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]bhY[f]fUb]a]'ghcf]hj Ua]'fIG8 BL!'A YXgYVc'bc'XY'cj Ub^Y'8 97 H#G8 B'nU]j a YgbY
g]ghYa Y!'A YXgYVc'bc'XY'cj Ub^Y]b'dfcZ]'gdYVWZ_UMf^

Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); DECT/ISDN interworking for intermediate system configuration; Interworking and profile specification

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Interworking and profile specification**

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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).

Transposition dates	
Date of adoption of this ETS:	20 March 1998
Date of latest announcement of this ETS (doa):	31 July 1998
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 January 1999
Date of withdrawal of any conflicting National Standard (dow):	31 January 1999

Introduction

For interworking between an Integrated Services Digital Network (ISDN) and a DECT system, two profiles have been defined. The first profile is the DECT/ISDN profile for end system configuration. The second profile is the DECT/ISDN profile for intermediate system configuration. The first profile is also called the "ISDN Access Profile (IAP)". The second profile is also called the "Intermediate ISDN access Profile (IIP)".

The IAP applies when a Fixed Part (FP) and a Portable Part (PP) together constitute an ISDN terminal. The ISDN applications and any supplementary services are located in the PP (no Interworking Unit (IWU) in the PP). The FP maps the received layer 3 messages at the ISDN interface to the DECT layer 3 messages and vice-versa.

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The IIP applies when a FP and a PP together constitute a gateway between an ISDN network and an ISDN terminal. The FP and the PP have an IWU, which maps the messages between the ISDN interface and the DECT air interface.

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This ETS specifies the DECT/ISDN profile for intermediate system configuration only. For details on DECT/ISDN profile for end system configuration, see EN 300 434-1 [28].

This ETS specifies how ISDN services are provided over the DECT air interface.

One of the main objectives is to describe how the ISDN services are mapped across the DECT air interface in a formal way, so that equipment interoperability of different manufacturers' equipment can be achieved.

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1 Scope

This European Telecommunication Standard (ETS) specifies how Integrated Services Digital Network (ISDN) services can be provided over Digital Enhanced Cordless Telecommunications (DECT). It is based on DECT Common Interface (CI) specification EN 300 175, parts 1 to 8 [1] to [8], to enable ISDN terminals to have cordless access to an ISDN infrastructure. Both public ISDN and private ISDN are within the scope of this ETS.

The user has transparent access to the ISDN services and functions. In respect to bearer services, the following are supported: speech, 3,1 kHz audio, unrestricted 64 kbit/s data, packet data and user signalling bearer service.

The DECT intermediate system configuration differs from the DECT end system configuration as follows. The intermediate system is used to enable ISDN terminals to have cordless access to an ISDN infrastructure via a DECT air interface. The end system is used where the DECT Fixed Part (FP) and the DECT Portable Part (PP) together form an end system with the behaviour of an ISDN Terminal Equipment (TE).

2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These 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] 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".
- [8] EN 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech coding and transmission".
- [9] ETS 300 108: "Integrated Services Digital Network (ISDN); Circuit-mode 64 kbit/s unrestricted 8 kHz structured bearer service category; Service description".
- [10] ETS 300 109: "Integrated Services Digital Network (ISDN); Circuit-mode 64 kbit/s 8 kHz structured bearer service category usable for speech information transfer Service description".
- [11] ETS 300 110: "Integrated Services Digital Network (ISDN); Circuit-mode 64 kbit/s 8 kHz structured bearer service category usable for 3,1 kHz audio information transfer Service description".

- [12] ETS 300 475-1: "Private Telecommunication Network (PTN); Reference configuration; Part 1: Reference configuration for PTN eXchanges (PTNX) [ISO/IEC 11579-1 (1994), modified]".
- [13] ETS 300 012: "Integrated Services Digital Network (ISDN); Basic user-network interface; Layer 1 specification and test principles".
- [14] EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [15] EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [16] ETS 300 192: "Private Telecommunication Network (PTN); Signalling protocol at the S-reference point; Circuit mode basic services".
- [17] EN 300 171: "Private Integrated Services Network (PISN); Specification, functional models and information flows; Control aspects of circuit mode basic services".
- [18] CCITT Recommendation I.232.1 (1988): "Virtual call and permanent virtual circuit bearer service category".
- [19] ETS 300 049: "Integrated Services Digital Network (ISDN); ISDN Packet Mode Bearer Service (PMBS); ISDN Virtual Call (VC) and Permanent Virtual Circuit (PVC) bearer services provided by the D-channel of the user access - basic and primary rate".
- [20] ETS 300 048: "Integrated Services Digital Network (ISDN); ISDN Packet Mode Bearer Services (PMBS); ISDN Virtual Call (VC) and Permanent Virtual Circuit (PVC) bearer services provided by the B-channel of the user access - basic and primary rate".
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- [21] EN 300 196-1: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [22] ETS 300 402-2: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".
- [23] CCITT Recommendation G.711 (1988): "Pulse code modulation (PCM) of voice frequencies".
- [24] CCITT Recommendation G.726 (1991): "40, 32, 24, 16 kbit/s adaptive differential pulse code modulation (ADPCM)".
- [25] ECMA TR/44 (1989): "An architectural framework for private networks".
- [26] CCITT Recommendation G.821 (1988): "Error performance of an international digital connection operating at a bit rate below the primary rate and forming part of an integrated services digital network".
- [27] ITU-T Recommendation I.411: (1993): "ISDN user-network interfaces - Reference configurations".
- [28] EN 300 434-1: "Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); DECT/ISDN interworking for end system configuration; Part 1: Interworking specification".

3 Definitions and abbreviations

3.1 Definitions

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

bearer service: A type of telecommunication service that provides a defined capability for the transmission of signals between user-network interfaces.

NOTE 1: The DECT user-network interface corresponds to the top of the network layer (layer 3).

broadcast: A simplex point-to-multipoint mode of transmission.

C-plane: The control plane of the DECT protocol stacks, which contains all of the internal DECT protocol control, but may also include some external user information.

NOTE 2: The C-plane stack always contains protocol entities up to and including the network layer.

call: All of the Network (NWK) layer processes involved in one network layer peer-to-peer association.

NOTE 3: Call may sometimes be used to refer to processes of all layers, since lower layer processes are implicitly required.

DECT intermediate fixed system: A logical grouping that contains all the functions between the DECT DI reference point and the reference point on the fixed side of the DECT air interface.

NOTE 4: The DECT Intermediate Fixed System (DIFS) = FT + (local network up to the fixed side ISDN reference point (including fixed side IWU));

DECT intermediate portable system: A logical grouping that contains all the functions between the DECT DI reference point and the ISDN S reference point on the portable side of the DECT air interface.

NOTE 5: The DECT Intermediate Portable System (DIPS) = PT + (PA (Portable Application) up to the portable side ISDN S reference point (including portable side IWU)).

DECT network: A network that uses the DECT air interface to interconnect a local network to one or more portable applications. The logical boundaries of the DECT network are defined to be at the top of the DECT network layer.

NOTE 6: A DECT Network (DNW) is a logical grouping that contains one or more fixed radio terminations plus their associated portable radio termination. The boundaries of the DECT network are not physical boundaries.

end system: A logical grouping that contains application processes and supports telecommunication services.

NOTE 7: From the Open Systems Interconnection (OSI) point of view, end systems are considered as sources and sinks of information.

equipment interoperability: The capability of fixed and PPs supplied by different manufacturers to interoperate in a multivendor environment.

Fixed Part (DECT Fixed Part) (FP): A physical grouping that contains all of the elements in the DECT network between the local network and the DECT air interface.

NOTE 8: A DECT FP contains the logical elements of at least one fixed radio termination, plus additional implementation specific elements.

Fixed radio Termination (FT): A logical group of functions that contains all of the DECT processes and procedures on the fixed side of the DECT air interface.