

Avaya IP DECT (Digital Enhanced Cordless Technology)

The IP DECT (legacy) solution delivers the productivity-boosting benefits of IP and wireless communications across multiple offices in a convenient, lightweight handset. It provides businesses with a highly functional wireless solution with the ability to scale to support large numbers of users. This system also supports users in different offices connected via a WAN. The Avaya IP DECT solution radio fixed part (RFP) or base station connects to the IP Office using an IP protocol based on H.323.

The Avaya IP DECT solution supports up to 120 handsets and 32 base stations. Each base station can be powered over the LAN using the Power over Ethernet (PoE) standard. Each indoor base station can also optionally be connected to main power via an external power adaptor. Each outdoor base station can only be powered using PoE - no individual power supplies are available to power the outdoor IP DECT base station.

In North America, only the 3711 handset is supported

Note :

A GAP mode (General Access Protocol) compliant is another important tag to look out for. This is very important if you want to expand your phone system but can't find the same model as the original one you bought. As long as both your original DECT handset and the new one is tagged GAP compliant, they can work together.

Avaya IP DECT System licensing

A license is necessary for this functionality. This license is called the Avaya IP Office IP DECT Mobility Manager license. This license is entered through the main base station (ADMM) and is NOT entered through the IP Office System manager. A feature key server is NOT necessary to enable the IP DECT functionality.

No separate PC or software is required with this system.

In all regions, a "plug and play" licensing mechanism is available: It consists of a pre-licensed and ready to go two-base-station bundle ("IP DECT IPO STARTER KIT ") and two pre-licensed base stations ("IP DECT RFP32/34 UPG KIT") that can be added to the system independent of the number of licenses in ADMM. This allows easier deployment and upgrades of systems without the need to buy a separate upgrade-license.

For IP Office we recommend to use the "Starter Kits" and the "Upgrade Kits" for new installations for added flexibility and to minimize the installation effort. If the latest software is installed on the IP-DECT system, e.g. upgrade an existing 5-base-station system with an "Upgrade-Kit" when adding an extra base-station instead of upgrading the system-license to a 6+ license.

Additional upgrade licenses will continue to be available for systems that need to expand their current coverage or capacity.

IP DECT Capacities

Feature	IP DECT
Maximum handsets	120
Maximum base-stations	32
Total base-stations/repeaters	32
Maximum simultaneous calls	100*

*May be limited by the available VCM voice compression channels for calls to non-IP destinations.

IP Office DECT R4

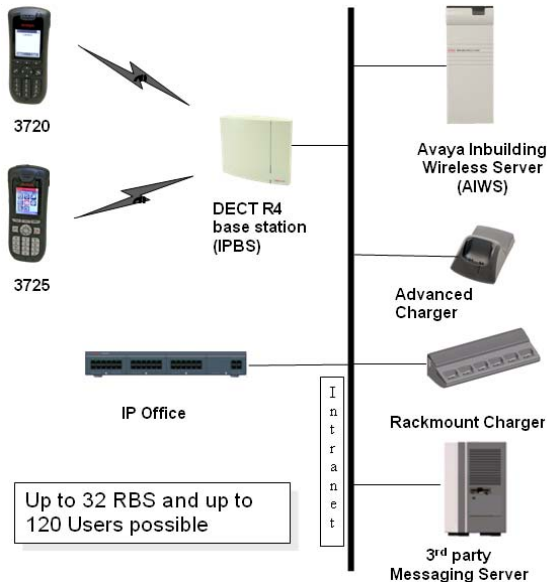
The Avaya DECT R4 solution radio fixed part or IP base station (IPBS) connects to the IP Office using an IP protocol based on H.323.

Avaya's DECT R4 solution features all advantages of a full blown DECT solution for the enterprise market: Cost effective high wireless voice quality in a frequency band exclusively reserved for DECT that is secure, easy to deploy and enhance.

Avaya DECT R4 is a DECT system where multiple base stations are connected using an IP LAN. For IP Office, DECT R4 is supported with IP Office Release 5.0+.

Support for the existing Avaya IP DECT system will be retained in Release 5. In addition, the existing 3711 IP Dect handset will be supported with the new DECT R4 system although with reduced functionality. Up to 120 DECT telephones are supported.

The major components of DECT R4 are similar to the existing IP DECT system, with the addition of an AIWS – Avaya In-Building Wireless Server. DECT R4 is supported by IP500, IP412 and IP406V2 with Release 5 core software



IP DECT Base Station (IPBS)

Up to 32 are supported. During installation one is configured as the master base station, to which the other base stations synchronize as slave base stations. Each base station can host up to 8 simultaneous phone conversations in its coverage area.

Each base station requires a LAN access point and is supplied with a 1.2 meter (4 foot) LAN cable. Each base station can be powered using IEEE 802.3af power over Ethernet (PoE 7W Class 2). Alternatively the base station also requires a main power supply outlet socket within 8 meters (26 feet) cable distance and power supply unit.

BS330

The BS330 has 2 integral internal aerials which cannot be adjusted. The aerials produce a slightly directional pattern of radio coverage.



DECT R4 In-building Wireless Server (AIWS)



The Avaya In-building Wireless Server enhances the functionality of the DECT R4 with additional functionality such as IP Office and LDAP directory access, centralized management and software update as well as handset to handset SMS plus basic web messaging.

Avaya In-Building Wireless Server (AIWS) is a server for handling wireless services and messaging. It runs on a solid state embedded Server (AIWS Hardware). It comes pre-installed, with the appropriate features activated on that server.

For installation and maintenance, this server is managed by a PC using Windows Internet Explore (6.0 or above) and Sun's Java Runtime Environment.

In Release 5.0 or higher the AIWS will be required for IP Office System Directory Integration. The AIWS will support the following features:

- IP Office directory access using TFTP
- Telephone management, software downloads via air. and menu programming
- Basic Messaging to DECT R4 handsets

DECT R4 Capacities

The Unified DECT solution will support, on one IP Office system, the following maximum capacities

- 1 x Master Base Station (IPBS)
- 31 x Slave Base Stations (IPBS)
- 120 Unified IP DECT Users
- 1 AIWS (Messaging & Administration Server)
- 8 concurrent calls to each base station
- Concurrent call limit: 120 or IP Office IP call limit dependant on VCM capacity for TDM connection.

Note:

North America Will not support DECT R4 on 406V2

DECT Telephones

3711 IP DECT

This telephone is fully supported on the Avaya IP DECT system. However, it can also be used on the Avaya DECT R4 system in 'GAP-mode' with functionality limited to standard calling functionality, DECT roaming and handover. The built in feature list will not work on DECT R4.



- Full hands free speakerphone operation.
- Headset connection (2.5 mm jack).
- Vibrating alarm.
- Personal phone book with 100 entries
- Access to system phone book.
- Voice Mail indication.
- Choice from 30 ring tones.
- Speaker and handset volume, 7-levels and mute capability.
- Automatic call pick-up using a headset.
- 10 menu languages: Danish, Dutch, English, Finnish, French, German, Italian, Portuguese, Spanish and Swedish.
- Illuminated 5-line graphic display, (96 x 60 pixels), variable 7-level con

3720 DECT

This telephone is fully supported on the Avaya DECT R4 system. However, it can also be used on an Avaya IP DECT system in "GAP-mode" with functionality limited to standard calling functionality, DECT roaming and handover. Access to IP Office central directory is not available in GAP-mode.



Standard DECT handset:

- Black and white display with Backlight and Icons
- Loudspeaker / hands free
- Graphical user interface
- Four way navigation key
- 6 built-in UI languages
- Standby 180 hours , Talk Time 16 hours (under optimal conditions)
- Manual and automatic keypad lock
- Local and central phone book
- Call list with the 25 last calls
- Vibrator
- Central Management and software download
- Headset socket

3725 DECT

This telephone is fully supported on the Avaya DECT R4 system
However, it can also be used on an Avaya IP DECT system in 'GAP-mode' with
functionality limited to standard calling functionality, DECT roaming and handover.
Access to IP Office central directory is not available in GAP-mode.



Standard DECT handset:

As per 3720 plus:

- Color Display with Backlight and Icons
- Message acknowledgement
- Message length up to 160 characters
- Storage capacity: 30 received/sent
- Color display
- Site Survey tool
- Cleanable, IP 44
- Option: Bluetooth
- 19 languages

Avaya 3720 and 3725 DECT Handsets Feature Overview

Telephone		3720 DECT Telephone	3725 DECT Telephone
Keys:	Keypad	yes	yes
	Hook on/off buttons	yes	yes
	Softkeys	3	3
	Navigation cluster	4-way	5-way
	Volume buttons		yes
	Mute button		yes
	Alarm button		yes
Display:	Display, illuminated	112 x 115 pixels, Black and white	128 x 160 pixels, 64K colors
	Battery indicator	yes	
	Signal strength indicator	yes	
	Time and date display	yes	
Audio:	Handsfree	yes, 2-way speakerphone	
	Headset interface 2.5 mm	yes	
	Bluetooth 2.0 Headset profile	no	yes
	Supported Ring tones	14	14
	Ring tone volume	8 levels	
	Vibration	yes	
	Ringing options	Ring, Vibration, visual	
	Usage profiles	supported	
	Keyes beep	yes, selectable	
	Volume control	8 levels	8 levels
Features	Message LED (Red-green)	yes	yes
	Call log (Local)	25 entries	25 entries
	Local Directory/Contacts	250	250
	Access to IP Office Directory	Possible ^[1]	Possible ^[1]
	Support of Text Messaging	no	Optional ^[1]
	Phone lock	pin protected	pin protected
	Keyes lock	yes	yes
	Programmable "in Call Feature" menu	10 functions	10 functions
	Programmable "Call Services" Menu	10 functions	10 functions
	GAP compliant	yes	yes
Hardware:	Battery	Lithium Polymer	Lithium-Ion
	Standby/Talk time - No Bluetooth	160/16 hours	120/20 hours
	Standby/Talk time - with Bluetooth	n.a.	120/13 hours
	Charge time	4 hours	4 hours
	Dust/Liquid Protection level		IP 44
	Ruggedness	IEC 68-2-32, procedure 1, dropped 12 times from 1 metre	
	Size	133 x 53 x 24	134 x 53 x 26 mm

