spectralink

Spectralink 84-Series Wireless Telephone

Release Notes

84-Series Software 7.5.2.x279

Copyright Notice

Notice

Warranty

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Chapter 1: General

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

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.

Important Upgrade Notes and Considerations in Spectralink 84-Series Software

Note: 84-Series Software 4.2.0 and above is limited to the Spectralink 84-Series product line

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

Microsoft® Skype for Business® Interoperability

For additional information about deploying Skype for Business (formerly known as Microsoft Lync®) in your phone environment, see *Spectralink 84-Series Interoperability Guide for Microsoft Skype for Business.*

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: Introducing 84 Series Software 7.5.2.x279

Spectralink Software 7.5.2.x279 is based on Spectralink Software 7.5.1.x274

For use with the following versions:

- CMS Version 3.1.0 and above
- QNC Version: 2.1.0.55 and above

> **Note**
> ***Spectralink 84-Series phone models are no longer supported in AMIE***
>
> AMIE management of 84-series phones is no longer supported.

Enhancement

Key	Summary
ESCWIRE-1728	Added additional key exchange ciphers, and the ability to configure a custom cipher, for improved security.

Fixed Issues

Key	Summary
ESCWIRE-1575	Fixed an issue where in certain cases an incoming IM caused the phone to reboot.
ESCWIRE-1720	Fixed an issue where in some cases upgraded phones would not heartbeat with CMS.
ESCWIRE-1724	Fixed an issue where in certain cases Web API didn't play WAV files after multiple API pushes were performed.
ESCWIRE-1806	Fixed an issue where the phone would sometimes fail to connect to a WLAN.
PHNX-6560	Fixed an issue where the phone would sometimes crash when a user tried to select a previously-dialed number from the call list.
PHNX-6563	Fixed an issue where in some cases the phone would fail to shut down properly during a low battery alert.

Chapter 3: Introducing 84 Series Software 7.5.1.x274

Spectralink Software 7.5.1.x274 is based on Spectralink Software 7.5.0.x262

For use with the following versions:

- CMS Version 3.1.0 and above
- QNC Version: 2.1.0.55 and above
- AMIE (any current version above 2.x)

Lync/non-Lync version control in general release versions

The first digit in the final four numbers in the release build is reserved for the Lync/nonLync indication. For Lync (used with Skype for Business) releases the digit is set to 1. For non-Lync (SIP) releases, the digit is set to 2.

- 6.4.1.1258 (Lync)
- 6.4.1.2258 (non-Lync)

Updated RAM models

Spectralink 84-Series phone models that are built with the new RAM chip are provisioned with 6.0 software at the factory. The label contains the hardware ID and revision for the new chip:

8400	3111-36150-001;Revision=I	Basic model. No accelerometer. No scanner
8441	3111-67360-001;Revision=D	Basic model with accelerometer. No scanner
8452	3111-36154-001;Revision=F	Scanner model. No accelerometer
8453	3111-67361-001;Revision=D	Scanner model with accelerometer

> ⚠️ **Caution: Updated hardware cannot run downrev software**
>
> Spectralink 84-Series phone models that have the new RAM chip cannot run earlier code versions. They must run 6.0 and above.

In a mixed phone environment, all phones will need to be updated to R6.0 or phones will need to be sequestered into two different groups accessing different update server addresses.

Enhancements

Device Info fields

Four Device Info fields are provided to allow the administrator to further identify this device, especially useful for identifying the device location. These fields appear on the AMIE console.

Parameter	Permitted Values	Default
device.info x	**[text field]**	**none**
Four fields are provided. "x" can be 1, 2, 3, and/or 4. Example: `device.info1="Joe"`		

Support for Post Pause Dialing

A post pause dial string is recognized as a plain and simple DTMF phone number (not a URL) that includes a suffix of post dialing DTMF digits and pause symbols. Post-dialed DTMF digits are pulsed out on call connect with a 1 second pause between digits where specified.

Although the post pause digits are embedded in the dial string, they are not included in the outbound INVITE SIP signaling to allow proper routing for the call. However, they are included in the call list on the phone, and the provisioning server. This allows subsequent post pause dialing using the call list.

To initially use a post pause dial string, it must be created manually and directly within a contact menu entry and then saved. Once a call is placed, it can be also re-dialed using the various dialing methods.

The following rules are followed to activate DTMF dialing with post dialed digits:

1   The dial string must start with a digit.

2   Dialed digits are separated by post-dialed digits by first occurrence of a lowercase 'p'.

3   Lowercase 'p' translates to a 1 second pause. Multiple pause characters are supported.

4   All post dialed characters (after the first 'p') must be exclusively from the set of: {0-9, #, *, p}.

5   The dial string must not end with a 'p'.

For example, dialing out a PSTN number 123-456-7890 with DTMF pulse on call connect: '123' followed by a 2 second pause, followed by '456' would be added to a contact list entry as "1234567890p123pp456"

Add AMIE/Spectralink Root CA certificate

AMIE/Spectralink Root CA certificate is added to the certificate trust chain inside the 84 Series. This eliminates the need to copy the cert from AMIE and eliminates the need to add the cert to the 84 Series xml config file.

Fixed Issues

Key	Summary
P-6540	Limits RTP stats when reporting to AMIE to avoid system overwhelm.
E-1028	Support for Early Media enabled.
P-6552	Software now provides additional battery metrics to support these fields in AMIE: Remaining Capacity, Degradation, Last Full Charge, and Last Full Charge Date. Additionally, calculations for the current battery level have been adjusted to support Last Full Charge field.

Chapter 4: Introducing 84 Series Software 7.5.0.x262

Spectralink Software 7.5.0.x262 is based on Spectralink Software 6.4.0.x258

> **NEW: Introducing R7.x for TLS v1.2**
>
> Spectralink Release 7.5.0.x262 is being made available to customers exclusively via our Customer Support Team. The 7.x software release introduces support for TLS v1.2.
>
> This release also removes backwards compatibility for prior versions of TLS, v1.0 and v1.1; in addition to SSL v2 and v3.
>
> If deploying R7.x, please ensure that your environment can support only TLS v1.2 for any sort of encryption mechanisms.
>
> If you need help preparing your environment, please contact Spectralink Technical Support or your Spectralink Reseller for assistance.

For use with the following versions:

- QNC Version: 2.1.0.49 and above
- SLIC Version: 3.51 and above

Lync/non-Lync version control in general release versions

The first digit in the final four numbers in the release build is reserved for the Lync/nonLync indication. For Lync (used with Skype for Business) releases the digit is set to 1. For non-Lync (SIP) releases, the digit is set to 2.

- 7.5.0.1262 (Lync)
- 7.5.0.2262 (non-Lync)

Updated RAM models

Spectralink 84-Series phone models that are built with the new RAM chip are provisioned with 6.0 software at the factory. The label contains the hardware ID and revision for the new chip:

8400	3111-36150-001;Revision=I	Basic model. No accelerometer. No scanner
8441	3111-67360-001;Revision=D	Basic model with accelerometer. No scanner
8452	3111-36154-001;Revision=F	Scanner model. No accelerometer
8453	3111-67361-001;Revision=D	Scanner model with accelerometer

In a mixed phone environment, all phones will need to be updated to R 7.x or phones will need to be sequestered into two different groups accessing different update server addresses.

Enhancements

AMIE Connection

AMIE stands for Advanced Mobile Intelligence for Enterprise, an analytics tool developed by Spectralink to support Spectralink devices within the Wi-Fi infrastructure.

Two new configuration parameters support AMIE on 84 Series feature phones.

Parameter	Permitted Values	Default
device.amie.heartbeat.URL		**none**
AMIE Server IP address or FQDN. See below if using a secure server (https)/		
device.amie.heartbeat.timeoutSeconds	**60 to 3600**	**900**
AMIE Heartbeat Interval. In seconds. The http port for the AMIE Gateway is 30090. The https port for the AMIE Gateway is 30091.		

See the *AMIE Administration Guide* for more information.

Chapter 5: Reference Documents

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

Spectralink References

All documents listed below are available from the [Spectralink Support Website](#).

To go to a specific product page:

Use the top Documents and Downloads pane and select Voice as the Product Type and then select the product name from the drop down list and click Go.

AP Configuration Guides show you how to correctly configure access points and WLAN controllers (if applicable) and identify the optimal settings that support Spectralink 87-Series handsets. The guides can be found at the View Certified page.

The *Spectralink 84-Series Wireless Telephone Administration Guide* provides a comprehensive list of every parameter available on Spectralink 84-Series Wireless Telephones.

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. It is the fundamental text and a prerequisite to this Administration Guide, especially for administrators who are new to the Spectralink 84-Series handsets or who may wish a refresher course.

The *Spectralink 84-Series Barcode Administration Guide* provides information about barcode symbologies and how to configure and implement the barcode feature on the handset. The *Spectralink 84-Series User Guide* also contains information about using the barcode feature.

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

White Paper: Best Practices Guide to Deploying Spectralink 84-Series Wireless Telephones This document covers the security, coverage, capacity and QoS considerations necessary for ensuring excellent voice quality within enterprise Wi-Fi networks.

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

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.

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