



POLYCOM®

*KIRK Release Note*

## KIRK IP Base Station

**Firmware Version PCS04A\_**  
October 20/2009

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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 PCS04A\_ of the KIRK IP Base Station. This release replaces the PCS04\_ release as the latest generally available (GA) release.

## 2. References

KIRK Release Note: KWS6000, Firmware Version PCS04B\_, Q4/2009.

### 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 PCS04A\_ of the KIRK IP Base Station.

## 5. Changes

### 5.1 Version PCS04A\_ - October 20, 2009

#### 5.1.1 Added or Changed Features

- None

#### 5.1.2 Removed Features

- None

#### 5.1.3 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.

### 5.1.4 Configuration File Parameter Changes

- None

## 5.2 Version PCS04\_\_ (Q4/2009)

### 5.2.1 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.

### 5.2.2 Removed Features

- None

### 5.2.3 Corrections

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

### 5.2.4 Configuration File Parameter Changes

File	Action	Parameter	Description
config.xml	Added	upnp.enable	Specifies if UPnP support is enabled. If

			<p>enabled the device will respond to UPnP broadcasts.</p> <p>Values: true/false</p> <p>Default: true</p>
config.xml	Added	upnp.broadcast	<p>Specifies if UPnP announcements are broadcasted. If enabled the device will periodically broadcast announcements.</p> <p>Values: true/false</p> <p>Default: false</p>

### **5.3 Version PCS02D\_**

This release is a generally available (GA) release.

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

None

#### **5.3.2 Removed Features**

None.

#### **5.3.3 Corrections**

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

#### **5.3.4 Configuration File Parameter Changes**

None.

### **5.4 Version PCS02D\_ (Q3/2009)**

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

None

#### **5.4.2 Removed Features**

None

#### **5.4.3 Corrections**

Various bug fixes

#### **5.4.4 Configuration Parameter Changes**

None

## **5.5 Version PCS02C\_ (Q1/2009)**

### **5.5.1 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.

### **5.5.2 Removed Features**

None

### **5.5.3 Corrections**

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

### **5.5.4 Configuration File Parameter Changes**

None.

## **5.6 Version PCS02A\_ (Q4/2008)**

### **5.6.1 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

### **5.6.2 Removed Features**

None

### **5.6.3 Corrections**

None.

### **5.6.4 Configuration File Parameter Changes**

None.

### **5.7 *Version PCS02\_***

Initial KIRK IP Base Station release.

## **6. Outstanding Issues**

The following issues will be fixed in a subsequent release

- None identified.