



KIRK[®] Release Notes
KWS8000

Software version PCS04C_
Q3/2010

Table of Contents

1. INTRODUCTION.....	1
2. DISTRIBUTION FILES	1
3. CHANGES.....	1
3.1 VERSION PCS04C_ (Q3 /SEPTEMBER 2010).....	1
3.1.1 <i>Added or Changed Features</i>	1
3.1.2 <i>Known issues</i>	1
3.1.3 <i>Corrections and Improvements</i>	1
3.1.4 <i>Configuration File Parameter Changes</i>	1
3.2 VERSION PCS03N (Q3/2010).....	2
3.2.1 <i>Added or Changed Features</i>	2
3.2.2 <i>Removed Features</i>	2
3.2.3 <i>Corrections and Improvements</i>	2
3.2.4 <i>Configuration File Parameter Changes</i>	2
3.3 VERSION PCS03M_ (Q2/2010)	2
3.3.1 <i>Added or Changed Features</i>	2
3.3.2 <i>Removed Features</i>	2
3.3.3 <i>Corrections and Improvements</i>	2
3.3.4 <i>Configuration File Parameter Changes</i>	2
3.4 VERSION PCS03K_ (Q2/2010).....	3
3.4.1 <i>Added or Changed Features</i>	3
3.4.2 <i>Removed Features</i>	3
3.4.3 <i>Corrections and Improvements</i>	3
3.4.4 <i>Configuration File Parameter Changes</i>	3
3.5 VERSION PCS03G_ (FEBRUARY/2010)	3
3.5.1 <i>Added or Changed Features</i>	3
3.5.2 <i>Removed Features</i>	3
3.5.3 <i>Corrections and Improvements</i>	3
3.5.4 <i>Configuration File Parameter Changes</i>	4
3.6 VERSION PCS03E_ (DECEMBER/2009)	4
3.6.1 <i>Added or Changed Features</i>	4
3.6.2 <i>Removed Features</i>	4
3.6.3 <i>Corrections and Improvements</i>	4
3.6.4 <i>Configuration File Parameter Changes</i>	4
3.7 VERSION PCS03D_ (NOVEMBER/2009)	4
3.7.1 <i>Added or Changed Features</i>	4
3.7.2 <i>Removed Features</i>	4
3.7.3 <i>Corrections and Improvements</i>	5
3.7.4 <i>Configuration File Parameter Changes</i>	5
3.8 VERSION PCS02C_ (AUGUST/2009).....	5
3.8.1 <i>Added or Changed Features</i>	5
3.8.2 <i>Removed Features</i>	5
3.8.3 <i>Corrections and Improvements</i>	6
3.8.4 <i>Configuration File Parameter Changes</i>	6
3.9 VERSION PCS02_ (Q3/2009).....	6

- 3.9.1 *Added or Changed Features* 6
- 3.9.2 *Removed Features*..... 6
- 3.9.3 *Corrections and Improvements*..... 6
- 3.9.4 *Configuration File Parameter Changes* 7
- 3.10 *VERSION PCS01N_* 7
 - 3.10.1 *Added or Changed Features* 7
 - 3.10.2 *Removed Features*..... 7
 - 3.10.3 *Corrections and Improvements*..... 7
 - 3.10.4 *Configuration File Parameter Changes* 7
- 3.11 *VERSION PCS01M_*..... 7
 - 3.11.1 *Added or Changed Features* 7
 - 3.11.2 *Removed Features*..... 7
 - 3.11.3 *Corrections and Improvements*..... 7
 - 3.11.4 *Configuration File Parameter Changes* 7

1. Introduction

This release note applies to the released versions of the KWS8000 Firmware. This version specifically applies to version PCS04C_ of the firmware. This release replaces the PCS03N_ release as the latest generally available (GA) release.

2. Distribution Files

Click [here >>](#) to find the software image of the KWS8000.

3. Changes

3.1 Version PCS04C_ (Q3 /September 2010)

3.1.1 Added or Changed Features

- Support for MR32 interface card.
 - When an MR32 card is inserted in the KWS8000 backplane, the SW version in the MR32 card is verified by the KWS8000 server. If the SW version on the MR32 card is not matched by the KWS8000 server, the MR32 card will be down- or upgraded to the correct version.
 - MR32 and analogue interface cards can coexist in a KWS8000 system.
 - SIP stack is inherited from the KWS6000 project.
 - Note: Provisioning is not a part of SIP! – It is a configuration tool for KWS6000. KWS8000 still needs the OAM PC software for configuration.
 - XML-RPC is not a part of SIP, but a messaging protocol for KWS6000. KWS8000 still supports the EMD specification on both RS232 and LAN.

- Added possibility to block and unblock all calls.
- Added more information when receiving none supported FSK clip.
- Implemented setting of ringing mode for analogue calls (Exchange ringing or System ringing).

3.1.2 Known issues

- 1) MWI envelope will not be shown in handsets.

3.1.3 Corrections and Improvements

- 1) System, configuration and trace files (and of course the email report) have been improved/extended.
- 2) Error in handling old KWS1500/500 protocol format has been fixed. (Still only supporting basic MSF).

3.1.4 Configuration File Parameter Changes

None.

3.2 Version PCS03N (Q3/2010)

3.2.1 Added or Changed Features

- 1) Implemented exchange/system ringing for analogue trunks. (Until OAM support is possible, the function can be controlled in Command mode.) Exchange ringing is selected by default. When set to exchange ringing, the ringing of the handset follows the ringing cadence of the analogue line. When set to system ringing, the handset follows its own ringing pattern.
- 2) Every time a handset is subscribed or switched on (location registration), an EMD message is sent to the serial or IP interface.

3.2.2 Removed Features

None.

3.2.3 Corrections and Improvements

- 3) System, configuration and trace file (and of course the email report) have been improved/extended.
- 4) Handling of EMD events with wrong length has been improved. The EMD developer will now get more and better feedback.

3.2.4 Configuration File Parameter Changes

None.

3.3 Version PCS03M_ (Q2/2010)

3.3.1 Added or Changed Features

- 1) Driver support for BIF02 cards.
- 2) Support for depopulated backplane (KWS8000-light backplane).

3.3.2 Removed Features

None.

3.3.3 Corrections and Improvements

- 1) Increased stability for some EMD events.
- 2) Added content to log file generation from OAM program / email report.

3.3.4 Configuration File Parameter Changes

None.

3.4 Version PCS03K_ (Q2/2010)

3.4.1 Added or Changed Features

- 1) Added email report content.
- 2) From Command mode it is possible (via the T command) to see the last 3000 trace messages.

Implemented EMD access to the following features: (This will be available from OAM program in next version 0.1.0.5x)

- 3) Enable or disable “MSF between PP” functionality.
- 4) Change temporary standby text via MSF.
- 5) Alien DECT systems seen by RFP5. This is used to indicate how many other DECT systems (ARI code and RSSI) the RFP can see.
- 6) Get system report (like email report - or an extended version of “Save configuration statistics on PC”).
- 7) Get Cable Delay Values (CDV) statistics (every 64 sec. the CDV is read on every connected RFP). If too many different values are read, it can indicate (together with sync errors from the RFP) that the cable or connector needs some extra attention.
- 8) Added more debug info when receiving an “unsupported clip / message type”.
- 9) Supporting clip in POLYCOM 2010 DECT handset. When clip is received with only DN and no NAME, the content of DN is copy to NAME field.
- 10) Improved RFP interface robustness.
- 11) Removed not relevant functions from Trace mode.
- 12) New messaging and hardware extension facilities for use with 60- and 70-Handsets.

3.4.2 Removed Features

None.

3.4.3 Corrections and Improvements

Fixed bug introduced in PCS03G_ regarding mails in single shelf system.

3.4.4 Configuration File Parameter Changes

None.

3.5 Version PCS03G_ (February/2010)

3.5.1 Added or Changed Features

- 1) Can now read HW_PCS from RFP5. (Available from Command mode – until OAM SW supports the facility). Also available in email report.
- 2) Allows setup of different baud rates on the serial port (default is 115200 baud).

3.5.2 Removed Features

None.

3.5.3 Corrections and Improvements

- 1) Corrected error that caused Clip name not to be shown in PP, when clip info was sent during ringing.

- 2) Updated MAC capabilities to comply with WRFP SW PCS24_ requirements.

3.5.4 Configuration File Parameter Changes

None.

3.6 Version PCS03E_ (December/2009)

3.6.1 Added or Changed Features

Software support for the following items are only supported from CPU HW PCS05_ (CPU HW PCS05_ is not released yet).

- 1) The power LED morses the IP address. The morse cycle for the power LED is as follows:
 - 1) Steady green 30 seconds.
 - 2) Blinking blue 3 seconds (get ready sequence starts).
 - 3) Green blink represents digits (zero is a long blink). Red means dot between digits.
- 1) Reset of SIO password. To reset the SIO password, press the Reset button on the CPU card.
 - 1) Short press (2-5 seconds) power LED blinks red – reset system.
 - 2) Long press (5-9 seconds) power LED blinks blue – reset SIO password + reset of system.

Pressing longer than 9 seconds (or until power LED is steady green) will leave the system as it is. (No reset of the system.)

3.6.2 Removed Features

None.

3.6.3 Corrections and Improvements

- 1) Mail system not working correctly - could load system heavily and make system hang.

3.6.4 Configuration File Parameter Changes

None.

3.7 Version PCS03D_ (November/2009)

3.7.1 Added or Changed Features

- 1) New mail client.
- 2) Support for new Analogue card types with full wave detector and new AB08 cards.
- 3) Support for CPU cards with no link facilities.

3.7.2 Removed Features

None.

3.7.3 Corrections and Improvements

- 1) Cleanup of Command mode.
- 2) In a linked system, RFP sync and reset errors were stored in statistics only if the RFP card was in the first shelf.
- 3) Added receiver gain for clip module (FSK) and receiver gain for DTMF gain.
- 4) The RFP's could reset due to a few sync errors. The sensitivity has been decreased.
- 5) Improved handling of telnet EMD connection (requires KWS8000 OAM program - 0.1.0.44 or later).
- 6) Corrected error that could cause RFP to hang (power on, but not able to restart).
- 7) More engineering debugging.
- 8) Improved stability and performance.
- 9) Corrected error that caused system to reset. When an incoming call was made on an analogue line where no user was created, the system could either reset or go into a non-defined mode (and a number of undefined things could happen).
- 10) New engineering debug file(s) is attached to mail.
- 11) Corrected bug that caused only one ringing when handset was signed up as dect2dect user.
- 12) Changed format on LID in trace messages when using analogue lines.

3.7.4 Configuration File Parameter Changes

None.

3.8 Version PCS02C_ (August/2009)

3.8.1 Added or Changed Features

- 1) Support for AB08 cards.
- 2) Support for Clip - DTMF, FSK Bellcore 202 and FSK_V23
 - a) The clip type is set from Command mode. (When the next version of the OAM program is available it can be done from the Analogue settings tab.)

Go to Command mode, go to the Trace tab, and then click the Send button at the bottom of the screen (the Main menu appears.)

- b) Place the cursor in the Command field and type A to go to the Analogue menu (the Analogue menu appears). Make sure that internal clip is disabled by typing D in the Command field.
- c) Type :
 - S1 (to enable FSK Bellcore 202 clip)
 - S2 (to enable DTMF clip)
 - S3 (to enable FSK_V23 clip)

3.8.2 Removed Features

None.

3.8.3 Corrections and Improvements

- 1) Enhanced security. Possible to calculate new encryption key for every new call.
- 2) Error when disconnecting RFP during call.
- 3) Another manufacturer's GAP DECT handsets were not allowed to subscribe.
- 4) When no analogue or base station card was inserted in the system, the system configuration was not shown properly and valid.

3.8.4 Configuration File Parameter Changes

None.

3.9 Version PCS02_ (Q3/2009)

3.9.1 Added or Changed Features

- Encryption of voice in the air.

Not all RFP's support encryption. If a negative acknowledgement is received on an attempt to enable encryption, it is probably because some or all RFP's do not support encryption.

If a "none encryption supporting" RFP is added while encryption is enabled, the RFP is rebooted and a trace message can be viewed in the OAM program.

Encryption can be set to 3 levels.

- 1) Encryption turned off.
- 2) Encryption enabled – in case of encryption reject (PP or RFP can or will not cipher the call), the call will be allowed to continue.
- 3) Encryption enabled – in case of encryption reject (PP or RFP can or will not cipher the call), the call will be released.

Encryption is turned off by default. We recommend that you use RFP5 (SW part number: 14170201) SW PCS03C_ or newer.

- Authentication of incoming and outgoing calls.

In older SW versions authentication is only done when a PP is turned on (doing a location registration – and receiving standby text). With the current SW release, it is also possible to authenticate a PP when starting or receiving a call.

- Configuration of IP addresses gateway and netmask.

3.9.2 Removed Features

None.

3.9.3 Corrections and Improvements

- In analogue configurations, the PP's display is cleared before the calling party number is shown.

- In analogue configurations, the PP will - in case of a incoming call - follow the ring voltage on the analogue line more precisely than before.
- Automatic configuration of a modem is working again.
- When connecting via telnet, the service would some time hang.
- Faster generation of email reports.
- Setting the DTMF pulse, pause and level had no effect.
- The AB default command is now working as it should.

3.9.4 Configuration File Parameter Changes

None.

3.10 Version PCS01N_

3.10.1 Added or Changed Features

None.

3.10.2 Removed Features

None.

3.10.3 Corrections and Improvements

- 5) An error in analogue call handling sometimes caused a restart of the system.

3.10.4 Configuration File Parameter Changes

None.

3.11 Version PCS01M_

3.11.1 Added or Changed Features

None.

3.11.2 Removed Features

None.

3.11.3 Corrections and Improvements

- 1) Now supports pause digit in MSF (call back number).
- 2) Corrected error regarding manual restart of RFP's. When a single RFP was reset from OAM program, it did not come up again.
- 3) Automatic restart / reboot on SW crash. If the KWS8000 SW crashed, the system needed manual power cycle.

3.11.4 Configuration File Parameter Changes

None.