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Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); DECT/ISDN interworking for end system configuration; Part 1: Interworking specification

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Foreword

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

Details of the Digital Enhanced Cordless Telecommunications (DECT) Common Interface (CI) may be found in EN 300 175 (parts 1 [1] to 9 [9]).

Further details of the DECT system may be found in ETR 043 [51], and TR 101 178 [53].

The present document is part 1 of a multi-part deliverable covering the Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN) interworking for end system configuration, as identified below:

**Part 1: "Interworking specification";
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Part 2: "Access profile".

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Introduction

The present document specifies how Integrated Services Digital Network (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 inter-operability of different manufacturers' equipment can be achieved. This is achieved by describing the Interworking Unit (IWU) procedures and mappings loosely following ITU-T Recommendations Q.601 to Q.699 [67] and by describing air interface protocols.

The present document is made up of 3 main clauses:

- clause 4: Interworking requirements which includes the reference configurations and the protocol architecture model and a description of the main service requirements;
- clause 5: IWU mappings which shows the C-plane and U-plane mappings. The signalling mappings are first described in terms of IWU procedures with informative data flow diagrams. Detailed descriptions follow using tables of what is mapped, what is ignored, and what is "piped";
- clause 6: Support of ISDN bearer services which identifies the main DECT connection types (U-plane + C-plane) at the air interface supporting optimized groups of services, from the IWU mappings.

Part 2 of the present document contains the ISDN Access Profile (IAP) for the end system and describes the air interface protocol in detail. It will enable the subsequent generation of Protocol Implementation Conformance Statements (PICS) and test cases.

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1 Scope

The present document specifies how Integrated Services Digital Network (ISDN) services may be provided over Digital Enhanced Cordless Telecommunications (DECT) endsystem configurations. Apparatus claiming interoperability based upon the ISDN Access Profile (IAP) shall fully comply with the process mandatory technical requirements and those for optional features so far such are provided. Both public ISDN and private ISDN are within the scope of the present document.

An IAP is specified, defining how particular ISDN services are supported, so that inter-operability of DECT equipment can be achieved at the air interface for these services. Apparatus claiming the provision of any service feature listed in the present document should comply with the corresponding process mandatory technical requirements.

The following ISDN bearer services are covered:

- speech;
- 3,1 kHz audio; and
- unrestricted digital information 64 kbit/s.

Applications using these bearer services are outside the scope of the present document. However, such applications envisaged include 3,1 kHz telephony, 7 kHz telephony, group 4 fax, teletex, videotex, and voice-band data transmission such as group 3 fax and modem data transmission.

The bearer service "packet mode" is outside the scope of the present document.

The support of ISDN supplementary services is considered.

The DECT end system reference configuration is used where the DECT Fixed System (DFS) and DECT Portable System (DPS) together form an end system with the behaviour of an ISDN Terminal Equipment (ISDN-TE).

Mobility Management (MM) such as location registration, and subscription registration is outside the scope of the present document.

<https://standards.iteh.ai/catalog/standards/sist/983d9d03-77dc-4ce1-bb26-087bd9766e87/sist-en-300-434-1-v1-2-1-2003>

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
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