



**Digital Enhanced Cordless Telecommunications (DECT);
Common Interface (CI);
Part 1: Overview**

(<https://standards.iteh.ai>)
Document Preview

[ETSI EN 300 175-1 V2.5.1 \(2013-08\)](https://standards.iteh.ai/catalog/standards/etsi/90622eb9-adb7-4cad-a5cf-fde1fd70d4dd/etsi-en-300-175-1-v2-5-1-2013-08)

<https://standards.iteh.ai/catalog/standards/etsi/90622eb9-adb7-4cad-a5cf-fde1fd70d4dd/etsi-en-300-175-1-v2-5-1-2013-08>

Reference

REN/DECT-000268-1

Keywords

7 kHz, audio, broadband, CODEC, DECT, handsfree, IMT-2000, loudspeaking, mobility, narrowband, quality, radio, speech, TDD, TDMA, telephony, terminal

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - 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

(<https://standards.iteh.ai>)
Document Preview

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

http://portal.etsi.org/chaicor/ETSI_support.asp

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 2013.
All rights reserved.

DECTTM, PLUGTESTSTM, UMTSTM and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.
3GPPTM and LTETM are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.
GSM[®] and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intellectual Property Rights	4
Foreword.....	4
1 Scope	6
2 References	6
2.1 Normative references	6
2.2 Informative references.....	7
3 Definitions and abbreviations.....	8
3.1 Definitions.....	8
3.2 Symbols and abbreviations.....	17
4 Structure	23
4.1 Part 1: Overview.....	23
4.2 Part 2: Physical Layer (PHL)	24
4.3 Part 3: Medium Access Control (MAC) layer.....	24
4.4 Part 4: Data Link Control (DLC) layer.....	24
4.5 Part 5: Network (NWK) layer	24
4.6 Part 6: Identities and addressing.....	24
4.7 Part 7: Security features	24
4.8 Part 8: Speech and audio coding and transmission.....	25
5 The objectives of the CI standard.....	25
6 General description of the system	26
7 Description of the protocol architecture.....	28
7.1 General	28
7.2 The DECT layered structure.....	28
7.3 Physical Layer (PHL).....	28
7.4 MAC layer.....	29
7.5 DLC layer	29
7.6 Network (NWK) layer	29
7.7 Lower Layer Management Entity (LLME)	29
7.8 Interworking Units (IWU).....	30
8 Proprietary escapes within the CI.....	30
8.1 Primary escape routes.....	30
8.2 Secondary escape routes.....	31
9 Levels of conformance	31
10 Further development of the DECT standard	31
10.1 IMT-2000	31
10.2 The DECT Packet Radio Service (DPRS).....	31
10.3 DECT in international markets.....	32
10.3.1 United States of America.....	32
10.4 The New Generation DECT (NG-DECT).....	32
10.5 DECT Ultra Low Energy (ULE)	33
Annex A (informative): Bibliography.....	35
Annex B (informative): Change history	36
History	37

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 ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://ipr.etsi.org>).

Pursuant to the ETSI 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 ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This draft European Standard (EN) has been produced by ETSI Technical Committee Digital Enhanced Cordless Telecommunications (DECT), and is now submitted for the combined Public Enquiry and Vote phase of the ETSI standards EN Approval Procedure.

The present document is part 1 of a multi-part deliverable covering the Common Interface (CI) for the Digital Enhanced Cordless Telecommunications (DECT), as identified below:

Part 1: "Overview";

Part 2: "Physical Layer (PHL)";

Part 3: "Medium Access Control (MAC) layer";

Part 4: "Data Link Control (DLC) layer";

Part 5: "Network (NWK) layer";

Part 6: "Identities and addressing";

Part 7: "Security features";

Part 8: "Speech and audio coding and transmission".

The following aspects of the present document are subject to controlled distribution:

- a) DECT identities, as defined in EN 300 175-6 [6];
- b) Some DECT cryptographic algorithms.

The cryptographic algorithms subjected to controlled distribution specify the details of the DECT Standard Authentication Algorithm (DSAA) and the DECT Standard Cipher (DSC). The cryptographic algorithms DECT Standard Authentication Algorithm #2 (DSAA2) and DECT Standard Cipher #2 (DSC2) are not subjected to controlled distribution.

These aspects are distributed on an individual basis. Further information and details of the current distribution procedures can be obtained from the ETSI Secretariat at the address on the second page of the present document.

Further details of the DECT system may be found in TR 101 178 [i.4], ETR 043 [i.5] and TR 102 185 [i.6].

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[ETSI EN 300 175-1 V2.5.1 \(2013-08\)](https://standards.itih.ai/catalog/standards/etsi/90622eb9-adb7-4cad-a5cf-fde1fd70d4dd/etsi-en-300-175-1-v2-5-1-2013-08)

<https://standards.itih.ai/catalog/standards/etsi/90622eb9-adb7-4cad-a5cf-fde1fd70d4dd/etsi-en-300-175-1-v2-5-1-2013-08>