SLOVENSKI STANDARD
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Digitalne izboljġane brezvrviļ ne telekomunikacije (DECT) - Profil podatkovnih storitev (DSP) - Storitev veļ predstavnostnega sporoļ anja s posebno pripravo za faksimile storitev (storitev tipa F, razred 2)

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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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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Foreword

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

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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".

[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".

[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: "International Reference Alphabet (IRA) (Formerly International Alphabet No. 5 or IA5) - 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.

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.