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Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP);
Multimedia Messaging Service (MMS) with specific provision for facsimile services
(service type F, class 2)

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Ta slovenski standard je istoveten z: **ETS 300 755 Edition 1**

ICS:

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à|^: c̄çā } ^ Á | ^ [{ ^ } á æði Telecommunications (DECT)
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Digital Enhanced Cordless Telecommunications (DECT);
 Data Services Profile (DSP);
 Multimedia Messaging Service (MMS) with specific
 provision for facsimile services;
 (Service type F, class 2)

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Contents

Foreword	9
1 Scope	11
2 Normative references.....	11
3 Definitions and abbreviations	13
3.1 Definitions	13
3.2 Abbreviations	14
4 Description of services	16
4.1 Reference configuration.....	16
4.2 Service description.....	16
4.3 Service objectives	17
4.3.1 Multi-bearer support	17
5 Functional description	18
5.1 General	18
5.2 MMS relations to outside networks (horizontal model)	18
5.3 Architecture.....	19
5.3.1 General.....	19
5.3.2 MMSP call control part (C-MMS)	20
5.3.3 MMSP messaging part (M-MMS)	20
5.4 MMS relations to the upper/lower layers (vertical model)	20
5.4.1 General.....	20
5.4.2 MMS relation to the DECT upper layers.....	21
5.4.2.1 General.....	21
5.4.2.2 M-MMS	21
5.4.2.3 C-MMS	21
5.5.1 MMS relations to outside networks (vertical and horizontal model).....	22
5.5.2 Phases of the horizontal interactions	22
5.5.2.1 General	22
5.5.2.2 PP originated outgoing MMS call.....	22
5.5.2.3 Example of a typical PP initiated message	24
5.5.2.4 PP terminated incoming MMS call.....	24
5.6 MMS relations to the DECT Data Services Profiles (DSPs) E and F	25
5.6.1 General.....	25
5.6.2 E-profile and MMSP	25
5.6.3 F-profile and MMSP	25
6 Physical layer requirements	25
7 MAC layer requirements.....	25
8 DLC layer requirements	26
8.1 C-plane requirements	26
8.2 U-plane requirements	26
9 Network layer requirements	26
10 Management entity requirements.....	27
11 Generic interworking conventions	27
11.1 MMSP procedures	27
11.2 MMS-SAP	27

11.3	MMSP primitives	27
11.3.1	C-MMS primitives	27
11.3.2	M-MMS primitives	28
11.3.3	Parameters	28
Annex A (normative): MMSP definition		29
A.1	MMSP protocol messages and procedures.....	29
A.1.1	General.....	29
A.1.2	C-MMS messages and procedures.....	29
A.1.3	M-MMS.....	30
A.1.3.1	Summary of the M-MMS messages	30
A.1.3.2	MMS SEND procedure	30
A.1.3.2.1	{MMS-SEND} message contents	31
A.1.3.2.2	{MMS-SEND-RPY} message contents	31
A.1.3.3	MMS SEND-REQ procedure	32
A.1.3.3.1	{MMS-SEND-REQ} message contents.....	32
A.1.3.3.2	{MMS-SEND-RPY} message contents	33
A.1.3.4	MMS RETRIEVE procedure	33
A.1.3.4.1	{MMS-RETRIEVE} message contents.....	34
A.1.3.4.2	{MMS-RETRIEVE-RPY} message contents	34
A.1.3.5	MMS RETRIEVE-HDR procedure	35
A.1.3.5.1	{MMS-RETRIEVE-HDR} message contents.....	35
A.1.3.5.2	MMS-RETRIEVE-RPY} message contents	36
A.1.3.6	MMS-EXT-CMD procedure	36
A.1.3.6.1	{MMS-EXT-CMD} message contents	37
A.1.3.6.2	{MMS-EXT-CMD-RPY} message contents	37
A.1.3.7	MMS-STATUS procedures.....	37
A.1.3.7.1	{MMS-STATUS} message contents	38
A.1.3.7.2	{MMS-STATUS-RPY} message contents	38
A.1.3.8	MMS-ESC-CMD procedure	39
A.1.3.8.1	{MMS-ESC-CMD} message contents	39
A.1.3.8.2	{MMS-ESC-CMD-RPY} message contents	40
A.1.3.8.3	Generic interworking conventions for the {MMS-ESC-CMD} command and reply.....	40
A.1.3.9	Procedures for the use of the MMS-message identifier	40
A.1.3.10	Multi-part message procedures	41
A.1.3.10.1	Multi-part send procedures	41
A.1.3.10.2	Multi-part retrieve procedures	42
A.1.3.11	Unsupported MMS command and IE compatibility procedures.....	42
A.1.3.11.1	Unsupported MMS commands procedure	42
A.1.3.11.2	Unsupported Information elements procedure	42
A.2	MMSP information elements	42
A.2.1	Summary of M-MMSP information elements	42
A.3	Parameters of M-MMSP service primitives	43
A.3.1	M_MMS_SEND- {req, ind}	43
A.3.2	M_MMS_SEND_REQ- {req, ind}.....	44
A.3.3	M_MMS_SEND_RPY- {req, ind}.....	44
A.3.4	M_MMS_RETRIEVE- {req, ind}	45
A.3.5	M_MMS_RETRIEVE_RPY- {req, ind}.....	45
A.3.6	M_MMS_EXT_CMD- {req, ind}	46
A.3.7	M_MMS_EXT_CMD_RPY- {req, ind}.....	46
A.3.8	M_MMS_STATUS {req, ind}	47
A.3.9	M_MMS_STATUS_RPY- {req, ind}.....	47
A.3.10	M_MMS_ESC_CMD- {req, ind}.....	48
A.3.11	M_MMS_ESC_CMD_RPY- {req, ind}	48
Annex B (normative): Support of MMSP by the DECT lower layers		49
B.1	Profile-specific information elements.....	49
B.1.1	MMS Generic Header information element.....	49

B.1.2	MMS Object Header information element.....	54
B.1.3	MMS Extended Header information element.....	60
B.2	LAPU Frame Format applicable for the F profile.....	62
B.2.1	The information field in case of SAPI 0.....	62
B.2.2	The information field in case of SAPI 3.....	62
B.3	C-MMS primitive mapping rules.....	62
B.4	M-MMS message mapping rules	63
B.4.1	General	63
B.4.2	Information Element Mapping Rules.....	63
Annex C (normative): Interworking conventions for real-time facsimile group 3 (MMS to T.30 Group 3 interworking).....		64
C.1	Introduction and scope of annex	64
C.2	Definition of the services and features	64
C.3	Overview of the MMS requirements	66
C.3.1	Standardized symbols for the status columns	66
C.3.2	Outgoing facsimile service.....	67
C.3.2.1	C-MMS requirements	67
C.3.2.2	M-MMS command requirements.....	68
C.3.2.3	M-MMS information element requirements	68
C.3.3	Incoming facsimile service.....	69
C.3.3.1	C-MMS requirements	69
C.3.3.2	M-MMS command requirements.....	69
C.3.3.3	M-MMS information element requirements	69
C.4	M-MMS message IE requirements - Outgoing facsimile service	70
C.4.1	MMS-SEND command IIST ETS 300 755:2001	70
C.4.2	MMS-SEND-REQ command standards/ist/2abd0c6e-635b-4574-994c-	70
C.4.3	MMS-SEND-RPY command /ist-cts-300-755-2001	71
C.4.4	MMS-RETRIEVE command	71
C.4.5	MMS-RETRIEVE-RPY command.....	71
C.4.6	MMS-EXT-CMD command.....	72
C.4.7	MMS-EXT-CMD-RPY command	72
C.4.8	MMS-STATUS command	73
C.5	M-MMS message IE requirements - Incoming facsimile service	73
C.5.1	MMS-SEND command	73
C.5.2	MMS-SEND-REQ command	74
C.5.3	MMS-SEND-RPY command.....	74
C.5.4	MMS-RETRIEVE command	75
C.5.5	MMS-RETRIEVE-RPY command.....	75
C.5.6	MMS-EXT-CMD command.....	76
C.5.7	MMS-EXT-CMD-RPY command	76
C.5.8	MMS-STATUS command	77
C.6	T.30 parameters to MMS IE mappings	77
C.6.1	DIS/DTC Capabilities mapping	77
C.6.2	DCS Capabilities mapping	79
C.7	Service specific Information Element codings.....	81
C.7.1	<<IWU-ATTRIBUTES>>.....	81
C.7.2	<<MMS-GENERIC-HDR>>.....	82
C.7.3	<<CALLED-PARTY-NUMBER>>.....	82
C.7.4	<<CALLED-PARTY-SUBADDR>>.....	82
C.7.5	<<CALLING-PARTY-NUMBER>>	83
C.7.6	<<MMS-OBJ-HDR>>	83
C.7.7	<<MMS-EXT-HDR>>	84

C.7.7.1	Group 3 facsimile object parameters.....	85
C.7.7.2	Group 3 facsimile transmission parameters	86
C.7.7.3	Group 3 facsimile capabilities parameters.....	87
C.7.7.4	Group 3 facsimile Called Subscriber Identity (CSI)	90
C.7.8	<<USER-DATA>>	91
C.8	Interworking procedures - outgoing facsimile service.....	91
C.8.1	General procedures	92
C.8.1.1	Structure of a MMS facsimile message - multipart message procedures	92
C.8.1.2	Assignment of MMS message identifiers	93
C.8.1.3	Assignment of Multipart parent message identifiers.....	93
C.8.1.4	Management of MMS message and IE options.....	93
C.8.1.5	Procedure for support of Option O.4 - T.30 Error Correction Mode (ECM)...	93
C.8.2	Call setup procedures (T.30 phase A)	94
C.8.2.1	PP side procedures	94
C.8.2.2	FP side/IWU procedures	94
C.8.3	Service capability identification procedures (T.30 phase B.1).....	96
C.8.3.1	PP side procedures	96
C.8.3.1.1	Retrieval of FP and EE capabilities (Optional)	96
C.8.3.1.2	Facsimile message to transmit	96
C.8.3.1.3	Facsimile message to retrieve and none to transmit (Optional)	97
C.8.3.1.4	No facsimile message to transmit or to retrieve.....	97
C.8.3.2	FP side/IWU procedures	97
C.8.3.2.1	Retrieval of FP and EE capabilities.....	98
C.8.3.2.2	PP has a facsimile message to transmit.....	98
C.8.3.2.3	PP has no more facsimile messages to transmit.....	98
C.8.3.2.4	PP wishes to retrieve a facsimile message.....	98
C.8.4	Service negotiation procedures (T.30 phase B.2).....	99
C.8.4.1	PP side procedures	99
C.8.4.2	FP side/IWU procedures	99
C.8.5	Message transmission procedures (T.30 phase C).....	100
C.8.5.1	PP side procedures	100
C.8.5.2	FP side/IWU procedures	100
C.8.6	Post-message procedures (T.30 phase D).....	101
C.8.6.1	PP side procedures	101
C.8.6.1.1	More parts of the multi-part message to send (T.30 MPS).....	101
C.8.6.1.2	Multi-part message finished but more facsimile messages to send (T.30 EOM)	101
C.8.6.1.3	Finished sending all messages and message parts (T.30 EOP)	102
C.8.6.2	FP side/IWU procedures	102
C.8.6.2.1	More parts of the multi-part message to send (T.30 MPS).....	103
C.8.6.2.2	Multi-part message finished but more facsimile messages to send (T.30 EOM)	103
C.8.6.2.3	Finished sending all messages and message parts (T.30 EOP)	104
C.8.7	Call release procedures (T.30 phase E)	104
C.8.7.1	PP side procedures	104
C.8.7.2	FP side/IWU procedures	104
C.8.7.2.1	PP initiated normal release	104
C.8.7.2.2	FP initiated orderly release	105
C.8.7.2.3	FP initiated abnormal release	105
C.9	Interworking procedures - incoming facsimile service.....	114
C.9.1	General procedures	114
C.9.2	Call setup procedures (T.30 phase A)	114
C.9.2.1	FP side/IWU procedures	114
C.9.2.2	PP side procedures	115
C.9.3	Service capability identification procedures (T.30 phase B.1).....	115
C.9.3.1	FP side/IWU procedures	115
C.9.3.1.1	Retrieval of PP capabilities and transfer of PP/IWU capabilities to the EE.....	116

C.9.3.2	C.9.3.1.2 Retrieval of a facsimile message by the EE	116
	PP side procedures	117
	C.9.3.2.1 Retrieval of PP capabilities (Optional)	117
	C.9.3.2.2 EE has no more facsimile messages to transmit	117
	C.9.3.2.3 Retrieval of a facsimile message by the EE	117
C.9.4	Service negotiation procedures (T.30 phase B.2)	118
C.9.4.1	FP side/IWU procedures	118
C.9.4.2	PP side procedures	119
C.9.5	Message transmission procedures (T.30 phase C).....	119
C.9.5.1	FP side/IWU procedures	119
C.9.5.2	PP side procedures	120
C.9.6	Post-message procedures (T.30 phase D).....	120
C.9.6.1	FP side/IWU procedures	120
	C.9.6.1.1 More parts of the multi-part message to send (T.30 MPS)120	
	C.9.6.1.2 Multi-part message finished but more facsimile messages to send (T.30 EOM)	121
	C.9.6.1.3 Finished sending all messages and message parts (T.30 EOP).....	121
C.9.6.2	PP side procedures	122
	C.9.6.2.1 More parts of the multi-part message to send (T.30 MPS)122	
	C.9.6.2.2 Multi-part message finished but more facsimile messages to send (T.30 EOM)	123
	C.9.6.2.3 Finished sending all messages and message parts (T.30 EOP).....	123
C.9.7	Call release procedures (T.30 phase E).....	124
C.9.7.1	FP side/IWU procedures	124
	C.9.7.1.1 PP initiated normal release.....	124
	C.9.7.1.2 EE/FP initiated orderly release.....	124
	C.9.7.1.3 EE/FP initiated abnormal release	124
C.9.7.2	PP side procedures	124
	C.9.7.2.1 PP initiated normal release.....	124
	C.9.7.2.2 EE/FP initiated orderly release	124
iTeh STANDARD REVIEW (Standard Review)		
Annex D (informative): Interworking conventions for store and forward facsimile group 3		133
https://standards.iec.ch/catalog/standards/sist/zabdu/coe-6356-4374-994c-c976418e529d/sist-ets-300-755-2001		
Annex E (informative): Interworking conventions for the GSM facsimile group 3 service		134
Annex F (normative): Service type C, class 2: Fixed termination NWK PICS proforma for E and F profile.....		135
F.1	Standardized symbols for the status column	135
F.2	Capabilities.....	136
F.2.1	Major capabilities	136
	F.2.1.1 Services.....	136
	F.2.2.1 Timer support	137
Annex G (normative): Service type C, class 2: Portable termination NWK PICS proforma for E and F profiles.....		149
G.1	Standardized symbols for the status column	149
G.2	Capabilities.....	150
G.2.1	Major capabilities	150
	G.2.1.1 Services.....	150

Page 8
ETS 300 755: May 1997

Annex H (informative):	Applicability of ETS 300 757 interworking annexes	163
Annex J (Informative):	Interworking to other message-based teleservices and application-level services.....	164
J.1	General	164
J.2	WWW/HTTP	164
History		165

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<https://standards.iteh.ai/catalog/standards/sist/2abd0c6e-635b-4574-994c-c976418e529d/sist-ets-300-755-2001>

Foreword

This European Telecommunication Standard (ETS) has been produced by the Digital Enhanced Cordless Telecommunications (DECT) Project of the European Telecommunications Standards Institute (ETSI).

Transposition dates	
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1 Scope

This European Telecommunication Standard (ETS) defines a profile for Digital Enhanced Cordless Telecommunications (DECT) systems conforming to ETS 300 175 [1] to [9]. It is part of a family of profiles which build upon and extend each other, aimed at the general connection of terminals supporting non-voice services to a fixed infra-structure, private and public.

This ETS specifies the type F service, mobility class 2, as described in ETR 185 [12]. It uses the C-plane and U-plane services provided by the data service profile type C, Class 2, ETS 300 651 [13]. Additional functionality is defined to provide a means for the high speed, acknowledged or unacknowledged, transfer of multimedia message objects, including group 3 facsimile. This service may be used for private and public roaming applications.

Annexes to this ETS contain interworking conventions to specific teleservices and application level services including group 3 facsimile. The messaging service specified in this ETS also allows efficient interworking to other message-based teleservices and application-level services, such as E-mail, World Wide Web (WWW) Hyper Text Transfer Protocol (HTTP) and file transfer (FTP, FTAM and ISDN file transfer). This messaging service has been optimized for the efficient utilization of the DECT air interface and guarantees interoperability for a minimum set of services independently of the terminal application.

This ETS defines the requirements on the Physical, MAC, DLC and Network layers of DECT. This ETS also specifies management entity requirements and generic Interworking Conventions which ensure the efficient use of the DECT spectrum.

2 Normative references

This ETS incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to, or revisions of, any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 175-1: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
<https://standards.tech.ai/catalog/standards/sist/2/abdom/sis/300-175-1/994c-c976418e529d/sist-ets-300-755-2001>
- [2] ETS 300 175-2: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical layer (PHL)".
- [3] ETS 300 175-3: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
- [4] ETS 300 175-4: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
- [5] ETS 300 175-5: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [6] ETS 300 175-6: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
- [7] ETS 300 175-7: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".

Page 12
ETS 300 755: May 1997

- [8] ETS 300 175-8: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech coding and transmission".
- [9] ETS 300 175-9: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 9: Public Access Profile (PAP)".
- [10] ETS 300 444 (1995): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [11] ETS 300 435: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Data Services Profile (DSP); Base standard including interworking to connectionless networks (service types A and B, Class 1)".
- [12] ETR 185: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Data Services Profile (DSP); Profile overview".
- [13] ETS 300 651: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Generic data link service; Service type C, class 2".
- [14] ITU-T Recommendation T.30: "Procedures for document facsimile transmission in the general switched telephone network".
- [15] ITU-T Recommendation T.4: "Standardization of Group 3 facsimile apparatus for document transmission".
- [16] ITU-T Recommendation T.6: "Facsimile coding schemes and coding control functions for Group 4 facsimile apparatus".
- [17] ITU-T Recommendation T.50^{SIST ETS 300 755:2001}: "International Reference Alphabet (IRA) (Formerly International Alphabet No. 5 or 10A5)^{63.1} Information technology - 7-bit coded character set for information interchange".
- [18] ITU-T Recommendation T.100: "International information exchange for interactive videotex".
- [19] ITU-T Recommendation T.101: "International interworking for videotex services".
- [20] ITU-T Recommendation T.434: "Binary file transfer format for the telematic services".
- [21] ITU-T Recommendation T.505: "Document application profile PM-26 for the interchange of enhanced structure, mixed content documents in processable and formatted forms".
- [22] ITU-T Recommendation T.611: "Programming Communication Interface (PCI) APPLI/COM for facsimile Group 3, facsimile Group 4, teletex, telex, E-mail and file transfer services".
- [23] ETS 300 757: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Data services profile; Low rate messaging service; (Service type E, class 2)".
- [24] ETS 300 792: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications/Global System for Mobile communications (DECT/GSM); DECT/GSM interworking profile; Implementation of facsimile group 3".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the following definitions apply:

kbyte: 1 000 bytes.

Kbyte: 1 024 bytes.

mobility class 1: Local area applications, for which terminals are pre-registered off-air with one or more specific fixed parts, and establishment of service and user parameters is therefore implicit, according to a profile-defined list.

mobility class 2: Private and Public roaming applications for which terminals may move between fixed parts within a given domain and for which association of service parameters is explicit at the time of service request.

multiframe: A repeating sequence of 16 successive TDMA frames, that allows low rate or sporadic information to be multiplexed (e.g. basic system information or paging).

service type A: Low speed frame relay, with a net sustainable throughput of up to 24 kbits/s, optimized for bursty data, low power consumption and low complexity applications such as hand-portable equipment.

service type B: High performance frame relay, with a net sustainable throughput of up to 552 kbits/s, optimized for high speed and low latency with bursty data. Equipment implementation the Type B profile shall inter-operate with Type A equipment.

service type C: Non-transparent connection of data streams requiring Link Access Protocol (LAP) services, optimized for high reliability and low additional complexity. This builds upon the services offered by the type A or B profiles.

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service type E: A short message transfer or paging service which may be unacknowledged or acknowledged, optimized for small SDUs, low PP complexity and ultra-low power consumption.

service type F: An application profile specifically supporting teleservices such as facsimile, building upon the services offered by the type A/B and C profiles, optimized for terminal simplicity, spectrum efficiency and network flexibility.

TDMA frame: A time-division multiplex of 10 ms duration, containing 24 successive full slots. A TDMA frame starts with the first bit period of full slot 0 and ends with the last bit period of full slot 23.

For annex C, the following additional definitions apply:

MMS-message attributes: The message meta-information.

minimal MMS-message attributes: The message meta-information used in the request-to-send, etc.

tonal signalling: The "tonal signalling for facsimile procedure" as defined in clause 4 of ITU-T Recommendation T.30 [14].

binary coded signalling: The "binary coded signalling for facsimile procedure" as defined in clause 5 of ITU-T Recommendation T.30 [14].

Group 3 RT facsimile application: An MMS application (at the PP) which provides a real-time Group 3 facsimile application according to the rules and procedures specified in annex C of this ETS.

Group 3 RT facsimile IWU: An MMS IWU (in the FP) which provides real-time group 3 facsimile interworking according to the rules and procedures specified in annex C of this ETS.