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ASCOM IP-DECT SYSTEM PROVEN TECHNOLOGY IN AN INNOVATIVE PACKAGE

Ascom has achieved global leadership within traditional DECT technology. Our solutions are known for their modularity, reliability and robust design. This know-how is now available in an exciting new technology that combines the best of traditional thinking with all the promise of tomorrow – the Ascom IP-DECT system.

Why choose the Ascom IP-DECT system?

- Tried and tested technology
- High level of security (reserved spectrum, DECT encryption)
- Utilizing tomorrow's technology (VoIP)
- Superb voice quality
- Advanced alarm and messaging features
- Easy installation and maintenance
- Supports SIP and H.323 protocols
- Roaming between sites
- Cost efficient solution for companies with geographically dispersed operations
- Easy device management

The Ascom IP-DECT system – data and voice in secure harmony

Ascom IP-DECT combines the proven DECT standard with VoIP, allowing you to take advantage of both packet data and high-quality voice connections – on the same network. You can look forward to superb quality of service and excellent messaging capabilities in a secure radio environment. And because there's seamless handover, you won't have to worry about interruptions and 'lost' information, which inevitably result in confusion, misunderstanding and irritation.

IP-DECT offers a dedicated and protected frequency, making it exceedingly difficult to hack into. Which means you can look forward to minding your own business – safe in the knowledge that mission-sensitive information stays where it belongs.

Our solution offers less, a lot less

With the launch of the Ascom IP-DECT system, you can look forward to significant cost-savings. With fewer cables to worry about, less can go wrong and maintenance is greatly simplified. Telephony and IT are no longer separate functions with separate departments. The same tools are used for both. Ultimately, you'll enjoy a lower total cost of ownership.

Scalability and flexibility

The Ascom IP-DECT system is modular. Regardless of whether you're operating a small business or a large multiple-site installation with remote offices, we provide the solution you need. You'll find that full handover with just one local or remote PBX is highly convenient. In fact, the Ascom IP-DECT system is designed to handle up to 100 IP-DECT gateways, 1,000 IP-DECT base stations and 20,000 handsets per site. With the multiple masters and load balancing functionality the total system can handle 1,000:s of IP-DECT Gateways, 10,000:s of IP-DECT base stations and more than 100,000 handsets (no, it's not a misprint). Each IP-DECT base station can manage as many as eight simultaneous voice calls, while an IP-DECT gateway can handle 40 voice calls and 16 base stations all at once. We call these numbers system limitations. Our customers tend to view them as endless possibilities.

With an Ascom IP-DECT you can build systems for more than 100,000 users

The building blocks of the system:

- IP-DECT base stations
- IP-DECT gateways
- UPAC or IMS
- VoIP gateways, digital & analogue
- Existing base stations

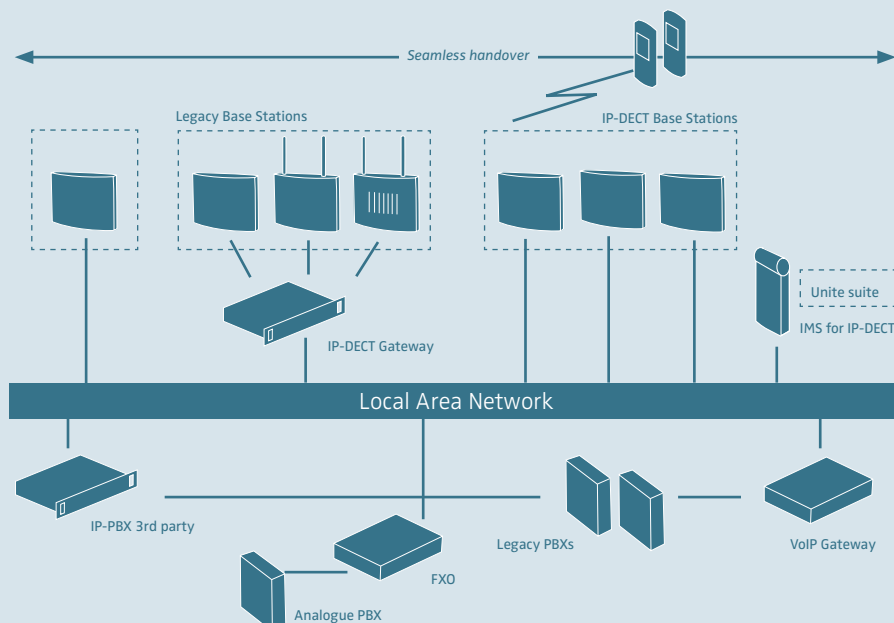## Yesterday and tomorrow are both taken care of

With Ascom, legacy systems are not an issue. Traditional DECT base stations can readily co-exist with IP-DECT base stations while enjoying full support for roaming and handover. By using the IP-DECT gateway, you can reuse and utilize your investment in DECT base stations and migrate to VoIP without fuss and without compromising your security.

However, if you are not running a DECT system today you can use the Ascom IP-DECT system together with your IP PBX choosing SIP or H.323 protocols to build the network – unless, of course, you have a large system in mind where, for example, LAN connectivities are far apart. In which case you could use a mix of IP-DECT base stations and IP-DECT gateways together with traditional DECT base stations (cable distance up to 1,5 km instead of 100 m for Ethernet).

Smooth migration to the VoIP world

The Ascom VoIP gateway is a real time- and money-saver. Because it connects with an already installed PBX, there's no need for a costly upgrade. And for added convenience, it supports a wide number of PBX supplementary services, including call transfer, call forwarding and caller ID. As a bonus, the redundancy planning feature more or less eliminates downtime.

ASCOM IP-DECT SOLUTION

Older handsets as well as Ascom's latest handsets, d41, d62 and d81 are compatible with our IP-DECT solution. This backward compatibility with older handsets means that any DCT1800-GAP, MD Evolution, BusinessPhone or MD110 system, running DECT GAP and/or CAP can be replaced by IP-DECT.

Seamless handover

Legacy Base Stations

IP-DECT Base Stations

IP-DECT Gateway

Unite suite

IMS for IP-DECT

Local Area Network

IP-PBX 3rd party

Analogue PBX

FXO

Legacy PBXs

VoIP Gateway

Ascom IP-DECT functions:

- Multiple masters enables large systems
- Load distribution (PBX Cluster)
- Centralized Management, OTA
- Active Directory data base replication
- IP security (https)
- Fault reporting and statistics

Making migration even smoother

With the Ascom analogue Gateway you can connect to analogue PBX:es and integrate with the Ascom IP-DECT system . This will enable IP-DECT to work together with an analogue extension towards analogue PBX:es in a similar way as with traditional Radio Exchange technology. Any system can now be ''IP-fied'', even if it is connected to an analogue PBX.

Easy to install, easy to use, easy to maintain

Installation couldn't be easier. The entire package contains a few simple plug and play components. No specific software is needed, and any configuration you need to do can be handled via a web browser. This means that not only do you avoid costly investments in specialist competence, there's also less risk of error. If your company uses Active Directory (AD) or if the system is really large the IP-DECT system can synchronise all the DECT users towards the AD and make your life as an administrator much easier. The combination of IP-DECT, Centralized Management and the handsets from Ascom enables software download and parameter settings Over the Air (OTA). A traditional base station and the new IP-DECT base station can be used in the same system. Maintenance is easily handled remotely. This gives easy management a whole new meaning.

A cost-efficient solution that stretches
way beyond tomorrow

Benefits:
- All communication on one network
- Improved mobility, scalability and capacity
- Possibility to build really large systems
- Distributed architecture/No need for PBX at remote office
- Single point of administration
- Smart integration with existing business systems
- Easy configuration

Ascom Unite messaging system – quicker response, greater security
The Ascom Unite messaging system provides seamless integration with external systems. The solution offers two-way traffic, allowing you to transmit messages to any Ascom IP-DECT handset and receive responses. Alarms to and from each phone can be dealt with on a pre-defined priority basis. Action be taken regardless of location, not only increasing the safety and efficiency of your personnel but also the mobility of your organization.
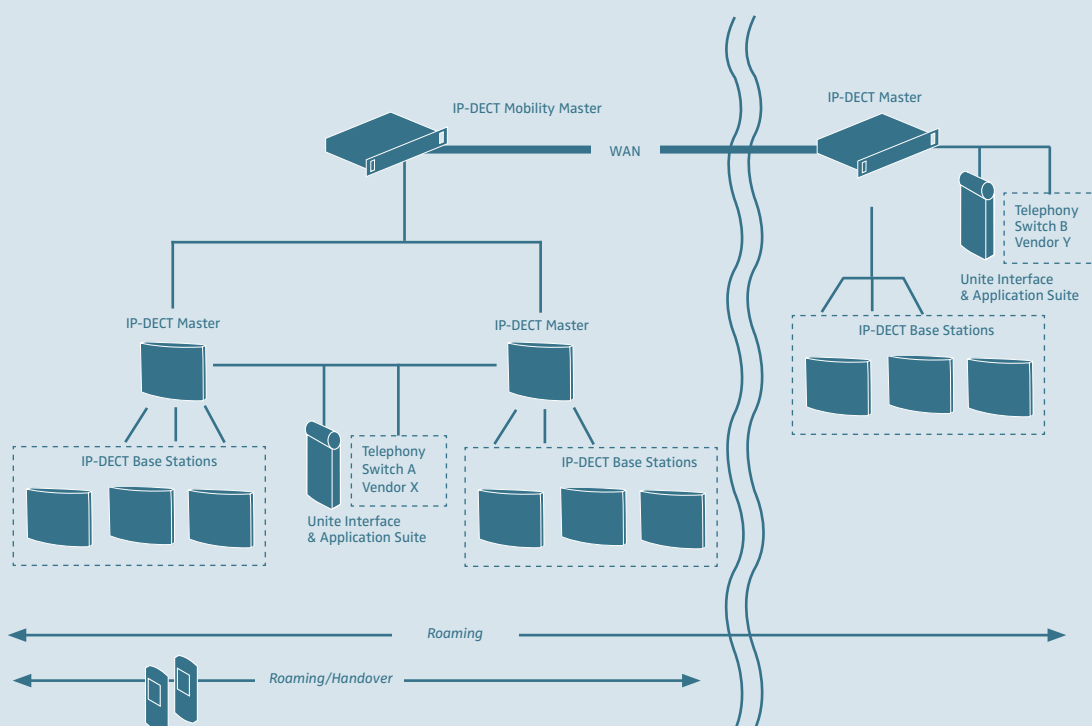
Furthermore, the system provides a complete message audit trail, simplifying fault-tracing and other diagnostic procedures. Vital machinery, for example, is easily monitored and controlled via an IP-DECT compatible handset. This is a truly world-class solution that delivers robust, high delivery throughput for single, group and broadcast messaging. If you're currently using an Ascom DECT system, you'll know just how effective our messaging solutions are.

Smart integration just got even smarter
Our corporate mission is defined by the concept of smart integration. It's what makes our offer unique. This ability to link systems, personnel and machines – while adapting to the changing demands of your operation – is not available anywhere else. That's why the new Ascom IP-DECT system supports integration with virtually any enterprise system, including ERP, fire alarms and OPC systems. Information from different sources is easily received and retrieved via your handset. The benefits are compelling: quicker response, less downtime, less administration and improved security.

IP-DECT MULTIPLE-MASTER CONCEPT

IP-DECT Mobility Master

IP-DECT Master

WAN

Telephony
Switch B
Vendor Y

Unite Interface
& Application Suite

IP-DECT Master

IP-DECT Master

IP-DECT Base Stations

IP-DECT Base Stations

Telephony
Switch A
Vendor X

IP-DECT Base Stations

Unite Interface
& Application Suite

Roaming

Roaming/Handover

The purpose of the multiple-master concept
- Increase the number of users (> 2,000)
  – Scalable from small to large systems
  – Minimum off changes when growing
- Increase number of Base stations (>1,000 IPBS)
  – Multiple sites, 1,000 BS per site
- Multiple site installations
  – Local functionality at WAN connectivity loss
- High load traffic Load sharing between masters

ASCOM WIRELESS SOLUTIONS is leading the way in delivering on-site wireless communication solutions based on VoWiFi, IP-DECT, DECT, Nurse Call and Paging systems. The solutions can contain both message handling, alarm and mobility platforms for speech and data communication. Professionals in industry, hospitals, secure establishments, elderly care, the retail sector and hotels all benefit from the smart integration of our tailor-made solutions.

Facilitating mobility, enabling efficiency and increasing personal security. All our 75,000 installed systems worldwide are unique, designed to solve specific customer problems and built to last. Thanks to our scaleable and modular architecture, as well as the optimal integration of modern wireless and IP applications, some of the systems we originally supplied 20 years ago are still in operation and still reliably serving our customers' needs!