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; GA`ZUhU&`nj YXVUXcdc`b]`b]`glcf]Hj

Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile (IWP); GSM Phase 2 supplementary services implementation

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European Standard (Telecommunications series)

**Digital Enhanced Cordless Telecommunications (DECT);
Global System for Mobile communications (GSM);
DECT/GSM Interworking Profile (IWP);
GSM Phase 2 supplementary services implementation**

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Foreword

This European Standard (EN) has been produced by ETSI Project Digital Enhanced Cordless Telecommunications (DECT) in co-operation with the ETSI Technical Committee Global System for Mobile communications (GSM).

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Introduction

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The present document is a part of a set of standards for the Digital Enhanced Cordless Telecommunications / Global System for Mobile communications (DECT/GSM) Interworking Profile (IWP) concept that includes:

- general description of service requirements, functional capabilities and information flows, (ETS 300 466 [13]);
- access and mapping (protocol/procedure description for 3,1 kHz speech service), (ETS 300 370 [11]);
- GSM-MSC/DECT-FP Fixed Interconnection, (ETS 300 499 [14]);
- **GSM Phase 2 supplementary services implementation, (the present document);**
- short message services, point to point and cell broadcast, (ETS 300 764 [51]);
- implementation of bearer services, (ETS 300 756 [50]);
- implementation of facsimile group 3, (ETS 300 792 [52]).

The present document is based on Digital Enhanced Cordless Telecommunications (DECT) Common Interface (CI) specification ETS 300 175, parts 1 to 8 [1] to [8] to enable DECT terminals to inter-work in the public and private environment with DECT systems which are connected to a Global System for Mobile communications (GSM) core infrastructure.

In addition, the present document is based on ETS 300 444 [12] to enable the same DECT/GSM terminal to inter-work with a DECT Fixed Part (FP) complying to the Generic Access Profile (GAP) requirements, irrespective of whether this FP provides residential, business or public access services. General attachment requirements and speech attachment requirements are based on TBR 6 [53] and TBR 10 [54].

Further details on the DECT system may be found in ETR 015 [55], ETR 043 [56], and ETR 056 [57], ETS 300 176-1 [9] and ETS 300 176-2 [10].

The present document is based upon ETS 300 557 [38] (GSM 04.08), ETS 300 565 to ETS 300 572 [41] to [48] (GSM 04.8x and GSM 04.90) and ETS 300 370 [11].

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1 Scope

The present document specifies the interworking procedures and mappings necessary to ensure that Global System for Mobile communication (GSM) Phase 2 supplementary services can be provided over Digital Enhanced Cordless Telecommunications (DECT), as specified in ETS 300 466 [13]. To enable DECT terminals to interwork with DECT systems which are connected to the GSM infrastructure, the DECT access protocols and Fixed Part (FP) and Portable Part (PP) interworking and mappings are specified for Mobile Switching Centre (MSC) attachment of the DECT FP.

In the present document, the general aspects relevant for interworking are given, together with the interworking procedures and mappings used at the DECT radio interface for registration, erasure, activation, deactivation, invocation and interrogation of supplementary services. Provision and withdrawal of supplementary services is an administrative matter between the DECT subscriber attached to the GSM network, and the service provider and causes no signalling on the radio interface.

Under the aspects of interworking, definitions and descriptions of supplementary services are given in ETS 300 466 [13]. The present document covers the additions to the interworking and mappings in ETS 300 370 [11] for the DECT FP and PP, to ensure that GSM supplementary services can be provided over the DECT air interface.

2 References

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
- b) all versions up to and including the identified version (identified by "up to and including" before the version 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.

2.1 Normative references

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

- [8] ETS 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech coding and transmission".
- [9] ETS 300 176-1: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification; Part 1: Radio".
- [10] ETS 300 176-2: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification; Part 2: Speech".
- [11] ETS 300 370: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); Interworking Profile(IWP); Access and mapping (Protocol/procedure description for 3,1 kHz speech service)".
- [12] ETS 300 444 (1995): "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [13] ETS 300 466: "Digital Enhanced Cordless Telecommunications(DECT); Global System for Mobile Communications (GSM); Interworking Profile (IWP); General description of service requirements; Functional capabilities and information flows".
- [14] ETS 300 499: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile Communications (GSM); Interworking Profile (IWP); Mobile services Switching Centre (MSC) - Fixed Part (FP) interconnection".
- [15] ETS 300 500: "Digital cellular telecommunications system (Phase 2); Principles of telecommunication services supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.01)".
- [16] ETS 300 502: "European digital cellular telecommunications system (Phase 2); Teleservices supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.03)".
- [17] ETS 300 503: "Digital cellular telecommunications system (Phase 2); General on supplementary services (GSM 02.04)".
- [18] ETS 300 510: "Digital cellular telecommunications system (Phase 2); Description of Charge Advice Information (CAI) (GSM 02.24)".
- [19] ETS 300 511: "European digital cellular telecommunications system (Phase 2); Man-Machine Interface (MMI) of the Mobile Station (MS) (GSM 02.30)".
- [20] ETS 300 514: "Digital cellular telecommunications system (Phase 2); Line identification supplementary services - Stage 1 (GSM 02.81)".
- [21] ETS 300 515: "Digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services - Stage 1 (GSM 02.82)".
- [22] ETS 300 516: "Digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Holding (HOLD) supplementary services - Stage 1 (GSM 02.83)".
- [23] ETS 300 517: "Digital cellular telecommunication system (Phase 2); MultiParty (MPTY) supplementary services - Stage 1 (GSM 02.84)".
- [24] ETS 300 518: "Digital cellular telecommunication system (Phase 2); Closed User Group (CUG) supplementary services - Stage 1 (GSM 02.85)".
- [25] ETS 300 519: "Digital cellular telecommunication system (Phase 2); Advice of charge (AoC) supplementary services - Stage 1 (GSM 02.86)".
- [26] ETS 300 520: "Digital cellular telecommunication system (Phase 2); Call Barring (CB) supplementary services - Stage 1 (GSM 02.88)".
- [27] ETS 300 625: "European digital cellular telecommunications system (Phase 2); Stage 1 description of Unstructured Supplementary Service Data (USSD) (GSM 02.90)".

- [28] ETS 300 522: "Digital cellular telecommunications system (Phase 2); Network architecture (GSM 03.02)".
- [29] ETS 300 542: "Digital cellular communications system (Phase 2); Line identification supplementary services - Stage 2 (GSM 03.81)".
- [30] ETS 300 543: "Digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services - Stage 2 (GSM 03.82)".
- [31] ETS 300 544: "European digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Hold (HOLD) supplementary services - Stage 2 (GSM 03.83)".
- [32] ETS 300 545: "European digital cellular telecommunications system (Phase 2); Multi Party (MPTY) supplementary services - Stage 2 (GSM 03.84)".
- [33] ETS 300 546: "Digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services - Stage 2 (GSM 03.85)".
- [34] ETS 300 547 "European digital cellular telecommunications system (Phase 2); Advice of Charge (AoC) supplementary services - Stage 2 (GSM 03.86)".
- [35] ETS 300 548: "European digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services - Stage 2 (GSM 03.88)".
- [36] ETS 300 549: "Digital cellular telecommunications system (Phase 2); Unstructured Supplementary Service Data (USSD) - Stage 2 (GSM 03.90)".
- [37] ETS 300 551: "European digital cellular telecommunications system (Phase 2); GSM Public Land Mobile Network (PLMN)-access reference configuration (GSM 04.02)".
- [38] ETS 300 557: "Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3 specification (GSM 04.08)".
- [39] ETS 300 558: "Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3 Supplementary services specification General aspects (GSM 04.10)".
- [40] ETS 300 564: "Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3 Supplementary services specification Formats and coding (GSM 04.80)".
- [41] ETS 300 565: "European digital cellular telecommunications system (Phase 2); Line identification supplementary services - Stage 3 (GSM 04.81)".
- [42] ETS 300 566: "Digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services - Stage 3 (GSM 04.82)".
- [43] ETS 300 567: "Digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Hold (HOLD) supplementary services - Stage 3 (GSM 04.83)".
- [44] ETS 300 568: "European digital cellular telecommunications system (Phase 2); Multi Party (MPTY) supplementary service - Stage 3 (GSM 04.84)".
- [45] ETS 300 569: "Digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services - Stage 3 (GSM 04.85)".
- [46] ETS 300 570: "European digital cellular telecommunications system (Phase 2); Advice of Charge (AoC) supplementary services - Stage 3 (GSM 04.86)".
- [47] ETS 300 571: "Digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services - Stage 3 (GSM 04.88)".
- [48] ETS 300 572: "European digital cellular telecommunications system (Phase 2); Unstructured Supplementary Service Data (USSD) - Stage 3 (GSM 04.90)".
- [49] ETS 300 599: "Digital cellular telecommunications system (Phase 2); Mobile Application Part (MAP) specification (GSM 09.02)".

- [50] ETS 300 756: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); Interworking Profile (IWP); Implementation of bearer services".
- [51] ETS 300 764: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); Interworking Profile (IWP); DECT/GSM Implementation of short message service, point-to-point and cell broadcast".
- [52] ETS 300 792: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile(IWP); Implementation of facsimile group 3".
- [53] TBR 6: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); General terminal attachment requirements".
- [54] TBR 10: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); General terminal attachment requirements; Telephony applications".
- [55] ETR 015: "Digital Enhanced Cordless Telecommunications (DECT); Reference document".
- [56] ETR 043: "Digital Enhanced Cordless Telecommunications (DECT); Common interface; Services and facilities requirements specification".
- [57] ETR 056: "Digital Enhanced Cordless Telecommunications (DECT); System description document".
- [58] 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)".
- [59] DEN/DECT-020087: "Digital Enhanced Cordless Telecommunications (DECT); Dynamic multimedia service change on the DECT access interface".
- [60] ISO/IEC 9646-Parts 1 and 6: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 6: Protocol profile test specification".

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2.2 Informative references

- [61] ETS 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3 Specifications for basic call control".
- [62] ETS 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".
- [63] ETS 300 435: "Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Base standard including interworking to connectionless networks (service types A and B, Class 1)".
- [64] 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)".
- [65] ETS 300 512: "Digital cellular telecommunications system (Phase 2); Procedure for call progress indications (GSM 02.40)".
- [66] ETS 300 529: "Digital cellular telecommunications system (Phase 2); Technical realization of supplementary services (GSM 03.11)".
- [67] ETS 300 562: "European digital cellular telecommunications system (Phase 2); Rate adaption on the Mobile Station - Base Station System (MS - BSS) Interface (GSM 04.21)".
- [68] ETS 300 590: "Digital cellular telecommunications system (Phase 2); Mobile-services Switching Centre - Base Station System (MSC - BSS) interface Layer 3 specification (GSM 08.08)".
- [69] ETS 300 651: "Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Generic data link service; Service type C, class 2".

- [70] ETS 300 755: "Digital Enhanced Cordless Telecommunications (DECT); Data services profile; Multimedia Messaging Service (MMS) with specific provision for facsimile services; (Service type F, class 2)".
- [71] ETR 099: "European digital cellular telecommunications system (Phase 2); General description of a GSM Public Land Mobile Network (PLMN) GSM Public Land Mobile Network (PLMN) (GSM 01.02)".
- [72] ETR 100: "European digital cellular telecommunications system (Phase 2); Abbreviations and acronyms (GSM 01.04)".
- [73] ITU-T Recommendations Q6xx Series: "Interworking of signalling systems".
- [74] ITU-T Recommendation T.30: "Procedures for document facsimile transmission in the general switched telephone network".
- [75] ITU-T Recommendation T.31 (1995): "Asynchronous facsimile DCE control - Service Class 1".
- [76] ITU-T Recommendation T.32 (1995): "Asynchronous facsimile DCE control - Service Class 2".
- [77] CCITT Recommendation V.24 (1988): "List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)".
- [78] CCITT Recommendation V.25bis (1988): "Automatic calling and/or answering equipment on the general switched telephone network (GSTN) using the 100-series interchange circuits".
- [79] CCITT Recommendation V.110: "Support of data terminal equipments with V-Series type interfaces by an integrated services digital network".

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3 Definitions, abbreviations and symbols

SIST EN 300 703:2001

3.1 Definitions

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

attach: The process whereby a Portable Part (PP) within the coverage area of a Fixed Part (FP) to which it has access rights, notifies this FP that it is operative. The reverse process is detach, which reports the PP as inoperative.

NOTE 1: An operative PP is assumed to be ready to receive calls.

authentication: The process whereby a DECT subscriber is positively verified to be a legitimate user of a particular FP.

NOTE 2: Authentication is generally performed at call set-up, but may also be done at any other time (e.g. during a call).

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

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

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

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

NOTE 5: Call may sometimes be used to refer to processes of all layers, since lower layer processes are implicitly required.

DECT Network (DNW): 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 DNW is a logical grouping that contains one or more Fixed radio Terminations (FTs) plus their associated Portable radio Termination (PT). The boundaries of the DECT network are not physical boundaries.

external handover: The process of switching a call in progress from one FT to another FT.

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 7: A DECT FP contains the logical elements of at least one FT, plus additional implementation specific elements.

FP GSM PLMN attachment (DECT FP attached to a GSM MSC): A definition of a functional environment where a DECT system (FP) is attached to an GSM MSC. The MSC in this case refers to a functional entity providing the required Mobility Management (MM) and Call Control (CC) functionality defined in the present document in order to communicate with the FP.

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.

NOTE 8: A FT only includes elements that are defined in the DECT CI standard. This includes radio transmission elements together with a selection of layer 2 and layer 3 elements.

Generic Access Profile (GAP): A defined part of the DECT Common Interface standard (DECT CI) that ensures interoperability between FPs and PPs for public business and residential access services.

geographically unique identity: This term relates to FP identities, Primary Access Rights Identities (PARIs) and Radio Fixed Part Identities (RFPIs). It indicates that two systems with the same PARI, or respectively two RFPIs with the same RFPI, cannot be reached or listened to at the same geographical position.

Global Network (GNW): A telecommunication network capable of offering a long distance telecommunication service.

NOTE 9: The term does not include legal or regulatory aspects, nor does it indicate if the network is a public or a private network.

globally unique identity: The identity is unique within DECT (without geographical or other restrictions).

handover: The process of switching a call in progress from one physical channel to another physical channel. These processes can be internal (see internal handover) or external (see external handover).

NOTE 10: There are two physical forms of handover, intra-cell handover and inter-cell handover. Intra-cell handover is always internal. Inter-cell handover can be internal or external.

incoming call: A call received at a PP.

inter-cell handover: The switching of a call in progress from one cell to another cell.

internal handover: Handover processes that are completely internal to one FT. Internal handover re-connects the call at the lower layers, while maintaining the call at the NWK layer.

NOTE 11: The lower layer reconnection can either be at the Data Link Control (DLC) layer (connection handover) or at the MAC layer (bearer handover).

inter-operability: The capability of FPs and PPs, that enable a PP to obtain access to teleservices in more than one location area and/or from more than one operator (more than one service provider).

inter-operator roaming: Roaming between FP coverage areas of different operators (different service providers).

Interworking Unit (IWU): A unit that is used to interconnect sub-networks.