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European Standard (Telecommunications series)

**Digital Enhanced Cordless Telecommunications (DECT);
Cordless Terminal Mobility (CTM);
CTM Access Profile (CAP);
Profile Test Specification (PTS);
Part 1: Summary**



Reference

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Keywords

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Project Digital Enhanced Cordless Telecommunications (DECT), and is now submitted for the Public Enquiry phase of the ETSI standards Two-step Approval Procedure.

The CTM Access Profile (CAP) Profile Test Specification (PTS) comprises three parts:

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)".

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

1 Scope

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

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

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, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, 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] EN 301 171 (all parts): "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP); Profile requirement list and profile specific Implementation Conformance Statement (ICS) proforma".
- [2] EN 301 171-2: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP); Profile Test Specification (PTS); Part 2: Profile Specific Test Specification (PSTS) - Portable radio Termination (PT)".
- [3] EN 301 171-3: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP); Profile Test Specification (PTS); Part 3: Profile Specific Test Specification (PSTS) - Fixed radio Termination (FT)".
- [4] EN 300 175-1 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
- [5] EN 300 175-2 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer (PHL)".
- [6] EN 300 175-3 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
- [7] EN 300 175-4 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
- [8] EN 300 175-5 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [9] EN 300 175-6 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
- [10] EN 300 175-7 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".

- [11] EN 300 175-8 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech coding and transmission".
- [12] EN 300 176: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification".
- [13] EN 300 444 (V1.3): "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [14] ETS 300 476 (all parts): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma".
- [15] EN 300 494 (V1.2): "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS)".
- [16] EN 300 497-1 (V0.3): "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".
- [17] EN 300 497-2 (V0.3): "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)".
- [18] EN 300 497-3 (V0.3): "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)".
- [19] EN 300 497-4 (V0.3): "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".
- [20] EN 300 497-5 (V0.3): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 5: Abstract Test Suite (ATS) - Data Link Control (DLC) layer".
- [21] EN 300 497-6 (V0.3): "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)".
- [22] EN 300 497-7 (V0.3): "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)".
- [23] EN 300 497-8 (V0.3): "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)".
- [24] EN 300 497-9 (V0.3): "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)".
- [25] EN 300 824 (V1.2): "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP)".
- [26] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [27] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite Specification".
- [28] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".

- [29] ISO/IEC 9646-4: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 4: Test realisation".
- [30] 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".
- [31] ISO/IEC 9646-6: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 6: Protocol Profile Test Specification".
- [32] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance statement".
- [33] TR 101 101 (V1.1): "Methods for Testing and Specification (MTS); TTCN interim version including ASN.1 1994 support [ISO/IEC 9646-3] (Second Edition Mock-up for JTC1/SC21 Review)".

3 Definitions and abbreviations

3.1 Definitions

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

- definitions in EN 300 175 Parts 1 to 8 [4] to [11];
- definitions in ISO/IEC 9646 Parts 1 to 7 [26] to [32].

3.2 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
CAP	CTM Access Profile
CC	Call Control entity
CI	Common Interface
CTM	Cordless Terminal Mobility
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
XRL	IXIT Requirements List

4 Profile identification

Table 1

No.	Profile identification	
1	Profile identifier	CTM Access Profile
2	Profile specification	EN 300 824 [25]
3	Profile ICS proforma	EN 301 171 [1]
4	PSTS	EN 301 171-2 [2] EN 301 171-3 [3]
5	Profile IXIT proforma	EN 301 171-2 [2] EN 301 171-3 [3]
6	SCS proforma	EN 301 171-2 [2] EN 301 171-3 [3]
Comments: The present document contains the CAP PTS in addition to the GAP PTS specification contained in EN 300 494 [15].		

5 Elements of the PTS

5.1 Conformance testing for NWK layer

Table 2

No.	Protocol	
1	Protocol identification	EN 300 175-5 [8]
2	PICS proforma	ETS 300 476 [14]
3	TSS and TP	EN 300 497-6 [21] EN 300 497-8 [23]
4	ATS	EN 300 497-7 [22] EN 300 497-9 [24]
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 [22] EN 300 497-9 [24]

Table 3

No	Profile	
1	Profile ICS proforma	EN 301 171 [1]
2	Additional TSS and TP	No
3	ATM	Remote
4	Additional test cases	No
5	Partial Profile IXIT proforma	EN 301 171-2 [2] and EN 301 171-3 [3]
6	Modified selection expressions	No

5.2 Conformance testing for DLC layer

Table 4

No.	Protocol	
1	Protocol identification	EN 300 175-4 [7]
2	PICS proforma	ETS 300 476 [14]
3	TSS and TP	EN 300 497-4 [19]
4	ATS	EN 300 497-5 [20]
5	Applicability of ATS	
6	ATM	Remote
7	Partial PIXIT	EN 300 497-5 [20]

Table 5

No	Profile	
1	Profile ICS proforma	EN 301 171 [1]
2	Additional TSS and TP	No
3	ATM	Remote
4	Additional test cases	No
5	Partial Profile IXIT proforma	EN 301 171-2 [2] and EN 301 171-3 [3]
6	Modified selection expressions	No

5.3 Conformance testing for MAC layer

Table 6

No.	Protocol	
1	Protocol identification	EN 300 175-3 [6]
2	PICS proforma	ETS 300 476 [14]
3	TSS and TP	EN 300 497-1 [16]
4	ATS	EN 300 497-2 [17] EN 300 497-3 [18]
5	Applicability of ATS	
6	ATM	Remote (modified)
7	Partial PIXIT	EN 300 497-2 [17] EN 300 497-3 [18]

Table 7

No	Profile	
1	Profile ICS proforma	EN 301 171 [1]
2	Additional TSS and TP	No
3	ATM	Remote (modified)
4	Additional test cases	No
5	Partial Profile IXIT proforma	EN 301 171-2 [2] and EN 301 171-3 [3]
6	Modified selection expressions	No

5.4 Conformance testing for PH layer

Table 8

No.	Protocol	
1	Protocol identification	EN 300 175-2: Physical layer [5]
2	PICS proforma	ETS 300 476 [14]
3	TSS and TP	EN 300 176 [12]
4	ATS	EN 300 176 [12]
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 301 171 [1]
2	Additional TSS and TP	EN 301 171-2 [2] and EN 301 171-3 [3]
3	ATM	-
4	Additional test cases	EN 301 171-2 [2] and EN 301 171-3 [3]
5	Partial Profile IXIT proforma	EN 301 171-2 [2] and EN 301 171-3 [3]
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 [29].

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 [30].

Bibliography

The following material, though not specifically referenced in the body of the present document, gives supporting information.

- EWOS/ETSI Project Team No 5: "Project Report and Technical Report. OSI Conformance Testing Methodology and Procedures in Europe".
- ETR 022 (1991): "Advanced Testing Methods (ATM); Vocabulary of terms used in communication protocols conformance testing".
- ETR 141: (August 1994): "Methods for testing and specifications (MTS), Protocol and profile conformance testing specifications, The Tree and Tabular Combined Notation (TTCN) style guide".
- CEPT Recommendation T/SGT SF2 (89) 6/0: "Draft Recommendation T/SF Services and Facilities of Digital Enhanced Cordless Telecommunications".
- ETR 015: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT) Reference document".
- ETR 041 "Transmission and multiplexing (TM); Digital Enhanced Cordless Telecommunications (DECT) Transmission aspects 3,1 kHz telephony Interworking with other networks".
- ETR 042 "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT) A Guide to DECT features that influence the traffic capacity and the maintenance of high radio link transmission quality, including the results of simulations".
- ETR 043: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT) Common Interface Services and Facilities requirements specification".
- ETR 056: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT) System description document".

History

Document history		
V0.0.1	September 1998	Public Enquiry PE 9901: 1998-09-04 to 1999-01-01