



POLYCOM®

KIRK Release Note

KIRK® IP Base Station

Firmware Version PCS05__
Q1/2010

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1. General

This release note applies to the released versions of the KIRK IP Base Station firmware. This version specifically applies to version PCS05__ of the KIRK IP Base Station. This release replaces the PCS04A_ release as the latest generally available (GA) release.

2. References

KIRK Release Note: KWS6000, Firmware Version PCS05__, Q1/2010.

2.1 Important Notes

None.

2.2 Feature License and Platform Limitations

None.

2.3 System Requirements

Hardware Platform:	Description
KIRK Base Station 12 HW PCS 10 or newer	KIRK IP Base Station

3. Terms and Definitions

WCAG Web Content Accessibility Guidelines. W3C Recommendation. These guidelines explain how to make Web content accessible to people with disabilities.

4. Distribution Files

Click [here >>](#) to find the firmware image PCS05__ of the KIRK IP Base Station.

5. Changes

5.1 Version PCS05__ Q1/2010

5.1.1 Added or Changed Features

- Introduced remote syslog (RFC5424) via UDP. The remote syslog allows using a PC to receive messages/logging from the device.
- Added packet capture.
- When exporting logs, the message log is stored in clear text. The message log can now be read with standard software.
- Improve log export speed.
- Create a KSF log on RFP crash.

5.1.2 Removed Features

- None

5.1.3 Corrections

- Fixed problem with device not falling back to static IP address when DHCP fails.
- Validate configuration keys when setting them. This avoids malforming the config.xml.
- Removed a few large buffers from the stack. These may have caused sporadic failures.
- Removed a lot of unnecessary writes to the flash. These induced unnecessary tear on the flash, especially during boot.
- Fixed bug that prevented enabling UPnP from the GUI.
- Fixed problem with UPnP UUID not being unique. If more devices on the network have the same UUID only one of them will be shown when UPnP devices are listed.

5.1.4 Configuration File Parameter Changes

config.xml	Added	config.log.syslog.host	Specifies the remote syslog server host address. Default: Empty
config.xml	Added	config.log.syslog.port	Used to specify the remote port of the syslog server. Values: The port number on a remote syslog server. Default: Empty which defaults to 514

5.2 Version PCS04A_ - October 20, 2009

5.2.1 Added or Changed Features

- None

5.2.2 Removed Features

- None

5.2.3 Corrections

- Removed potential RFP problem present in firmware PCS04___. This problem would result in the loss of all active calls on the base station and a subsequent restart of the RFP process.
- Corrected handling of voice connection creation and termination. Creation and deletion of a voice connection could cause voice problems in other connections on the same base station.

5.2.4 Configuration File Parameter Changes

- None

5.3 Version PCS04__ (Q4/2009)

5.3.1 Added or Changed Features

- Added UPnP for discovery of devices.
UPnP is an acronym for Universal Plug and Play. If for some reason the IP-address of the device is unknown (e.g. forgotten or DHCP-assigned), UPnP can be utilized to easily identify the IP-address of the device. If “My Network Places” in Windows is setup to show icons for networked UPnP devices, every KWS300/6000, Media-resource and Base station will be present in “My Network Places”.
- Added method for manipulating settings by requesting an URL.
 - http[s]://<host>/config/get?<key> –
http://192.168.0.1/config/get?sip.proxy.domain
 - http[s]://<host>/config/set?<key>=<value> –
http://192.168.0.1/config/set?sip.proxy.domain=example.com
- Improved jitter buffer.
The sound quality on IP-connections experiencing jitter issues is improved considerably.
- Added HTTP/1.1 persistent connections support to the built-in HTTP server. This is mainly done to increase performance on the XML-RPC interface when using HTTPS.
- Improved security measures. Formerly every time a dect device would enter the range of the system (making a location registration) the device was authenticated. Starting with this release additional authentication is performed every time a call is established. Furthermore it is now possible to enable dect encryption of voice sent over the air. In previous firmware revisions all dect communication in the air is scrambled, enabling encryption will additionally encrypt voice with an encryption key. A new key will be calculated for each new call.
IMPORTANT NOTICE!! If dect encryption is enabled it is NOT possible to use repeaters on the system.
IMPORTANT NOTICE!! If dect encryption is enabled it requires KWS6000 firmware version PCS04__ or higher.

5.3.2 Removed Features

- None

5.3.3 Corrections

- Drop RTP packages with unexpected payload without trying to play them.

5.3.4 Configuration File Parameter Changes

File	Action	Parameter	Description
config.xml	Added	upnp.enable	Specifies if UPnP support is enabled. If enabled the device will respond to UPnP broadcasts. Values: true/false Default: true

config.xml	Added	upnp.broadcast	Specifies if UPnP announcements are broadcasted. If enabled the device will periodically broadcast announcements. Values: true/false Default: false
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5.4 Version PCS02D_

This release is a generally available (GA) release.

5.4.1 Added or Changed Features

None

5.4.2 Removed Features

None.

5.4.3 Corrections

- BMC fix, allow dummy bearer setup in test mode (needed by production).
- Various bug fixes.

5.4.4 Configuration File Parameter Changes

None.

5.5 Version PCS02D_ (Q3/2009)

5.5.1 Added or Changed Features

None

5.5.2 Removed Features

None

5.5.3 Corrections

Various bug fixes

5.5.4 Configuration Parameter Changes

None

5.6 Version PCS02C_ (Q1/2009)

5.6.1 Added or Changed Features

- Improved handling of lost sync. Rewrote synchronization over the air. Implemented new algorithm for handling loss of synchronization to make it more resilient towards a hostile rf-environment e.g. over-deployment and reflections.
- Added debug handles for synchronization over the air.
- BMC Allow dummy bearer on neighbor slot.
- BMC Do not scan RSSI - only move dummy bearer based on timer.
- BMC Do not ask RFP IP process for dummy bearer.
- BMC Added BMC/radio configuration.

5.6.2 Removed Features

None

5.6.3 Corrections

- BMC EEPROM read bug fixed.
- BMC Remove bug stopping dummy bearer.
- BMC Do not print from interrupt.

5.6.4 Configuration File Parameter Changes

None.

5.7 Version PCS02A_ (Q4/2008)

5.7.1 Added or Changed Features

- Implemented support for DECT Frequency SWAP (license required, KWS6000 SW PCS 02A_ or later required).
- Implemented Type-of-Service/DiffServ handling. Replaced old Quality-of-Service approach with new Type-of-Service/DiffServ approach (KWS6000 SW PCS 02A_ or later required).
- Encrypt Admin GUI password

5.7.2 Removed Features

None

5.7.3 Corrections

None.

5.7.4 Configuration File Parameter Changes

None.

5.8 Version PCS02_

Initial KIRK IP Base Station release.

6. Outstanding Issues

The following issues will be fixed in a subsequent release

- None identified.