

Spectralink S Series

Release Notes

Firmware Version PCS25J - R3 2025

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Introduction

Terms and Definitions

MSF	Message Service Format.
PBX	Private Branch Exchange (SIP/TEAMS/CUCM)
PCS	Product Change Status
P-ID	Production Identification
SUOTA	Software Update Over The Air
ARI	Access Rights Identity. Unique ID for a DECT system
COTA	Configuration Over The Air

Release

These combined release notes apply to the released versions of firmware for the Spectralink S 33-35-37 Series handsets. This version specifically applies to version PCS25J - R3 2025 of the firmware. This is a main release that replaces previous releases as the latest Generally Available (GA) release.

The current handset firmware PCS information can be found in Menu-Settings-About under Firmware. The version consists of two digits and two letters. The digits and first letter forms the major version. The last letter, which can be either small or capital, is the minor version.

Minor versions are irrelevant for these release notes and are, therefore, left out.

For more information about the new features, please look at the User Guide for your handset.

Upgrading the Handset

Please download the latest software for S series handsets from the Spectralink Support Portal. To wirelessly update the handsets, use and load the SUOTA Over-The-Air.bin file to the Spectralink DECT or IP-DECT servers.

A Software Upgrade Tool (part number: 72685401) can also be used to update handsets offline. The software for managing the Software Upgrade Tool is available on our support page under the S Series handset section.

Changes

Version PCS25JA - R3 2025

Improvements, Added or Changed Features

- Normal and Quiet Profile Tuning: Increased microphone sensitivity to enhance audio performance. Furthermore, in Quiet profile microphone noise reduction has been reduced.
- General code stability and optimizing.

Corrections

- Battery Notifications: Resolved an issue where incorrect “fully charged” and “charging” notifications appeared when starting up in the cradle.
- Alarm Call Volume: Fixed a problem where the alarm tone played at a high-volume during voice calls triggered by an alarm call. The alarm tone now defaults to the lowest volume during active calls.
- Automatic Answer with Bluetooth: Fixed a bug that caused the rear handset speaker to activate during an automatically answered call (B-answer enabled) when a Bluetooth device was connected, resulting in audio playing through both the Bluetooth device and handset speaker. Now, audio properly routes only to the connected Bluetooth device.

Version PCS25F - R2.1 2025

Improvements, Added or Changed Features

- Improved audio quality by changing some settings for an ACL (“Automated Compressing and Limiter) block. Changed the settings to less aggressive limiter for the Audio Environment “Normal” and “Quiet”.

Corrections

- Improved charger experience (DECTESC-1157 and 1388)
 - Previously when a handset was removed from the charger the battery level shown in the display could first show one battery level and then one second later another level. This visual fluctuation of battery level readouts has been fixed.
 - The internal battery voltage measurement has improved and adapted to the difference in the component tolerances in each individual handset. This is also known as bandgap calibration.

- Sometimes handsets randomly showed out of coverage, even in areas with good coverage. This issue has been addressed (DECTESC-1376 and 1377).
- Previously a handset that was turned off could consume all battery power in one night. This typically happened when the handset was not in range of the DECT system or if the handset was not subscribed to any DECT system while the handset was turned off. This issue has been fixed (DECTESC-1010).
- When sending a message to a handset with alerting set to key-click or key-beep could randomly cause the handset to reboot. This has been fixed and addresses DECTESC-1407.
- At the end of some of the ringtones (ringtone 2, 3, 6, 11, 12) there was a “high pitch tone”. This issue has been fixed.
- In Audio Environment “Noisy” and “Quiet” the sidetone gain was almost disabled due to very high attenuation (36 dB). The attenuation has been set to 9dB.

Version PCS25E - R2 2025

Improvements, Added or Changed Features

- *Keypad Backlight Control*
A new configuration parameter has been introduced under:
Settings > Handset > Backlight > Keypad
The keypad backlight now adheres to the behavior of the display backlight, allowing for potentially extended activation periods.
To optimize power consumption, the keypad backlight is disabled by default. This behavior ensures that unnecessary power drain is avoided unless explicitly enabled by the user.
(Tracking ID: DECTESC-1389)

Corrections

- *One-way audio / microphone mute recovery*
Previous software iterations included mitigation routines for microphone mute error states.
Root cause analysis has now identified and remediated the underlying condition that led to persistent one-way audio during active calls.
Full duplex audio paths are now consistently maintained.
(Tracking ID: DECTESC-1356)
- *Signal Strength Measurement Inaccuracy*
A defect in the display refresh mechanism caused signal strength measurement data to be inaccurately represented within the Signal Strength diagnostic tool.
This has been rectified; measurement sampling and data presentation have been decoupled from display rendering processes.
Users may resume usage of the tool via: Settings > System > Signal Strength.
(Tracking ID: DECTPP8-1017)

- *Time Synchronization Precision – S Series Handsets*
S Series handsets previously exhibited imprecise internal timekeeping after registration to Spectralink DECT Servers.
Time synchronization events—triggered on call termination or power cycling—have now been corrected to utilize higher-precision time sources.
(Tracking ID: DECTESC-1386)
- *Earpiece Audio Mute on Message Alert During Active Call*
A logic fault caused the earpiece audio path to mute during inbound message alerts while on a call, if AlertTone was configured to “Key Click,” “Key Beep,” or “Accept Tone.” Previously, the issue required manual toggling of the loudspeaker to restore audio. This race condition has been resolved; audio continuity is now preserved during such events.
(Tracking ID: DECTESC-1353)
- *Localization Updates – Polish Language*
Revisions have been made to correct improper or incomplete Polish language translations across the UI.
(Tracking ID: DECTESC-1401)
- *Endpoint SMS Response Regression (PCS25C – R1.2)*
A regression introduced in PCS25C – R1.2 during the fix of DECTESC-1396 resulted in suppression of endpoint_sms_advanced response messages from the handset to the DECT Server.
The messaging protocol stack has been updated to restore correct transactional behavior.
(Tracking ID: DECTPP8TST-2794)

Version PCS25C - R1.2 2025

Improvements, Added or Changed Features

- Further improvements in monitoring and recovery from microphone mute error conditions.

Corrections

- When receiving an endpoint_sms_advanced the handset could reboot. This issue has been fixed. (DECTESC-1396)
- Corrected packet format for BLE configuration and misalignment in BLE messages from the handset. (DECTESC-1396 same as above)
- General code stability and optimizing.

Version PCS25B - R1.1 2025

Improvements, Added or Changed Features

- Improved monitoring and recovery from Microphone Mute error condition.

Version PCS25A - R1 2025

Improvements, Added or Changed Features

- Updates have been made in certain loneworkermode scenarios. Previously, if a handset was not in contact with the IP-DECT Server, the user was not notified properly. This issue has been resolved by sending both audible and visual notifications to the user (DPRD-340 and DPRD-341).
- Support has been added for detecting iBeacons when the alarm key is pressed (DPRD-328). When Bluetooth is enabled, the handset will automatically update the Bluetooth firmware. The Bluetooth firmware is embedded within the handset firmware. During the update of the Bluetooth firmware (approximately 8 minutes), the handset cannot be used for normal operation.
- To conserve power, the default backlight delay has been changed from level 8 to level 5 before the display dims or turns off after a key press or other activity. Level 8 corresponds to approximately 30 seconds, and level 5 to approximately 7 seconds. Note this change will only take effect if the handset is factory reset (*99940*). If a user encounters short standby or talk time, they can manually adjust the backlight delay in the Handset menu (Settings/Handset/Backlight/Delay).

Corrections

- Resolved scrambling and encryption corruption issue, which previously could cause a buzzing sound in the handset. Typically, a reboot was required to rectify this; however, this problem is now resolved. (DECTESC-1363)
- Addressed one-way audio on earpiece issue. In rare cases, users experienced no audio in the earpiece speaker during calls. This problem has been corrected. (DECTESC-1355)
- Fixed unpredictable behavior and occasional crashes when the local phonebook contained more than 260 entries. (DECTPP8-1064)
- Fixed issues with sending and receiving serial data to a handset. (DECTPP8-1057)
- Corrected the motion alarm activation issue caused by high sensitivity settings and incoming call vibrations by adjusting the vibration pattern when the motion alarm is active.
- Resolved XML-RPC output issue where single and double presses of the alarm button on an S-35-37 were indistinguishable. It is now possible to differentiate between single and double presses. (DECTESC-1354)
- Fixed task list message issue where rebooting the handset resulted in displaying rubbish characters instead of the message in the task list. (DECTPP8-1047)

Version PCS24H - October 2024

Improvements, Added or Changed Features

- **Firmware Update:** You can now update the handset firmware while it's turned on. Previously, this was only possible without the battery being inserted. A new version (2024.1.3) of the Windows tool, available on our support site, now allows updates both with or without the battery. Please use SoftwareUpdateTool-2024.1.3 or newer.
- **Faster Flash Writing:** We've improved the speed of flash writing. During startup, audio and other parameters are validated, which also reduces the handset's startup time.
- **Extended Idle Time:** The handset's idle time has been improved. The S33 model now has an idle time of approximately 120 hours, and the S35-37 models have about 160 hours.

Corrections

- **Audio Tone Issue:** Fixed an issue where a low 8kHz tone could be heard in both the earpiece and rear loudspeaker, especially in quiet environments.
- **PP Retry Issue:** Resolved the problem with the "PP retry" function (endpoint_retry_config in XML_RPC), which defines how the handset retries if it fails to deliver a message to the application server.
- **Heartbeat Issue:** Fixed the "heartbeat" function (endpoint_heartbeat_config in XML_RPC). This function configures the handset to periodically send automatic "keep alive" messages or prompt the user for a key press.
- **Minor Bugs:** Addressed various minor bugs and issues.

Version PCS24G - June 2024

Improvements, Added or Changed Features

- Added access to shortcuts via the Side Key. Configurable via Menu/Settings/Handset/Side Key with options for Short, Double, and long press.
- Added flashlight control in messaging API. When sending an endpoint_sms_advanced() (MSF3) to the handset, the flashlight behavior can be controlled (Only S37).
- The key backlight now synchronizes with the screen backlight. Due to power consumption, it is not recommended to have the screen backlight constantly enabled.
- Software Upgrade Over The Air (SUOTA) upgrade time reduced.
- General stability improvements.

Corrections

- Fixed an error in Audio/Audio Environment introduced in 24CA. There are 3 Audio settings "Quiet", "Normal", and "Noisy". If "Noisy" was selected, the audio parameters for "Normal" was used. If "Normal" was selected, the audio parameters for "Quiet" was used. If "Quiet" was selected, invalid audio parameters were used.

- Lone Worker Mode could not be enabled. This has been fixed.
- Rarely the handset could reboot when a call was terminated from remote side. This issue has been fixed.
- With incoming call vibration enabled, the running detection alarm could erroneously be triggered. This has been fixed.
- Performing SUOTA could cause the handset to end up in a continuously reboot state. This has been fixed.
If this happens, the handset must be upgraded via the S Series software updater tool.

Version PCS24C - March 2024

Improvements, Added or Changed Features

From this version, PCS 24C and forth, the same firmware can be used for all 3 variants of the S-series handsets – S33-S35-S37.

- Preventing Software Upgrade Over The Air (SUOTA) to downgrade firmware versions before PCS 24A (PCS 24A inclusive) into S 35 and S 37 handsets.
- Added support for Configuration Over The Air (COTA).
- Adding support for accelerometer (Motion detection) in the S 37 handset.
- Added screen lock to security, and adjusted UI as needed.
- Implemented low-power-mode. This feature ensures that the handsets consume minimal power during periods of inactivity, thereby extending the operational time between charges.

Corrections

- Ringtone is now audible in lowest ringtone volume.
- Updated the Danish language.
- Updated the Dutch language. This addresses DECTPP8-929.
- General code stability and optimizing.

Version PCS24A - Feb 2024 (S33 only)

Improvements, Added or Changed Features

- Reintroducing the submenu "msf-tone-in-a-call" in messages/settings.

Corrections

- Fixed memory leak that caused handset to reboot after 200-300 calls.

Version PCS23H - Dec 2023 (S33 only)

Corrections

- Automatic update of Bluetooth firmware was not working correctly. Previously with PCS23G firmware the update stopped after 99% and wrote "ERROR CODE: 0x59", only solution was to remove battery, insert battery again and within 5-7 sec disable Bluetooth (menu/Audio/Bluetooth Headset/Active/Off).
The issue has been solved.

Version PCS23G - Dec 2023 (S33 only)

Improvements, Added or Changed Features

- Improved battery life when handset is in idle mode.
- When turning off the handset and placing it in a charger, the LED now shows the charging state.
- Added automatic update of Bluetooth firmware.
- Update embedded Bluetooth firmware to version 31.

Corrections

- High pitch tone could sometimes be heard in the handsets ear speaker.
This has been fixed.
- When performing subscription, the subscription data could end up not being written to the handset database, resulting in missing subscription after handset reboot.
This has been fixed.
- The preview of internal and external ringtones in 'Ring Tone' menu was not working as expected.
This has been fixed.
- When trying to delete all messages, only one message at a time would be deleted.
This has been fixed.
- Audio from the handset microphone could appear distorted.
This has been fixed.
- Issue in Bluetooth chip restricting the number of simultaneous Bluetooth devices paired to one has been fixed. Now 3 simultaneous devices can be connected.
- When searching for Bluetooth devices the device name could be displayed wrong.
This has been fixed.
- Pairing with a Bluetooth device could sometimes take too long and fail unexpected.
This has been fixed.
- Some Bluetooth call scenarios was not working as expected.
This has been fixed.
- Cancelling connection handover between two base stations could result in a dropped call.
This has been fixed.

Version PCS23F - Nov 2023 (S33 only)

Improvements, Added or Changed Features

- Added support for Teams integration.
- DECT Security step B has been implemented.
- The auto keylock function has been introduced in the Settings/Handset menu.
- Implemented FAD (Fast Antenna Diversity). The hardware is now making the decision of which antenna to use.
- Updated production test support for SKU B+C.
- Added support for tear off sensor for SKU B+C.
- Added support for tear off sensor for SKU B+C.
- When updating firmware via SUOTA the backlight is enabled to ensure user can see progress.
- Update embedded Bluetooth firmware to version 29.

Corrections

- Previously when upgrading a handset placed in a cradle via SUOTA, the update could sometimes stop, and a manual intervention was required. This problem has been fixed.
- Due to a yet unresolved software error in the Bluetooth chip, the number of simultaneous Bluetooth devices paired to the phone has been reduced to 1 device.
 - * Fix call/hold with headset
 - * Fixed BT auto-connect
- Checking battery level before booting up the handset, previously the handset could end in repeatedly restarting sequences for several minutes.
- Improved handset radio performance significantly.
- When a handset has accessed the Central phonebook and selected a specific entry, it was previously only possible to select one phone number out of up to 5 possible phone numbers. The problem has been fixed.
- Updating Production ID format according to specification.
- When sending an MSF to a handset with bit 0 set in SetupSpec2 (Save In Stack) the message was not saved. This issue has been fixed.
- Reduced output volume in the last 2 steps for ring/alert tones.
- When using production test (99977) two things have been changed.
 - * In the Charger test it was previously possible to interrupt the charger test by pressing a random key.

* If the handset was not subscribed to a system the handset was shutting down after 5 min. This timer is now stopped when entering the production test.

- Not changing EDRC parameters on every call. EDRC is a mechanism used to eliminate background noise and focus on the microphone input.
- Updated image size to be up to 8 MB.
- Performance optimization - by moving some code to RAM and changing wait state levels.
- Issues around howling in production test (a loopback test) has been addressed.
- Fixed issue with echo in both handsfree and earpiece mode.
- Corrected errors in profile menu in other languages than English. By mistake English was the only language changed.
- When entering a wrong AC code (during a subscription), the handset was previously not able to search for new systems afterwards. Only solution was rebooting handset. This issue has been resolved.