

SLOVENSKI STANDARD SIST EN 301 239:2000

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Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Isochronous data bearer services for closed user groups (service type D, mobility class 1)

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European Standard (Telecommunications series)

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Project Digital Enhanced Cordless Telecommunications (DECT).

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1 Scope

The present document specifies a profile for Digital Enhanced Cordless Telecommunications (DECT) systems conforming to EN 300 175, parts 1 to 7 [1] - [7]. It is part of a family of profiles aimed at the general connection of terminals supporting non-voice services to a fixed infra-structure, private and public.

The type D service, mobility class 1, as described in the ETR 185 [9], supports Isochronous Data Bearer Services (IDBSs) for Closed User Groups (CUGs) and is suitable for transparent transfer of isochronous data streams. It is intended for use in non-public applications. Video services and secure telephony services (end-to-end encrypted) over external networks can be considered as applications of IDBS.

Phase 1 of the present document defines an unprotected service offering an unrestricted digital 32 kbit/s data bearer service and an unprotected single bearer, multi-rate, rate adaptation service to interwork to synchronous ITU-T Recommendations V.series services.

Further phases of this profile may additionally provide multiple rate, multi-bearer support and error correction capability for services and applications requiring higher rates and high quality isochronous data transmission.

The present document specifies the requirements on the Physical (PHL) layer, Medium Access Control (MAC) layer, Data Link Control (DLC) layer and Network (NWK) layer of DECT. The standard also specifies Management Entity (ME) requirements and generic Interworking Conventions (IC).

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Normative references iTeh STANDARD PREVIEW

References may be made to:

- a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or SIST EN 301 239:200
- b) all versions up to and including the identified version (identified by "up to and including" before the version 9d45021971c7/sist-en-301-239-2000 identity); or
- c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or
- d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1]	EN 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
[2]	EN 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical layer (PHL)".
[3]	EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
[4]	EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
[5]	EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
[6]	EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
[7]	EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".

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[8]	EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
[9]	ETR 185: "Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Profile overview".
[10]	EN 301 238: "Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Isochronous data bearer services with roaming mobility (service type D, mobility class 2)".
[11]	CCITT Recommendation V.24 (1988): "List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)".
[12]	ITU-T Recommendation V.34: "A modem operating at data signalling rates of up to 33 600 bit/s for use on the general switched telephone network and on leased point-to-point 2-wire telephone-type circuits".
[13]	ITU-T Recommendation R.140: "Definitions of essential technical terms in the field of telegraph transmission".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following definitions apply:

a) the definitions in EN 300 444 [8]; and

b) the following terms:

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bearer service: A type of telecommunications service that provides the capability for the transmission of signals between user/network interfaces. For DECT systems, the Air (Radio) interface provides the bearer services between the DECT Fixed radio Termination (FT) and the DECT Portable radio Termination (PT).

isochronous: Pertaining to a signal or a time-varying phenomenon characterized by significant instants separated by time intervals having a duration theoretically equal to the duration of a unit interval or to an integral multiple of this duration (ITU-T Recommendation R.140 [13]).

mobility class 1: Closed user groups, for which terminals are pre-registered off-air with one or more specific Fixed Parts (FPs), 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 FPs within a given domain and for which association of service parameters is explicit at the time of service request.

service: A set of functions offered to a user by an organization.

synchronous transmission: Transmission using isochronous signals in which the sending and receiving instruments are operating continuously in a constant time difference between corresponding significant instants (ITU-T Recommendation R.140 [13]).

synchronous: The essential characteristics of time-scales or signals such that their corresponding significant instants occur at precisely the same average rate. (not in ITU-T Recommendation R.140 [13])

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AI Air Interface

ARI Access Rights Identity
C higher layer control Channel

CC Call Control

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C-plane Control plane

higher layer signalling Channel (slow) Cs

CUG Closed User Group

DCE Data Circuit-terminating Equipment

Digital Enhanced Cordless Telecommunications **DECT**

DECT Independent Clocking DIC

Data Link Control DLC Data Services Profile DSP DTE **Data Terminal Equipment**

FP Fixed Part

FT Fixed radio Termination GAP Generic Access Profile

Global System for Mobile communication **GSM**

higher layer Information channel I IC **Interworking Conventions** Isochronous Data Bearer Service **IDBS IPUI** International Portable User Identity **ISDN** Integrated Services Digital Network

IWF Interworking Functions IWP Interworking Profile Interworking Unit IWU

LAP-B Link Access Procedure (Balanced) LAP-C Link Access Procedure (Control) a DLC layer C-plane protocol entity Lb a DLC layer C-plane protocol entity Lc

Medium Access Control MAC

Management Entity TANDARD PREVIEW ME

NetWorK **NWK**

(standards.iteh.ai) PHysicaL PHL

Protocol Implementation Conformance Statement **PICS** PP Portable Part SIST EN 301 239:2000

Portable radio Termination catalog/standards/sist/84fbbe0a-ff3a-4621-9c3c-PT

Terminal Adaptation Function 71c7/sist-en-301-239-2000 TAF

U-plane User plane

4 Description of services

4.1 Reference configuration

The reference configuration for this profile shall be as shown in figure 1.

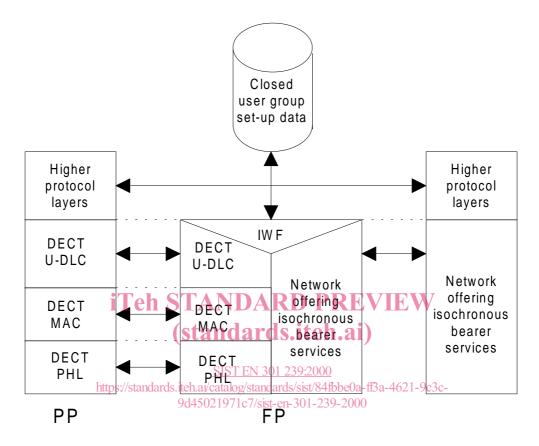


Figure 1: Profile reference configuration showing interworking to a network via the DECT U-plane (only)

4.2 Service objectives

4.2.1 General

The general service objectives for data service profiles with mobility class 1 are described in subclause 6.2.2 of ETR 185 [9].

The specific U-plane service objectives of this profile are listed in subclauses 4.2.2 and 4.2.3. There are no requirements or service objectives in relation to the C-plane.