



SLOVENSKI STANDARD

SIST EN 301 242 V1.1.3:2005

01-julij-2005

8 [[]HJbY]nVc`ýUbYVfYnj fj] bYhY_Y_ca i b]_UWY^fB97HŁ!'; `cVUbj`g]ghYa
a cV]b] _ca i b]_UWY^f GAŁ!`bHY[fUWYU897H# GAžXj cnj fgb]`hYfa]bU]

Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM integration based on dual-mode terminals

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 301 242 V1.1.3:2005](https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96739/sist-en-301-242-v1-1-3-2005)

[https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-](https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96739/sist-en-301-242-v1-1-3-2005)

[5d3647d96739/sist-en-301-242-v1-1-3-2005](https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96739/sist-en-301-242-v1-1-3-2005)

Ta slovenski standard je istoveten z: **EN 301 242 Version 1.1.3**

ICS:

33.070.30	Öä äæ) ^Ä à[zæ ^ à!^: ç cã } ^Ä ^\ [{ ~ } ä æä ÖÖÓVD	Digital Enhanced Cordless Telecommunications (DECT)
33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)

SIST EN 301 242 V1.1.3:2005

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 301 242 V1.1.3:2005](https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96739/sist-en-301-242-v1-1-3-2005)

<https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96739/sist-en-301-242-v1-1-3-2005>

EN 301 242 V1.1.3 (1998-06)

European Standard (Telecommunications series)

Digital Enhanced Cordless Telecommunication (DECT); Global System for Mobile communications (GSM); DECT/GSM integration based on dual-mode terminals

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 301 242 V1.1.3:2005](https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96739/sist-en-301-242-v1-1-3-2005)

<https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96739/sist-en-301-242-v1-1-3-2005>



Reference

DEN/DECT-010124 (bi000ie0.PDF)

Keywords

DECT, GSM, radio, terminal

ETSI

Postal address

F-06921, Sophia Antipolis Cedex - FRANCE

Office address

650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C

Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Internet

secretariat@etsi.fr

<http://www.etsi.fr>

<http://www.etsi.org>

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1998.
All rights reserved.

Contents

Intellectual Property Rights.....	4
Foreword	4
1 Scope.....	5
2 References.....	5
3 Definitions and abbreviations	7
3.1 Definitions	7
3.2 Abbreviations.....	7
4 General on DECT/GSM DMTs	8
5 Provisions for providing continuity of service.....	8
5.1 General.....	8
5.2 Mode selection.....	9
5.2.1 General requirements	9
5.2.2 Procedures.....	9
5.2.2.1 At switch-on.....	9
5.2.2.2 Background scanning.....	9
5.2.2.3 Automatic mode selection	10
5.2.2.3.1 Preferred use of GSM networks	10
5.2.2.3.2 Preferred use of DECT networks	11
5.2.2.3.3 Protection against excessive signalling.....	11
5.2.2.4 Location registration.....	11
5.2.2.5 User re-selection of mode.....	12
Annex A (normative): Testing of DECT/GSM DMTs.....	13
A.1 Radio testing	13
A.2 Acoustic testing.....	14
A.3 Protocol testing	15
A.4 EMC testing	15
Annex B (normative): Timers and constants	16
B.1 Timers	16
B.2 Constants.....	16
History	17

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETR 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available **free of charge** from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://www.etsi.fr/ipr> or <http://www.etsi.org/ipr>).

Pursuant to the ETSI Interim IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETR 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

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:	5 June 1998
Date of latest announcement of this EN (doa):	30 September 1998
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 March 1999
Date of withdrawal of any conflicting National Standard (dow):	31 March 1999

[SIST EN 301 242 V1.1.3:2005](https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96739/sist-en-301-242-v1-1-3-2005)

<https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96739/sist-en-301-242-v1-1-3-2005>

1 Scope

The purpose of the present document is to specify the additional requirements to the existing Global System for Mobile communications (GSM) and Digital Enhanced Cordless Telecommunication (DECT) standards needed for DECT/GSM Dual Mode Terminals (DMTs) that can perform background scanning and switch automatically between GSM and DECT modes, but cannot be active in both modes at the same time.

For the DECT side, the DECT/GSM Interworking Profile (IWP) is not considered.

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.

- [1] ETS 300 434-2: "Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); DECT/ISDN interworking for end system configuration; Part 2: Access profile".
[SIST EN 301 242 V1.1.3:2005](https://standards.iteh.ai/catalog/standards/sist/en-301-242-v1-1-3-2005)
- [2] EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
<https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96759/sist-en-301-242-v1-1-3-2005>
- [3] ETS 300 511: "European digital cellular telecommunications system (Phase 2); Man-Machine Interface (MMI) of the Mobile Station (MS) (GSM 02.30)".
- [4] ETS 300 607-1: "Digital cellular telecommunications system (Phase 2); Mobile Station (MS) conformance specification; Part 1: Conformance specification (GSM 11.10-1)".
- [5] ETS 300 824: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP)".
- [6] ETR 341: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile; Profile overview".
- [7] TR 101 072: "Digital Enhanced Cordless Telecommunications/Global System for Mobile Communications (DECT/GSM); Integration based on dual-mode terminals".
- [8] EN 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
- [9] EN 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical layer (PHL)".
- [10] EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
- [11] EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".

- [12] EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [13] EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
- [14] EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".
- [15] EN 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech coding and transmission".
- [16] TBR 6: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); General terminal attachment requirements".
- [17] TBR 10: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); General terminal attachment requirements: Telephony applications".
- [18] TBR 19: "European digital cellular telecommunications system (Phase 2); Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Access".
- [19] TBR 20: "European digital cellular telecommunications system (Phase 2); Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Telephony".
- [20] TBR 22: "Radio Equipment and Systems (RES); Attachment requirements for terminal equipment for Digital Enhanced Cordless Telecommunications (DECT) DECT Generic Access Profile (GAP) applications".
- [21] TBR 31: "Digital cellular telecommunications system (Phase 2); Attachment requirements for mobile stations in the DCS 1 800 band and additional GSM 900 band; Access".
- [22] TBR 32: "Digital cellular telecommunications system (Phase 2); Attachment requirements for mobile stations in the DCS 1 800 band and additional GSM 900 band; Access".
- [23] TBR 40: "Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment for DECT/ISDN interworking profile applications".
- [24] ITU-T Recommendation G.111: "Loudness ratings (LRs) in an international connection".
- [25] EN 301 439: "Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); Attachment requirements for DECT/GSM dual-mode terminal equipment". [Harmonized EN]

3 Definitions and abbreviations

3.1 Definitions

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

active communication: A state, where a communication link has been established between the DMT and a fixed part in either GSM or DECT mode.

active mode: GSM or DECT mode after being selected and switch on procedures for that mode being performed.

background scanning: The process whereby a basic DMT attempts to identify the existence of stable networks in the mode other than the one it is in to which the terminal has access rights.

basic dual mode terminal: A DMT that can only be in one mode at the time and that can be switched either manually or automatically between modes. The basic DMT is always in one mode.

dual mode terminal: A terminal comprising both GSM and DECT parts.

GSM coverage: The sum of all GSM Public Land Mobile Network (PLMN) coverages where the DMT has at least limited service.

GSM: In the present document, the GSM part of a DMT can be GSM 900, Digital Cellular System 1800 (DCS 1800) or GSM/DCS dual band.

mode selection: A DMT based procedure, whereby operating mode, GSM or DECT, is chosen.

mode: A basic DMT is in either of the two modes GSM and DECT. In GSM mode the DMT behaves as a GSM Mobile Station (MS) and in DECT mode the DMT behaves as a DECT Portable Part (PP).

3.2 Abbreviations

[SIST EN 301 242 V1.1.3:2005](https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96739/sist-en-301-242-v1-1-3-2005)
<https://standards.iteh.ai/catalog/standards/sist/52ebfab1-f52b-447e-8628-5d3647d96739/sist-en-301-242-v1-1-3-2005>
 (standards.iteh.ai)

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

ARI	Access Rights Identity
CAP	CTM Access Profile
CTM	Cordless Terminal Mobility
DCS	Digital Cellular System
DECT	Digital Enhanced Cordless Telecommunications
DMT	Dual Mode Terminal
GAP	Generic Access Profile
GSM	Global System for Mobile communication
IAP	ISDN Access Profile
IMSI	International Mobile Subscriber Identity
IWP	Interworking Profile
MS	Mobile Station
PARK	Portable Access Rights Key
PIN	Personal Identification Number
PLMN	Public Land Mobile Network
PP	Portable Part
SIM	Subscriber Identity Module
LSTR	Listener's Sidetone Ratio
RLR	Receiving Loudness Rating
SLR	Sending Loudness Rating