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

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European Standard (Telecommunications series)

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

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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
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Contents

Intellectual Property Rights	5
Foreword.....	5
1 Scope.....	6
2 References.....	6
3 Definitions and abbreviations.....	8
3.1 Definitions	8
3.2 Abbreviations.....	8
4 Profile identification	8
5 Elements of the PTS	9
5.1 Conformance testing for NWK layer.....	9
5.2 Conformance testing for DLC layer.....	9
5.3 Conformance testing for MAC layer.....	10
5.4 Conformance testing for PH layer.....	10
6 Conformance	11
Annex A (normative): Requirements	12
A.1 Introduction.....	12
A.2 Portable Part (PP).....	13
A.2.1 Tables for PP NWK layer.....	13
A.2.1.1 Major Capabilities.....	13
A.2.1.1.1 Entities.....	13
A.2.1.1.2 CC features.....	13
A.2.1.1.3 MM features.....	14
A.2.1.1.4 SS features (services).....	14
A.2.1.1.5 LCE features	14
A.2.1.1.6 Procedures.....	15
A.2.1.2 Messages	17
A.2.1.2.1 Call control messages	17
A.2.1.2.2 Mobility management messages.....	17
A.2.1.2.3 Link control entity messages.....	18
A.2.2 Tables for PP DLC layer.....	18
A.2.2.1 Capabilities.....	18
A.2.2.1.1 Services.....	18
A.2.2.1.2 Procedures.....	19
A.2.2.2 Protocol PDUs	20
A.2.2.2.1 C-plane PDUs.....	20
A.2.2.2.2 C-plane messages	20
A.2.2.3 U-plane PDUs	21
A.2.3 Tables for PP MAC layer.....	21
A.2.3.1 Major Capabilities.....	21
A.2.3.1.1 Services.....	21
A.2.3.1.1.1 Connection oriented control services.....	21
A.2.3.1.1.2 Broadcast control services	22
A.2.3.1.1.3 Multiplexing services	22
A.2.3.1.1.4 Management services	22
A.2.3.2 Procedures	22
A.2.3.2.1 Connection setup procedures.....	22
A.2.3.2.2 Connection data transfer procedures.....	23
A.2.3.2.3 Connection handover procedures	23
A.2.3.2.4 Connection release procedures	23
A.2.3.2.5 Broadcast procedures.....	23
A.2.3.2.6 CSF multiplexing procedures.....	23

A.2.3.2.7	Layer management procedures.....	24
A.2.3.3	Other capabilities	24
A.2.4	Tables for PP PHL layer	24
A.2.4.1	Physical layer procedures	24
A.2.5	Tables for PP Application requirements	25
A.2.5.1	Application features	25
A.2.5.2	Application Procedures	25
A.3	Fixed Part (FP)	25
A.3.1	Tables for FP NWK layer	25
A.3.1.1	Major capabilities	25
A.3.1.1.1	Entities	25
A.3.1.1.2	CC features.....	26
A.3.1.1.3	MM features	28
A.3.1.1.4	SS features (services).....	29
A.3.1.1.5	LCE features	29
A.3.1.1.6	Procedures.....	29
A.3.1.2	Messages	32
A.3.1.2.1	Call control messages	32
A.3.1.2.2	Mobility management messages.....	33
A.3.1.2.3	Link control entity messages	34
A.3.2	Tables for FP DLC layer.....	34
A.3.2.1	Capabilities	34
A.3.2.1.1	Services.....	34
A.3.2.1.2	Procedures.....	35
A.3.2.2	Protocol PDUs	36
A.3.2.2.1	C-plane PDUs.....	36
A.3.2.2.2	C-plane messages	36
A.3.2.2.3	U-plane PDUs	37
A.3.3	Tables for FP MAC layer.....	37
A.3.3.1	Major Capabilities.....	37
A.3.3.1.1	Services.....	37
A.3.3.1.1.1	Connection oriented control services.....	37
A.3.3.1.1.2	Broadcast control services	37
A.3.3.1.1.3	Multiplexing services	38
A.3.3.1.1.4	Management services	38
A.3.3.2	Procedures	38
A.3.3.2.1	Connection setup procedures.....	38
A.3.3.2.2	Connection data transfer procedures.....	39
A.3.3.2.3	Connection handover procedures	39
A.3.3.2.4	Connection release procedures	39
A.2.3.2.5	Broadcast procedures.....	39
A.2.3.2.6	CSF multiplexing procedures.....	39
A.3.3.2.7	Layer management procedures.....	40
A.3.3.3	Other capabilities	40
A.3.4	Tables for FP PHL layer	40
A.3.4.1	Physical layer procedures	40
A.3.5	Tables for FP Application requirements	40
A.3.5.1	Application features	40
A.2.5.2	Application Procedures	41
Annex B (informative):	Bibliography.....	42
History		43

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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

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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/800d1938-cb09-44f2-858e-2c2747162220/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: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification".
- [18] ETSI EN 300 476 parts 1 to 7: "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
CI	Common Interface
DECT	Digital Enhanced Cordless Telecommunications
DLC	Data Link Control layer
FT	Fixed radio Termination
GAP	Generic Access Profile
ICS	Implementation Conformance Statement
IXIT	Implementation eXtra Information for Testing
LCE	Link Control Entity
MAC	Medium Access Control layer
MM	Mobility Management entity
PH	Physical layer
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
PSTS	Profile Specific Test Specification
PT	Portable radio Termination
PTS	Profile Test Specification
SCS	System Conformance Statement

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

5.1 Conformance 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

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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

No	Protocol	
1	Protocol identification	EN 300 175-3 [3]
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 PH layer

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Table 8

No	Protocol	
1	Protocol identification	EN 300 175-2 [2] : Physical layer [2]
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

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

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].

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