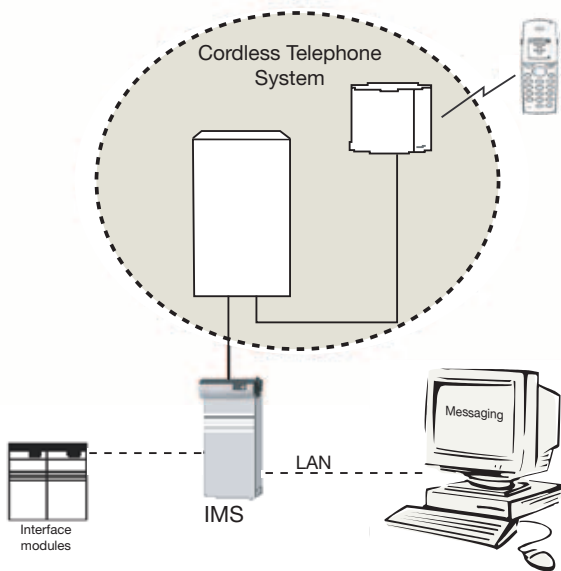# Integrated Message Server (IMS) for MD110

Integrated Message Server (IMS) offers simple and affordable messaging on DECT cordless phones. The IMS for MD110 is based on a solid-state platform connected to a LAN. An additional server PC is not required to support DECT messaging applications.

DECT SMS messaging is supported by the new range of Ericsson cordless phones:

DT590, DT412, DT422 and DT430 ATEX as well as the DT570 and DT4xx series.

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There are two variants of the IMS:

1. The Basic IMS supports sending and receiving SMS messages from a supported cordless phone and access to a central phonebook.

2. The Expandable IMS contains more functionality and acts as an interface between the MD110 and other alarm modules (input, output and serial).

Basic IMS: Features

- SMS from cordless phone to cordless phone

- Integrated central telephone number directory (500 entries)

- DECT phonebook service. Link to phonebook database on PC e.g. D.N.A. 5.x (no limitation on number of entries)

- Communication protocol open for client applications

Expandable IMS: Features

- SMS from cordless phone to cordless phone

- Integrated central telephone number directory (500 entries)

- DECT phonebook service. Link to phonebook database on PC e.g. D.N.A. 5.x

- Absence handling

- DECT group handling (30x15 + 1x50)

- Web-based tool for sending messages to cordless phones

- Web-based tool for basic management of alarms from cordless phones and system units

- Supported message and alarm functions:
  - Basic one-way messaging
  - Messages with automatic and manual acknowledge
  - Interactive messaging
  - Erase sent messages
  - Mobile data from handsets
  - Personal alarm with location information from handsets

SMS from cordless phone to cordless phone

SMS between cordless phones makes it possible to send a message from one cordless phone to another cordless phone or a group of cordless phones.

Integrated central telephone number directory (500 entries)

Integrated central telephone number directory makes it possible to retrieve directory information stored locally in the IMS. Up to 500 entries can be locally stored.

DECT phonebook service

The DECT phonebook service allows the user to access a centralized phonebook from a DECT cordless phone. The telephone directory, with no limitation to number of entries, may be located in a site database (i.e. in the Message Server) or in a database that can be accessed via ODBC (Open DataBase Connectivity; a standard for accessing data sources). In this way a link can be made to a D.N.A. 5.x database residing on a PC.

Absence handling

The IMS keeps track of cordless phones that have reported absence status. When a message is sent to an absent cordless phone, the sending module can get information from the IMS that the cordless phone is absent. A list is also kept up to date in the IMS with the absent cordless phone and the absent reason "manually absent" or "in storage rack".

DECT group handling

The DECT group handler is used when one message should be sent to several cordless phones. The group handler has 30 groups with 15 cordless phone addresses and one group with 50 cordless phone addresses.

Web-based tool for sending messages to cordless phones

With the IMS Messaging Tool, messages can be sent to cordless phones via a browser.

Web-based tool for basic management of alarms

An application called Basic Alarm Manager is included in the IMS. This application makes it possible to send messages to phones on the cordless telephone system or activate outputs in the system as a reaction to inputs such as alarms or data from cordless phones linked to the system. All settings are made through a web interface.

The following can be used to trigger an action:

- 2 inputs available on the IMS
- Alarms from cordless phones
- Data from cordless phones

The following actions can be programmed:

- 2 outputs available on IMS
- Messages to cordless phones or groups of cordless phones

The maximum number of triggers/events and corresponding actions is 250.

Expansion modules

It is possible to connect optional expansion modules. Up to 15 optional modules can be connected to the IMS via an RS485 connection.

The ROANB 220 04/1 T942C central unit is not required. This functionality is integrated in the expandable IMS.

Technical Specifications

Physical

Dimensions (l x w x h):	275 x 130 x 60 mm
Weight:	620 g
Material:	PC/ABS
Color:	Light grey

Environmental

Operation temperature:	0°C – +30°C
Storage temperature:	-20°C – +70°C
Relative humidity:	30 – 85% (non condensing)

Functional

Supply voltage:	12.5 V ±10%
Current consumption:	max 1.2 A
Power Source:	the BMLNB 220 01/1, T930PS1 power supply unit can be used.

Memory

RAM:	32 MB
FLASH:	64 MB

Endurance

Enclosure protection:	IP30, EN 60529 TD 92160GB2003-09-09/ Ver. B

Interface to other messaging modules:

Connectors:	Screw terminals, modular jacks, RJ45
Data Interface:	RS485
Max. no. of modules:	15

LAN

Data interface:	10baseT Ethernet (modular jack, RJ45)

Group capacity

Number of groups:	30 with up to 15 users, 1 with up to 50 users

IMS phonebook

Number of entries:	500 internal or more using DECT phonebook service.

Cordless telephone system interface

Supported Systems:	Ericsson MD110 connected via Ethernet.

For messaging in an MD110 system the extra facilities short message service and mobility must be installed.

Visit us on our website
www.ericsson.com/enterprise

Supported cordless phones

The following cordless phones can be used for messaging:

IMS supported phones

	DT410	DT420	DT430-ATEX	DT412	DT422	DT590	DT570 (sw R3C or later)
Messaging	x	x	x	x	x	x	x
Central Phonebook				x	x	x	
Absence handling	x	x	x	x	x		
Alarm (pushbutton, man-down/no-movement)		x	x		x		

Requirements

– Microsoft Internet Explorer 5.5™ or later (only needed for installation, administration and IMS Messaging Tool).

– License for SMS in MD110: FAL 104 708, one per user.

– Ethernet cable TSR 902 0240/7000 for connection to the MD110.

For DECT phonebook service:

PC with Windows NT workstation, Windows 2000 Professional, Windows XP Professional.

Any database with ODBC connection (eg. D.N.A. 5.x) or WinBK Site Database (as used in DECT message server packages) is also required.

Standards

EMC:	EN 55022 (class B), EN 610005
Low Voltage directive:	EN 60950