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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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33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)

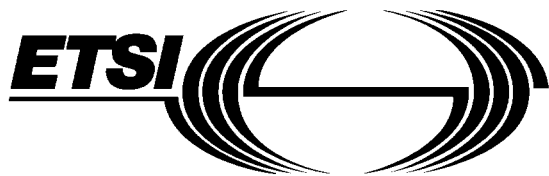
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Foreword

This European Telecommunication Standard (ETS) has been produced by the Radio Equipment and Systems (RES) Technical Committee of the European Telecommunications Standards Institute (ETSI).

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1 Scope

This European Telecommunication Standard (ETS) 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, this ETS specifies the additions to the GAP specification, ETS 300 444 [12] on which this profile is based. The additions are based on the DECT Common Interface specification given in ETS 300 175, parts 1 to 8 [2] to [9].

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

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 this ETS. 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 this ETS.

The DECT access protocols and FP and Portable Part (PP) interworking/mappings necessary for the support of basic voice telephony service are specified in ETS 300 370 [11]. The interworking/mappings and access requirements for the support of other services of this ETS, 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 this ETS.

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 this ETS.

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 300 133-2: "Radio Equipment and Systems (RES); European Radio Message System (ERMES); Part 2: Service aspects".
- [2] ETS 300 175-1: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
- [3] ETS 300 175-2: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer".
- [4] ETS 300 175-3: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
- [5] ETS 300 175-4: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
- [6] ETS 300 175-5: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [7] ETS 300 175-6: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
- [8] ETS 300 175-7: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".
- [9] ETS 300 175-8: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech coding and transmission".
- [10] I-ETS 300 176: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Approval test specification".
- [11] ETS 300 370: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications/Global System for Mobile communications (DECT/GSM) inter-working profile; Access and mapping (Protocol/procedure description for 3,1 kHz speech service)".
- [12] ETS 300 444: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [13] ETS 300 499: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications/Global System for Mobile Communications (DECT/GSM) interworking profile; Mobile services Switching Centre (MSC) - Fixed Part (FP) interconnection".
- [14] ETS 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] ETS 300 502: "European digital cellular telecommunications system (Phase 2); Teleservices supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.03)".
- [16] ETS 300 503: "Digital cellular telecommunications system (Phase 2); General on supplementary services (GSM 02.04)".
- [17] ETS 300 505: "Digital cellular telecommunications system (Phase 2); Mobile Stations (MS) features (GSM 02.07)".
- [18] ETS 300 507: "Digital cellular telecommunications system (Phase 2); Service accessibility (GSM 02.11)".
- [19] ETS 300 508: "European digital cellular telecommunications system (Phase 2); International Mobile station Equipment Identities (IMEI) (GSM 02.16)".
- [20] ETS 300 509: "European digital cellular telecommunications system (Phase 2); Subscriber Identity Modules (SIM) Functional characteristics (GSM 02.17)".
- [21] ETS 300 510: "Digital cellular telecommunications system (Phase 2); Description of Charge Advice Information (CAI) (GSM 02.24)".
- [22] ETS 300 511: "European digital cellular telecommunications system (Phase 2); Man-Machine Interface (MMI) of the Mobile Station (MS) (GSM 02.30)".
- [23] ETS 300 512: "Digital cellular telecommunications system (Phase 2); Procedure for call progress indications (GSM 02.40)".
- [24] ETS 300 514: "Digital cellular telecommunications system (Phase 2); Line identification supplementary services - Stage 1 (GSM 02.81)".
- [25] ETS 300 515: "Digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services - Stage 1 (GSM 02.82)".
- [26] ETS 300 516: "Digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Holding (HOLD) supplementary services - Stage 1 (GSM 02.83)".
- [27] ETS 300 517: "Digital cellular telecommunications system (Phase 2); MultiParty (MPTY) supplementary services - Stage 1 (GSM 02.84)".
- [28] ETS 300 518: "Digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services - Stage 1 (GSM 02.85)".
- [29] ETS 300 519: "European digital cellular telecommunications system (Phase 2); Advice of Charge (AoC) supplementary services - Stage 1 (GSM 02.86)".
- [30] ETS 300 520: "Digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services - Stage 1 (GSM 02.88)".
- [31] ETS 300 521: "European digital cellular telecommunications system (Phase 2); Network functions (GSM 03.01)".
- [32] ETS 300 527: "Digital cellular telecommunications system (Phase 2); Handover procedures (GSM 03.09)".
- [33] ETS 300 529: "European digital cellular telecommunications system (Phase 2); Technical realization of supplementary services (GSM 03.11)".
- [34] ETS 300 530: "European digital cellular telecommunications system (Phase 2); Location registration procedures (GSM 03.12)".