

Spectralink 76x0- and 77x0-Series

Release Notes Q3, 2016

Firmware Version PCS 16C

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Introduction

Terms and Definitions

| | |
|------|---|
| AEC | Acoustic Echo Celler |
| CISS | Connection Independent Supplementary Services |
| CWI | Call Waiting Indication |
| GUI | Graphical User Interface |
| HMP | Handset Management Program for Spectralink 75x0, 76x0, and 77x0-Series |
| KWS | KIRK Wireless Server |
| MSF | Message Service Format. Contact compliance@spectralink.com for detailed information |
| PCS | Product Change Status |
| P-ID | Production Identification |
| RPN | Radio Part Number |
| RSSI | Received Signal Strength Indication |
| SNR | Signal to Noise Ratio |

Release

These combined release notes apply to the released versions of firmware for the Spectralink 76x0- and 77x0-Series. This version specifically applies to version PCS 16C of the firmware. This is a main release that replaces the previous releases as the latest generally available (GA) release.

The current handset firmware PCS information can be found in Menu/Status/General information 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.

Important Notes

The basic functionality of these handsets is the same; however, minor differences in features as well as hardware exist.

Driver for the Handset Management Cradle

Ensure that you have the latest driver installed. You can download it [here>>](#)

Upgrading the Handset

Download the latest software from the [Spectralink Support Portal](#). Use the Handset Loader to update individual handsets, and the HMP for configuration.

Also, you can quickly and easily update your handset(s) with the online [Spectralink Handset Software Updater](#).

Sign up for Spectralink's technical newsletter [Tech Point](#) to get updated on new software releases and technical information.

Changes

Version PCS 16C - Q3, 2016

Corrections

- Corrected wrong formatting of display text in MSF format III messages. This caused the 3rd text line not to be displayed.

Version PCS 16B - Q2, 2016

Added or Changed Features

- Improved mute functionality. This results in less crackling when experiencing low signal or external radio noise.

Version PCS 16A - Q1, 2016

Added or Changed Features

- Removed not-implemented conference join from call menu.

Version PCS 15K - Q4, 2015 (Battery Type)

Added or Changed Features

- Service code *99956* allows to choose between battery types 84743424 (Old) and 84743428 (New), for optimal utilization of the battery capacity.

Version PCS 15J - Q4, 2015

Added or Changed Features

- Changed “battery low” and “out-of-range” tones to inband busy tone if in call.
- Shortcuts will only be reset if updating from PCS older than 13Fa.
- Inband tone could hang and start on new call. (DECTESC-624)
- Call Control: Fixed idle display. External, Internal, Knock-knock and silent alerting will play correctly.

Version PCS 15H - Q3, 2015

Added or Changed Features

- If an ended while having a call waiting, the phone could end up in a hold state, now it will start ringing.
- Alert timeout is now used when a “Text Call” message is received. DECTESC-572
- Service code *99945* now also enables a feature for use on some alien DECT infrastructures: Ring request is sometimes received after hook off. This will now be ignored (on all systems). Display request with a clear page command and a text with a single space is sometimes received. This will now be ignored when CS1K compatibility is enabled. DECTESC-600

Version PCS 15E - Q2, 2015

Added or Changed Features

- Service code *99973* now makes it possible to show message text or callback number in the message inbox list.
- Service code *99945* now also enables a feature for use on some alien DECT infrastructures: If the ringer cadence is short, the ringer tone is not shortened.

- Possible to scale pre-alarm time from 60 sec. to 240 sec. In this interval the steps are 4 seconds.

Version PCS 15A - Q1, 2015

Corrections

- Error corrected if the user/system try to update a MSF format III message with a new priority the handset could reset.
- Error corrected if the user/system update a MSF format III message the wrong message could be showed in the display.
- The retry alarm message text could show an extra character.
- It is now possible to disable the retry function also if the handset is in the retry state.
- Reply on retry/heartbeat setup corrected.
- Broadcast hardware sensor setup/reply corrected.
- Bluetooth now replies error to new commands from BT headsets. This leads to faster connection.
- Bluetooth will in some cases restart. If a call is being set up while it restarts, the phone can get in a state where making calls or turning it off isn't possible. This is now fixed.

Version PCS 14L - Q4, 2014

Added or Changed Features

- Item number (Sales part number) send to DECT Server on location registration.
- Low RSSI level and other quality information are now logged and send to DECT Server.
- Time stamps on MSF format III (Task) are now shown in display.
- Service code *99945* enables a feature for use on some alien DECT infrastructures: If the feature is enabled and the incoming call has a CLIP number and no CLIP name,

and a text is received shortly after then this text will be added to the CLIP information (Call list).

Corrections

- Release of text messages (and other supplementary services) on older KIRK Wireless Server has been improved.

Version PCS 14H - Q3, 2014

Added or Changed Features

- If the keyboard is locked and the phone receive a call which is not answered, the keyboard will now relock and show the missed call icon. DECTESC-538
- Dead man button added to heart beat functionality.

Corrections

- False “not vertical alarms” removed. DECTESC-536
- The retry alarms messages function is now disabled when the phone is placed in the charger.
- Improved handover in connected state.
- Call from phone into a hunt group on a Shoretel PBX no longer causes wrong call progress tone during call. DECTESC-539
- Hardware sensor settings are no longer overwritten if a user enters the Alarms menu on the phone. DECTESC-531

Version PCS 14D - Q2, 2014

Added or Changed Features

- Send MSFKeyPadInfo with info about key used to terminate Text calls. When the system setup a text call to the handset, it is possible to get information about the key the user pressed to exit the text call. The info is send as MSFKeyPadInfo before the connection is closed. The SK bit must be set in SetupSpec3 to enable the feature.

Corrections

- Fixed screen would be blank for outgoing calls when alerting in some Lync setups.

- Under special circumstances, the phone would make an abnormal release when two connections was made to it in a row. This no longer cause a false abnormal release in the log.
- If a new MSF format III message was send to the phone before the last message was removed from the display, a possible memory leak could occur. This is now corrected.

Version PCS 14A - Q1, 2014

Added or Changed Features

- The generic alphanumeric input method, which is used in *ASCII String Setup* and for signing in using the Handset Sharing feature, has been improved. Digits could only be entered by long pressing the numeric keys. Now, the user can switch between entering digits or small/capital letters by pressing the star key.
- If a user hooked off and then started entering digits before the connection was established, (characterized by an audible dial tone) some or all digits would not be received by the system. Now, the handset vibrates shortly and does not display any entered digits before the connection has been properly established.
- The handset now supports reception of an *endpoint_status* request while in an active MSF session.
- To improve the usability of central handset administration, the handsets have exchanged P-ID and PCS information during registration since Version PCS 13J. This has unfortunately revealed a fault in old DECT Servers produced *before* 1998. The fault caused subscription to fail. The handset now omits this information during subscription based on the estimated production year extracted from the system ARI code.
- The Start date in *Menu/Settings/Advanced/Time & date* has been changed to 1/1-2014. This initial date is used only if the DECT Server does not support remote setting of time and date in the handset.

Removed Features

- If *Menu/Settings/Out of range* is enabled, the display background shows a red icon accompanied by the text "No Signal". It would also display the text "Base busy" in case all channels on the active base station were occupied. The "Base busy" feature has been terminated.

Corrections

- Fixed an issue potentially causing up to 1% of outgoing call setups to terminate abnormally.
- If voice/data encryption was configured to Always/Enforced, the handset could terminate a call abnormally during handover. This has now been corrected.

- Fixed an issue where calling a busy extension could cause a corrupted entry in the Outgoing call list.
- Entering digits from the key pad did not work on some Phone Banking systems if they used early media and `dect.ng_call_control` was enabled on the DECT Server. This has been corrected by letting the handset send the digits also in early media state.

Version PCS 13L - Q4, 2013

Added or Changed Features

- A new Spectralink branded startup and power down tune has been introduced.
- The model name in Menu/Status/General information has been changed to match the new Spectralink 7000-Series product branding.
 - KIRK 6020 is changed to Spectralink 7620
 - KIRK 6040 is changed to Spectralink 7640
 - KIRK 7010 is changed to Spectralink 7710
 - KIRK 7020 is changed to Spectralink 7720
 - KIRK 7040 is changed to Spectralink 7740
- The Bluetooth identification name has been changed to Spectralink 7640 and Spectralink 7740 respectively.
- When the handset was put on hold by the remote party and the DECT Server setting “Play on-hold tone” was enabled, a ring back tone would be heard in the handset. This confused users and has now been replaced by two distinct beeps being repeated every 6 seconds.
- A progress bar has been added during handset power on to indicate when it’s ready.

Removed Features

None

Corrections

- Fixed an issue where answering a call using certain Bluetooth headset models could take up to 10 seconds.

Version PCS 13K - Q3, 2013 (Hotfix July 9, 2013)

Corrections

- An error introduced in PCS 13J could cause unpredictable behavior during an incoming call on a KWS1500 and on a KWS 2500/8000 configured in “DECT to DECT” or Analogue mode. The error is addressed with this Hotfix.

Version PCS 13J - Q3, 2013

Added or Changed Features

- New “pager like” tones have been added to MSF to allow the handsets to replace or supplement existing pager solutions.
- During an outgoing call, the redial stack is designed to store any calling party name and number information received from the PBX. An inappropriately configured PBX could, however, send a number with a missing pre-dial digit, preventing redial from working. Now, only the calling party name is updated and only if the calling party matches what the user has entered.
- MSF text call content can now be stored in the message inbox if the “save in stack” bit is set.
- The “Fast run” motion sensor can now be configured to enable a cool-down period before it is reset. As an example it allows a running guard to stand still while opening a door without the alarm being reset.
- A heartbeat has been implemented in the messaging protocol. In safety critical applications, this feature can be enabled by the remote messaging application where it’s mission-critical to guarantee the handset is in range and operational at all times.

Removed Features

None

Corrections

- Fixed a rarely occurring issue where the handset could mistakenly interpret an incoming call as an intercom call and subsequently hook off.
- Fixed a recurring issue where the ring back tone disappeared if a message was received during an outgoing call setup.
- If the Handset Management Program was used to read out the status of the Acoustic Echo Cancellor, it would state “Disabled” even though it is permanently enabled in the handset. Now, “Enabled” is returned when read.

- Fixed an issue where the local ring back tone was missing if the active call was being transferred by the far end.

Version PCS 13F - Q2, 2013

Download the latest version of the Handset Management Program to make sure the new and modified features are supported.

Added or Changed Features

- A new power saving feature, “Economy mode”, has been added and enabled by default. When the handset is in good coverage¹ of the active base station, the handset will lower the transmitted radio power to 50mW. In ideal situations, the talk time will increase up to a total of 27 hours.
- The list of alternative base stations and free channels is now updated faster to improve connection handover.
- If the handset receives a “Busy Here” or “Not found” notification during call setup, the called number was by design not stored in the redial stack. Now the called number is always stored in the redial stack.
- A search in the local phonebook now supports special characters (ISO 8859-1 ISO Latin-1). It is therefore now possible to search for, for example, Müller in the local phonebook.
- General enhancements to MSF Format III.
- Spectralink branding.

Removed Features

- “Any key answer” has been removed.

Corrections

- Fixed a problem where assigning speed dial numbers from the phonebook did not always work as expected.
- If the handset displayed a battery low notification during an incoming call and the user pressed the R-key, the handset would continue to ring while the display returned to idle. Now, the handset display returns to the screen of the incoming call.
- If a message template was used to reply to a message, the sender’s phone number was empty. This has been corrected.

¹ The coverage is determined by deployment and the regional regulatory transmitter level.

- An intermittent fault that happened when the Handset Management Program was used to update the phonebook has been solved.
- Fixed an issue where a received message could be corrupted when using broadcast with multiple repetitions.
- Minor changes to the wording of the German menu languages.

Version PCS 13A - Q1, 2013

Added or Changed Features

- If an *Automatic Alarm Call* is initiated, any active calls will be terminated before the alarm call is placed.
- Improvement of the received audio performance.
 - In silent surroundings a 9dB improvement of SNR significantly reduces audible superimposed “white noise”.
 - In noisy surroundings² a lowering of the side tone and a 6dB increase of volume enhances speech intelligibility.
- Side tone has been added to locally generated call progress tones.
- When displaying Messages/Templates the template number has been removed to present more of the template content.
- On a KIRK Wireless Server supporting long SIP-URI's (up to 64 characters), the handset would truncate incoming long SIP-URIs to 36 characters. Long SIP-URI's are now handled by the redial stack.

Removed Features

- In PCS 12T/12V the Loudspeaker mode was also available in the KIRK 7010 handset. Loudspeaker mode is not a part of the KIRK 7010 feature set and has been removed.

Corrections

- If “Mic Mute” was pressed before a call setup was complete, the soft key label would remain unchanged. This has now been corrected.
- The previous version 1.02 of the Handset Management Program could not delete Broadcast groups. This has been corrected in the newest Handset Management Program version.

² Tested at 90dB(A). It is strongly recommended to use an ear defender headset when noise exposure exceeds 85dB(A) to avoid permanent hearing loss.

- In PCS 12T/12V *Automatic Alarm Call* could not activate Loudspeaker mode. This has now been corrected.
- The menu item “Task list” has been translated into the languages available in the handset.
- If the handset receives an *endpoint_sms_advanced* message while in an active voice call and the R-key is pressed, the display returns to idle but the voice call remains active “in the background”. This has been corrected by letting the R-key return to the active call.
- When the handset displays a system error message e.g., “Not found”, it should be accompanied by an audible busy tone. This was not the case and it has been corrected.
- Initiating a second call by entering the phonebook and pressing the hook key failed. This has now been corrected.
- Alerting sounds (low bat., out of range, messages, etc.) could be distorted or missing during an active call, when using a Bluetooth headset. This has now been corrected.
- A minor incompatibility with old (12+ years) base stations could cause fluctuation of the Q value. This has now been corrected.
- If an *endpoint_sms_advanced* message was received while the handset is placed in the charger, the charging status LED would turn off. Now the charging status LED resumes when a message exits.
- When *dect.ng_call_control* was enabled in the KIRK Wireless Server, the handset did not respond to the KIRK Wireless Server setting *Play on-hold tone*. This has now been corrected.
- MSF Format III Improvements:
 - Broadcast handling.
 - Rolling alarm messages remain visible after user response.
 - RPN and RSSI information added to *endpoint_hardware_extension()*.
 - An *endpoint_hardware_extension* request now returns 0(normal) or 1(alarm).
- The battery status was not updated if the handset was out of range. Now the status is updated regardless the state of the handset.
- If the handset is in switched off state in the charger, it would switch itself on if the charger’s main supply was switched off. Now the handset will remain switched off.

Version PCS 12V - Q4, 2012

Added or Changed Features

- The search for names in the local phonebook has been improved. For example, “Kevin Scott” is found by simply entering digits 538(KEV) or 726(SCO). For each entered digit, the list of matching names narrows down until only Kevin is left. To undo a keystroke, press the # key.

Removed Features

None

Corrections

- A few non-English translations, used during *endpoint_sms_advanced* response were too long. This caused soft keys to be blank and has now been corrected by abbreviating the relevant translations.
- If the handset received a message during an outgoing call and the far end had not answered yet, the ring back tone would disappear. Now, the ring back tone is resumed, when the message alert stops.
- A memory leak in the *endpoint_sms_advanced* handling could cause the handset to restart after reception of more than hundred messages. This has now been corrected.
- Early media during call transfer did not work correctly on some PBX's (Lync® being one of them). This has now been corrected.

Version PCS 12T - Q3, 2012

Added or Changed Features

- GUI Enhancements:
 - Improved viewing angle of call icons.
 - The font used for digits has been modified to match the keypad font.
 - Check box graphics modified.
 - Charging icon modified.
 - Presentation of call waiting³ with soft key options to reject/accept.
 - Status for call on hold³.

³ Must be supported by KWS

- If a message is received during an active voice call, discrete beeps are mixed into the received audio stream. The far end is unaffected.
- If an MSF Format III message exceeds the display, the user can scroll through the message by pressing the down key. The up key is reserved for “Select response”.
- In the status menu, “Firmware version” has been changed to “General information”.
- The Bluetooth MAC address has been added to General information.
- Bluetooth identification name has been changed from Polycom 6040/7040 to KIRK 6040/7040.

Removed Features

None

Corrections

- When the handset displays a message, receives an incoming call, and yet another message, the vibrator could start without stopping again. This has now been corrected.
- RSSI for the active base station was fluctuating, when encryption was enabled on the KWS, potentially causing unnecessary handovers. This has now been corrected.
- The KIRK 6040 and KIRK 7040 handsets could restart themselves within a few days. This has now been corrected.
- The font definition for letter Î (ASCII_LATIN_CAPITAL_LETTER_I_WITH_CIRCUMFLEX) and Ï (ASCII_LATIN_CAPITAL_LETTER_I_WITH_DIAERESIS) has been corrected.

Version PCS 12P - Q2, 2012

Added or Changed Features

- A *User ID* field has been added to the handset subscription procedure. This allows an easy subscription to a KIRK Wireless Server supporting this feature; otherwise leave this field blank.
- *Automatic Alarm Call* has been introduced in KIRK 6040 and KIRK 7040 Handsets.
- While placed in a charger, the top LED will show the charging status. Constant red when charging and constant green when fully charged.
NB: Reception of *endpoint_sms_advanced* LED control has higher priority and will overwrite the local LED charging status.
- An additional information element has been added to the *endpoint_status* event PPChargerStatusInd. This will enable a messaging application to see if the handset is put into or out of a multi-charger.

- *endpoint_call_menu* string length has been raised from 11 to 15 characters per item.

Removed Features

- Support for one digit dial plan on residential DECT systems using the R-key has been terminated.

Corrections

- Immunity to other DECT systems has been improved. The result is:
 - Better handover performance.
 - Less incidents where hook off results in the handset going back to idle instead of making/answering a call.
- The handset could make an abnormal release during call transfer resulting in the call not getting transferred. This has now been corrected.
- If the backlight is set to Off and Delay is set to minimum, the handset would restart constantly. This has now been corrected.
- Entering an asterisk by long pressing the * key would not automatically advance the cursor position. This has now been corrected.

Version PCS 12B - Q1, 2012

Added or Changed Features

- The display of a received message has been changed. (Does not apply to *endpoint_sms_advanced*)
 - The call back number (if any) is shown in the info bar next to a hook icon.
 - If the message exceeds the display, the user can scroll up/down to view the entire message.
 - The message text is left aligned.
- The sensitivity of automatic alarms in KIRK 6040 Handset and KIRK 7040 Handset can now be configured.
- For *endpoint_sms_advanced* messages, the soft key text "Reject" has been changed to "Unable".

Removed Features

None

Corrections

- Handover in areas with challenging radio deployment could fail. This has now been corrected.
- The G.726 DSP could intermittently end in a state where either TX or RX audio was slightly distorted or completely silent. This has now been corrected by re-initializing the DSP at each call.
- Subscribed to a KIRK Wireless Server 1500, the handset ringer tone could sometimes not be heard when the handset was called. This has now been corrected.
- When backlight was set to Off and the handset restarted, the handset could appear “dead” until the battery was flat. This has now been corrected.
- When Auto key lock was changed from On to Off, the keypad would auto lock after leaving the menu. This has now been corrected.
- Handsets with production week codes from 11W14 to 11W27 might have a too high microphone gain setting. Upgrading the handset to this firmware release will correct the gain setting.
- On rare occasions the vibrator would not stop after exiting an MSF message. This has now been corrected.

Version PCS 09H - Q4, 2011

Added or Changed Features

- Hourglass, exclamation and OK icons have been added to the login procedures.
- When selecting MSF function or External services from the Menu, the handset will show an hourglass with the caption “Connecting...” If a CISS connection is not established within 3 seconds, an exclamation icon with the caption “Connecting...Failed” will appear for 3 seconds.
- When a message is received, pressing OK will mark this message as read in the inbox.
- A 4 digit power off password can be activated in the handset via MSF.
- For *endpoint_sms_advanced* messages, the delete option is now controlled from the response enable mask.

Removed Features

- The “System Busy” notification has been suppressed. However the red RF icon in the info bar will still be displayed if the DECT base station is busy.
- The “Low Signal” notification has been suppressed.

Corrections

- When being on the edge of radio coverage, the user could experience “cracks” in the audio. This has been solved by improving the muting algorithm.
- Erasing messages could cause the handset to reset or hang. This has now been corrected.
- The selection bar in *Menu/Status* could be uninitialized until up/down keys were pressed. This has now been corrected.
- The selection bar in *Menu/Settings/Advanced.../Language* could be uninitialized. Now the currently selected language is highlighted.
- Writing the Phonebook using the HMP could fail for certain names/numbers. This has now been corrected.
- The Bluetooth connection to a Plantronics® Voyager™ PRO+ was unstable. This has now been corrected.
- When *endpoint_sms_advanced* messages were opened from the Task list they always displayed the following state: “Allow Alarm Accepted”. Now the message is opened correctly according to its state.
- The handset could restart when having too many *endpoint_sms_advanced* messages. This has been solved by implementing a FIFO of 50 messages.
- The text strings shown when handling *endpoint_sms_advanced* messages were in English. They have now been translated into the languages selectable in the handset.

Version PCS 09A - Q3, 2011

Added or Changed Features

- Russian language has been added. Please note that when selecting Russian language the code page of the handset changes to CP1251 (Cyrillic).
- MSF signal *PPVersionReq* and *PPSetCradleRelReq* has been added.

Removed Features

None

Corrections

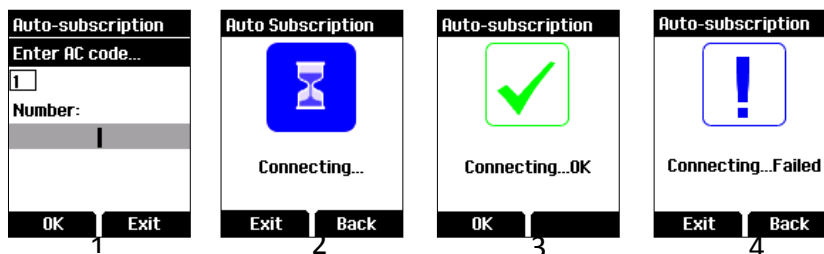
- Hooking off while viewing a message in the inbox without a callback number could cause the handset to place a call using the callback number from a previous selected message. This has now been corrected.

- When the capacity of the MSF3 messages was exceeded, the handset could restart. This has been corrected by making a message FIFO with a capacity of 50 messages.
- The air interface mechanism scanning for free DECT channels was too sensitive, causing the handset to see other DECT channels as “busy”. This resulted in the following issues, which have now been corrected:
 - A connection was not always established when the handset was hooked off.
 - The handover performance was not as robust as in the KIRK 40- and KIRK 50- handset series.
- Improved power management has increased the talk time on:
 - KIRK 6020, KIRK 7010 and KIRK 7020 from 17 hours up to 23 hours.
 - KIRK 6040 and KIRK 7040 from 15 hours up to 22 hours.

Version PCS 07P - Q2, 2011

Added or Changed Features

- The AEC is enabled by default.
- While making an outgoing call, the handset can display additional calling party information, received from the KWS.
- The backlight will turn on if information, such as CWI, is received during an active call.
- Auto-subscription:



1. When the handset is turned on and has not yet been subscribed to one or more DECT systems, it will prompt the user for an access code.
 - a. Enter access code ‘AC code’ and press OK to start Auto-subscription or,
 - b. press Exit to return to the main screen. (The original method for subscribing is unchanged).
2. Using the entered access code, the handset will now try to subscribe to ANY DECT system that allows subscription.
3. The result is one of the following:
 - a. The handset was successfully subscribed. Press OK to return to idle screen.

- b. Auto-subscription failed. Press Back to try again or Exit to return to the main screen.

Removed Features


- The AEC cannot be disabled via the HMP.

Corrections

- The AEC routine handled weak signals poorly. This problem has been solved by implementing the same AEC method as used in the KIRK 50-Handsets.
- While moving around, the microphone would sometimes pick up low frequency wind noise. This has been eliminated by enabling a high-pass microphone filter.
- Hooking off during an MSF containing a call-back number would sometimes cause the handset to start the call in Push-to-talk mode. This has now been corrected.

Version PCS 07E - Q1, 2011

Added or Changed Features

- A new managed feature “Absent mode” has been added to the handset. In this mode the handset will reject calls and ignore messages while placed in the charger. The icon next to this text will appear in the display when this mode is active. The feature can only be enabled/disabled via HMP or MSF. 
- Readout of P-ID has been added to *Menu/Status/Firmware version*.
- Individual Long Key settings have been added.
- A Push to talk-attribute may be added to an existing speed dial entry. In this mode the handset starts the call with the microphone muted. To un-mute, press and hold the “Mic on” soft key.
- If an incoming call setup contains a Calling Party Name, this is shown in the Call list instead of the number unless an associated name exists in the phone book.
- The handset can handle an incoming call setup containing a SIP-URI of up to 128 characters. This number can be redialed from the Call list by pressing the On/Off Hook key.
NB: A number containing a SIP-URI cannot be stored in the phone book or entered via the keypad.
- A phone number containing a ‘+’ can be entered from the keypad by pressing the ‘#’ key three times.
- The phone book can handle numbers containing ‘+’.

- The display of missed calls can be suppressed by the KWS.
- Support of Virtual SIM has been added.

Removed Features

- In previous versions the phone book allowed for multiple entries to have the same name. This feature has been removed to avoid that duplicate names are created using the GUI or HMP.

Corrections

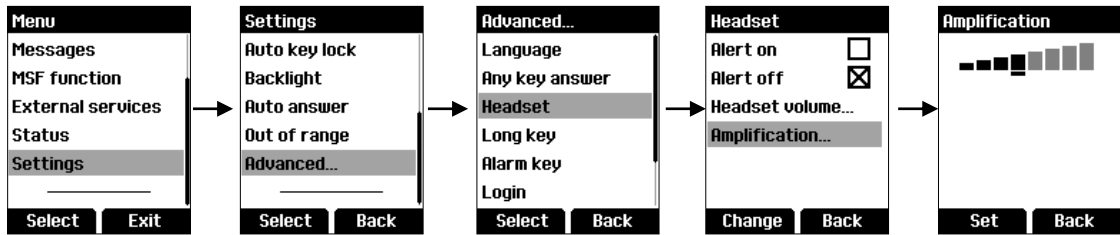
- Start date in *Menu/Settings/Advanced/Time & date*, has been changed to 1/1-2011.
- In previous versions changing the setting Headset Alert using HMP did not take effect until the handset was power cycled. This has now been corrected.
- When receiving a message alert during an active call, the far end would sometimes experience a scratching noise. This has now been corrected.
- An incoming call starting with '+' would appear correctly in the incoming call list, but re-dialing this number by pressing On/Off Hook key, failed. This has now been corrected.
- On rare occasions, pressing the '#' key in idle mode would be misinterpreted as a long press of the '0' key. This has now been corrected.
- Searching for an entry in the phone book, when adding a name to a speed dial key was malfunctioning. This has now been corrected.
- Long pressing the power key 'Left soft key' during an active call would terminate the call and enter the Turn off menu. This has now been corrected.

Version PCS 07A - Q4, 2010

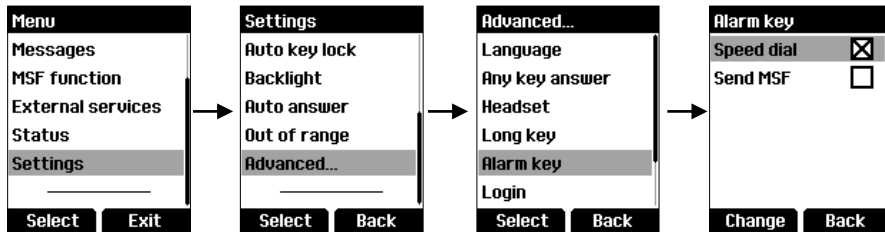
Added or Changed Features

- Portuguese language added.
- Added support for broadcast messaging. The messaging format now includes icons.
- During an active voice call, the alert tones of received messages are attenuated by 30dB.
- The speaker gain, when in loudspeaking mode, has been raised by 12dB.
- Ringer tone 2 has been replaced by a low-frequency higher volume "digital" ringer tone.
- Ringer tone 3 has been replaced by a high-frequency higher volume "digital" ringer tone.

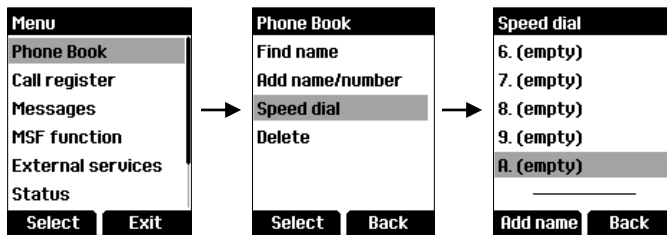
- The built-in wired headset amplifier⁴ can be configured using the handset menu, see screen dumps below. The selectable amplification range spans from -12dB to +18dB.



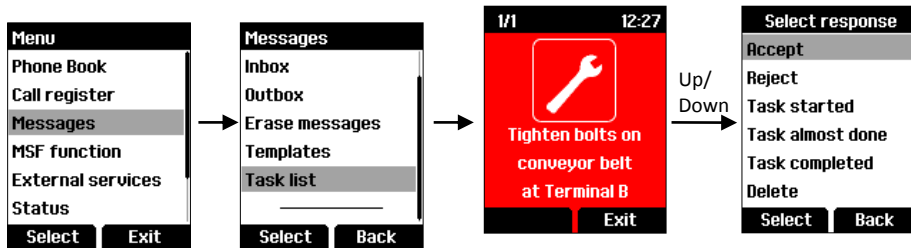
- An entry in the phone book can be assigned to a long key press on the alarm key. First the alarm key must be configured to use speed dial, see below.



Then speed dial entry "A" must be assigned by selecting Add name:



- A menu has been added to access the XML-RPC *endpoint_sms_advanced* Task list.



In this example, the Task list has been populated by a messaging application. Pushing up/down on the navigation key will enable the user to select a response. For easy access to the Task list, this entry has been added to the Shortcut list.

Removed Features

None

⁴ Supported in KIRK 60- Handset series only.

Corrections

- On KIRK 6040/7040 the Auto answer feature “When headset” did not detect presence of a wired headset. This has now been corrected.
- On KIRK 6040/7040 the Headset menu for configuring wired headset was missing. It has now been added.
- KIRK 6040/7040 would identify themselves as “Polycom 5040” to other Bluetooth devices. They now identify themselves correctly.
- In some menus, depending on the selected language, the trailing three dots would be shown as a question mark. This has now been corrected.
- Ringer tone 6 sounded slightly distorted. This has now been corrected.

Version PCS 06D - Q3, 2010

Added or Changed Features

- Added Intercom Call.⁵
- Added support for XML-RPC *endpoint_base_stations*.
- The audio processing in handsfree mode has been changed from half duplex to full duplex.⁵
- Acoustic echo cancellation has been implemented to reduce the ear to mic. overhearing, noticeable for the calling party in systems with long latencies (>10ms).

Note: The two features right above do not apply to handsets shipped before May 2010 as they have an older CPU revision. The CPU revision must be “C” or higher. See *99984* HOOK for current CPU Revision.

Removed Features

None

Corrections

- The Bluetooth error handling has been improved in cases where the headset loses its connection to the handset.
- The ringer tone accompanying a received message was played back using the Ringing Volume setting. This has now been changed so that it uses the Alerting Volume setting. See description of Alerting Volume setting in the User guide.

⁵ Not supported by KIRK 7010.

- If CWI was received during an active call, the audio was sometimes distorted. This has now been corrected.
- Using register recall during an active call sometimes caused a short glitch in the audio path. This has now been corrected.
- On rare occasions, the audio sometimes would be missing in both directions due to an internal bus lock-up. The only work around was to power cycle the handset. This has now been corrected.

Version PCS 05D - Q2, 2010

Added or Changed Features

- The handset will turn itself off after five minutes, if it has not been subscribed to a system. This feature is added to avoid battery discharge, if the handset is accidentally turned on during transportation.

Removed Features

Corrections

- To avoid unpredictable behavior of the handset, it will not turn on if battery level is low. The LED⁶ at top will light red while the power key is pressed.

⁶ Not supported by KIRK 7010