

Spectralink 87-Series Wireless Telephone

## Release Notes

Spectralink 87-Series Software 1.2.x

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# Contents

<b>Introduction to PIVOT by Spectralink .....</b>	<b>4</b>
<b>Chapter 1: PIVOT Software 1.2.x .....</b>	<b>5</b>
<b>Features and Enhancements .....</b>	<b>5</b>
<i>Minor enhancements .....</i>	<i>5</i>
<b>Fixed Issues .....</b>	<b>6</b>
<b>Known Issues.....</b>	<b>7</b>
<b>Chapter 2: PIVOT Software 1.1.x .....</b>	<b>10</b>
<b>Features and Enhancements .....</b>	<b>10</b>
<i>Feature Licenses.....</i>	<i>10</i>
<i>SAFE.....</i>	<i>10</i>
<i>Push-to-Talk.....</i>	<i>10</i>
<i>LED.....</i>	<i>11</i>
<i>EAP-TLS.....</i>	<i>11</i>
<i>Australia homologation.....</i>	<i>11</i>
<i>Spectralink Battery Pack authentication .....</i>	<i>11</i>
<i>Heartbleed issue .....</i>	<i>11</i>
<i>Additional enhancements .....</i>	<i>11</i>
<b>Fixed Issues .....</b>	<b>12</b>
<b>Chapter 3: Reference Documents.....</b>	<b>13</b>
<b>Spectralink References .....</b>	<b>13</b>
<i>Specific documents .....</i>	<i>13</i>

# Introduction to PIVOT by Spectralink

PIVOT by Spectralink is an entirely new product from Spectralink Corporation, the leader in enterprise wireless telephony solutions.

PIVOT software is based on Android 4.1.2 also known as “Jelly Bean”. As an Android device, it is designed to use the Android applications model that allows us to apply Android’s revolutionary modular approach to solution development for workplace requirements.

The PIVOT handset combines the familiarity of an Android smartphone with advanced software functionality and the durability needed for a workplace environment. It is a WorkSmart device.

- Enables mobile workers throughout the workplace to be reached immediately and reliably via voice, texts or other alerts
- Instantly familiar with smartphone-like features you can use, right out-of-the-box
- Leverages a powerful mobile application platform that integrates with Android or XML solutions for improved workflow
- Purpose-built with unrivaled durability, longevity and support to protect your investment
- Enterprise-level security and privacy as well as over-the-air management and update capabilities
- Interoperable with your existing business applications, WLAN infrastructure and telephone (PBX) system

Spectralink applications are translated into French, German, Spanish and Italian but we have retained the long list of languages offered by Android. If you select a different language, labels associated with specialized applications may appear in English.

Instructions for using standard Android features are readily available online. Specialized Spectralink applications follow Android usage guidelines. A list of references is provided at the end of this document.

# Chapter 1: PIVOT Software 1.2.x

Release Notes for the Spectralink 87-Series software document issues affecting the current release of the code—including fixes, enhancements and new Features.

This release includes licensable features. You will not be able to take advantage of new Features unless you have purchased and installed one or more licenses to use them.

## Current release information

This release includes these software versions:

- Handset Version: 1.2.0.6893
- CMS Version: 1.2.10
- SLIC Version: 3.25

Your Spectralink support representative will guide you through software release installations as needed.

## Features and Enhancements

The 1.2.x release for the Spectralink 8700 is a “maintenance release” and therefore it does not include major feature enhancements. It only includes minor enhancements and bug fixes.

### Minor enhancements

- Feature Licensing is now assigned exclusively by phone group
- Added ability in the CMS to delete a setting from a Device, Group or Enterprise level
- Battery color on CMS now matches phone battery color showing battery state
- Enterprise, Group and Device level tabs and settings are now color coded to make it easier to identify the level of a setting
- The Phone Owner Info is now controllable from the CMS
- You can now clear the call log on a phone
- The Phone extension is now displayed in a sticky SIP registration notification as well as in the background of the phone dialer
- The CMS navigation breadcrumbs have been reworked to reduce complexity
- The Spectralink Volume setting is now renamed to Spectralink Web API Volume
- Includes updates to latest versions of EN 300 328 and EN 301 893
- New SAFE and Panic Button icons

## Fixed Issues

Reference	Fixed issue
T-0284	The call forwarded popup no longer briefly pops when a forward occurs.
T-0293	The phone now logs SIP registration failures at the Info level.
T-0342	The handset's extension number is now displayed in a sticky notification as well as in the background on the phone dialer screen.
T-0381	The Prepend MAC setting is now read-only and is always set.
T-0611	The push alert notification now shows the highest priority push message priority.
T-0614	The Alertview is no longer being launched for non-critical priority Web API pushes.
T-0633	The Barcode beep is now set to the default of Barcode Beep.
T-0718	Fixed some interoperability issues with the DeltaPath call server.
T-0728	The user can now adjust the volume of a phone call when the phone is at the ear.
T-0772	Finished the translations of some phrases in the Spectralink Alertview and Webview.
T-0824	The in-ear tweedle is no longer being played for incoming Web API pushes regardless of push priority during a phone call.
T-1028	The corrupted display that occurred sometimes after hanging up an LDP no longer occurs.
T-1051	Now the SIP field names for the CSV import template match the field names on the phone settings screen and the CMS, more or less.
T-1092	The LED now correctly turns on and off for failed SIP registration notifications.
T-1104	The crash that sometimes occurred when the phone app receives a 486 message from a CS1K no longer happens.
T-1150	You can now Modify and Save a Network Profile for a successful authentication without forgetting it first.
T-1189	A PTT call now stays ignored correctly.
T-1205	The phone now correctly probes networks on DFS channels, even if all the SSID's are hidden.
T-1206	Audio on received PTT broadcasts is clear even when the browser is also in use.
T-1229	In the CMS, the Wi-Fi Profile Add wireless profile now refreshes properly when you change the EAP method selection.
T-1240	The incorrect PTT audible notification during a SIP call when no PTT call was actually present no longer occurs.
T-1245	The charger disabled state no longer occurs.
T-1253	CMS now assigns feature licenses to groups and it is easy to tell which phone has which feature license installed.
T-1254	Installed Feature Licenses are now labeled.
T-1255	The Tilt SAFE notification is no longer incorrectly labeled as "Man Down".
T-1267	Fixed a problem editing Phone groups in CMS on v1.1.66.
T-1275	PTT was not playing the last 1.2 seconds of transmitted audio due to a system time lag. This time lag has been greatly reduced.
T-1278	On the CMS, the CA Certificate field is no longer shown when saving and editing a WPA2-Enterprise network to change it to WPA2-PSK.
T-1293	After a PTT trial license times out and a permanent license is entered, the phone is now able to transmit immediately.
T-1295	Announced transfer on the CS1K now works correctly.

<i>Reference</i>	<i>Fixed issue</i>
T-1296	In PTT when you switch to an Emergency PTT from a Priority PTT, the PTT now shows that the Emergency channel is selected.
T-1309	A Web API Critical Tel URI push to a phone that is already in a call puts the call on hold and places the call to the correct extension.
T-1312	On the CMS, Adding Telephone Event Notifications removed previous configuration.
T-1314	Sometimes the bottom entries on a CMS page were not visible, now they are.
T-1336	Emergency PTT that arrives during a normal PTT call timeout will pop up the emergency call UI.
T-1344	The LED blinks correctly for new notifications.
T-1376	Phone probed more than one network on DFS channels if all SSID's are hidden, but did not try to associate.
T-1412	Sometime phone call audio was not heard when PTT call was ongoing

## Known Issues

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.

<i>Reference</i>	<i>Description</i>
T-0014	A/D credentials are still allowed on CMS after A/D user is no longer active. Workaround: Remove the A/D user from the CMS users list
T-0165	When using USB on Windows 7, the PC may report "Device not Recognized" even though the PC can still communicate with the handset
T-0177	AudioCodes gateway – Caller ID is not available
T-0429	Avaya Aura and CS1k – Registration does not take place immediately when correcting invalid credentials
T-0454	Applications that attempt to access a camera will display an error.
T-0677	After modifying security settings, the handset may not connect to the wireless network. This is not unusual with Android devices and the customary fix is to toggle the wireless off/on
T-0709	Message Waiting (MWI) Notifications may not synchronize at power on.
T-0789	Phone Admin menu: Telephony Event UI settings screen does not update after changes are made
T-0831	Phone will not connect to an infrastructure that has the Admission Control Mandatory bit(s) set in the APs
T-0835	AudioCodes gateway – Call Reject destination is not available
T-0858	If registration fails and admin clears the notification and then changes the SIP account settings and re-submits them, another failure notification will not be received if registration fails again
T-0878	A phone manually connected to an SSID from the handset menu too soon after boot may crash: Workaround: reboot phone and wait longer
T-0912	Avaya CS1k – Caller ID does not update after a transfer
T-0956	The ringer volume can't be adjusted with a headset plugged in
T-0962	Windows 7 complains that the USB could be faster in a USB 2 port. This is normal windows behavior, see <a href="http://www.makeuseof.com/tag/usb-speederror/">http://www.makeuseof.com/tag/usb-speederror/</a>
T-0985	Avaya CS1k – Blind transfer can result in the transferred phone on hold until the far end answers
T-1011	Cisco ACS 4.x does not support the Spectralink device certificate for handset authentication on EAP-TLS. Workaround: use a later ACS version, or use your own device certs. See Spectralink 87 Series Wi-Fi Security Implementation Guide for complete information.
T-1030	Switching between audio terminations (headset, rear speaker...) is not instantaneous
T-1096	After changing the destination for Telephone Event notifications, they are still sent to the old address.

<i>Reference</i>	<i>Description</i>
T-1144	The phone may be “stuck” at the red LED after a reboot or restore defaults Workaround: Remove battery, wait 30s, then re-insert the battery
T-1163	PTT fails to show audio statistics in output log
T-1201	Sometimes an over-the-air update results in the handset reporting “signature verification failed”. Workaround: restart the update
T-1248	Phone receiving PTT call – audio is interrupted by an offered SIP call
T-1249	Phone transmitting PTT call – Transmit is interrupted by an offered SIP call
T-1261	CMS – Device Manager displays two popups reminding the user to select a device
T-1277	Under certain circumstances, EAP-TLS will connect even though the server certificate is expired
T-1332	SIP Notification may show the wrong extension number until the phone is restarted if extension is changed.
T-1335	Ringtone volume settings not always retained between calls.
T-1343	Sometime PTT audio is choppy.
T-1347	The user may be asked to restart a trial license of an app after the trial has already expired.
T-1355	If the user navigates to the Emergency Contacts screen the screen will not dim.
T-1358	Sometimes local contact name is not overriding the PBX delivered name.
T-1360	Even after removing the SIP Server address from the phone, if you don't put another address in, the phone will not unregister.
T-1363	RTCP cumulative lost packets does not match missed packets reported by the phone.
T-1367	If the handset is out of Wi-Fi range or registration has expired and the user attempts to make an Emergency call, the call fails without displaying a pop-up.
T-1368	There is no indication in the idle screen when the phone is in the forwarded state.
T-1369	The phone may not show correct calling state if you place a call from it while it is forwarded until the proximity sensor turns the screen off and back on.
T-1374	Trial Expired toast is displayed after a permanent License Key is removed. A new trial is offered but does not work.
T-1377	If & < and > are used in fields from the CMS they may be corrupted after being sent to the phone. See the CMS Documentation for more information.
T-1383	Using CMS you can create a PTT channel name longer than 15 characters which will be truncated on the handset. Limit channel names to 15 characters or less
T-1384	Using CMS you can unsubscribe to the default PTT channel. Ensure that the default channel is subscribed to.
T-1387	Rarely there is a large delay in pressing keys in the dialer if the phone is very busy doing something else.
T-1390	If in an existing SIP call, the emergency PTT call volume level setting is not used.
T-1394	All Notifications are played at the same volume level in the headset regardless of what notification volume level is configured
T-1395	Phone transmitting PTT fails to use a toast to notify the user when they walk out of range that the service is not available. The status bar does update to show “No Service”.
T-1397	MSI barcodes are not read correctly.
T-1399	Broadcast DHCP Option not used.
T-1407	Sometimes the settings app will close if invalid default PTT channels are set in CMS.
T-1408	User must manually select the default PTT channel in order to transmit on it after ignoring a PTT call on another channel.
T-1410	No audible event notifications are played during a PTT or SIP call.
T-1414	PTT channel settings configured at the group or enterprise level are not displayed correctly at the device level on CMS.



<i>Reference</i>	<i>Description</i>
T-1415	The PTT tone may play mid-call on rare occasions.
T-1417	The Default PTT volume is very low.
T-1421	DNS Name list is processed on power cycle, but not when Wi-Fi is turned off then back on.
T-1423	User can't ignore an incoming SIP call and continue to transmit on PTT.
T-1428	Entry of NTP server requires reboot of phone to update the time, sometimes.
T-1429	Occasionally the phone can become unresponsive when entering the admin password, especially right after first boot after firmware upgrade. Waiting 10 seconds will resolve the issue.
T-1434	In a very busy PTT environment, there is no indication, other than the lack of a PTT start of transmission beep, that all PTT channels are full.
T-1435	Calling Party name not using local contact directory name while call is ringing, but is shown after connection is made.
T-1439	Once connected to an SSID broadcast network, you cannot choose a hidden network.
T-1440	Sometimes the phone app will stop when the user attempts to use a direct dial widget.

# Chapter 2: PIVOT Software 1.1.x

Release Notes for the Spectralink 87-Series software document issues affecting the current release of the code—including fixes, enhancements and new Features.

This release includes licensable features. You will not be able to take advantage of new Features unless you have purchased and installed one or more licenses to use them.

## Current release information

This release includes these software versions:

- Handset Version: 1.1.0.6017 (4.1.2 build 6017)
- CMS Version: 1.1.66
- SLIC Version: 3.23

Your Spectralink support representative will guide you through software release installations as needed.

## Features and Enhancements

### Feature Licenses

PIVOT Software Release 1.1.0 introduces Feature Licenses which allow customers to purchase optional features such as Push-to-Talk and SAFE (with or without the Panic button). Feature Licenses offer a 30-day trial period. They are purchased per-handset and are installed on a per-handset basis either manually or through CMS. If you would like to purchase one of these modules, please talk to your Spectralink Reseller.

### SAFE

SAFE utilizes the accelerometer and the red Panic button to provide a complete Man Down solution. Fully configured and enabled, the handset will produce motion sensing warnings/alarms (including no movement, tilt and running) and enables the red Panic button on the top of the handset for panic alarms. Both motion and/or panic alarms can be programmed to place an emergency call to a designated number. Motion and Panic alerts can also be pushed to a third party security application for integration into additional safety resources.

### Push-to-Talk

The PTT application enables the PIVOT handset to operate in broadcast mode like a walkie-talkie radio. Groups of handsets can be programmed to transmit and receive on certain channels. PTT includes priority and emergency broadcasts to alert the area to important

situations. The application interface provides intuitive functionality and native Android features allows the user to fully utilize PTT.

## **LED**

The LED is now controlled by Android applications. It blinks to notify the user that an application such as email or voicemail has been activated.

## **EAP-TLS**

Wi-Fi security method for WPA2-Enterprise (aka 802.11x) EAP-TLS supports full mutual authentication for the most secure Wi-Fi deployment available. By using the built-in device certificate, users can access the Wi-Fi network without having to unlock the handsets. Preferred deployment is to configure EAP-TLS using SLIC.

## **Australia homologation**

The PIVOT handsets are now fully compliant with Australian certifications and can be imported and used in that country. Handsets will automatically use the correct domain without needing any configuration.

## **Spectralink Battery Pack authentication**

Spectralink products are certified for use only with Spectralink accessories. In order to prevent your PIVOT handsets from using unqualified 3<sup>rd</sup> party batteries, the handset now validates that the Battery Pack is a genuine Spectralink battery. If it detects an invalid or malfunctioning battery, the handset will show an icon at boot on the left side of the status bar indicating a battery problem and will shut down. To order genuine Spectralink batteries, please talk to your Spectralink reseller.

## **Heartbleed issue**

As of this release, the PIVOT handset is not susceptible to the “Heartbleed” security issue.

## **Additional enhancements**

- SIP TCP capability introduced
- Added ability to choose a private NTP server for phone’s time of day
- Audio now complies with TIA810 and TIA920
- Patched several security issues inherent in Android 4.1.2.
- Improved audio performance when performing other activities (web browsing...), however it is still recommended to avoid CPU intensive activities for best voice quality
- Improved ease of CMS deployment

- Added CMS data Import/Export Functionality
- Added ability to control the Unknown sources setting from CMS
- Added ability to control if user can change the lock screen setting from CMS

## Fixed Issues

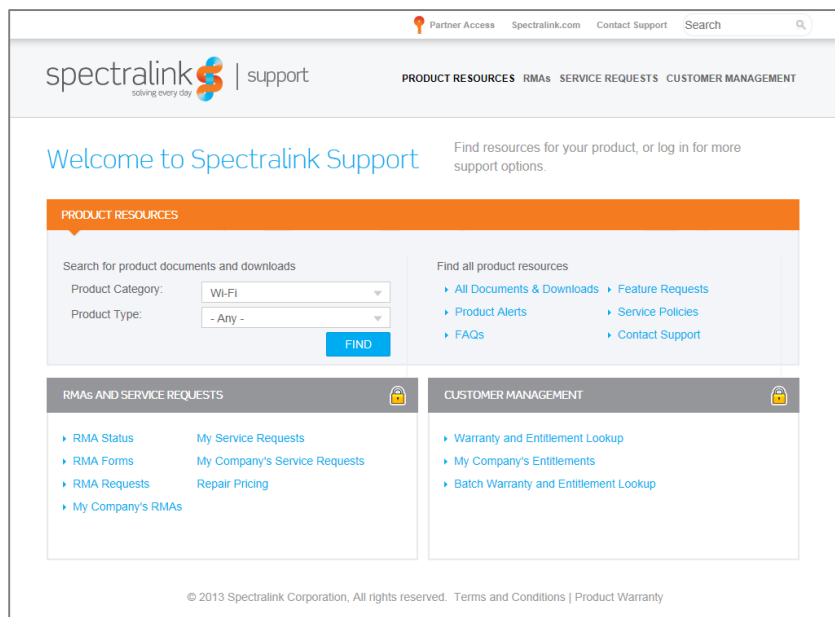
<i>Reference</i>	<i>Description</i>
T-181	If a call is placed to an invalid or unavailable number, the handset no longer freezes
T-700	Handset reboots when you change the SIP enabled setting, as designed
T-0947	SLIC – Release 3.23 supports both 84-Series and 87-Series
T-0920	Avaya Aura – Announced transfer and conference now works as designed
T-0867 T-0973	Avaya CS1K – Resuming a held conference call now works as designed
T-1033	Audiocodes – Blind transfer now works as designed
T-0925	Audiocodes – Announced transfer now works as designed
T-0983	Audiocodes – Call on hold over PRI now works as designed

## Chapter 3: Reference Documents

Please consult your support representative for all questions and issues about this product.

### Spectralink References

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



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#### Specific documents

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.

*Spectralink 87-Series Wireless Telephone Administration Guide* The Admin Guide provides detailed information about every setting and option available to the administrator on both the

CMS and handset menus. Time-saving shortcuts, troubleshooting tips and other important maintenance instructions are also found in this document.

*Spectralink 87-Series Installation and Configuration Tool Administration Guide* The SLIC tool provides step-by-step instructions for configuring wireless settings required for the handsets to associate with the wireless LAN.

*Spectralink 87-Series Wireless Telephone Deployment Guide* The Deployment Guide provides sequential information for provisioning and deploying the handsets. It covers deployment using the SLIC tool and CMS as well as manual deployment.

*Spectralink 87-Series Wi-Fi Security Implementation Guide* Wi-Fi security prevents unauthorized over-the-air access to network components and the sensitive data that resides there. This Guide discusses the various methods and explains how to implement each of them.

*Spectralink 87-Series Wireless Telephone Application Installation Guide* The Applications Guide provides detailed information about deploying any type of application, using an app store or MDM and manual processes for loading applications on the Spectralink 87-Series handset.

*Spectralink 87-Series Wireless Telephone User Guide* The User Guide provides detailed information about using the features of the 87-Series handsets.

For information on IP PBX and softswitch vendors, see *PIVOT by Spectralink Call Server Interoperability Guide*.