



SLOVENSKI STANDARD SIST EN 300 494-1 V1.4.1:2003

01-december-2003

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Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP);
Profile Test Specification (PTS); Part 1: Summary

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Ta slovenski standard je istoveten z: ^{SIST EN 300 494-1 V1.4.1:2003} EN 300 494-1 Version 1.4.1

<https://standards.iteh.ai/catalog/standards/sist/e58028c8-6524-4ab9-bc56-353b094db9be/sist-en-300-494-1-v1-4-1-2003>

ICS:

33.070.30 Öä åæ ^Á à[|zæ ^ Digital Enhanced Cordless
à!^: ç|çã } ^Á |^ \ [{ ~ } ä æ å Telecommunications (DECT)
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SIST EN 300 494-1 V1.4.1:2003 en

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ETSI EN 300 494-1 V1.4.1 (2002-04)

European Standard (Telecommunications series)

Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 1: Summary

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Reference

REN/DECT-040209-1

Keywords

DECT, GAP, PTS, testing**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
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Sous-Préfecture de Grasse (06) N° 7803/88

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Foreword

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

The present document is part 1 of a multi-part deliverable covering the Generic Access Profile (GAP); Profile Test Specification (PTS), as identified below:

Part 1: "Summary";

Part 2: "Profile Specific Test Specification (PSTS) - Portable radio Termination (PT)";

Part 3: "Profile Specific Test Specification (PSTS) - Fixed radio Termination (FT)".

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National transposition dates	
Date of adoption of this EN:	5 April 2002
Date of latest announcement of this EN (doa):	31 July 2002
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 January 2003
Date of withdrawal of any conflicting National Standard (dow):	31 January 2003

1 Scope

The present document specifies the Profile Test Specification (PTS) summary referencing all the ENs necessary for the conformance testing of the DECT Generic Access Profile (GAP).

This GAP PTS summary together with the ENs it references constitute the GAP PTS.

The present document has the following structure:

- clause 4 contains general information relative to the profile including references to the related ENs;
- clause 5 contains a summary and references to the ENs relevant for each of DECT protocol layers to be tested;
- annex A (normative) contains list with the general status of GAP features/services relevant for terminals seeking compliance to the EN 300 444 [9] requirements.

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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- iTech STANDARD PREVIEW
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- [1] ETSI EN 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
<https://standards.iteh.ai/catalog/standards/sist/e58028c8-6524-4af9-bc56-9530748b624a/en-300-175-1-2003>
- [2] ETSI EN 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer (PHL)".
- [3] ETSI EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
- [4] ETSI EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
- [5] ETSI EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [6] ETSI EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
- [7] ETSI EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".
- [8] ETSI EN 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech coding and transmission".
- [9] ETSI EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [10] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [11] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".

- [12] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [13] ISO/IEC 9646-4: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 4: Test realization".
- [14] ISO/IEC 9646-5: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 5: Requirements on test laboratories and clients for the conformance assessment process".
- [15] ISO/IEC 9646-6: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 6: Protocol profile test specification".
- [16] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [17] ETSI EN 300 176 (all parts): "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification".
- [18] ETSI EN 300 476 (all parts): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma".
- [19] ETSI EN 300 497-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 1: Test Suite Structure (TSS) and Test Purposes (TP) for Medium Access Control (MAC) layer".
- [20] ETSI EN 300 497-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 2: Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Portable radio Termination (PT)".
- [21] ETSI EN 300 497-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 3: Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Fixed radio Termination (FT)".
- [22] ETSI EN 300 497-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 4: Test Suite Structure (TSS) and Test Purposes (TP) - Data Link Control (DLC) layer".
- [23] ETSI EN 300 497-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 5: Abstract Test Suite (ATS) - Data Link Control (DLC) layer".
- [24] ETSI EN 300 497-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 6: Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK) layer - Portable radio Termination (PT)".
- [25] ETSI EN 300 497-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 7: Abstract Test Suite (ATS) for Network (NWK) layer - Portable radio Termination (PT)".
- [26] ETSI EN 300 497-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 8: Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK) layer - Fixed radio Termination (FT)".
- [27] ETSI EN 300 497-9: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 9: Abstract Test Suite (ATS) for Network (NWK) layer - Fixed radio Termination (FT)".
- [28] ETSI EN 300 474-1: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile requirement list and profile specific Implementation Conformance Statement (ICS) proforma; Part 1: Portable radio Termination (PT)".
- [29] ETSI EN 300 474-2: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile requirement list and profile specific Implementation Conformance Statement (ICS) proforma; Part 2: Fixed radio Termination (FT)".

- [30] ETSI EN 300 494-2: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 2: Profile Specific Test Specification (PSTS) - Portable radio Termination (PT)".
- [31] ETSI EN 300 494-3: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 3: Profile Specific Test Specification (PSTS) - Fixed radio Termination (FT)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 300 175 parts 1 to 8 [1] to [8], ISO/IEC 9646 parts 1 to 7 [10] to [16] and EN 300 444 [9] apply.

3.2 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
CC	Call Control entity
C _F	higher layer signalling (fast)
CI	Common Interface
CISS	Call Independent Supplementary Services
CLIP	Calling Line Identification Presentation (supplementary service)
CLMS	ConnectionLess Message Service
COMS	Connection Oriented Message Service
C-plane	Control-plane
CRC	Cyclic Redundancy Codes
CRSS	Call Related Supplementary Services
C _S	higher layer signalling (slow)
CSF	Cell Site Function
DECT	Digital Enhanced Cordless Telecommunications
DLC	Data Link Control layer
DTMF	Dual Tone Multi Frequency
FP	Fixed Part
FT	Fixed radio Termination
GAP	Generic Access Profile
ICS	Implementation Conformance Statement
IXIT	Implementation eXtra Information for Testing
LAPC	a DLC layer C-plane protocol entity
LCE	Link Control Entity
LLME	Lower Layer Management Entity
MAC	Medium Access Control layer
MM	Mobility Management entity
MOT	Means Of Testing
NTP	Normal Transmitted Power
NWK	NetWoRK
PDU	Protocol Data Unit
PH	Physical layer
PHL	PHysical Layer
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
PP	Portable Part
PSTS	Profile Specific Test Specification
PT	Portable radio Termination
PTS	Profile Test Specification

RFP	Radio Fixed Part
RFPI	Radio Fixed Part Identity
SARI	Secondary Access Rights Identity
SCS	System Conformance Statement
U-plane	User-plane

4 Profile identification

Table 1

No	Profile identification	
1	Profile identifier	Generic Access Profile
2	Profile specification	EN 300 444 [9]
3	Profile ICS proforma	EN 300 474-2 [29]
4	PSTS	EN 300 494-2 [30] EN 300 494-3 [31]
5	Profile IXIT proforma	EN 300 494-2 [30] EN 300 494-3 [31]
6	SCS proforma	EN 300 494-2 [30] EN 300 494-3 [31]

5 Elements of the PTS

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5.1 Conformance testing (testing for NWK layer)

Table 2

No	Protocol	
1	Protocol identification	EN 300 175-5 [5]
2	PICS proforma	EN 300 476 [18]
3	TSS and TP	EN 300 497-6 [24] EN 300 497-8 [26]
4	ATS	EN 300 497-7 [25] EN 300 497-9 [27]
5	Applicability of ATS	Basic speech covered. Basic services and procedures concerning CC, MM and LCE entities covered
6	ATM	Remote
7	Partial PIXIT	EN 300 497-7 [25] EN 300 497-9 [27]

Table 3

No	Profile	
1	Profile ICS proforma	EN 300 474-2 [29]
2	Additional TSS and TP	No
3	ATM	Remote
4	Additional test cases	No
5	Partial Profile IXIT proforma	EN 300 494-2 [30] and EN 300 494-3 [31]
6	Modified selection expressions	No

5.2 Conformance testing for DLC layer

Table 4

No	Protocol	
1	Protocol identification	EN 300 175-4 [4]
2	PICS proforma	EN 300 476 [18]
3	TSS and TP	EN 300 497-4 [22]
4	ATS	EN 300 497-5 [23]
5	Applicability of ATS	
6	ATM	Remote
7	Partial PIXIT	EN 300 497-5 [23]

Table 5

No	Profile	
1	Profile ICS proforma	EN 300 474-2 [29]
2	Additional TSS and TP	No
3	ATM	Remote
4	Additional test cases	No
5	Partial Profile IXIT proforma	EN 300 494-2 [30] and EN 300 494-3 [31]
6	Modified selection expressions	No

5.3 Conformance testing for MAC layer

Table 6
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No	Protocol	
1	Protocol identification	EN 300 175-3 [3] 2003
2	PICS proforma	EN 300 476 [18]
3	TSS and TP	EN 300 497-1 [19]
4	ATS	EN 300 497-2 [20] EN 300 497-3 [21]
5	Applicability of ATS	
6	ATM	Remote (modified)
7	Partial PIXIT	EN 300 497-2 [20] EN 300 497-3 [21]

Table 7

No	Profile	
1	Profile ICS proforma	EN 300 474-2 [29]
2	Additional TSS and TP	No
3	ATM	Remote (modified)
4	Additional test cases	No
5	Partial Profile IXIT proforma	EN 300 494-2 [30] and EN 300 494-3 [31]
6	Modified selection expressions	No

5.4 Conformance testing for PHY layer

Table 8

No	Protocol	
1	Protocol identification	EN 300 175-2 [2]: Physical layer
2	PICS proforma	EN 300 476 [18]
3	TSS and TP	EN 300 176 [17]
4	ATS	EN 300 176 [17]
5	Applicability of ATS	General terminal attachment requirements, basic telephony applications
6	ATM	-
7	Partial PIXIT	-

Table 9

No	Profile	
1	Profile ICS proforma	EN 300 474-2 [29]
2	Additional TSS and TP	EN 300 494-2 [30] and EN 300 494-3 [31]
3	ATM	-
4	Additional test cases	EN 300 494-2 [30] and EN 300 494-3 [31]
5	Partial Profile IXIT proforma	EN 300 494-2 [30] and EN 300 494-3 [31]
6	Modified selection expressions	No

6

Conformance

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The test realizer of a Means Of Testing (MOT) for this PTS summary shall comply with the requirements of ISO/IEC 9646-4 [13].

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In particular, the realization of each referenced ATS shall conform to the ATS specification consistent with the modifications made by the PSTS referenced by this PTS summary. The realization of the ATS within the PSTS shall conform to the PSTS.

The laboratories running conformance test services according to this PTS summary shall comply with ISO/IEC 9646-5 [14].