spectralink

Technical Bulletin CS-18-01

Q1-2018 DECT Release: Built-in site-survey, improved handset audio, and DECT server security enhancements.

This technical bulletin reviews the new DECT handsets, IP-DECT and DECT server enhancements and general enhancements available in the Q1 2018 software release for Spectralink DECT portfolio. For details please download and review the additional Technical Notes from our support portal.

Systems Affected

All DECT servers, IP-DECT servers and handsets. Please review separate and detailed release notes available via support site for product specific information.

Key DECT Handset Enhancements

DECT Site Survey Function

– **Enhancement:**

– Ability to conduct site survey via standard DECT handsets has been introduced in this firmware release. The functionality is available to ALL Spectralink 7000 series DECT handsets, except models 7202 & 7212. To access site survey menu (Menu|Status|Survey) please enter the last 4 digits of the handset IPEI number when requested; which is unique to each handset.

– **Benefits:**

– Site survey is an essential tool in providing a detailed assessment of the customers' premises where DECT wireless infrastructure is to be deployed. The survey makes the DECT radio coverage clear to understand and helps installers

determine both the optimum location & the number of DECT Base Stations required for guaranteed coverage as users roam untethered within the customer facility. Please note that many vendors provide expensive site survey tools, however, Spectralink strongly feels that by using our standard DECT handsets, enterprise mobility installers can now cost effectively implement a site survey to achieve a better assessment of radio signal coverage and thereby ensuring better quality mobility deployment including superior voice quality, roaming & handover of calls.
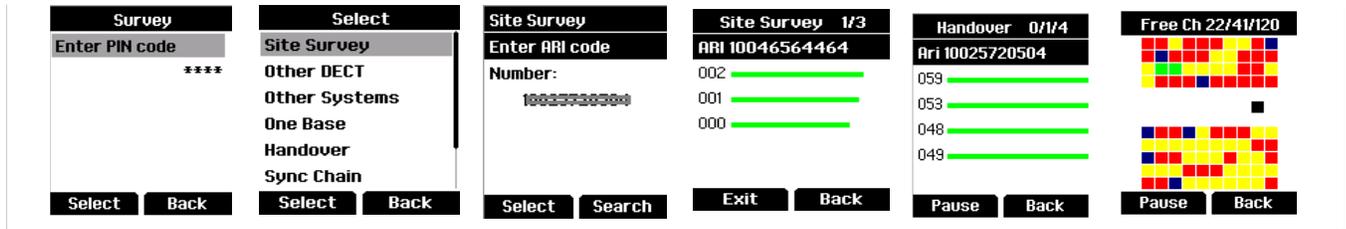
Figure 1: DECT Site Survey Option available on Spectralink DECT Handsets

Redesign of the RSSI to Improve Synchronization:

- **Enhancement:**

  - The GUI implementation for presenting the RSSI (Received Signal Strength Indication) (Menu->Status->RSSI) has been redesigned with usability in mind, making it easier to identify the base numbers (RPN) as the data is displayed in DEC and not HEX. Also, the information is now easier to view, starting with the top bar, that is connected to the Base Station, and up to four optional Base Stations as shown below.

- **Benefit:**

  - By making the RSSI indicator easy to view and understand system installers can quickly understand the DECT channel usage, and ensure improved synchronization in order to achieve optimum handover experience.
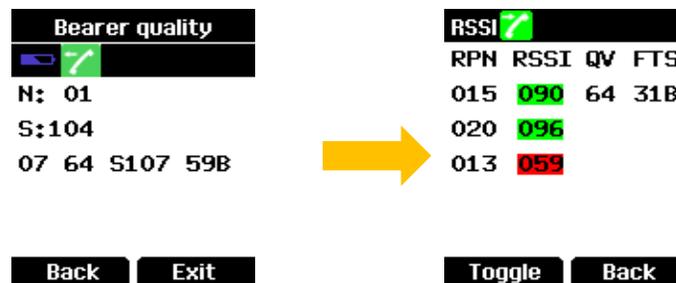

Figure 2: Improved GUI with clear info on RSSI on Spectralink DECT Handsets

Ringtone Volume Level Increase:

- **Enhancements:**

  - Two additional volume levels for ringtones (Menu->Settings->Ringing Volume) have been added, providing an increase of up to 6dB, giving users the ability to significantly increase the ringtone volume level. In order to identify the 2 new steps for increased volume – the verticals bars representing the increased volume are set to red. Note: Users should keep the handset away from their ears when selecting the loudest ringtone, as it can potentially harm hearing. Please check documentation for further details.

- **Benefit:**

  - Customers who work in loud & noisy environments can now benefit from using these 2 additional volume level increases, allowing them to easily detect & notice the phone ringing while working on the factory floor, or in a warehouse, truck parking bays, building & construction sites, anywhere with a noisy environment.
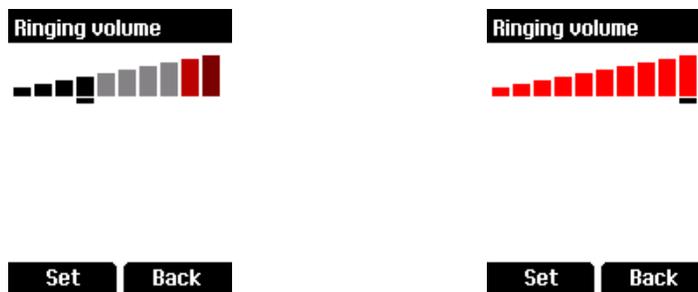

Figure 3: Ringtone Volume Level Increase Option for Spectralink DECT Handsets

Note: There is now also an additional option to increase volume level when using a wired headset.

New Sign-In Shortcut Available in Handsets Menu:

- **Enhancements:**

  - A new shortcut that can be used when the system provides an option for signing in has been added. For users that would like to utilize connecting to servers such as Microsoft S4B with PIN authentication, rather than using the "long press 9" option - there is now an easy to use shortcut for accessing the login menu. Note: The shortcut needs to be manually added in each handset (Edit Shortcut).

– This functionality is depending on the server supporting the specific feature.

– **Benefit:**

– Customers who want & need an easier mechanism for sign-in can now create a short-cut and use the short-cut for login purposes.
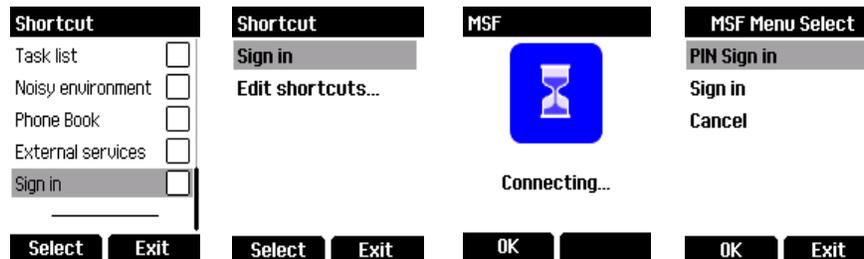

Figure 4: UI Menu Option Showing Sign-In Shortcut Option on Spectralink DECT Handsets

Call a SIP URI When Using Company Phonebook:

– **Enhancement:**

– When using the company phonebook feature on the DECT server and handsets, the use of SIP-URI's (msRTCSIP-PrimaryUserAddress) support is now available.

– **Benefit:**

– When employees using the DECT handset searches the company phonebook (e.g. LDAP/AD) and finds a contact that has SIP URI as a contact entry, this will properly appear under the contact and the user can simply select the SIP URI as the contact and dial the SIP phone endpoint to initiate and establish a phone call.

Figure 5 - Contact showing SIP URI that when selected can be dialed

Key IP-DECT Server Enhancements

End-to-End-Encryption, Enhanced Security, & Improved Log Traceability:

– **Enhancements:**

– The connection between the IP-DECT server and either the IP Base Stations and media resources are now fully encrypted if both ends supports it. Optionally the encryption can be set to mandatory in the menu (Configuration/Wireless server menu).

– The IP-DECT server web GUI now includes Cross Site Request Forgery (CSRF) protection on all web pages that may cause changes to the DECT server.

– Further, it is now possible to block user passwords and other sensitive data from being exported in files. As an example; SIP account credentials can be blocked from export for added security. Note: when blocking credentials the export functionality is enabled, it can only be disabled with a factory reset, removing all configuration and user data.

– Finally, the name of files created on the server (logs, packet capture, backups) now includes the serial number of the device and the current date and time. This is done for easier identification of files exported from the DECT servers when used in troubleshooting and for improved file audit purposes.

– **Benefits:**

– All the above IP-DECT server enhancements have been done in order to bring the IP-DECT server security to enterprise grade and ensure that the Spectralink IP-DECT servers can be deployed in any environment by customers with total security peace of mind.

General DECT Server Enhancements

New Statistics for Handsets in Service Report:

- **Enhancements:**

    - New statistical counters have been added for handsets and the counter data is available in [statistics.txt] file available as part of service report, including:

        • Receive incoming call, but handsets not found on DECT system

        • Receive incoming call, but handsets is turned off

        • Receive incoming call, handset is found, but call is not answered

        • Receive incoming call, handsets found, but call is answered elsewhere (another handset performs the call pickup and answers the call).

- **Benefits:**

    - These additional handset statistics can help identify issues with call handling and assist the support team when troubleshooting or completing a detailed analysis of the system

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Contact Information

US Location	Denmark Location	UK Location
+1 800-775-5330	+45 7560 2850	
Spectralink Corporation	Spectralink Europe ApS	Spectralink Europe UK
2560 55th Street	Bygholm Soepark 21 E Stuen	329 Bracknell, Doncastle Road
Boulder, CO 80301	8700 Horsens	Bracknell, Berkshire, RG12 8PE
USA	Denmark	United Kingdom
info@spectralink.com	infoemea@spectralink.com	infoemea@spectralink.com