



*KIRK<sup>®</sup> Release Note*  
*KIRK<sup>®</sup> 5020*

**Firmware Version** PCS 08Fa  
Q2/2010



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## 1. Introduction

## 2. General

This release note applies to firmware PCS 08Fa of the KIRK 5020. This release is a main release that replaces the PCS 08Ea release as the latest generally available (GA) release.

## 3. Important Notes

Please note that this release note and its firmware upgrade only apply for the KIRK 5020. For the KIRK 5040, please see KIRK 5040 Release Note Q2/2010.

### 3.1 Updating the USB Driver

The Device Manager/USB Serial Port/Driver/Driver Version should be 2.6.0.0 or later.

Otherwise download and install the Vista and WHQL Certified USB “setup executable” from this location:

<http://www.ftdichip.com/Drivers/VCP.htm>

NB: Disconnect the USB connector before updating the driver.

### 3.2 Upgrading the Handset

Before upgrading, back up the phonebook and/or settings using the HMP



If you upgrade a handset prior to version PCS 08Aa, you must activate the default factory settings.

## 4. Distribution Files

Please click [here](#) >> to find firmware image of the KIRK 5020 platform.

## 5. Changes

### 5.1 Version PCS 08Fa – Q2, 2010

#### 5.1.1 Added or Changed Features

None

#### 5.1.2 Removed Features

None.

#### 5.1.3 Corrections

When using the handset to add new numbers to a phonebook entry, names and phone numbers could get mixed up. This has now been fixed.

## **5.2 Version PCS 08Ea - Q1, 2010**

### **5.2.1 Added or Changed Features**

None

### **5.2.2 Removed Features**

None.

### **5.2.3 Corrections**

- On a KWS8000, crossing signaling could occur if the handset was hooked off, just as the KW8000 sends an alerting. This caused the handset to keep ringing in off hook state. Hooking on and off resulted in distorted audio. This has now been fixed.
- Start date in *Menu/Settings/Advanced/Time & date*, has been changed to 1/1-2010.
- Added arrow in internal/external incoming call icons according to user guide.
- Answering a call in silent mode and pressing R-key and hooking on, would cause the audio of the next received call to fail. A dial tone would be heard instead of the calling party. This has now been fixed.
- The display driver has been optimized for speed. This change does not apply to handsets produced before 2008.

## **5.3 Version PCS 08Ca - Q4, 2009**

### **5.3.1 Added or Changed Features**

- Pressing the left navigation key in a call, will reject call waiting.<sup>1</sup>
- Made full implementation of these messaging features:
  - AsciiStrReq
  - MenuSelectSetupReq

### **5.3.2 Removed Features**

None.

### **5.3.3 Corrections**

- When hooking off, pressing Mute and calling an extension on a KWS300/6000, TX audio was not muted. This has been corrected.
- Receiving a call waiting indication from the system would mute both RX/TX audio as long as the call waiting tone was active. This has been corrected by mixing call waiting tone with the RX audio.

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<sup>1</sup> Must be supported by the infrastructure.

## **5.4 Version PCS 08Aa - Q3, 2009**

### **5.4.1 Added or Changed Features**

- HAC Compliance.
  - When HAC is enabled:
    - The three lower steps of the volume control are disabled.
    - More bass is added to the received audio.
  - KIRK 5020 handsets sold in the US has HAC enabled from the factory.
  - HAC can be disabled/enabled using the HMP.
- Acoustic Echo Cancellor.
  - The KIRK 5020 microphone can pick up audio from the earpiece. This echo can be heard by the calling party. It becomes more noticeable with higher volume and longer phone system latency.
  - The AEC is not enabled by default, but can be enabled using the HMP.
- The missed call(s) notification in the display can be disabled via the HMP. However, missed calls are still registered in the call register list.
- The maximum number of subscriptions has been raised from 10 to 15 systems.
- During an MSF text call, the up/down key on the 4-way navigation key can be sent to the messaging application.
- The internal organization of the phonebook has been optimized for speed and memory usage.

### **5.4.2 Removed Features**

If an MSF with timestamp was received, the handset time and date would be set. This feature has been removed, to avoid that a delayed message sets back the handset clock.

### **5.4.3 Corrections**

- Grammatical changes to Danish language.
- The service code \*99950\* that deletes all phonebook entries, messages, and subscriptions, now also clears the call register list. The default standby text is restored if changed by the system.

## **5.5 Version PCS 07Ha - Q2, 2009**

### **5.5.1 Added or Changed Features**

None.

### **5.5.2 Removed Features**

None.

### **5.5.3 Corrections**

- Excessive messaging could cause the handset to restart or turn off. Problem fixed by optimizing heap usage.
- Time when returning from out of range back into range, improved from 10 to 3 seconds.

## **5.6 Version PCS 07Aa - Q1, 2009**

### **5.6.1 Added or Changed Features**

- Added locally generated Call Progress Tones (CPT) for Australia and United Kingdom (relevant for the KWS300 and KWS6000 solutions). From the HMP the following country specific CPT can be selected:
  - Denmark
  - United States
  - United Kingdom
  - Australia
  - Germany
- When the keyboard is locked, a small lock icon is shown in the info bar at the top of the display instead of a big lock icon at the screen center.
- Via the HMP it is possible to personalize the standby logo of the handset.
- Ringer tone 5 has been replaced by the sound of an analog phone
- Ringer tone 6 has been replaced by ringer tone 6 from the KIRK 40xx (high volume with high frequency tones).

### **5.6.2 Removed Features**

None.

### **5.6.3 Corrections**

- Pressing the R-key when receiving a message during conversation would terminate the call. The message is now exited and the phone returns to the call display.
- Subscribed to a KWS600v3 system, the handset did not distinguish between internal and external incoming calls. This has now been corrected.
- Subscribed to a KWS300 or KWS6000 system, the volume of the dial tone could not be changed. This has now been corrected.
- Subscribed to a residential system, entering a number and pressing the R-key would make an internal handset to call. Now only a one digit number can be called. If entering more than one digit and pressing the R-key, the phone returns to idle.

## **5.7 Version PCS 06Ma - Q4, 2008**

### **5.7.1 Added or Changed Features**

If handset time and date is not set either manually or by the system, the time and date will not be visible in the info bar of the display, in the call history list or in the message inbox of the KIRK 5020.

### **5.7.2 Removed Features**

None.

### **5.7.3 Corrections**

- When accessing the phonebook off hook, dialing was malfunctioning in PCS 06Lb. This problem has now been resolved.
- Unnecessary mute period after off hook MSF alerting has now been removed.
- In rare occasions, the display skewed like the display of a television with poor signal. This problem has now been fixed.
- Start and stop of ringer and vibrator will now follow the ringer cadence of an analogue PBX.
- Automatic line breaks in long strings, received via MSF in e.g. CD access, have been improved.

## **5.8 Version PCS 06Lb - Q2, 2008**

### **5.8.1 Added or Changed Features**

- Finnish language added.
- A more accurate internal timer has been used to feed the “real time clock” with an accuracy of a few PPM. To improve clock accuracy, when the handset is out of radio coverage.
- The volume of alert tones caused by reception of Broadcast or MSF is attenuated to 9dB below lowest volume step if a voice call is active on the handset.

### **5.8.2 Removed Features**

Standby text received in SS\_FACILITY was stored in EEPROM. Now, only the display is updated, not the EEPROM.

### **5.8.3 Corrections**

- In the German language the soft key “Shortcut” is renamed from “Kurzwahl” to “Shortcut”.
- Menu/Settings/Advanced/Time & Date/Change date starts on 1/1/2008 instead of 1/1/2007.
- Reception of MWI did not update the display. Now the display lights up when the MWI is turned on/off.

- On some systems the CPN was not shown in the display when the call was transferred. It is now displayed on all systems.
- Headset alert settings did not work when called from “Shortcut” menu. Now, it works when called from the “Shortcut” menu.

## **5.9 Version PCS 06Fa - 2007**

KIRK 5020 release ultimo 2007.