76131** The phone default call appearance eliminates the display of remote on hold calls (*applies to VVX 500*).
- 76321/ 76515** The phone does not reboot when multiple URI's are pushed to the phone in frequent intervals. (*Customer issue ID VESC-1635, VESC-1650*).
- 76427** Phone displays only the incoming call received from a line that is also being monitored using BLF (used to display this as two calls in the list) (*applies to VVX 500*).
- 76467** Improved Call list display for caller ID with long names (*applies to VVX 1500*).
- 76591** Phones display the correct Asian language fonts for the Lync contacts.
- 76679** Unauthorized request for configuration files using phone web interface is now restricted.
- 76754** The Filtered call view of a BLF monitored line is shown properly when the phone is in off-hook state.
- 76862** During an active BLF call session, frequent pressing of the BLF key on the origination phone no longer causes the caller ID information to be blanked out.

- 76889** The PPT key can now be configured as a Speed dial key on the Spectralink 84-Series phones.
- 76911** The dialer screen UI on the phone is refreshed when an incoming ringing call is terminated.
- 76934** On-hook dialing work as expected when the phone has an incoming call and the remote party ends the call.
- 76939** The phone highlights the last incoming call as per the order in call appearance screen (*applies to VVX 500*).
- 76940** Incorrect soft key options no longer displayed on the BLF monitoring phone when there is an incoming call in certain scenarios.
- 76944** Auto Answer now works correctly when alert information header carrying the string within the angle brackets '< >' is received.
- 76946** The phone current draw is optimized as per its state (*applies to Spectralink 84-Series*).
- 76947** The audio/ sound effect termination is always on the dock station when there is an active call on the phone (*applies to Spectralink 84-Series*).
- 76949** The browser application on the phone times out as expected (*applies to Spectralink 84-Series*).
- 76976** The phone no longer inadvertently goes off-hook on line1 instead of line2 when the user presses the second line key while lifting the handset with call hold on line1.
- 77099** Manual configuration of the IP address no longer causes a 'network is down' message to be displayed (*applies to SoundStation IP 6000, 7000*).
- 77135** Addressed some Directed call pickup failures in certain situations.
- 77173** Turning the backlight OFF on the phone no longer sends the browser to the session list (*applies to Spectralink 84-Series*).
- 77226** When the phone is registered to a Lync line and another call server, the Lync contact presence subscription is now correctly sent through the Lync registered line.
- 77363** Addressed the issue that could cause a reboot when the user has many buddy contacts configured (*applies to VVX 500*). (*Customer issue ID VESC-1763*)
- 77396** Addressed a phone reboot issue in a certain ACD/ call center configuration (*Found in UCS 3.3.2*).
- 77549** Addressed an issue relating to use of the 'Join' key which was displayed even when only one call was in progress (*applies to SoundPoint IP 33x, SoundStation Duo and Spectralink 84-Series models*).
- 77626** Two way audio between the phones is now working as expected after resuming the call from MOH when volpProt.SIP.musicOnHold.uri or reg.X.musicOnHold.uri is used for the address of the MoH server.
- 77749** The registration failing issue with Lync server front end due to error in Subject Alternative Name (SAN) validation implementation is addressed.
- 77830** Addressed an issue where when the phone is configured with certain languages options, attempting to select LLDP or CDP using Ethernet caused a reboot (*applies to SoundStation IP 6000*).

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.

Table 3: Configuration File Enhancements for UCS 4.0.2B

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 the UCS 4.0.2



Admin Tip: Ensuring digitmap compatibility between UCS 4.0.1 and UCS 4.0.2 Rev B

The existing digitmap `dialplan.digitmap = [2-9]11|0T|011xxx.T|[0-1][2-9]xxxxxxxx| [2-9]xxxxxxxx| [2-9]xxxT` in the UCS 4.0.1 release where the phones were automatically pre-pending a + to outbound calls is now removed in UCS 4.0.2 Rev B.

For UCS 4.0.2 Rev B to be backwards compatible to UCS 4.0.1, the digitmap should be `dialplan.digitmap=RR+R[2-9]11|0T|RR+R011xxx.T|RR+R[0-1][2-9]xxxxxxxx|RR+R[2-9]xxxxxxxx|RR+R[2-9]xxxT`, or if the digitmap is to apply for a certain line, use `dialplan.1.digitmap=RR+R[2-9]11|0T|RR+R011xxx.T|RR+R[0-1][2-9]xxxxxxxx|RR+R[2-9]xxxxxxxx|RR+R[2-9]xxxT`.

Understanding Updates to UCS 4.0.2 (Limited Release)

This section list the additions and changes, removals, enhancements and configuration file parameter changes to the UC Software 4.0.2

Note: UC Software 4.0.2 is a limited release that was distributed only to select partners and customers and shipped with SoundStation Duo. The build-ID for this release was UCS 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 Spectralink 8452 Wi-Fi handset with 2D barcode reader.

Enhanced capabilities

- 69469** The display name with special character < or > causes phones to respond with a bad request.
- 73614** An unintentional touch on the phone initiates a call automatically (*applies to VVX 500*).
- 73946** On the Trapeze/ Juniper infrastructure, when multiple Spectralink 84-Series phones are involved in a call, one or more phones may lose wireless connectivity.
- 74292** The Bluetooth radio can now be activated on Spectralink 84-Series phones.
- 74427** On a redirected call, the phone now sends a PRACK (acknowledgement) message.
- 75299** The dialpad key presses are now captured when hot dialing from the idle browser screen (*applies to VVX500*).
- 75419** The ADHOC conference call now works when there is a + sign, for example, (SIP:voip+world@voipworld.com) in the Sip URI contact header.
- 75632** Slowness in dialing with large number of contacts on the phone is resolved (*applies to VVX 500*).
- 75686** The up and down arrow keys are now available on the phone during call transfer (*applies to SoundPoint IP450.*)
- 75726/ 75716** The phone numbers dialed using the auto complete remembers the line info on which the calls are placed earlier (*applies to Spectralink 84-Series, VVX500 and VVX1500*).
- 75811** Reassigning the line keys preserves the presence information.
- 75888** A scrolling status message is now displayed when a line is unregistered on the phone.
- 75945** When the phone is off hook, auto dialing remember the line information (*applies to Spectralink 84-Series, VVX500 and VVX1500*).
- 75954** The overlap of idle browser on the call list screen is now set (*applies to VVX 1500*).
- 75949/ 76258** The SoundStation Duo phone complies with clause 5.5.1.4.1 of Australian spec S002 of the Australian analog telephony specification as per clause 5.5.1.4.1 of Australian spec S002.
- 76141** The call lists on the VVX 1500 phone get updated as required.
- 76171** The phone no longer continuously reboots on reassignment of the line keys.
- 76229** A break down observed on the phone monitoring a BLF contact is now fixed. (*Customer issue ID VESC-1670*)

- 76315** The popup message *Error Line: Unregistered* will no longer appear as a result of an absence of a register request.
- 76316** The default hookflash timing is set on the SoundStation Duo when the country is set to Australia.
- 76329** Soft keys on the VVX 500 are now responsive to touch.
- 76376** An unregistered popup no longer appears the on SoundStation Duo in PSTN mode.
- 76379** Double quotes appended to the calling party display name on a shared line are now removed.
- 76408** Shared lines will continue to ring when another phone with the same shared line answers an incoming call on another line appearance.
- 76420** After reboot, the phone will correctly display incoming calls of a monitored BLF contact even on the first call.
- 76422** All the incoming call appearances on a BLF monitored phone are displayed when the monitoring phone cancels the call to the BLF contact.
- 76423** In a BLF monitored scenario, multiple calls to a monitored phone display the incoming call appearance and call counter appropriately.
- 76428** The phone will properly display incoming call appearance after terminating a call on phone using the End Call soft key.
- 76535** The phone will now correctly display a warning icon and a popup message for unregistered H.323 lines. (*applies to VVX 1500*)
- 76600** The blank call appearance on the monitoring BLF enabled phone is set.
- 76601/ 76685** In a multi-party BLF enabled call, the widget displaying the call appearance, counter, icons, and the indicator is updated with the appropriate incoming and outgoing call status.
- 76690** The phone now functions normally with the call appearance of the monitored BLF contacts.
- 76694** The phone will no longer crash when a monitored line ends the call that is associated with the remote call appearance screen.
- 76838** On a PSTN line the invocation of redial is restricted by pressing the # key after entering the digits (*applies to SoundStation Duo*).
- 76849** On a PSTN line pressing the # key is now restricted to send the dialed number only once (*applies to SoundStation Duo*).
- 76875** The phone now picks up the call forwarding settings from the override file after a reboot.

Configuration file enhancements

Refer to the following table for a list of new parameters. Note that these configuration parameters are detailed in *Feature Profile 76179: Hoteling and ACD*, which will be made available on [Polycom Profiled UC Software Features](#).

Table 4: UC Software Configuration File Enhancements for UCS 4.0.2

<i>File</i>	<i>Modification</i>	<i>Parameter</i>	<i>Modification Description</i>
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 84-Series product family, their properties and values, refer to the Spectralink 84-Series Wireless Telephone Deployment Guide.

Understanding Updates to UCS 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 sip.ld files in the software release package.

Understanding Updates to UCS 4.0.1

This section lists additions and changes, removals, enhancements, and configuration file parameter changes to the 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, 1500, SoundStation IP 5000, SoundStation Duo, and Spectralink 84-Series).
- 67090** Syslog now includes the ability to identify multiple audio streams (*applies to Spectralink 84-Series*).

- 67594** Added interoperability between the Message Waiting Indicator (MWI) and Microsoft Lync.
- 68500** The Spectralink 84-Series 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, 1500, SoundStation IP 5000, SoundStation Duo, and Spectralink 84-Series).
- 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 84-Series 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 84-Series*).
- 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 84-Series*).
- 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 84-Series*).
- 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 84-Series*).
- 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 84-Series*).
- 72193** In the phone menu, the Country Code field has been renamed to Regulatory Domain (*applies to Spectralink 84-Series*).
- 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/ 74129** The Spectralink 84-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 84-Series*).
- 72320** The phone displays a warning triangle when the WLAN Network Manager detects an invalid Regulatory Domain limit setting (*applies to Spectralink 84-Series*).
- 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 84-Series 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 84-Series 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 84-Series*).
- 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 84-Series*).
- 75469** The volume of PTT audio has been increased and setting the parameter `voice.handsfree.rxag.SL8440=10`, then updating the phone using Update Configuration does not cause the phone to restart (*applies to Spectralink 84-Series*).

Enhanced capabilities

- 55237** Dialing a semicolon using on-hook dialing no longer displays the off-hook dialing dialog (*applies to VVX 1500*).
- 61038** The phone no longer becomes unresponsive to hard key and touch screen presses for several seconds (*applies to VVX 1500 phones provisioned with CMA using UCS 3.3.1*).
- 66864** Using a dial plan containing #, when a user dials #1#2#, the phone now sends out an invite message containing %231%232%23 (*applies to SoundStation Duo*).
- 68356** The phones can now fragment packets when instructed to by an ICMP message (*applies to SoundStation IP 6000 and 7000*).
- 68501** When using Exchange Calendaring, the passcode now enters automatically (*applies to Spectralink 84-Series*).
- 68835** The phone can now properly sniff EAP type frames (*applies to VVX 1500*).
- 69020** SoundPoint IP phones capable of downloadable fonts now correctly display certain Czech characters.
- 69540** A call dropped by the other party no longer displays as a held call.
- 69558** An Avaya 10x0 and a VVX 1500 can successfully establish a video call.
- 69882** In PSTN only mode, a received call is now recorded in the *Received Calls* call list when the call is finished (*applies to SoundStation Duo*).
- 69883** In PSTN only mode, an incoming call is now recorded in the *Missed Calls* call list when the call is not answered (*applies to SoundStation Duo*).
- 70228** Phone no longer reboots when attempting a conference using an SCA line (*applies to SoundPoint 321, 331*).
- 70542** The registered line icon and BLF icon are no longer corrupted in the Spectralink 84-Series handsets.

- 70944** A dialed number no longer overwrites a registered line's label if the label is very long (*all SoundStation phones*).
- 71041** Phones can now play audio from the Lync voicemail system (*applies to Spectralink 84-Series*).
- 71348** Calls between a VVX and RMX no longer cause the VVX to crash and reboot.
- 71368** Remote shared line activity no longer affects local phone presence.
- 71433** Phones crash after loading `se.pat.callProg.dialTone` parameters and pressing the New Call button (*applies to SoundPoint IP 450, 650, and Spectralink 84-Series*).
- 71604** The configuration parameter `sec.TLS.SIP.strictCertCommonNameValidation` can be updated without requiring a phone reboot.
- 71616** The conference feature can now properly handle a 480 response to a BroadSoft SCA line seize SUBSCRIBE.
- 71763** Phone no longer sends a re-INVITE to the conference server after sending a REFER for each leg of the conference (*applies to SoundPoint 321, 331*).
- 71764** Sennheiser and Jabra headsets can now go off-hook after switching to a different headset type (*applies to SoundPoint IP 335, 450, 550, 650*).
- 71802** Warning icons and records are now removed after the error condition is removed (*applies to all SoundPoint IP*).
- 71829** An EFK has been created to display the corporate directory Advanced Find menu from the idle screen (*applies to VVX 1500*).
- 71910** The text 'Enter password' in the Advanced menu is now translated when switching phone languages.
- 72113** The Spectralink Quick Barcode Connector icon now appears and disappears for both multiple and single endpoint modes (*applies to Spectralink 84-Series*).
- 72250** The phone no longer reboots when queued messages are accessed on the phone (*applies to Spectralink 84-Series*).
- 72368** URL Dialing from the call list is now fully disabled when `feature.urlDialing.enabled=0` (*applies to Spectralink 84-Series*).
- 72442** The SoundPoint IP 321 and 331 phones now display the correct call x/ y widget when `filterReflectedBlDialogs=0`.
- 72298** The Join soft key is no longer missing after establishing the maximum number of calls on all the lines using when using a Sylanro call server (*applies to SoundPoint IP 650 and VVX 1500*).
- 72469** When `feature.urlDialing.enabled` is set to 0, the phone accepts contact entries with a contact number longer than 10 digits (*applies to Spectralink 84-Series*).
- 72739** The phones can now play the audio files using the microbrowser (*applies to all SoundStation phones*).

- 72800** Lines registered to a Microsoft Lync 2010 server now display in the Ring Type menu (Menu > Settings > Basic > Ring Type).
- 72820** The VVX 1500 phone can be registered with up to 29 lines, but a max of 24 can be displayed.
- 72822** Phone no longer gets into a bad state (which required an auto-reboot) upon receiving two consecutive 401 to a line-seize SUBSCRIBE during conference initiation.
- 72837** The speed dial icon no longer disappears after a Reset Local Config or Reset Web Config option is selected (*applies to SoundPoint IP 321, 331, 331C, 335, 335C*).
- 72895** The phone override file is no longer created on the provisioning server when values are not changed through the phone (*applies to VVX 1500*).
- 72907** Improved the phone's conference call management when a cell phone is connected to the 2.5mm port (*applies to SoundStation Duo and SoundStation IP 7000*).
- 72961** Bellcore Caller ID detection in PSTN mode works reliably now (*applies to SoundStation Duo*).
- 72996** A conference call between three parties now successfully connect all parties after there is a no response to line seize SUBSCRIBE.
- 73027** A Plantronics Savi740 EHS headset no longer has intermittent pairing issues with a VVX 1500.
- 73054** Call appearances are now displayed correctly when pressing the New Call soft key while there is an incoming call (*applies to SoundStation Duo*).
- 73084** Key in Keypad Diagnostics menu is now translated on SoundPoint IP 321, 331, and 335 phones for all languages.
- 73145** Regulatory Domain Error when radio set to 802.11a and band1 is set to P6 (*applies to Spectralink 84-Series*).
- 73153** Hot dial window now disappears after auto answering a call (*applies to SoundPoint IP 450, 650*).
- 73183** Phone now displays the error message 'Network link is down' when the DHCP server is down (*applies to SoundPoint IP 335, 450, 560, 670*).
- 73195** The bootloader menu for WEP has the correct spelling of Encryption (*applies to Spectralink 84-Series*).
- 73227** The phone UI now displays the proper network parameters such as IP address, subnet mask, and IP gateway when DHCP is enabled (*applies to SoundStation Duo*).
- 73238** Changing the options in the directory search, then logging into the phone no longer causes the phone to restart (*applies to SoundPoint IP 321, 331, 331C, 335, 335C*).
- 73247/ 74912** In the Quick Setup menu, user entry fields are now set to numeric as default.
- 73259** Simultaneous incoming and monitored BLF calls are now both displayed on the unified call appearance list (*applies to SoundPoint IP 450, 550, 560, 650, 670*).
- 73263** Ending a PTT or page no longer causes the active call appearance to disappear for 10 seconds (*applies to SoundPoint IP 450, 550, 560, 650, 670*).

- 73264** A phantom call appearance no longer displays when there is an active BLF monitored call and the phone has another call appearance.
- 73290** The User Profiles Log In soft key is no longer missing when the feature presence is enabled (*applies to SoundPoint IP 670*).
- 73401/ 74688** With intercom configured, the handset now rings once and incoming calls are answered automatically (*applies to Spectralink 84-Series*).
- 73405** The Missed Calls list no longer displays on a peer shared line if the call was barged in from a remote shared line (*applies to SoundPoint IP 321, 331, and 335*).
- 73409** In the Web Configuration Utility, all instances of the text 'extension module' have been replaced with 'expansion module'.
- 73419** When the IP 670 is configured for 34 lines using three expansion modules, a large contact directory, LDAP, idle browser, and a microbrowser, it no longer crashes due to a lack of memory.
- 73459** The User Profiles feature is now fully supported on the SoundStation Duo.
- 73527** If barge-in is enabled on a shared line, remote active calls will not appear.
- 73561** When using the Web Configuration Utility, the phone now updates the line key icons properly when static BLF is configured (*applies to SoundPoint IP 450, 550, and 650*).
- 73697** The flash timing is now correct for France and Singapore (*applies to SoundStation Duo*).
- 73749** Plugging in (or in and out) a 2.5mm mobile phone or PC cable no longer causes the phone to reboot (*applies to SoundStation Duo*).
- 73910** The phone's LCD contrast no longer turns darker after upgrading to UCS 4.0.0 (*applies to SoundPoint IP 450*).
- 74018** The phone no longer locks up and reboots when there are a large number of incoming calls (*applies to SoundPoint IP 650*).
- 74045** The phone can now boot up to the idle screen properly after being issued a check sync to enable the paging feature soft key.
- 74050** Phone no longer segfaults on boot due to language dictionary files (*applies to all SoundPoint IP*).
- 74060** OAI PT Select Connections are now accepted by phone before an OAI call is answered by the Start key (*applies to Spectralink 84-Series*).
- 74167** In the Web Configuration Utility, the authentication password can no longer be seen in clear text when opening the line page source code.
- 74259** In PSTN mode, the phone now displays the date and time information on the idle screen after a reboot (*applies to SoundStation Duo*).
- 74431** Phone no longer generates a beep sound when a monitored user goes off-hook (*applies to SoundPoint 650*).
- 74956** Phone will no longer go into an INVITE loop and reboot if it receives a 503 response to its initial INVITE message (*applies to all SoundPoint IP*).

- 74991** A call between a VVX 1500 and CX series phone can now be properly resumed after it has been held for longer than 30 seconds.
- 75151** Audio files are now directly downloaded to the ramdisk.
- 75194** The phones now use an outbound proxy when an outgoing call's URI domain is different from the caller's domain.
- 75334** Fail over on a 503 response can now be disabled.
- 75458** The maximum values for the DNS TTL parameters in the static cache have changed to 2147483647.
- 75485** The default input type for the Unavailable Code field is now numeric.
- 75491** Ampersand characters are now escaped properly and are no longer being stripped off of a URL (*applies to VVX 500, 1500*).
- 75743** The Voice Quality monitoring feature now uses an outbound proxy server address for a SIP Publish.
- 75600** The call appearance for an outgoing call no longer displays the *transport* string.
- 75618** Users can now place a call from the Placed Calls call list when the original call was placed using a Click-To-Dial Refer message with Refer-To: header as *sip:number ext. number @IPaddress; transport=TCP (applies to Spectralink 84-Series)*.

Configuration file enhancements

Refer to [Table 5: Software Version 4.0.1 – Configuration File Parameter Enhancements](#) for a list of enhancements made to the UC Software 4.0.1 configuration file parameters.



Web Info: Find detailed descriptions of parameters and values

You can find descriptions of all parameters in the *Spectralink 84-Series Wireless Telephone Administration Guide*.

Table 5: Software Version 4.0.1 – Configuration File Parameter Enhancements

<i>File</i>	<i>Modification</i>	<i>Parameter</i>	<i>Modification Description</i>
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

<i>File</i>	<i>Modification</i>	<i>Parameter</i>	<i>Modification Description</i>
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
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).

<i>File</i>	<i>Modification</i>	<i>Parameter</i>	<i>Modification Description</i>
pstn	Changed	up.operMode	The default value changed from 0 to <i>auto</i> .
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.failoverOn503 Response	The default value changed from 1 (enabled) to 0 (disabled).

Understanding Updates to UCS 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 84-Series*).
- 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=xxxxxxx (default null)
dialplan.routing.emergency.outboundIdentity.lldp=xxxxxxx (default null).
- 51471** Added a configuration option to disable the test of subject's CommonName against the registration address (associated with CA management).
- 52844** Added certificate validation for 802.1X.
- 53128** Added a configuration option to modify the Backlight timeout duration.
- 53360** Added the ability to display the phones current ARP table in the diagnostic menu (*applies to Spectralink 84-Series*).
- 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 84-Series 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 84-Series*).
- 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.
- 71633** The Reset setting in the Updater menu does not erase the CA and Device Certificates.

Enhanced capabilities

- 31158** Instant messages can now be sent if `msg.bypassInstantMessage=1`. The phone menu will no longer be bypassed after pressing the Messages button.
- 38407** After reboot, the phones now transmit a TCP message to the outbound proxy address.
- 39249** Distortion on sound from a gateway call back has been removed (*applies to SoundPoint IP 330, 550, 560, and 650*).
- 40103** The file name of a file copied to a full USB stick full no longer displays (*applies to SoundPoint IP 650 and 670*).
- 40393** The backlight adjustment has been adjusted to work correctly when the incoming call times out.
- 41662** The buzzing sound heard on the far end user in handsfree mode when a call is answered while ringing has been removed (*applies to SoundPoint IP 550, 650, and 670*).
- 41897** The sound heard on the phone when attempting to cancel a conference or transfer has been removed.
- 42427** On the phone microbrowser, the thin line over the data field has been removed.
- 42442** The Select hard key has been made functional in the speed dial menu (*applies to SoundPoint IP 330*).
- 43822** When there is an active call, the backlight now adjusts properly.
- 43846** The menu widget now scales to the correct size of the menu (*applies to Spectralink 84-Series*).
- 43864** The Soft key, line key and status widgets can now be scaled (*applies to Spectralink 84-Series*).
- 44981** The phone now seizes the correct line for speed dial when `call.stickyAutoLineSeize.onHookDialing=1`.
- 45411** The SoundPoint IP 550 and 650 speaker phone volume can now be adjusted via gain settings for Rx audio.
- 45806** An unsupported format message no longer appears when trying to play a short WAV file.

- 45889** Lighten and Darken soft keys now display for the selected background image only in the Background menu (*applies to SoundPoint IP 450, 550, 560, and 650*).
- 45900** The time and date now display on the multiple call appearances screen (*applies to SoundPoint IP 450*).
- 46134** The phones now play a default ringtone when the ringtone size is larger than the tone quota or the ringtone is not in the cache.
- 46170** On the phone menu, the Local Directory or Corporate Directory cursor can now reach the end of the highlighting bar (*applies to SoundPoint IP 450*).
- 46773** On the microbrowser, the backspace soft key is now made available when the user enters a character to the input box (*applies to SoundPoint IP 320, 330, 430, and 450*).
- 48153** In the phone menu password settings, deleting a character before the character timeout now clears the last asterisk symbol.
- 48217** When `ramdisk.nBlocks=0` is set, `ramdisk.nBlocks` no longer consumes extraneous memory.
- 48753** The XML dictionary download no longer fails when the dictionary file size exceeds the defined size.
- 50234** The phone no longer crashes while starting a native application (*applies to Spectralink 84-Series*).
- 50633** When the user enters text for a contact in the Contact Directory, the backspace soft key now appears before the character selection widget for the first character has closed (*applies to SoundPoint IP 330 and 331*).
- 50735** After a conference call, redial now dials the last dialed number (*applies to SoundPoint IP 330 and 335*).
- 50745** Pressing the hookswitch toggle quickly no longer creates a phone and headset mismatch.
- 50766** During a save confirmation screen, if there is a missed call, the contact can now be saved. (*SoundPoint IP 330, 331, and 335*).
- 50788** When the user tries to play a recorded audio file from Menu/ Status/ Diagnostics/ Test Hardware/ Audio Diagnostics on different termination points (Handsfree/ Headset/ Handset), the icons are now updated (*applies to SoundPoint IP 450*).
- 50972** SIP call format is no longer missing for URL dialing (*applies to SoundPoint IP 330 and 335*).
- 51238** In the Install Custom CA Certificate menu on the phone, the 1/ A/ a soft key is no longer missing (*applies to SoundPoint IP 450, 550, 560, 650, and 670*).
- 51301** A loud ring has been removed from the speaker when canceling a conference call or switching between calls.
- 51493** When call forward is enabled on the second registered line, phones now display the text string Call Forward Enabled on the top of the UI (*applies to SoundPoint IP 450, 550, 560, 650, and 670*).

- 51751** When there are multiple calls waiting, dropping one remote party now plays the call waiting ring on the originating phone.
- 51767** The phone no longer crashes when trying to add a large number of contacts.
- 51930** The phone now shows *Connecting:* instead of *Transfer to:* on the top UI when initiating a transfer (*applies to SoundPoint IP 330 and 335*).
- 51994** When the contact is highlighted in the Contact Directory, pressing the character selection widget no longer erases the highlight bar (*applies to SoundPoint IP 330, 331, and 335*).
- 51996** Trying to dial an invalid speed dial number no longer causes slight corruption in the phone UI (*applies to SoundPoint IP 330, 331, and 335*).
- 52006** The call waiting tone no longer changes to a single beep when a double beep is configured on the phone.
- 52007** When a call is automatically disconnected at the far end phone after time out, the current active call no longer goes on hold inadvertently.
- 52103** The phones no longer display the first line label in scrolling status bar when it is visible (*applies to SoundPoint IP 330, 331, and 335*).
- 52112** In the phone Contact Directory menu, when the 1/ A/ a soft key is pressed to change the capitalization of the letters, the encoding no longer resets to ASCII (*applies to SoundPoint IP 450, 560, and 670*).
- 52219** In the phone Audio Diagnostics Menu, pressing the left arrow to exit now restores the previously selected termination state (*applies to SoundPoint IP 450, 560, and 670*).
- 52270** Backlight values now match the phone menu option and override file parameters.
- 52276** When a call is answered automatically while a recorded WAV file is playing the audio player screen now exits properly (*applies to SoundPoint IP 650*).
- 52380** When the phone lines are configured to call server and presence server respectively, the presence information now displays on the first line as well as the presence line.
- 52489** Character encoding is no longer available while entering the contact information in the contact directory (*applies to SoundPoint IP 430, 550, 650, and 670*).
- 52552** The momentarily observed UI corruption/ flickering during an incoming call with a long caller ID has been resolved (*applies to SoundPoint IP 330, 331, and 335*).
- 52560** Menu titles now fit in the phone UI (*applies to SoundPoint IP 330, 331, and 335*).
- 52688** Enhanced the `mb.main.idleTimeout` parameter behavior.
- 52692** The character entry mode now shows consistently when entering passwords in the phone menu (*applies to SoundPoint IP 450, 560, and 670*).
- 52734** The password field now clears after entering an invalid password (*applies to SoundPoint IP 330, 331, and 335*).
- 52766** The speaker/ headset key LED no longer remains ON when the active call is on hold while there is an incoming call on the same line (*applies to SoundPoint IP 550, 560, 650, and 670*).

- 52789** The phone settings menu now has an appropriate label for the menu item in Handsfree Mode.
- 52917** In the phone Install Custom CA Cert menu, the character selection widget no longer remains visible when closed (*applies to SoundPoint IP 330, 331, and 335*).
- 52920** When a custom CA cert URL is unreachable, an appropriate message now displays on the phone.
- 52945** Inappropriate characters no longer display in the quick search menu (*applies to SoundPoint IP 330, 331, and 335*).
- 52948** When long text is entered in the quick search menu, the text now moves forward and displays the last character (*applies to SoundPoint IP 330, 331, and 335*).
- 53055** When composing a new instant message and if there is a new incoming instant message, the UI no longer becomes corrupted (*applies to SoundPoint IP 560 and 670*).
- 53101** VQMon values displayed on the SQmediator are now the same as the single SIP-Publish packet values.
- 53138** Instant messaging strings now have spaces in between words in all instances.
- 53142** Extra spaces at the beginning and end of the phone labels have been removed.
- 53235** Extra spaces in the phone exit menu have been removed.
- 54147** The phone conference screen titles are no longer truncated when using certain languages (*applies to SoundPoint IP 330, 331, and 335*).
- 54449** The phone no longer displays an error message when trying to edit a long contact number.
- 54553** When the user tries to use two lines to dial, the user no longer sees a scrolling message instead of Enter Number text (*applies to SoundPoint IP 450, 650, and 670*).
- 54913** In a BLF scenario, when the monitored phone places a call to another phone, the Dialog Event Package no longer contains repeated remote identity when its INVITE has received an initial 407 or 401 response.
- 55639** When the enhanced BLF feature is enabled on an active call, the call state no longer changes in the call appearance for monitored users (*applies to SoundPoint IP 650*).
- 55655** Pressing the message hard key now leads the user to voicemail (*applies to SoundPoint IP 450, 550, 560, 650, and 670*).
- 55669** When the phone is configured as TCP only, and the phone receives a REFER in UDP, the phone now sends an INVITE in TCP.
- 55681** When transport is set to TCP, Refer-Based Click-To-Dial now works when the phone has an active call.
- 55852** When the phone is in the setup menu, pressing * key now always moves a page up (*applies to SoundPoint IP 450, 550, 560, 650, and 670*).
- 55957** When the BLF feature is enabled, the remote call appearance screen now properly times out and does not wait until the call is ended by the monitored user.

- 57538** In the phone menus, field names no longer truncate when the user tries to make edits (*applies to Spectralink 84-Series*).
- 57625** Applications are now loading as per the order specified (*applies to Spectralink 84-Series*).
- 58860** When the forward feature is enabled, the number of rings set now matches the actual ring cadences.
- 59086** When the phone is configured to an external server like CMA, the phone clock format (12 hrs – 24hrs) does not get affected until the phone reboots.
- 59202** When the phone loses an active call on hold, pressing resume no longer drops the call.
- 59285** The phone no longer shows a delete (<<) soft key when there are no numbers to delete (*applies to SoundPoint IP 330, 331, and 335*).
- 59355** The phone no longer logs error messages when it is unable to connect to any of the telephony notification URLs.
- 59463** When using the phone's Web configuration, the phone no longer restarts when updating telephony notification event or URL.
- 59478** In the phone digit map, segments longer than 40 characters no longer truncated to 40 when applied.
- 61100** Added the ability to override complex audio codec instance count definition for each individual codec type.
- 61553** The phone no longer crashes when trying to split a conference service which is unavailable.
- 63190** The macro \$FServerACDSignIn\$ now works when configuring the soft key using EFK to exercise the ServerACDSignIn function.
- 63582** The excessively long boot time resulting from FTP errors and failures has been noticeably decreased (*applies to Spectralink 84-Series*).
- 64389** Added the ability to set the correct TLS Profile using the Updater and/ or Application UI menus.
- 64455** There is no longer a delay between the time the Push URL is sent to the phone and the time it takes the browser to execute the fetch URL (*applies to Spectralink 84-Series*).
- 64464** The phones no longer wait to auth/ re-associate to AP until AP starts the full security exchange (*applies to Spectralink 84-Series*).
- 64693** The payload settings specified by the phone are now used by the receiving phone.
- 64932** When the server side Call Forward No Answer (CFNA) is enabled, the user no longer has the option to select the number of rings on the local phone.
- 65081** The user is now able to navigate on the phone menus having select options available (*applies to Spectralink 84-Series*).
- 65082** The radio performance has been improved to reduce the reported number of missed packets and high retry rates (*applies to Spectralink 84-Series*).

- 65255** Selected options on the menus no longer disappear when selected from the phone navigation right hard key (*applies to Spectralink 84-Series*).
- 65275** When persistence login is enabled for default, the user log out no longer reboots the phone.
- 65309** Incorrect soft key options no longer show up when certain selections are invoked in the menu/ UI (*applies to Spectralink 84-Series*).
- 65337** The phones now provision correctly via HTTPS.
- 65622** In case of emergency failover, the correct information with Invite request is routed (*applies to SoundPoint IP 450, 650, and 335*).
- 66582** In the quick setup menu, the unwanted Ok soft key no longer appears while changing the Boot server options (*applies to Spectralink 84-Series*).
- 66975** The voicemail icon now displays when there is a voice mail notification on the phone (*applies to Spectralink 84-Series*).
- 67928** In the phone buddy list, the popup message *Contact already exists* has been resolved.
- 68345** The phone dial pad keys now wake/ light up when the phone comes back from the power save mode (*applies to Spectralink 84-Series*).
- 68533** A reboot is no longer necessary to change the parameter `voIpProt.SIP.conference.address` in the configuration files.
- 69372** During an IM chat session, the phone now displays all messages using the same quick note string (*applies to Spectralink 84-Series*).
- 69373** When provisioning TLS applications, the CommonName of a server certificate is now configurable with the new configuration option.
- 69374** User interface changes have been made in the Application menu and BootROM menu for SIP and Provisioning applications respectively to make CommonName configurable.
- 69929** When the BLF feature is enabled, the monitored BLF line status now updates as busy after the attendant phone transfers a call to that line (*applies to SoundPoint IP 650*).
- 69965** When the soft key is configured with capital HTTP in the URL, it no longer tries to dial instead of using the phone microbrowser.
- 70258** Resetting the phone to factory settings no longer clears the password (*applies to Spectralink 84-Series*).
- 70458** Text on the input fields and soft keys are now properly displayed.
- 70547** Download Custom CA Cert screen now disappears after saving a certificate (*applies to all SoundPoint IP*).
- 70633** The phone no longer mishandles 403 responses to first REFER sent to phone to centralized conference server.
- 70732** The links on the microbrowser page are no longer hidden when the links are highlighted and moves to another link.

- 70908** When using user profiles, the phone no longer powers off at the user login prompt (*applies to Spectralink 84-Series*).
- 71046** When the phone is in a conference call and a roaming attempt is made, the access point no longer rejects the reassociation request (*applies to Spectralink 84-Series*).
- 71103** When the phone is configured as per call center mode, call hold is no longer treated as a missed call (*applies to SoundPoint IP 650*).
- 71156** When there is an active call between two parties, accepting another call no longer makes the phone vibrate continuously when the mode is set to Ring and Vibrate (*applies to Spectralink 84-Series*).
- 71913** Registered lines now display on Expansion modules (*applies to SoundPoint IP 650, 670*).

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`, [Table 6: Software Version 4.0.0 – Configuration File Parameter Enhancements](#) abbreviates these parameters as `device.wifi.*`



Settings: Parameters With .set

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



Web Info: Find detailed descriptions of parameters and values

You can find descriptions of all parameters in the *Spectralink 84-Series Wireless Telephone Administration Guide*.

Table 6: Software Version 4.0.0 – Configuration File Parameter Enhancements for UCS 4.0.0

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
Discontinued	<code>apps.x.Label</code>	Productivity Applications parameter
Discontinued	<code>apps.x.Url</code>	Productivity Applications parameter

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

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
Discontinued	voice.aes.hd.duplexBalance	Audio parameter
Discontinued	voice.aes.hf.* The parameter voice.aes.hf.enable has not been removed	Audio parameters
Discontinued	voice.aes.hs.duplexBalance	Audio parameter
Discontinued	voice.gain.rx.digital.ringer.* The parameter voice.gain.rx.digital.ringer has also been removed	Audio parameters
Discontinued	voice.handset.wideband	Audio parameter
Discontinued	voice.rxEq.hf.postFilter.* The parameter voice.rxEq.hf.postFilter.enable has not been removed	Audio parameters
Discontinued	voice.rxEq.hf.preFilter.* The parameter voice.rxEq.hf.preFilter.enable has not been removed	Audio parameters
Discontinued	voice.rxEq.hs.postFilter.* The parameter voice.rxEq.hs.postFilter.enable has not been removed	Audio parameters
Discontinued	voice.rxEq.hs.preFilter.* The parameter voice.rxEq.hs.preFilter.enable has not been removed	Audio parameters
Added	apps.x.label	Productivity Applications parameter
Added	apps.x.url	Productivity Applications parameter
Added	apps.push.secureTunnelEnabled	Productivity Applications parameter
Added	apps.push.secureTunnelPort	Productivity Applications parameter
Added	apps.push.secureTunnelRequired	Productivity Applications parameter
Added	apps.statePolling.responseMode	Productivity Applications parameter
Added	apps.telNotification.callStateChangeEvent	Productivity Applications parameter
Added	apps.telNotification.userLogInOutEvent	Productivity Applications parameter
Added	apps.ucdesktop.* The parameter apps.ucdesktop.enabled has existed in previous versions	Productivity Applications parameters
Added	bg.color.*	Background parameter
Added	bluetooth.radioOn	Call feature parameter

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
Added	call.advancedMissedCalls.*	Call feature parameters
Added	call.callWaiting.enable	Call feature parameter
Added	call.localConferenceEnabled	Call feature parameter
Added	callLists.*	Call feature parameters
Added	device.hostname	Provisioning parameter
Added	device.net.dhcpBootServer	Provisioning parameter
Added	device.net.dot1x.*	Provisioning parameters
Added	device.pacfile.*	Provisioning parameters
Added	device.prov.upgradeServer	Provisioning parameter
Added	device.sec.TLS.*	Provisioning parameters
Added	device.usbnet.*	Provisioning parameters
Added	device.wifi.*	Provisioning parameter
Added	dialplan.applyToPstnDialing	Call feature parameter
Added	dialplan.routing.emergency.outboundIdentity	Call feature parameter
Added	dialplan.routing.emergency.outboundIdentity.lldp	Call feature parameter
Added	dialplan.routing.ermgency.preferredSource	Call feature parameter
Added	exchange.meeting.*	Productivity Applications parameter
Added	exchange.server.url	Productivity Applications parameter
Added	feature.audioVideoToggle.enabled	Call feature parameter
Added	feature.bluetooth.enabled	Call feature parameter
Added	feature.enhancedCallDisplay.enabled	Call feature parameter
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

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
		parameter
Added	<code>httpd.ta.secureTunnelPort</code>	Web Configuration Utility parameter
Added	<code>httpd.ta.secureTunnelRequired</code>	Web Configuration Utility parameter
Added	<code>ind.pattern.blink.*</code>	LED indicator parameter
Added	<code>ind.pattern.flashSlow2.*</code>	LED indicator parameter
Added	<code>lcl.x.pstnCountry</code>	Multilingual parameter
Added	<code>lcl.aidt</code>	Multilingual parameter
Added	<code>lcl.callerId</code>	Multilingual parameter
Added	<code>lcl.callerIdType</code>	Multilingual parameter
Added	<code>lcl.country.*</code> The parameter <code>lcl.country</code> has also been added	Multilingual parameters
Added	<code>lcl.dtmfLevel</code>	Multilingual parameter
Added	<code>lcl.dtmfTwist</code>	Multilingual parameter
Added	<code>lcl.flashTiming</code>	Multilingual parameter
Added	<code>lcl.pstnCountryIndex</code>	Multilingual parameter
Added	<code>lineKey.*</code>	Flexible line key assignment parameters
Added	<code>log.level.change.barcd</code>	Log parameter
Added	<code>log.level.change.bluet</code>	Log parameter
Added	<code>log.level.change.clist</code>	Log parameter
Added	<code>log.level.change.daa</code>	Log parameter
Added	<code>log.level.change.dock</code>	Log parameter
Added	<code>log.level.change.drvtb</code>	Log parameter
Added	<code>log.level.change.oaip</code>	Log parameter
Added	<code>log.level.change.ocsp</code>	Log parameter
Added	<code>log.level.change.pdc</code>	Log parameter
Added	<code>log.level.change.pres</code>	Log parameter
Added	<code>log.level.change.pstn</code>	Log parameter
Added	<code>log.level.change.ptt</code>	Log parameter
Added	<code>log.level.change.rtls</code>	Log parameter

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
Added	<code>log.level.change.tls</code>	Log parameter
Added	<code>log.level.change.wifi</code>	Log parameter
Added	<code>log.render.stdout.*</code> The parameter <code>log.render.stdout</code> has existed in previous versions	Log parameter
Added	<code>mb.main.toolbar.autoHide.*</code> The parameter <code>mb.main.toolbar.autoHide.enabled</code> has existed in previous versions	Microbrowser parameters
Added	<code>messaging.*</code>	Spectralink 84-Series instant messaging parameters
Added	<code>np.*</code>	Spectralink 84-Series notification profiles parameters
Added	<code>oai.*</code>	Spectralink 84-Series Open Application Interface parameters
Added	<code>prov.login.*</code>	Distributed polling parameters
Added	<code>prov.loginCredPwdFlushed.enabled</code>	Distributed polling parameter
Added	<code>prov.polling.timeRandomEnd</code>	Distributed polling parameter
Added	<code>prov.startupCheck.enabled</code>	Provisioning parameter
Added	<code>pstn.*</code>	
Added	<code>ptt.*</code>	Paging and push-to-talk parameters
Added	<code>qbc.*</code>	Spectralink 84-Series quick barcode connector parameters
Added	<code>qos.ethernet.*</code> The parameters <code>qos.ethernet.callControl.user_priority</code> , <code>qos.ethernet.other.user_priority</code> , <code>qos.ethernet.rtp.user_priority</code> , and <code>qos.ethernet.rtp.video.user_priority</code> existed in previous versions	Spectralink 84-Series QoS parameters
Added	<code>reg.x.auth.domain</code>	Call feature parameter
Added	<code>reg.x.auth.useLoginCredentials</code>	Call feature parameter
Added	<code>reg.x.gruu</code>	Call feature parameter
Added	<code>reg.x.server.y.specialInterop</code>	Call feature parameter
Added	<code>reg.x.server.y.useOutboundProxy</code>	Call feature parameter
Added	<code>reg.x.srtp.enable</code>	Call feature parameter
Added	<code>reg.x.srtp.offer</code>	Call feature parameter
Added	<code>reg.x.srtp.require</code>	Call feature parameter

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
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
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.strictCertCommonNameValidatio n	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

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
Added	<code>sec.srtp.holdWithNewKey</code>	Security parameter
Added	<code>sec.srtp.mki.length</code>	Security parameter
Added	<code>sec.srtp.resumeWithNewKey</code>	Security parameter
Added	<code>softkey.x.insert</code>	Security parameter
Added	<code>tcpIpApp.fileTransfer.waitForLinkIfDown</code>	IP parameter
Added	<code>tone.chord.misc.A3Major.*</code>	Tone parameters
Added	<code>tone.chord.misc.C3Major.*</code>	Tone parameters
Added	<code>tone.chord.misc.Db3Major.*</code>	Tone parameters
Added	<code>tone.chord.misc.E3Major.*</code>	Tone parameters
Added	<code>tone.chord.misc.cs12.*</code>	Tone parameters
Added	<code>up.25mmRealTime</code>	User preferences parameter
Added	<code>up.backlight.timeout.*</code> The parameter <code>up.backlight.timeout</code> has also been added	User preferences parameters
Added	<code>up.cfgWarningsEnabled</code>	User preferences parameter
Added	<code>up.displayOperMode</code>	User preferences parameter
Added	<code>up.headsetOnlyAlerting</code>	User preferences parameter
Added	<code>up.hearingAidCompatibility.enabled</code>	User preferences parameter
Added	<code>up.hideDateTimeWhenNotSet</code>	User preferences parameter
Added	<code>up.multiKeyAnswerEnabled</code>	User preferences parameter
Added	<code>up.operMode</code>	User preferences parameter
Added	<code>up.pstnSetup</code>	User preferences parameter
Added	<code>up.warningLevel</code>	User preferences parameter
Added	<code>upgrade.*</code>	Provisioning parameter
Added	<code>video.callMode.default</code>	Video parameter
Added	<code>video.debug</code>	Video parameter
Added	<code>voIpProt.SIP.dialog.strictXLineId</code>	Call feature parameter
Added	<code>voIpProt.SIP.IM.autoAnswerDelay</code>	Call feature parameter
Added	<code>voIpProt.SIP.mtls.enable</code>	Call feature parameter
Added	<code>voIpProt.SIP.pingMethod</code>	Call feature parameter
Added	<code>voIpProt.server.x.specialInterop</code>	Call feature parameter

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
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
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.*	Wifi parameters

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
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
Changed	device.dhcp.* The parameter device.dhcp.bootSrvOpt has not been changed	Provisioning parameters
Changed	device.dns.*	Provisioning parameters
Changed	device.em.power	Provisioning parameter
Changed	device.line.*	Provisioning parameters
Changed	device.net.* The parameters device.net.dhcpBootServer, device.net.IPgateway, device.net.subnetMask, and device.net.vlanId have not been changed	Provisioning parameters
Changed	device.ntlm.versionMode	Provisioning parameter
Changed	device.prov.* The parameters device.prov.password, device.prov.serverName, device.prov.upgradeServer, and device.prov.user have not been changed	Provisioning parameters
Changed	device.serial.enable	Provisioning parameter
Changed	device.sntp.gmtOffset	Provisioning parameter
Changed	device.syslog.* The parameter device.syslog.serverName has not been changed	Provisioning parameters
Changed	dialplan.x.digitmap	Call feature parameter
Changed	dialplan.x.routing.server.y.transport	Call feature parameter
Changed	dialplan.digitmap	Call feature parameter
Changed	dialplan.digitmap.timeOut	Call feature parameter
Changed	dialplan.impossibleMatchHandling	Call feature parameter
Changed	dialplan.removeEndOfDial	Call feature parameter
Changed	dialplan.routing.server.x.transport	Call feature parameter
Changed	dir.H350.dev.attribute.x.type	Directory parameter
Changed	dir.H350.dev.transport	Directory parameter

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
Changed	<code>dir.H350.group.attribute.x.type</code>	Directory parameter
Changed	<code>dir.H350.group.transport</code>	Directory parameter
Changed	<code>dir.H350.person.attribute.x.type</code>	Directory parameter
Changed	<code>dir.H350.person.transport</code>	Directory parameter
Changed	<code>dir.corp.attribute.x.type</code>	Directory parameter
Changed	<code>dir.corp.transport</code>	Directory parameter
Changed	<code>dir.local.nonVolatile.maxSize</code>	Directory parameter
Changed	<code>dir.local.volatile.maxSize</code>	Directory parameter
Changed	<code>divert.x.autoOnSpecificCaller</code>	Call feature parameter
Changed	<code>divert.x.contact</code>	Call feature parameter
Changed	<code>divert.x.sharedDisabled</code>	Call feature parameter
Changed	<code>divert.busy.*</code>	Call feature parameters
Changed	<code>divert.dnd.*</code>	Call feature parameters
Changed	<code>divert.fwd.x.enabled</code>	Call feature parameter
Changed	<code>divert.noanswer.*</code>	Call feature parameters
Changed	<code>ind.led.x.index</code>	LED indicator parameter
Changed	<code>keypadLock.*</code>	Phone lock parameters
Changed	<code>lcl.ml.lang.clock.x.format</code>	Multilingual parameter
Changed	<code>lcl.ml.lang.list</code>	Multilingual parameter
Changed	<code>lcl.ml.lang.menu.*</code>	Multilingual parameters
Changed	<code>lcl.ml.lang.tags.*</code>	Multilingual parameters
Changed	<code>log.level.change.slog</code>	Log parameter
Changed	<code>log.render.file.size</code>	Log parameter
Changed	<code>log.render.file.upload.append.limitMode</code>	Log parameter
Changed	<code>log.render.file.upload.period</code>	Log parameter
Changed	<code>log.render.stdout</code>	Log parameter
Changed	<code>log.sched.*</code>	Log parameters
Changed	<code>msg.bypassInstantMessage</code>	Voicemail parameter
Changed	<code>nat.*</code> The parameter <code>nat.keepalive.interval</code> has not been changed	IP parameters

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
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.* The parameters qos.ip.callControl.dscp.* have not been changed	Quality of Service parameters
Changed	qos.ip.rtp.* 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
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 84-Series call feature parameter
Changed	roaming_privacy.reg	Spectralink 84-Series 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

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
Changed	<code>se.pat.misc.negativeConfirm.name</code>	Sound effects parameter
Changed	<code>se.pat.misc.positiveConfirm.name</code>	Sound effects parameter
Changed	<code>se.pat.misc.remoteHoldNotification.name</code>	Sound effects parameter
Changed	<code>se.pat.misc.welcome.name</code>	Sound effects parameter
Changed	<code>sec.H235.*</code>	Sound effects parameters
Changed	<code>tcpIpApp.keepalive.*</code>	IP parameters
Changed	<code>tcpIpApp.port.*</code>	IP parameters
Changed	<code>up.25mm</code>	User preferences parameter
Changed	<code>up.analogHeadsetOption</code>	User preferences parameter
Changed	<code>up.backlight.idleIntensity</code>	User preferences parameter
Changed	<code>up.oneTouchVoiceMail</code>	User preferences parameter
Changed	<code>up.useDirectoryNames</code>	User preferences parameter
Changed	<code>up.welcomeSoundEnabled</code>	User preferences parameter
Changed	<code>up.welcomeSoundOnWarmBootEnabled</code>	User preferences parameter
Changed	<code>video.camera.frameRate</code>	Video parameter
Changed	<code>video.localCameraView.fullScreen.mode</code>	Video parameter
Changed	<code>video.maxCallRate</code>	Video parameter
Changed	<code>video.screenMode</code>	Video parameter
Changed	<code>video.screenModeFS</code>	Video parameter
Changed	<code>voIpProt.H323.dtmfViaSignaling</code>	Call feature parameter
Changed	<code>voIpProt.H323.enable</code>	Call feature parameter
Changed	<code>voIpProt.H323.local.port</code>	Call feature parameter
Changed	<code>voIpProt.SIP.local.port</code>	Call feature parameter
Changed	<code>voIpProt.SIP.outboundProxy.transport</code>	Call feature parameter
Changed	<code>voIpProt.SIP.specialEvent.lineSeize.nonStandard</code>	Call feature parameter
Changed	<code>voIpProt.server.x.transport</code>	Call feature parameter
Changed	<code>voIpProt.server.dhcp.option</code>	Call feature parameter
Changed	<code>voice.audioProfile.Lin16.16ksps.payloadSize</code>	Audio parameter
Changed	<code>voice.audioProfile.Lin16.32ksps.payloadSize</code>	Audio parameter

<i>Modification</i>	<i>Configuration Parameter</i>	<i>Description</i>
Changed	voice.audioProfile.Lin16.44_1ksps.payloadSize	Audio parameter
Changed	voice.audioProfile.Lin16.48ksps.payloadSize	Audio parameter
Changed	voice.audioProfile.Lin16.8ksps.payloadSize	Audio parameter
Changed	voice.codecPref.iLBC.*	Audio parameters
Changed	voice.gain.rx.analog.*	Audio parameters
Changed	voice.gain.rx.digital.*	Audio parameters
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.* The parameter voice.ns.hd.enable has not 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

Chapter 4: Known Issues and Suggested Workarounds

The following issues are known to be present in the current release. They will be reviewed for possible fix in a future release if no reasonable work-around is available.

- 26615** Subnet mask forces all packets through gateway when not using DHCP and when using the wrong subnet mask for the network class in use, for example using 192.168.X.X addresses with a 255.255.0.0 subnet mask. Exists in SIP 1.4.x.
Workaround: Use the correct subnet mask.
- 26920** Centralized conference fails due to RTP port being slow to open in some cases.
Workaround: No workaround is currently available.
- 30086** Boot servers running explicit FTPS are not supported.
Workaround: Use implicit FTPS or HTTPS.
- 30371** Pattern generator for tones does not work well for the case of a single repeating chord.
Workaround: Start the pattern with a short period of silence then the desired initial chord. Loop back to the desired initial chord instead of the initial silence.
- 37175** If configuration files are used to set the SNTP server address, date validity checking on CA certificates will be ignored for https provisioning.
Workaround: Set the SNTP server address through the phone UI or use DHCP to inform the phone of the SNTP server address.
- 41993** Scrolling through the Corporate Directory may not return complete results if results contain Unicode character values > 127 (server does not support sorting).
Workaround: Start the search in a different location or avoid use of Unicode characters >127 in directories.
- 54027** (SRTP) The receiving phone does not re-invite with a new key at the half-life of the key life-time.
Workaround: Ensure that both ends use the same key life time such that the sending phone will initiate a key re-negotiation.
- 54028** (SRTP) Key changes do not function correctly when multiple crypto suites are enabled.
Workaround: Configure a single crypto suite on the phone.
- 62482** Server certificate Serial Number is checked against the host name if the outbound proxy is configured.
Workaround: No workaround is currently available.
- 63527** Phone sends out INVITE and CANCEL if no provisional response is received.
Workaround: No workaround is currently available.

- 63609** Cannot answer a call using the speaker soft key when DND is enabled and `call.rejectBusyOnDnd` is set to zero
Workaround: No workaround is currently available.
- 68815** The phone doesn't send a `CallState=CallConference` notification when a conference is established
Workaround: No workaround is currently available.
- 69552** Music on hold (MOH) call dialog does not get terminated when there is an update from the MOH server.
Workaround: End the call to restore normal state.
- 71800** Users cannot change the user password using the Web Configuration Utility.
Workaround: Use the phones user interface to change the user password.
- 72211** An explicitly trusted Intermediate CA fails TLS verification when it is the issuer of a server certificate.
Workaround: No workaround is currently available.
- 74958** When DND is enabled, the phone is missing the call forward message `Fwd:<number>`
Workaround: No workaround is currently available.
- 76881** On a shared call reorder tone is not played to the user when Resume attempt fails.
Workaround: No workaround is currently available.
- 77192** Adding a '+' sign to the Line Identification address via the phone's Web Configuration Utility is displayed incorrectly.
Workaround: Configure the Line Identification address via the phone menu or the configuration file.
- 77039** When PTT is enabled, sender name/ ID updated through the parameter `reg.x.displayname` does not get updated during the PPT call.
Workaround: No workaround is currently available.
- 78232** During a remote conference pickup on a shared line the phone does not display the call appearance and call indicator.
Workaround: No workaround is currently available.
- 78340** Several MWI NOTIFY messages within a few seconds may cause the phone to reset.
Workaround: Avoid sending multiple MWI messages close together.
- 80330** In a Lync environment, resetting the phone local configurations does not allow the phone to re-register with the Lync server.
Workaround: Perform a reboot.
- 80212** In a Lync environment, when the corporate directory and parameter `dir.corp.sortcontrol` are enabled the contact search does not fetch any contacts.
Workaround: Set `dir.corp.sortcontrol=0`
- 80144** In a Lync environment, the phone plays a ring tone for the private line even when ring type is set to silent.
Workaround: No workaround is currently available.

- 79787** In a Lync environment, when the phone is reset to factory default with Lync base profile selection, the phone takes around 20sec - 30sec to come up.
Workaround: Wait for 30 seconds when factory default is selected.
- 79225** In a Lync environment, the logout for non-default user does not happen as per the set time in the automatic logout parameter.
Workaround: The user needs to logout manually.
- 79070** In a Lync environment, on phone web UI enabling the login credentials option does not disable the user credentials.
Workaround: Restarting the phone updates phone web UI
- WUCS-32** The handset only reads 000000000000-directory.xml once, and subsequently only looks for its MAC specific directory file, preventing updates to 000000000000-directory.xml to be picked up.
Workaround: Replicate 000000000000-directory.xml to one file per Mac address whenever the file changes.
- WUCS-504** Removing the PAC file from the handset sometimes fails.
Workaround: Removing the PAC file is rarely needed. Restore to factory defaults and reprovision the handset.
- WUCS-652** Registering a handset to an open-SIP line when it was previously registered to a Lync line for voice support may not behave properly.
Workaround: Always perform a restore to defaults when registering to a different telephony server type.
- WUCS-723** The handset cannot participate in Instant Messaging conferences.
Workaround: No work around at this time. IM the user to join the conference using a PC when possible.
- WUCS-870** Using an invalid password with EAP-FAST fails to generate an error message even though the handset can't connect.
Workaround: Check/ Re-enter the password
- WUCS-960** The handset doesn't always properly recover when both parties of a call place each other on hold (applicable to the Avaya CS1000 call server only)
Workaround: No work around at this time
- WUCS-970** Changing user from the Login Credentials screen doesn't clear call logs from the previous user (Lync call server only)
Workaround: Sign out of the phone rather than changing user from the login credentials screen.
- WUCS-984** Line IDs contains the quote (') and double-quote characters (") do not display properly.
Workaround: avoid using quotes in user names
- WUCS-1026** Setting "silent ring" for the Lync Private Line doesn't work.
Workaround: No work around at this time
- WUCS-1041** A user placed on hold may not hear Music-On-Hold audio when HD audio (e.g. G.722) codec is enabled.

Workaround: Force codec choice to G.711 for all telephony calls if Music-on-Hold is desired

WUCS-1054 (Lync call server) Forwarding to a user in a different domain doesn't work.

Workaround: No work around at this time.

WUCS-1072 When a user is register to an open SIP server (on line1) and a Lync server for IM/ PRsence (on line 2), the Lync "familiar name" for that user sometimes temporarily appears instead of the user name configure for the open SIP line.

Workaround: Make sure the open SIP and Lync familiar names match.

WUCS-1134 Certain factory installed device certificates are reported as Self-Signed.

Workaround: Regardless of what's reported, all Spectralink 84-Series devices have a proper device certificate installed during manufacturing.

WUCS-1105 When the Emergency Dial feature is configured to use EFK macros, more than two presses of the emergency dial key may cause the first emergency call to be placed on hold and a second emergency call to be placed instead.

Workaround: No work around at this time.

WUCS-1108 When line parameters are configured before the user logs into a User Profile, logging out of the profile then back in will not properly re-register with the Lync server, but the user will not be notified or prompted for login credentials.

Workaround: If this happens reboot the phone. To prevent this from happening, make sure that line-specific parameters (reg.x....) are specified in the logon.cfg user profile, not the generic site.cfg. See templates for the User_profiles_deployment scenario and refer to the Deployment Guide.

WUCS-1157 Handset offers video codec (H.263, H.264) it doesn't support. This could cause the call server to chose those codecs and fail to establish the call.

Workaround: disable video codecs for that extension at the call server

WUCS-1176 When user profiles are used without a default user on a Lync telephony server, you can't place an emergency (911) call without signing in, even though the handset offers an authorized number popup menu that appears to imply the emergency number can be called without signing in..

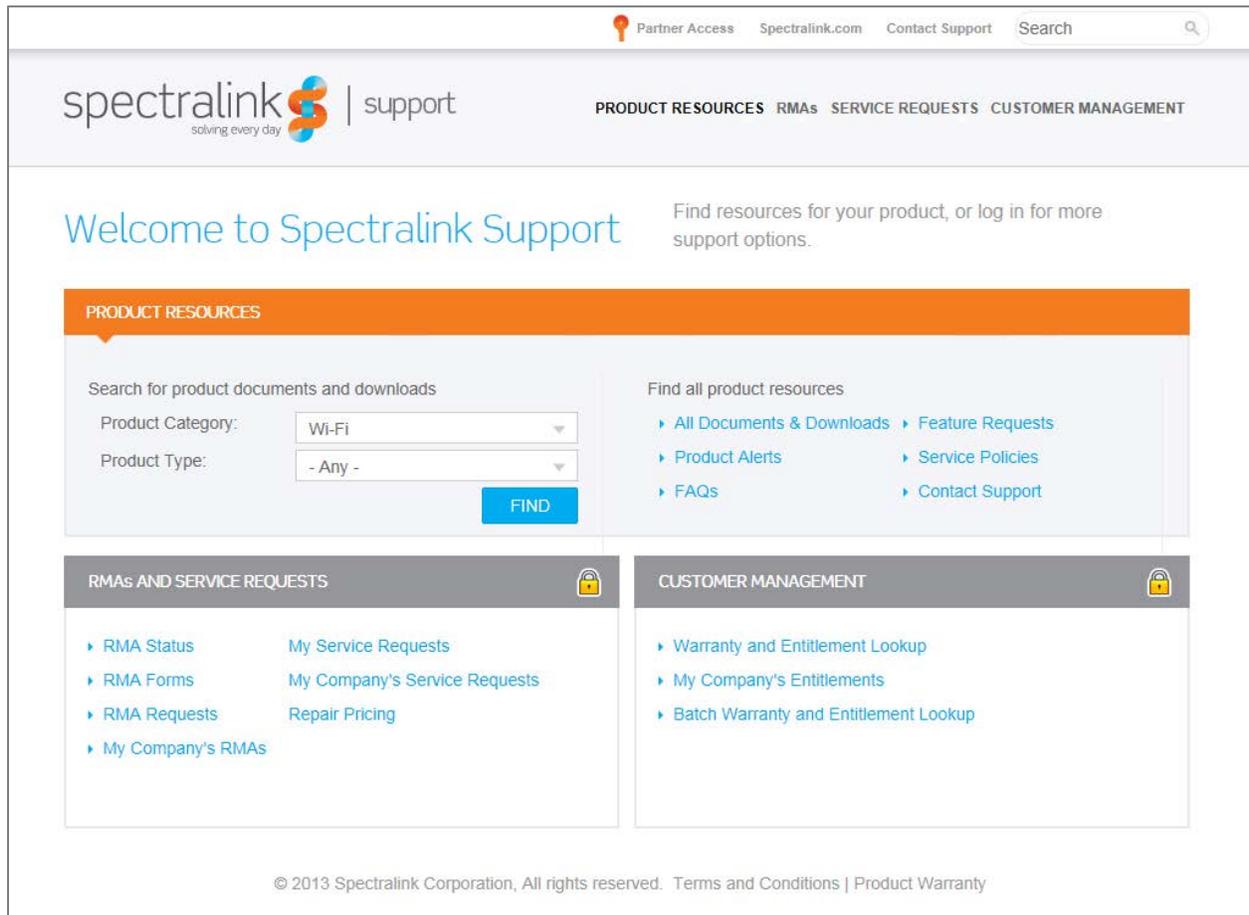
Workaround: set up a default lync user in user profiles so that the emergency call can be made under the default user line registration.

Chapter 5: Reference Documents

This section lists all documents referred to in these release notes as well as other relevant documents.

Spectralink References

All Spectralink documents are available at <http://support.spectralink.com>.



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Specific Documents

Spectralink 84-Series Wireless Telephone Deployment Guide This document introduces deployment concepts and the methods of provisioning the 84-Series handsets in any type of facility.

The comprehensive *Spectralink 84-Series Administrators' Guide* covers all configuration parameters for the 84-Series Wireless Telephones.

Spectralink Deploying Enterprise-Grade Wi-Fi Telephony This document covers the security, coverage, capacity and QoS considerations necessary for ensuring excellent voice quality within enterprise Wi-Fi networks.

Best Practices Guide to Network Design Considerations for Spectralink Wireless Telephones This document provides recommendations for ensuring that a network environment is adequately optimized for use with Spectralink Wireless Telephones. It provides detailed information on wireless LAN layout, network infrastructure, QoS, security and subnets and identifies issues and solutions based on Spectralink's extensive experience in enterprise-class Wi-Fi telephony.

Understanding Wireless Security on Your Spectralink 84-Series Wireless Phones Provides more information and assistance in determining which security method to use.

Quick Barcode Connector Administration Guide Provides instruction for implementation of the barcode application. The *Spectralink 84-Series User Guide* also contains information about deploying the barcode feature.

The *Spectralink 84-Series User Guide* offers comprehensive instructions on using each of the features deployed on the handsets.

For information on IP PBX and softswitch vendors, see the *Spectralink 84-Series Call Server Interoperability Guide*.

For information about combining Polycom desksets and Spectralink 84-Series handsets in the same facility, see the Interoperability Guide: *Spectralink 84-Series Coexistence with Polycom Desksets*.

For additional information about deploying Lync in your phone environment, see *Spectralink 84-Series Interoperability Guide for Microsoft Lync Server 2013*.

Technical Bulletins and Feature Descriptions explain workarounds to existing issues and provide expanded descriptions and examples.

AP Configuration Guides explain how to correctly configure access points and WLAN controllers (if applicable) and identify the optimal settings that support Spectralink 84-Series handsets. You can find them on the *VIEW Certified* webpage.

Polycom UC Software Administrators' Guide

The Polycom-branded *UC Software Administrators' Guide* might be useful if you need to research software versions prior to Spectralink software 4.2.x. They are available on the Polycom Support site.

[Version 4.1.0](#)

[Version 4.0.1](#)

[Version 4.0.0](#)