

Polycom® KIRK® Wireless Server 600v3 - Fact Sheet

KIRK Wireless Server 600v3 - Solution

Operation, Maintenance and Provisioning

- Single Web portal on KWS600v3 for administration and maintenance of the DECT infrastructure
- HTTP with digest authentication
- TFTP
- PPTP
- SNMP
- SOAP
- Provisioning possible both manual and by update server.
- Maintenance and supervision of all infrastructure components in the DECT solution of all KWS600v3 Base Stations.
- Provisioning, maintenance and supervision of all KIRK Handsets controlled by the solution
- Supervision of the signal strength of the radios including repeaters from every basestation.
- Full real time accumulating statistics: Calls In, Calls In Delivered, Calls Out, Handover, Handover Failed, Abnormal Call Release
- Ongoing real time Master calls supervision.
- Redundancy: between 2 ip-masters.
- Redundancy: SIP/H.323 between 2 gatekeepers.
- Redundancy: SKINNY between 3 gatekeepers (2*CCM + SRST).
- LDAP used for Database access.
- Load distribution of LDAP servers possible by means of a tree structure.
- Multi site and Cluster distribution (No central unit needed).

System Capacity

Max. number of KIRK Wireless Server 600v3 Single-cell	1
Max. number of KIRK Wireless Server 600v3 Multi-cell	256
Max. number of KIRK Repeaters on KIRK Wireless Server 600v3 Single-cell	6
Max. number of KIRK Repeaters per KIRK Wireless Server 600v3 per unit	1,2 or 3
Max. number of KIRK Repeaters in a whole system	256* **
Max. number of simultaneous calls (Single-cell)	12
Max. number of simultaneous calls (Multi-cell)	11
Max. number of registered KIRK Handsets (Single-cell)	35
Max. number of registered KIRK Handsets (Multi-cell)	1500**

* Minus number of KIRK Wireless Server primaries and secondary's

** For any KWS600v3 installation including more than 60 radio units and/or 600 registered wireless users, a project manager must be involved.

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Supported Codecs

- Integrated non blocking codec solution.
- Integrated multinational progress tones provision

Polycom Kirk Wireless Server 600v3

SIP/H323 Protocols

- G.711, G.723, G.726, G.729, G729A, G729B, G.729AB

Skinny Protocols

- G.711, G.729, G729A, G729B, G.729AB

KIRK Wireless Server 600v3 - Unit

Network and Provisioning

- 10/100Mbps Ethernet port
- Manual or dynamic host configuration protocol (DHCP) network setup
- Provisioning possible both manual and by update server.
- Time and date synchronisation using NTP for every KWS600v3
- Time and date synchronisation from KWS600v3 to Portable.
- Full real time accumulating statistics : Calls In, Calls Out, Handover, Handover Failed
- Ongoing real time Radio calls supervision.
- SYSLOG protocol for logging.
- Build in trace facilities.
- LED status indication for Power, Alarm, Ready, Network and Radio,
- Reset button available.

Radio Interface

- Full slot DECT RF part (12 channels)
- RF Output 20 to 24 dBm at antenna connection
- Sensitivity: typical -90 dBm measured at antenna connection at BER =0.001
- Typical range indoor: 20-50 m, outdoor 300 m.
- Centralised frequency swapping between:
 - ETSI DECT (1880-1900 Mhz)
 - DECT 6.0 North America (1920-1930 Mhz)
 - DECT South America (1910-1930 Mhz)

Electrical Requirements

- External power supply
- Power consumption less than 7W
- The supplied power for AC adaptor power supply must be 100 to 240 ac nominal, 50/60 Hz.
- Power over Ethernet (IEEE 802.3af)
- PoE Class 0 device

Approvals (Regulatory Standards)

- EN55022:2006,
- EN55024: 1998, A1:2002, A2:2003
- FCC RULES, CRF47, PART15, class B digital device

Safety (Regulatory Standards)

- UL60950-1 CAN/CSA-C22.2 No. 60950-1-03
- UL File No: E215601
- EN60950-1:2001

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Electro Magnetic Compatibility (EMC) Approvals (Regulatory Standards)

- EN 301 489-1:V1.4.1
- EN 301 489-6:V1.2.1
- FCC RULES, FCC PART15, SubpartD;RSS-213
- IC Rules RSS213 Issue 2, Dec 2005

DECT Approvals

- EN 301 406 V1.5.1

Environmental Conditions

- Relative humidity: between 20 % and 80 % (non-condensing)
- The equipment is in compliance with the requirements of EU directive 2002/95/EC (ROHS) and 2002/96/EC (WEEE)

Physical Characteristics

- Size (W x H x D): 164 x 164 x 54 mm
- Weight: 360 g.
- Grey-white (NCS 0502-Y)
- Wall-mountable, Indoor

Protocol Support

SIP Protocol Stack

The SIP protocol implementation is based on the rfc3261.

The stack can be used to implement SIP-Servers (Registrar and Proxy) and SIP-Clients (telephones).

Supported Messages

- Register
- Invite
- ACK
- Cancel
- Bye
- Refer
- Notify

Implemented Features

- Registration
Server side registration and client side registration according to rfc3261
- Authorisation
Digest authentication for registration and call setup according to rfc3261
- Call Setup
Dialog creation and termination according to rfc3261
- Session Setup
SDP Offer/Answer in INVITE/Resp or Resp/ACK according to rfc3264
- Call Hold and Retrieve
re-INVITE according to rfc3398
- Call Transfer
Implemented according to rfc3515
- Overlap Signalling
Overlapping INVITE transactions according to rfc3578

Polycom® SoundPoint® IP Phone Comparison

- SDP
Implemented according to rfc2327 and rfc3264
- DNS. SRV
Supported according to rfc3263
- DTMF
Using SIP INFO method and RTP payload according to rfc2833
- MWI
Subscription according to rfc3842

Skinny Client Control Protocol (SCCP)

Compatible with Cisco Unified Communications manager

Compatible with Cisco Unified Communications manager Express

H.323 protocol stack

Integration with Innovaphone gatekeepers.

PBX

- Build in Innovaphone PBX.

Alarm and Text Messaging (Message Service Function - MSF)

- System to Portable and Portable to Portable (Point to point).
- Broadcast to Groups (Point to Multipoint).
- Broadcast to all (Point to Multipoint). Build in Innovaphone PBX

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