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Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile (IWP); General description of service requirements; Functional capabilities and information flows

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European Standard (Telecommunications series)

**Digital Enhanced Cordless Telecommunications (DECT);
Global System for Mobile communications (GSM);
DECT/GSM Interworking Profile (IWP);
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Foreword

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

National transposition dates	
Date of adoption of this EN:	12 January 2001
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1 Scope

The present document is a part of the Digital European Cordless Telecommunications/Global System for Mobile Communications (DECT/GSM) interworking profile and specifies requirements needed to ensure that GSM basic services can be provided over the DECT air interface.

To enable DECT terminals to inter-work with DECT systems which are connected to the GSM infrastructure, the present document specifies the additions to the GAP specification, EN 300 444 [12] on which this profile is based. The additions are based on the DECT Common Interface specification given in EN 300 175-1 [2] to EN 300 175-8 [9].

From the GSM side the present document assumes interworking with GSM Public Land Mobile Network (PLMN) phase 2. Interworking with GSM Phase 1 is outside the scope of the present document.

Interworking requirements are based upon Mobile Switching Centre (MSC) attachment for the DECT Fixed Part (FP) as the FP is using the A-interface towards the GSM MSC in the respect that the FP emulates a GSM Base Station Controller (BSC) with regards to the GSM messages which are relevant to the present document. The complete interface used between the DECT FP and the GSM MSC is specified in ETS 300 499 [13]. Attachment via other interfaces to GSM-networks is outside the scope of the present document.

The DECT access protocols and FP and Portable Part (PP) interworking/mappings necessary for the support of basic voice telephony service are specified in EN 300 370 [11]. The interworking/mappings and access requirements for the support of other services of the present document, will be included in future standards of the DECT/GSM interworking profile.

The whole set of GSM services according to GSM Phase 2 is supported unless it is explicitly stated in the following clauses of the present document.

The DECT PP has to accept the GSM Subscriber Identification Module (SIM) as well as the DECT Authentication Module (DAM), with a GSM application. The functional separation of the DECT/GSM interworking among DECT FP and PP allows for terminal portability. All roaming scenarios based on SIM roaming as described in GSM specifications are applicable. Additionally subscribers using a SIM or DAM with GSM application in conjunction with a DECT PP, capable of DECT GSM interworking may also roam among FPs connected to different GSM networks.

Handover among DECT radio access systems and GSM radio access systems as well as handover among DECT cells connected to different Common Control Fixed Parts (CCFPs), which are individually linked to a MSC, is outside the scope of the present document.

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, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, 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] ETSI ETS 300 133-2: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Enhanced Radio MESSAGE System (ERMES); Part 2: Service aspects".
- [2] ETSI EN 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
- [3] ETSI EN 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer (PHL)".

- [4] ETSI EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) Layer".
- [5] ETSI EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) Layer".
- [6] ETSI EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) Layer".
- [7] ETSI EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and Addressing".
- [8] ETSI EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security Features".
- [9] ETSI EN 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech Coding and Transmission".
- [10] ETSI EN 300 176: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification".
- [11] ETSI EN 300 370: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile (IWP); Access and mapping (protocol/procedure description for 3,1 kHz speech service)".
- [12] ETSI EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [13] ETSI EN 300 499: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile (IWP); Mobile services Switching Centre (MSC) - Fixed Part (FP) interconnection".
- [14] ETSI EN 300 501: "European digital cellular telecommunications system (Phase 2); Bearer Services (BS) supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.02)".
- [15] ETSI EN 300 502: "European digital cellular telecommunications system (Phase 2); Teleservices supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.03)".
- [16] ETSI EN 300 503: "Digital cellular telecommunications system (Phase 2); General on supplementary services (GSM 02.04)".
- [17] ETSI EN 300 505: "Digital cellular telecommunications system (Phase 2); Mobile Station (MS) features (GSM 02.07 version 4.8.2)".
- [18] ETSI EN 300 507: "Digital cellular telecommunications system (Phase 2); Service accessibility (GSM 02.11)".
- [19] ETSI EN 300 508: "Digital cellular telecommunications system (Phase 2); International Mobile station Equipment Identities (IMEI) (GSM 02.16 version 4.7.0)".
- [20] ETSI EN 300 509: "European digital cellular telecommunications system (Phase 2); Subscriber Identity Module (SIM); Functional characteristics (GSM 02.17)".
- [21] ETSI EN 300 510: "Digital cellular telecommunications system (Phase 2); Description of Charge Advice Information (CAI) (GSM 02.24)".
- [22] ETSI EN 300 511: "European digital cellular telecommunications system (Phase 2); Man-Machine Interface (MMI) of the Mobile Station (MS) (GSM 02.30)".
- [23] ETSI EN 300 512: "Digital cellular telecommunications system (Phase 2); Procedures for call progress indications (GSM 02.40)".
- [24] ETSI EN 300 514: "Digital cellular telecommunications system (Phase 2); Line identification supplementary services; Stage 1 (GSM 02.81 version 4.6.1)".

- [25] ETSI ETS 300 515: "Digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services; Stage 1 (GSM 02.82)".
- [26] ETSI ETS 300 516: "Digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1 (GSM 02.83)".
- [27] ETSI ETS 300 517: "Digital cellular telecommunications system (Phase 2); Multi Party (MPTY) supplementary services; Stage 1 (GSM 02.84)".
- [28] ETSI ETS 300 518: "Digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services; Stage 1 (GSM 02.85)".
- [29] ETSI ETS 300 519: "Digital cellular telecommunications system (Phase 2); Advice of Charge (AoC) supplementary services; Stage 1 (GSM 02.86)".
- [30] ETSI ETS 300 520: "Digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services; Stage 1 (GSM 02.88)".
- [31] ETSI ETS 300 521: "European digital cellular telecommunications system (Phase 2); Network functions (GSM 03.01)".
- [32] ETSI ETS 300 527: "Digital cellular telecommunications system (Phase 2); Handover procedures (GSM 03.09)".
- [33] ETSI ETS 300 529: "Digital cellular telecommunications system (Phase 2); Technical realization of supplementary services (GSM 03.11)".
- [34] ETSI ETS 300 530: "European digital cellular telecommunications system (Phase 2); Location registration procedures (GSM 03.12)".
- [35] ETSI ETS 300 532: "European digital cellular telecommunications system (Phase 2); Support of Dual Tone Multi-Frequency signalling (DTMF) via the GSM system (GSM 03.14)".
- [36] ETSI ETS 300 542: "Digital cellular telecommunications system (Phase 2); Line identification supplementary services; Stage 2 (GSM 03.81 version 4.8.1)".
- [37] ETSI ETS 300 543: "Digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services; Stage 2 (GSM 03.82)".
- [38] ETSI ETS 300 544: "European digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 2 (GSM 03.83)".
- [39] ETSI ETS 300 545: "European digital cellular telecommunications system (Phase 2); Multi Party (MPTY) supplementary services; Stage 2 (GSM 03.84)".
- [40] ETSI ETS 300 546: "Digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services; Stage 2 (GSM 03.85)".
- [41] ETSI ETS 300 547: "European digital cellular telecommunications system (Phase 2); Advice of Charge (AoC) supplementary services - Stage 2 (GSM 03.86)".
- [42] ETSI ETS 300 548: "European digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services; Stage 2 (GSM 03.88)".
- [43] ETSI ETS 300 549: "Digital cellular telecommunications system (Phase 2); Unstructured Supplementary Service Data (USSD); Stage 2 (GSM 03.90)".
- [44] ETSI ETS 300 557: "Digital cellular telecommunications system (Phase 2); Mobile radio interface; Layer 3 specification (GSM 04.08 version 4.23.1)".
- [45] ETSI ETS 300 558: "Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3; Supplementary services specification; General aspects (GSM 04.10)".
- [46] ETSI ETS 300 564: "Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3; Supplementary services specification; Formats and coding (GSM 04.80)".

- [47] ETSI ETS 300 578: "Digital cellular telecommunications system (Phase 2); Radio subsystem link control (GSM 05.08 version 4.22.0)".
- [48] ETSI EN 300 607: "Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification (GSM 11.10 version 7.1.1 Release 1998)".
- [49] ETSI ETS 300 608: "Digital cellular telecommunications system (Phase 2); Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (GSM 11.11 version 4.21.1)".
- [50] ETSI ETS 300 625: "Digital cellular telecommunications system (Phase 2); Unstructured Supplementary Service Data (USSD); Stage 1 (GSM 02.90 version 4.1.1)".
- [51] ETSI ETS 300 702: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile (IWP)".
- [52] ETSI EN 300 703: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile (IWP); GSM Phase 2 supplementary services implementation".
- [53] ETSI ETS 300 704-1: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications/Global System for Mobile communications (DECT/GSM) Interworking Profile (IWP); Profile Implementation Conformance Statement (ICS); Part 1: Portable radio Termination (PT)".
- [54] ETSI ETS 300 704-2: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile (IWP); Profile Implementation Conformance Statement (ICS)".
- [55] ETSI ETS 300 756: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile (IWP); Implementation of bearer services".
- [56] ETSI ETS 300 764: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile (IWP); Implementation of short message service, point-to-point and cell broadcast".
- [57] ETSI ETS 300 792: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile (IWP); Implementation of facsimile group 3".
- [58] ETSI ETR 015: "Digital Enhanced Cordless Telecommunications (DECT); Reference document".
- [59] ETSI ETR 043: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Services and facilities requirements specification".
- [60] ETSI ETR 056: "Digital Enhanced Cordless Telecommunications (DECT); System description document".
- [61] ETSI TBR 10: "Digital Enhanced Cordless Telecommunications (DECT); General Terminal Attachment Requirements; Telephony Applications".
- [62] ETSI TBR 6: "Digital Enhanced Cordless Telecommunications (DECT); General terminal attachment requirements".
- [63] ISO Publication 8859-7: "Information processing - 8-bit single-byte coded graphic character sets - Part 7: Latin/Greek alphabet".