

ERICSSON MD EVOLUTION

General characteristics



MD Evolution is a modular communication system that provides business-specific applications to small to medium-sized enterprises.

Its converged architecture allows cost-efficient and effective synergies when converging voice, data and management services. The SIP trunking and SIP extension capability bring MD Evolution into the SIP world. The system is also strong in mobility, with mobility extension, WiFi and IP DECT solutions.

MD Evolution offers a range of environmentally sound, wired telephones, spanning the simplified sophistication of IP phones to basic analog models. These are essential business tools for your enterprise, and are compatible with the DECT cordless models, designed to provide you with anytime, anywhere access. These telephones can be easily adapted to suit your organization's needs.

MD Evolution also provides contact voice server capability, incoming call distribution features, CTI and a very high-performance, least-cost routing feature.

Telephone range

Interface

	Dialog 4225 Vision	Dialog 4223 Professional	Dialog 4222 Office	Dialog 4220 Lite	Dialog 4425 IP Vision v2	Dialog 4422 IP Office v2	Dialog 4420 IP Basic	Dialog 4106 Basic	Dialog 4146 Medium/Hotel	Dialog 4187 Plus	Other analog phone	DT190	DT292	DT590	DT432 / DT422/ DT412
	Digital	Digital	Digital	Digital	Ethernet 10/100 Base T	Ethernet 10/100 Base T	Ethernet 10/100 Base T	Analog	Analog	Analog	Analog	Radio DECT-GAP	Radio DECT-GAP	Radio DECT-GAP	Radio DECT-GAP
Additional key panel unit KPU	4 KPUs	4 KPUs	1KPU		4 KPUs	1 KPU									
Dynamic key with LCD display	4+3 (navigation)	4			3 (navigation)							3			
Number of repertory keys (with 1/4 KPUs)	17/68	17/68	17			17				50 names					
Call by name (internal or external calls)	•	•	•		100 personal numbers					+ nos. 2x20 chr.		20 names + nos.	100 names + nos.	1000+ 100 names+ nos.	100 names + nos.
LCD display	6x50 chr.	3x40 chr.	2x20 chr.		6x50 Backlit in V2	2x20 chr.	No display					4 icons + 12 chr.+Soft keys	7 icons + 2x12 chr.	5 icons + 101x80 pixels	6 rows (20 char./icons)
Call cost/duration display	•	•	•		•	•				•		•	•	•	•
Time and date display/dialed number	•	•	•		•	•				Duration		Call duration	Call duration	Call duration	Call duration
Call account counter display	•	•	•		•	•						•	•	•	•
Caller name with automatic callback (calls with no reply)	10 last nos.	10 last nos.	10 last nos.		50 max. (call list)	50 max. (call list)	51 max. (call list)	Redial	Redial	20 last nos.		5 last missed calls	20 max	20 max. (call list)	20 received/dialed calls
Called name with automatic callback/redial	Redial	Redial	Redial	Redial	50 max. (call list)	50 max. (call list)	51 max. (call list)					5 in call list	20 max	20 max. (call list)	20 received/dialed calls
Integrated text guide	•	•	•		•	•					**	•	•	•	•
Waiting caller's identification (number* and name**)	•	•	•							•	**				
External caller's identification (number* and name**)	•	•	•		•	•				•	**	•	•	•	•
Internal caller's identification with name	•	•	•		•	•				•		•	•	•	•
Display required extension's status	•	•	•		•	•									
Incoming call deflection	•	•	•		•	•									
Hands-free	•	•	•		• AEC	•							•	•	•
Internal text messages (ISDN) (send/receive)	•	•	•	Send				4	2x8	2x10					
Programmable soft keys (with 0/1 or 4 KPU)	16/84	6/74	6/23	6	17	7	7					1			10 hot keys
Call screening	•	•	•		•	•									
Multi-line/multi-calls	8 lines	8 lines	6 lines	6 lines											
Mute key with LED	•	•	•		•	•						Icon display	Icon display	Icon display	Icon display
Line status display	•	•	•		•	•									
Voice message notification with LED and voice prompt	•	•	•		•	•		3	5	10	Voice prompt	Voice prompt + icon	Voice prompt + icon	Voice prompt + icon	Voice prompt + icon
Ringing melodies	10	10	10	10	10	10	10	3	3	3+silence	Type of phone	3 for external call	6	14 predefined+ 10 programmable 9	3
Ringing volume levels	10	10	10	10	10	10	10	•	•	•	Type of phone	5	3	•	5+ silence
Voice calling on digital phones	•	•	•		•	•		•	•	•		•	•	•	•
Hotline to internal/external number	•	•	•		•	•		•	•	•		•	•	•	•
General voice calling on digital terminals within a group	•	•	•		•	•		•	•	•		•	•	•	•
Conference — up to 4 parties	•	•	•		•	•		•	•	•		•	•	•	•
On hold, inquiry, broker's call	•	•	•		•	•		•	•	•		•	•	•	•
Call recording	•	•	•		•	•		•	•	•		•	•	•	•
Call pick-up	•	•	•		•	•		•	•	•		•	•	•	•
Hunt groups (up to 16 groups, up to 100 extensions in groups)	•	•	•		•	•		•	•	•		•	•	•	•
Personal group (up to 5 phones)	•	•	•		•	•		•	•	•		•	•	•	•
Call monitoring	•	•	•		•	•		•	•	•		•	•	•	•
Abbreviated numbers/last external number redial	•	•	•		•	•		•	•	•		•	•	•	•
Call offer/intrusion	•	•	•		•	•		•	•	•		•	•	•	•
Call parking	•	•	•		•	•		•	•	•		•	•	•	•
General calls in auxiliary attendant mode	•	•	•		•	•		•	•	•		•	•	•	•
Tone/intrusion protection	•	•	•		•	•		•	•	•		•	•	•	•
Automatic callback	•	•	•		•	•		•	•	•		•	•	•	•
Call forwarding all calls/when no reply/when busy/do not disturb	•	•	•		•	•		•	•	•		•	•	•	•
External call forwarding (remotely programmable)	•	•	•		Free seating	Free seating	Free seating	•	•	•		•	•	•	•
Substitution/sign-on	•	•	•		Free seating	Free seating	Free seating	•	•	•		•	•	•	•
End-to-end signaling (DTMF tones)	•	•	•		•	•		•	•	•		•	•	•	•
Internal/external call transfer	•	•	•		Without prompt	Without prompt	Without prompt	•	•	•		•	•	•	•
Call appointment with voice prompt	•	•	•		Without prompt	Without prompt	Without prompt	•	•	•		•	•	•	•
Lock-out with voice prompt	•	•	•		•	•		•	•	•		•	•	•	•
Integrated headset connection					2-port mini-hub	2-port mini-hub	2-port mini-hub								
PC/Modem/Fax connection															
Specific interfaces provided by an optional unit															
Extra bell	•	•	•		•	•									
Busy signal	•	•	•		•	•									
Combined extra bell and busy signal	•	•	•		•	•									
Optional equipments for DECT mobiles															
Headset profile														•	•
Noisy environment headset														•	•
Portable hands-free														•	•
Individual charger														•	•
Docking station														•	•
Weight												127 g	139 g	131 g	140 g
Talk/standby/charge time												10 h/170 h	17 h/140 h	20 h/140 h	8h/80h/1h (5h/40h/1h with alarm)
SMS messages—receive and send														•	•
Intrinsic safety IP64															
ATEX classification II (Gr IICT4)															DT432 only
Vibration Mode														•	•
DATI functions for isolated worker (with MD Evolution XL)															DT422/ DT432

System management

- Management Software Suite TLG, PC-based tool
 - Remote management for databases, software upgrading and call records through ISDN/PSTN/IP
 - Diagnostic and maintenance tools, support for SNMP v1/v2/v3
 - Single PC can manage up to 400 MD Evolution systems.
- 2 V.24 ports, 1 Ethernet 10/100 Base T port
- 32 classes of services
- 16 programmable toll restriction tables (MD Evolution M: 8)
- 500 internal numbers per system (MD Evolution M: 250)
- 6-digit numbering plan, programmable prefixes and suffixes

	MD Evolution M	MD Evolution XL
NETWORK		
PRA	1	4
BRA	16	32
SIP trunks	64	64
Analog trunks	32	44*
Analog leased lines	-	22
INTERNAL CONNECTIONS		
\$0 bus	16	32
Wired phones	36	176
IP terminals	128	200
Mobile extension	120	120
DECT - GAP		
Cordless phones	60	120
Base stations	8	22
CONTACT VOICE SERVER		
Max.number of accesses	16	32
Recording capacity	37 hours	37 hours

* 16 with trunk protection

Outgoing calls

- Call by name (D4222, D4223, D4225, D4425 and DECT terminals)
- 800 abbreviated numbers with associated names
- Open abbreviated number
- Option of sending or masking caller identity by class of service
- Company number or DDI number for caller identification (ISDN, SIP trunking)
- Click-to-talk with user web browsers based on company directories

Incoming calls

- 1 to 4 operator positions
- Supervision of extensions
- Company number or user's DDI number
- Trunk-to-trunk capability
- 16 hunt groups with call distribution (cyclic, linear or all extensions)
- Automated answering by timetables
- Integrated standard music on hold
- CLIP/CNIP service on analog phones
- Personal group from 2 to 5 extensions (wired terminals, DECT terminals, mobile extensions, IP phones)

* From MD Evolution directory or ISDN network

** For analog phone managing CLIP/CNIP

- 15 voice ports for music on hold, greeting messages, background music
- Customizable integrated voice messages (total length 15 hours)
- 2 general ring tones (1 for MD Evolution M)
- Day/night service

IP telephony

- Up to 200 IP terminals (128 for MD Evolution M)
- Dialog IP terminals: D4425 IP Vision, D4422 IP Office, D4420 IP Basic, D5446 IP Premium
- Telephony services compliant H.323/SIP and enhanced with proprietary services
- Remote IP terminal via ADSL
- IP gateway in H.323/SIP mode (32 IP channels max.)

Integrated voice server contact

- Integrated voice mail (250 boxes, 16 distribution lists, personal assistant, customized welcome message, internal/external notification)
- Automated attendants (max.100AA, 100 menus)
- Fax deviation within automated attendant
- Management via user web browsers including personal welcome message

Unified messaging

- E-mail and voice mail handling
- Redial caller
- Unified messaging on any generic SMTP client (MS Outlook, Lotus Notes, etc.)

ICD, CTI, call center

- Integrated incoming call distribution (ICD) including queue management and customized scenarios
- Third party CTI-Link (CSTA/TSAPI/TAPI 2.1)
- CTI application: BackStage for personal efficiency (telephony services, incoming call routing, BLF, screen pop-ups, SMS texting, call logs, directories, etc.)

Integrated DECT cordless system

- Management of 120 DECT-GAP cordless phones (60 for MD Evolution M) in addition to wired phones
- SMS texting capability (MD Evolution XL)
- Digital conversation quality
- Hand-over in all covered areas

Mobile extension

- Mobile extension service for company GSMs and remote workers
- Up to 120 mobile extensions
- Service available on ISDN/ SIP trunking/ IP H.323 networks
- Caller's authentication by network information or dialed password
- Same telephony services as an internal phone, including external transfer, call forwarding, caller/called identification and mailbox access
- No specific hardware required

Traffic and billing

- Incoming, outgoing, and internal call registering and printing (in

real-time or on-demand)

- User call accounting on operator console
- Trunk and user call accounting on operator console
- Storage of up to 8000 records for later analysis by remote billing server
- Traffic analysis
- Management of 2 currencies

LCR (Least Cost Routing)

- Routing optimization according to dialed number, time and network availability
- Overflow to other trunk group upon first trunk group congestion (4 possible routes/call)
- Homogeneous numbering plan with LCR

Private networking

- For voice, fax and data based on public/private links (PRA/BRA/ IP H.323 links/analog trunk)
- Telephone services according to QSIG-VAPA protocol, and supervision of remote extensions, remote call pick-up
- Interoperability with MD110/MX-ONE™/TSW with QSIG-VAPA features on IP H.323/PRA/BRA
- Interoperability with other vendor PBXs with QSIG features on IP/PRA/BRA

Multimedia features

- S0 bus connection of any ISDN terminal
- Transmission up to 128 kbps
- IP connection
- Video with BackStage 8.0

Distances for connection

- Analog interface: 2 wires/2000 m
- Digital interface: 2 wires/800 m
- S0: 4 wires/800 m
- IP connections: Ethernet 10/100 Base T
- DECT base station: 4 wires/900m

Power supply

- Integrated power supply, 100-240V, 50/60Hz, ringing 20/25/50Hz for MDE-M
- Integrated power supply, DC/DC 48V or AC/DC 220V, 50Hz MDE-XL
- Option for internal or external battery back-up

Cabinet dimensions

- MD Evolution M: 13 x 43 x 48 cm
- MD Evolution Mi: 19-inch rack 3U
- MD Evolution XL: 23 x 45 x 57 cm
- MD Evolution XLi: 19-inch rack 9

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