Avaya DECT R4

Offer Definition

Version 1.1

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Overview
Avaya DECT R4 is Avaya's Inbuilding Wireless Communication offer for customers in need of a voice-only wireless solution. It runs on all of Avaya's communication platforms (Communication Manager, IP Office, Integral Enterprise and Integral 5, no support for CM Branch Edition).

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.

The solution consists of

- Two wireless handsets (3720 and 3725)
- Two radio base stations (with internal and external antennas) with IP interface for usage with Communication Manager and IP Office
- Two radio base stations with ISDN interface (RM627 with internal and RM637 with external antennas) for usage with Integral Enterprise and Integral 5
- An appliance server (AIWS) for centralized functions like corporate directory and internal phonebook access, simple text messaging, integration of messaging and other external applications, centralized configuration and maintenance etc.

As the solution contains a handset with liquid protection and BlueTooth headset interface and an appliance server for attaching messaging applications it is especially well suited for verticals like healthcare and retail.

All handsets and radio base stations support the DECT frequency bands in EMEA, NAR and CALA with the same hardware and firmware.

GA of the solution for Communication Manager, Integral Enterprise and Integral 5 is in May 2009. GA for IP Office is in August 2009. GA for the new digital radio base stations is November 2009. Initial product introduction in EMEA only, other regions will follow later in 2009.

The new handsets can be used with existing ISDN infrastructure without restrictions. Using the new handsets with existing legacy IP DECT infrastructure is possible as well but has some restrictions (see below).
Solution Details

**IP DECT Solution**
- Avaya Media Server
- Avaya Media Gateway
- IP Office
- IP DECT RBS
- Advanced Charger
- Rackmount Charger
- Avaya Inbuilding Wireless Server (AIWS)

**ISDN DECT Solution**
- Integral Enterprise
- Integral 5
- 4 Wire UpN
- ISDN DECT RBS
- Advanced Charger
- Rackmount Charger
- Avaya Inbuilding Wireless Server (AIWS)
**Handsets**

Both handsets can be used for the IP DECT and the ISDN DECT solution as well without any firmware change. Adaptation to the different DECT frequency ranges (EMEA, NAR, CALA) via configuration parameters.

**3720**

The 3720 is a cost effective handset for office environments. Its features are:

- Black and white display
- Half duplex speaker phone
- Graphical user interface
- Four way navigation key
- 2.5 mm standard headset connector
- 5 built-in UI languages (German, English, French, Spanish, Russian), other UI languages can be downloaded on demand
- Talk time 16 hours under optimal conditions
- Standby time 180 hours under optimal conditions
- Charge time below 4 hours

**3725**

The 3725 is a high end phone for office environments and light industrial environments like healthcare and retail. Its features are
β Color display
β Half duplex speaker phone
β Graphical user interface
β Five way navigation key
β Bluetooth headset interface (Bluetooth 2.0, handsfree profile)
β Liquid and dust protected (IP 44)
β Easy exchange of battery pack
β Multi-functional button (alarm call, answer call, etc.)
β Text message support (requires AIWS server, 30 messages sent/received storable, message length 160 characters)
β 2.5 mm standard headset connector
β 19 built-in UI languages (Czech, Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, Swedish, Polish, Greek, Hungarian, Braslian Portuguese, Slovakian, Turkish, Russian)
β Talk time under optimal conditions
  o 13 hours with Bluetooth headset in use
  o 20 hours without Bluetooth headset in use
β Standby time 120 hours under optimal conditions

**Chargers**

All chargers except the multiple battery charger can be used with 3720 and 3725 phones.

**Basic Charger**

![Basic Charger]

Charger to charge one 3720 or 3725 phone.

**Advanced Charger**

![Advanced Charger]

Charger to charge one 3720 or 3725 phone. Comes with USB and Ethernet connectors for phone configuration and firmware update via WinPDM application or AIWS server web interface. Can also be used for “Easy Replacement” (copying the settings from an old, damaged but still working phone to a new phone for non-administrators)
**Rackmount Charger**

Same functionality as advanced chargers but for up to six 3720 or 3725 handsets in parallel.

**Multiple Battery Charger**

Charger to charge up to six 3725 battery packs in parallel. Battery packs have to be taken out of the 3725 handset before charging.

**Handset Accessories**

The following accessories are available for the 362x handsets:

- Swivel belt clip
- Leather case (separate versions for 3720 and 3725)

Every handset comes together with a battery pack and a basic belt clip. Additional basic belt clips and plugs for the wired headset connector are available as spare parts.

A recommendation for a wired headset will be published soon.

For usage with the 3725 the following BlueTooth headsets are recommended:

- SonyEricsson HBH-PV702
- SonyEricsson HBH-GV435
- SonyEricsson HBH-IV835
- Plantronics Discovery665
- Jabra BT125
- Jabra BT8010
- Motorola H350
- Motorola H670
- Nokia BH-201
- Nokia BH-600
- Samsung WEP410
Radio Base Stations (RBS)
The Radio Base Stations of the DECT R4 System are available with IP (Ethernet) for Communication Manager and IP Office and ISDN (4-wire cable) interface for Integral Enterprise and Integral 5.

All Radio Base Stations support encryption of the communication between handset and base station and authentication of the handset against the base station.

IP DECT Radio Base Stations

The IP DECT Radio Base Stations can be used with Communication Manager and IP Office only. It connects directly to a LAN switch using Ethernet cabling. The IP DECT Radio Base Stations can either be powered by Power-over-Ethernet or by using external power supplies that are available as accessories.

Each IP DECT Radio Base Station can handle up to eight concurrent calls. A special protocol for mobility control ensures that active calls are seamlessly handed over from one IP DECT Radio Base Station to the next one if a user with an active call roams through a building.

Wireless networks of up to 1000 IP DECT Radio Base stations with up to 2000 DECT handsets are possible with Communication Manager. Up to 32 Radio Base Stations with up to 120 handset are possible with IP Office.

To make sure that the mobility control protocol works and that the whole building is covered by the ranges of the IP DECT Radio Base Stations a so called site survey is needed to determine the number and placement of the IP DECT Radio Base stations within the building. Avaya offers these site surveys as a service offer by AGS as well as measurement kits for business partners who want to do these site surveys on their own.

The mobility control as well as the access to the AIWS services is done by a special software task (master base station) that can be activated in parallel to the standard IP DECT Radio Base Station software task on the same hardware. It is possible to let
several master base stations run in parallel for redundancy, load balancing and multi-site support.

There are two different versions of the IP DECT Radio Base Stations, one with internal antennas and one with external antennas. The one with external antennas has two dipole antennas included and is for usage outside North America only as external antennas are not approved for usage in the US and Canada. Other antennas replacing the standard dipole antennas are available as accessories as well.

**ISDN DECT Radio Base Station (RM627 & RM637)**

The ISDN DECT Radio Base Stations can be used with Integral Enterprise and Integral 5 only. They connect directly to the DECT interface cards of these PBXes using UpN cabling and are normally powered that way as well. External power supplies are available as accessories.

The functionality of the ISDN DECT Radio Base Station is comparable with the IP DECT Radio Base Station except for the following points:

- Mobility control for seamless handover via the UpN cabling
- No support for SMS and AIWS phone book
- No software update and centralized management Over-The-Air, but via advanced and rackmount charger possible
- Only access to Integral Enterprise, Integral 5 phone book, no LDAP access

**External Antennas**

For the IP DECT and ISDN DECT Radio Base Station with external antennas in addition to the standard dipole antennas that come with the Radio Base Stations several different antennas are available as accessories:

![Directional Dual Antenna (8 dBi gain)](image)

The ‘directional dual antenna’ consists of two flat directional antennas housed in a plastic shroud. It is fitted with 1 meter of coaxial cable and a MCX male connector. The antenna includes a side tilt and a wall bracket by which it can be adjusted in a
horizontal plane. The antenna can be mounted to a pole of 40 to 90 mm in diameter by means of a steel strap (included).

The ‘directional single antenna’ is a flat directional antenna housed in a plastic shroud and fitted with 1 meter of coaxial cable and a MCX male connector. The antenna includes a rotating bracket for wall installation. It can be adjusted in both a vertical and a horizontal plane. The mounting bracket allows installation by strapping around a pole with a diameter of 30 to 60mm. A steel strap (10-15 mm) is not included.

The ‘omnidirectional single antenna’ is an omnidirectional 6 dBi colinear antenna fitted with a 1 meter coaxial cable and a MCX male connector. It is supplied with a wall bracket and a pole mounting clamp. With this pole mounting clamp the antenna can be mounted to a pole with diameter of 25 to 37 mm.
The Avaya Inbuilding Wireless Server (AIWS) is a Linux based appliance server that adds additional value to the DECT R4 solution. It is an optional component and neither mandatory for the installation nor for the operation of a DECT R4 system. The additional functions provided by the AIWS server are as follows:

- Centralized software upgrade Over-The-Air (IP-DECT only) or via Intranet using the advanced or rackmount charger
- Centralized remote handset configuration Over-The-Air (IP-DECT only) or via Intranet using the advanced or rackmount charger
- Text messaging server (only usable with 3725 phone)
  - Text messaging from handset to handset
  - Text messaging from web interface to handset
  - Netpage Webmessaging (Message reception confirmation, forwarding of unconfirmed messages, etc.) from web interface to handset
- External phonebook access via LDAP and IP Office (TFTP)
- Internal phonebook (500 entries via Web interface, 2000 entries via Excel import)
- OAP – Protocol for integrating application server like e.g. GlobeStar or Emergin
- Virtual SIM card (allows backup/restore of individual handset configuration)

The AIWS servers are sold as complete hardware/software bundles with a preinstalled fixed set of licenses for the different features. It is not possible to add new features to a server later on. Instead several servers can be run in parallel.

The following list shows the different bundles with their available feature sets:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Basic</th>
<th>Standard</th>
<th>OAP</th>
<th>Enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTP Server</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Access To Central Phonebook</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Access To Corporate Directories (via LDAP for CM, via TFTP for IPO)</td>
<td>X (only IPO)</td>
<td>X (IPO &amp; LDAP)</td>
<td>X (only LDAP)</td>
<td></td>
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<tr>
<td>SMS Handset to Handset</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Basic Web Messaging</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Netpage Web Messaging</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Software Download Over-The-Air</td>
<td>X (&lt;120 handsets)</td>
<td></td>
<td>X (&lt;1000 handsets)</td>
<td></td>
</tr>
<tr>
<td>Software Download Via Advanced/Rack Charger</td>
<td>X (&lt;120 handsets)</td>
<td></td>
<td>X (&lt;1000 handsets)</td>
<td></td>
</tr>
<tr>
<td>Centralized Handset Configuration Over-The-Air</td>
<td>X (&lt;120 handsets)</td>
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<tr>
<td>Centralized Handset Configuration Via Advanced/Rack Charger</td>
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<tr>
<td>Virtual SIM Card</td>
<td>X (&lt;120 handsets)</td>
<td></td>
<td>X (&lt;1000 handsets)</td>
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<tr>
<td>AIWS as Application Integration Middleware</td>
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<td>X</td>
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</table>

Please note that it is also possible to centrally manage the firmware of the advanced and rackmount chargers. Each such charger consumes one handset license.

With the initial release of the AIWS server it is not possible to run the centralized management functions on two servers in parallel, thus an installation with 200 managed handsets will require the enterprise version of the AIWS. An extended version allowing to manually distribute the managed handsets between two AIWS servers will be available from Fall 2009 on.

The full feature set of the AIWS servers is only available with IP DECT. Nevertheless certain features are available for ISDN DECT as well. These are
Centralized software via Intranet using the advanced or rackmount charger (but not Over-The-Air)
Centralized remote handset configuration using the advanced or rackmount charger (but not Over-The-Air)
Virtual SIM Card using the advanced or rackmount charger (but not Over-The-Air)

**Compatibility With Legacy IP DECT System**

As the IP DECT Radio Base Station of the DECT R4 system uses a different protocol for on-air synchronization than the RFP32/RFP34 Radio Base Station of the legacy IP DECT system for CM and IP Office, no compatibility between these two types of Radio Base Station is given.

Running two independent DECT systems one being the new DECT R4 system and one being the legacy IP DECT system in parallel attached to one CM or IP Office is of course possible. In this case it is extremely important that the air coverage of these two systems do not overlap as otherwise roaming from one system to the other one will not work properly. For example setting running the legacy IP DECT system in the headquarter of a company and running the new DECT R4 system in a new building in another town is possible, running the legacy IP DECT system in one floor of a building and running the DECT R4 system on the floor above does not work.

The new DECT R4 handsets will work with the legacy IP DECT system. Nevertheless not all features available with the 3701 and 3711 handsets will be available on the DECT R4 handsets as well. An (incomplete) list of working features is:

- Subscription with PARK
- Basic Call
- Display Messages (with some limitations, e.g. truncation at end of line)
- Handover
- Roaming
- R-Key Handling (Enquiry call, Conference, ...)
- Feature Access Codes
- Distinguish between internal/external calls
- DTMF during call
- local call log (calling party numbers are transmitted)
- local time and date

Features already known to be not working with DECT R4 handsets and the legacy IP DECT system are

- Access of external directory (e.g. LDAP)
- Get time and date from the system
- WML (WAP access)
- SMS/Messaging (not a feature of the legacy IP DECT system)

Generally it is highly recommended to do a sample installation with one handset first before rolling out a larger set of DECT R4 handsets on a legacy IP DECT system.
Compatibility With Legacy ISDN System
The handsets and ISDN Radio base stations are fully compatible with the legacy ISDN DECT system. Mixed usage of legacy and new components in one system is possible.

Messaging via MACS server supported.

No support for the DECT2 board of the Integral 33 systems.

Services Offers For DECT R4

Warranty
Avaya Inc. provides a one-year limited warranty on the IP DECT hardware. Refer to the sales agreement or other applicable documentation to establish the terms of the limited warranty. In addition, Avaya’s standard warranty language as well as details regarding support, while under warranty, is available through the web site: http://support.avaya.com/ or on the Enterprise Portal at https://enterpriseportal.avaya.com/ptlWeb/getfile?docID=MzkyNzg3MQ==. Region specific terms and conditions are determined locally are available to customers through respective account teams or in their Avaya agreement.

Services Support

- Avaya provides two levels of Maintenance services in support of the Customer’s IP Dect Hardware:
- Parts Plus Remote 24X7 and 8X5, which provides the customer with 24X7 or 8X5 (offer dependent) Remote Telephone Support and replacement parts by next business day. Parts Plus Remote services are provided on the handsets [*]. Radio base units, and servers.
- Full Coverage 24X7 and 8X5. Full Coverage 24X7 and 8X5 provide the same support as Parts Plus Remote, and also includes the dispatch of an on-site technician as required. Full Coverage support is only provided on the Radio Base Unit and Server, and is not provided on the handsets.

When the customer purchases maintenance services on the IP Dect hardware, all coverage and billing begins Day One.

If during or post hardware warranty period customer chooses not to subscribe to Avaya maintenance, service is performed on a time and materials basis. All the terms and conditions are determined locally are available to customers through respective account teams.

Actual terms/Conditions and details are established per region. Please contact the appropriate regional manager for in country support capabilities.

Note:
In EMEAx“Germany”, Avaya will not provide maintenance on any type of Viking Handsets and accessories (Direct and Indirect). Handsets and accessories are considered as consumable items and are only eligible for warranty repair.

Maintenance offers for Germany are available by e-Offer within SAP-Atlas on a per product basis. Depending on the customer needs several types of offers including maintenance are possible (Maintenance only, Rental, Managed Services). Also, several levels of support (SLA) with or without on-site service are possible. Standard EMEA offers are applicable for indirect customers.

Avaya Global Services’ Remote Support Options for Authorized Business Partners

To better support our Business Partners (BP) in remaining responsive to their end user customers, Avaya offers three levels of maintenance offers for our Authorized Business Partners:

1. Avaya Global Maintenance Support for the Hardware: Each level of maintenance service is available in both the retail (commission-based) or wholesale model.
2. Partner Support Services (PSS) Offer: The PSS offer enables a Business Partner to bundle Avaya’s expertise with the individual Business Partners capability. There are specific requirements for BP access to this offer. The PSS offer provides the same same level of maintenance services available in retail and wholesale, (Parts Plus Remote 24X7 and 8X5, and Onsite 24X7 and 8x5).
3. Per Incident, or Time and Material billing: normally used to resolve a particular situation. Customers not covered under Hardware maintenance are eligible for T&M only if they are covered under one of the Software Support options.

Implementation and Professional Services

To effectively support our Business Partners and our sales associates as they sell wireless enabled solutions and services, Avaya Global Services requires that any wireless enabled solution sold to customers have a wireless network assessment performed for any services support. This will also be a pre-condition for customers buying an Avaya maintenance support agreement on a wireless enabled solution.

Subject to regional offer availability, a wireless network assessment (or site survey) can be purchased through Avaya, or it can be provided by a business partner. If an assessment had recently been performed, then an exception form can be signed and used as a waiver.

A Wireless network readiness assessment is designed to provide an evaluation of the customer’s current network environment. This assessment focuses on the customer’s available resources and identifies if additional resources are required to support the proposed wireless handset solution.

The wireless assessment must be performed and completed in advance of the implementation of Avaya IP products.
Additional information on Wireless Network Readiness Assessments provided by Avaya can be found at the following:
http://aok.avaya.com/avayaworkplace/getContent?vslid=%7B6674377B-5F76-42CC-A315-A6340AA353AE%7D&objectStoreName=AOK&objectType=document

<table>
<thead>
<tr>
<th>Implementation and Professional Services support per region</th>
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<tbody>
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<td><strong>Germany</strong></td>
<td><strong>Status</strong></td>
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<td>Generally Available</td>
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<tr>
<td>ð Services are available through standard process</td>
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<tr>
<td><strong>EMEA ex Germany</strong></td>
<td><strong>Status</strong></td>
</tr>
<tr>
<td>ð Models 3701, 3711, 3720, and 3725.</td>
<td>Available through Custom Bid</td>
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<tr>
<td>ð Services are available through custom bid only.</td>
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<tr>
<td><strong>NAR</strong></td>
<td><strong>Status</strong></td>
</tr>
<tr>
<td>ð Model 3711</td>
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<tr>
<td>ð Services would be available through standard process</td>
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</tr>
<tr>
<td><strong>APAC &amp; CALA</strong></td>
<td><strong>Status</strong></td>
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<tr>
<td>ð Indirect only</td>
<td>APAC- Q4, 2009 CALA- Q1, 2010</td>
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</table>

**Resources**

Copies of the data gathering form and offer sheets are available on the links below:

**Avaya Sales Teams (Direct):**

1. Campus Nomad portal webpage:
2. IP DECT portal webpage:
   https://enterpriseportal.avaya.com/ptlWeb/gs/products/P0474/JobAidsTools
3. IP Wireless Telephone Solutions portal webpage:
   https://enterpriseportal.avaya.com/ptlWeb/gs/products/P0258/JobAidsTools

**Channel Partners:**

1. Campus Nomad portal webpage:
2. IP DECT portal webpage:
   https://enterpriseportal.avaya.com/ptlWeb/bp/products/P0474/JobAidsTools
3. IP Wireless Telephone Solutions portal webpage:
   https://enterpriseportal.avaya.com/ptlWeb/bp/products/P0258/JobAidsTools

**Technical Data**

**Handsets**

| Physical | Dimension (l × w × d) | 3720: 133 × 53 × 24 mm  
|          | 3725: 134 × 53 × 26 mm |
|          | Weight including battery and basic clip | 3720: 115 g  
|          | 3725: 130 g |
| **Material** | Case: PC-ABS  
3720 Key pad: Silicone  
3725 Key pad: PC  
3720 Basic Clip: PC  
3725 Basic Clip: PPA |
| **Colour** | Grey |
| **Display (w × h), type** | 3720: 28 x 35 mm, FSTN B/W  
3725: 28 x 35 mm, CSTN |
| **Clip** | Basic (hinge type) or swivel type |
| **Battery and charging** | Type 3720: 600 mAh (Li-ion)  
3725: 870 mAh (Li-Polymer) |
| **Speech time during optimal condition** | 3720: 16 h  
3725 w/o BlueTooth: 20 h  
3725 w. BlueTooth: 13 h |
| **Stand-by time during optimal condition** | 3720: 180 h  
3725: 120h |
| **Charge time** | < 4 h |
| **Discharge/charge cycles** | 3720: >=65% capacity left after 500 full charge/discharge cycles.  
3725: >=80% capacity left after 400 full charge/discharge cycles |
| **Connectors** | Multi-purpose connector  
For battery charging, software download, and configuration |
| **Headset connector** | Standard 2.5 mm |
| **User interface** | **Display**  
3720: 112 x 115 pixel with white LED back-light  
3725: 128 x 160 pixel 64k colour LCD with white LED back-light |
| **Telephony Indication** | 14 ring signals (IP DECT only, ISDN ring signals are controlled by switch), flashing LED and vibrator. |
| **Keypad** | - Soft keys (3)  
- Hook off  
- On hook and Power On/Off on the same key  
- 3720: Four way navigation key  
- 3725: Five way navigation key  
- Numerical keys  
- 3725: Volume up/down  
- 3725: Multifunction button  
- 3725: Mute / Ringer Off |
| **Audio** | **Ring signal**  
Adjustable in 8 step |
| **Earpiece** | Adjustable in 8 steps of 3dB each |
| **Maximum sound pressure level** | 88 dBA @ 10 cm |
| **Loudspeaker** | Half duplex loud speaking function |
| **Settings** | **Languages**  
3720: 5 (English, French, German, Russian, Spanish) and 14 |
| **Local Phonebook** | **Storage of contacts** | - 250 contacts  
- 48 character name  
- 24 digit work number  
- 24 digit mobile phone number  
- 24 digit other numbers  
- 3725: Selectable ring tone |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Radio</strong></td>
<td><strong>Automatic DECT protocol detection</strong></td>
<td>Automatic detection and configuration for US DECT and EU DECT at first registration (IP DECT only)</td>
</tr>
</tbody>
</table>
|                     | **Frequency range**    | • EU: 1880-1900 MHz  
• US: 1920-1930 MHz  
• LA: 1910-1930 MHz  
• BR: 1910-1920 MHz |
| **Messaging via AIWS (IP DECT only)** | **Maximum message length** | 160 characters |
|                     | **Storage capacity**   | 30 received/sent messages |
| **Environmental**   | **Operating temperature** | 0°C to +40°C |
|                     | **Storage temperature** | -20°C to +60°C |
|                     | **Enclosure protection** | 3720: IP40,  
3725: IP44 |
|                     | **Immunity to electromagnetic fields** | 3 V/m EN61000-4-3 |
|                     | **Immunity to ESD**    | 4 kV contact discharge and 8 kV air discharge (EN61000-4-2) |
|                     | **Free fall test, standard product** | IEC 60068-2-32, procedure 1, dropped 12 times from 1 metre. |

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**Radio Base Stations**

| **Voice over IP (IP DECT only)** | **Voice encoding** | G.711 A-law / μ-law (64kbps)  
G.723.1 (5.3 kbps)  
G.729A and AB (16 kbps)  
G.726 (32 kbps) |
|----------------------------------|-------------------|-------------------------------------------------------------------|
| **Radio**                        | **RF output power (e.r.p.), EU** | Between 23 dBm and 28 dBm (with internal antenna),  
Between 20 dBm and 25 dBm (with external antenna) |
<p>|                                  | <strong>RF output power (e.r.p.), US</strong> | Between 17 dBm and 21.6 dBm (with internal antenna) |</p>
<table>
<thead>
<tr>
<th>Environmental</th>
<th>Operating temperature</th>
<th>-10°C to +55°C</th>
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<tbody>
<tr>
<td></td>
<td>Storage temperature</td>
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<td>Relative operating humidity</td>
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<td>Relative storage humidity</td>
<td>5 to 95%, non condensing</td>
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<td>Immunity to electromagnetic fields</td>
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<td>Immunity to ESD</td>
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<td>US and Canada (IP DECT only)</td>
<td>Safety: CSA/UL 60950-1</td>
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<td>EMC/Radio: FCC part 15 (Class B) and RSS-213</td>
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<td>Product marking: FCC ID: BXZIPBS1, IC:3724B-IPBS1</td>
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<tr>
<td></td>
<td>Australia (IP DECT only)</td>
<td>Radio: ACA TS028</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Safety: IEC 60950 3Ed</td>
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<tr>
<td></td>
<td></td>
<td>Product marking: A-Tick</td>
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</tbody>
</table>

**Avaya Inbuilding Wireless Server**

<table>
<thead>
<tr>
<th>Physical</th>
<th>Dimensions (l × w × d)</th>
<th>275 × 130 × 60 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Weight</td>
<td>550 g</td>
</tr>
<tr>
<td></td>
<td>Material</td>
<td>PC/ABS</td>
</tr>
<tr>
<td></td>
<td>Colour</td>
<td>Light grey</td>
</tr>
<tr>
<td>Environmental</td>
<td>Operating temperature:</td>
<td>0°C to +40°C</td>
</tr>
<tr>
<td></td>
<td>Storage temperature:</td>
<td>-20°C to +70°C</td>
</tr>
<tr>
<td></td>
<td>Relative humidity:</td>
<td>30-85% (non condensing)</td>
</tr>
<tr>
<td></td>
<td>Enclosure protection:</td>
<td>IP30, IEC EN60529</td>
</tr>
<tr>
<td><strong>Immunity to electromagnetic fields:</strong></td>
<td>3V/m EN55024</td>
<td></td>
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<tr>
<td>---------------------------------------</td>
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<td></td>
</tr>
<tr>
<td><strong>Immunity to ESD:</strong></td>
<td>4 kV contact discharge and 8kV air discharge (EN61000-4-2)</td>
<td></td>
</tr>
<tr>
<td><strong>Input / Output</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serial ports</td>
<td>3 x RS232 (Modular jacks, RJ45)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 x RS485 (Screw terminals or Modular jacks, RJ45) Mostly used for System 900 A-bus</td>
<td></td>
</tr>
<tr>
<td>LAN</td>
<td>10baseT or 100baseT Ethernet (Modular jack, RJ45)</td>
<td></td>
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<tr>
<td>Error relay output</td>
<td>Configurable – make/break operation. Mostly used for fault actions and error indications</td>
<td></td>
</tr>
<tr>
<td>AUX outputs</td>
<td>2 x galvanic isolated open collector outputs</td>
<td></td>
</tr>
<tr>
<td>AUX inputs</td>
<td>2 x digital inputs</td>
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<tr>
<td><strong>Regulations Compliances</strong></td>
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<td></td>
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<tr>
<td>Europe</td>
<td>EU directives: 2004/108/EC (EMC)</td>
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<td>Product marking: CE</td>
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<td>Safety: EN60950-1</td>
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<td>EMC: EN 55022 (Class A) and EN 55024</td>
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<tr>
<td>USA and Canada</td>
<td>Product marking: CSA</td>
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<td>Safety: CSA/UL 60950-1</td>
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<tr>
<td>Australia</td>
<td>Product marking: A-Tick, C-Tick</td>
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<td>Safety: IEC 60950-1</td>
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<tr>
<td></td>
<td>EMC:1 EN 55022 and EN 55024</td>
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