DECT over SIP

Cordless voice communication over IP networks using SIP

The convergence of voice and data over a common infrastructure and network have revolutionized the PBX-market. Transmission of voice is now dominated by the Internet Protocol (IP).

The solution adds the comfort of mobility to VoIP networks, based on two technologies:

- Voice over IP (VoIP) – Voice is conveyed via an IP data network to an IP radio fixed part.
- DECT (Digital Enhanced Cordless Telecommunications) - Tried and tested technology for conveying voice securely via the air from the IP radio fixed part to the handset

A multi-cellular DECT radio network can be installed anywhere in a company where IP data lines exist. This includes in remote company sites linked together through a VPN connection.

With the introduction of the Session Initiation Protocol (SIP) the interoperability of VoIP solutions has been established and has gained wide acceptance. The result is the DECT over SIP solution which uses the IP network for mobile communication.

Aastra 142d

Aastra 610d

Aastra 620d

Aastra 630d

Gain the benefits of VoIP and DECT at once

DECToverSIP includes IP base stations known as Radio Fixed Parts (RFP), a DECT handset family designed for professional use and the OpenMobility® Manager (OMM) software.

Using the unique benefits of IP-networking and DECT technology together, Aastra has developed DECT/WLAN base stations supporting standard SIP protocol, and able to integrate DECT into any open standard IP-network.

Aastra's DECToverSIP solution can be easily deployed in most open-standard IP environments such as: hosted or premised based using a SIP based IP-PBX (including Aastra's PBXs supporting SIP), hybrid PBX or open source call manager such as Asterisk. The solution requires limited technical planning and is run by OpenMobility Manager (OMM) software.

One OpenMobility Manager (OMM) controls the operation of all DECT/WLAN-Radio Fixed Parts whatever the size of the IP-network. The OMM software is installed in one of the RFPs', so no separate server is necessary. The administration is effected via a browser interface.

The OMM is highly scalable by simply adding additional handsets and base stations, Aastra's DECToverSIP solution can easily expand to meet changing business requirements. Up to 512 handsets can be deployed using up to 256 IP base stations.

Highlights DECToverSIP

- Outstanding voice quality and data transmission
- Enables all features similar to SIP desk terminals such as call forward and call waiting on the DECT handsets
- No restriction of connection distances, the range of the mobile network equals the size of the IP-infrastructure
- Simultaneous support for mobile voice and data in one network
- Single point of provisioning eases installation, set up, maintenance and service
- Ease handset and RFP enrolment
- The perfect option for easy and cost-optimized networking between sites and for growing existing networks
- Roaming between sites that are connected via WAN

Handover on the radio network needs synchronised radio fixed parts

Hitch-free and uninterrupted handover is possible in networks where the RFPs are synchronised. With Aastra's DECT over SIP solution, synchronisation takes place over the air (sync over air).

The IP-RFPs installed on the radio network synchronise with each other if they detect at least one nearby RFP. The Aastra solution is outstanding in that there is no master/slave system during synchronisation. The DECT network can thus be built up with redundancy. If individual RFPs fail (for instance during maintenance work on the IP network), the function of the entire network is maintained.

DECToverSIP for enterprises ...

- of all sizes already using VoIP
- in all vertical sectors requiring mobility
- which are communicating across several sites
- that want to cover large premises with a single network
- seeking higher security solutions
- requireing fale save, resilient communication solutions
- looking for a mobility solution with low installation costs
- using voice and data over one common infrastructure: Combined DECT/WLAN base station (EMEA, only)

Additional features

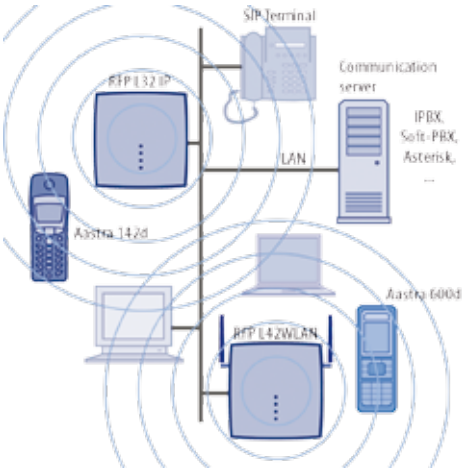
- Support of the new DECT handset family Aastra 600d with software update via radio link
- Quick system status overview
- Automatic import of database files from a server
- Automatic backup of database files to a server
- Manual backup and restore via TFTP / FTP(S) / HTTP(S) from/to a server
- Support of Asterisk 1.4

New with Release 1.8:

- Support of the new DECT handset software 2.03 for Aastra 600d
- UPDATE – RFC 3311
- PRACK – RFC 3262

Equipment

RFP L32 IP (indoor)	Mat-No. 68883
RFP L34 IP (outdoor)	Mat-No. 68882
RFP L42 WLAN (indoor)	Mat-No. 68785
AC adapter, global (for RFP L32 IP and L42 WLAN), for EMEA, NA, UK and Australia	Mat-No. 68744
Set Aastra 142d	Mat-No. 68743
Set Aastra 610d	Mat-No. 68851
Set Aastra 620d	Mat-No. 68850
Set Aastra 630d	Mat-No. 68849
CD (Park number)	Mat-No. 68872



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