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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)

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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 3: Profile Specific Test Specification (PSTS) -
Fixed radio Termination (FT)**

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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

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Internet

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Foreword

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

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)".

(standards.iteh.ai) National transposition dates

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Date of latest publication of new National Standard or endorsement of this EN (dop/e):		31 May 2000
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1 Scope

The present document contains the test specification for Digital Enhanced Cordless Telecommunications (DECT) CTM Access Profile (CAP) Fixed Part (FP) applications.

The main objective of the CAP test specification is to provide approval tests giving a high probability of air interface inter-operability between different manufacturer's equipment in different environments (i.e. public, business and residential).

The ISO standard for the methodology of conformance testing ISO/IEC 9646 Parts 1 [24] to 7 [30] is used as the basis for the test methodology, and as the basis for the test case specification. This is considered to be unsuitable for Physical layer testing, and therefore a text description is used.

The test cases listed in the present document have been derived from the DECT Common Interface (CI) Test Case Library (TCL) [14] to [22]. In addition as far as the Physical layer is concerned EN 300 176 [10] applies. Additional CAP specific test cases are included where required. The Profile IXIT is based on the DECT CI PIXITs specified in EN 300 497 [14] to [22].

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 301 371-1: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP); Profile Test Specification (PTS); Part 1: Summary".
- [2] Void.
- [3] EN 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
- [4] EN 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer (PHL)".
- [5] EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
- [6] EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
- [7] EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [8] EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
- [9] EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".

- [10] EN 300 176: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification".
- [11] EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [12] ETS 300 476 (all parts): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma".
- [13] EN 300 494-3: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Part 3: Profile Specific Test Specification (PSTS) - Fixed radio Termination (FT)".
- [14] 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".
- [15] 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)".
- [16] 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)".
- [17] 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".
- [18] 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".
- [19] 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)".
- [20] 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)".
- [21] 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)".
- [22] 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)".
- [23] EN 300 824: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP)".
- [24] ISO/IEC 9646-1: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 1: General concepts".
- [25] ISO/IEC 9646-2: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 2: Abstract Test Suite Specification".
- [26] ISO/IEC 9646-3: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [27] ISO/IEC 9646-4: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 4: Test realization".

- [28] 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".
- [29] ISO/IEC 9646-6: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 6: Protocol Profile Test Specification".
- [30] ISO/IEC 9646-7: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 7: Implementation Conformance statement".

3 Definitions and abbreviations

3.1 Definitions

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

- terms defined in ISO/IEC 9646 Parts 1 to 7 [24] to [30];
- definitions in EN 300 175 Parts 1 to 7 [3] to [9];
- definitions in EN 300 444 [11];
- definitions in EN 300 824 [23].

3.2 Abbreviations

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

ATS	Abstract Test Suite	SIST EN 301 371-3:2001
CAP	CTM Access Profile	https://standards.iteh.ai/catalog/standards/sist/871ee079-62d3-4d00-be98-c87d0e5b9d98/sist-en-301-371-3-2001
CC	Call Control	
CI	Common Interface	
CTM	Cordless Terminal Mobility	
DECT	Digital Enhanced Cordless Telecommunications	
DLC	Data Link Control	
FT	Fixed radio Termination	
GAP	Generic Access Profile	
ICS	Implementation Conformance Statement	
IUT	Implementation Under Test	
IXIT	Implementation eXtra Information for Testing	
LCE	Link Control Entity	
LLME	Lower Layer Management Entity	
MAC	Medium Access Control	
MM	Mobility Management	
NWK	Network	
PH	Physical	
PICS	Protocol Implementation Conformance Statement	
PIXIT	Protocol Implementation eXtra Information for Testing	
PT	Portable radio Termination	
PSTS	Profile Specific Test Specification	
PTS	Profile Test Specification	
SUT	System Under Test	

4 Relevant test cases list

4.1 Network (NWK) layer

This subclause includes lists of the test groups and abstract test cases relevant for CAP Profile Test Specification (PTS) - NWK layer Fixed Termination (FT) derived from EN 300 497-9 [22]. In addition all the test groups and abstract test cases relevant for GAP PTS, contained in EN 300 494-3 [13] shall apply.

NOTE: References when necessary shall be made based on the particular test case name unique through all test specification EN 300 497 [14] to [22].

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4.1.1 Test suite structure (TSS)

Table 1

Test Suite Structure	
Suite Name:	nwk_ft
Standards Ref:	EN 300 824 [23]; EN 300 497-9 [22]
Profile ICS Ref:	DEN/DECT-040121
Profile IXIT Ref:	EN 300 494-3 [13]
Test Method:	remote
Comments:	
Test Group Reference	Test Group Objective
FT/	To check the behaviour of the NWK layer of the FT(IUT)
FT/CC/	To check the IUT CC-state machine behaviour
FT/CC/IT/	To check that the IUT CC-state machine provides sufficient conformance for possible interconnection without trying to perform thorough testing
FT/CC/CA/	Limited testing that the observable capabilities of the CC entity of the IUT are in accordance with the static conformance requirements and the additional capabilities claimed in the PROFILE ICS/PROFILE IXIT
FT/CC/BV/	To test the CC entity of the IUT in response to syntactically and contextual correct behaviour of the test system
FT/CC/BV/OC/	To check the IUT's behaviours to set-up an outgoing call
FT/CC/BV/IC/	To check the IUT's behaviours to set-up an incoming call
FT/CC/BV/CI/	To check the IUT's behaviour in information transfer procedures
FT/CC/BV/CR/	To check the IUT's behaviours to release an outgoing/incoming call
FT/CC/BV/HP/	To check the IUT's behaviour during external handover procedures
FT/CC/RS	To check the IUT's behaviour during call related supplementary service procedures.
FT/CC/BO/	To check the behaviour of the CC entity of the IUT in response to the messages that are syntactically correct but not allowed to occur in some states of the CC procedures
FT/CC/BI/	To check the behaviour of the CC entity of the IUT in response to invalid messages
FT/CC/TI/	To verify that the IUT CC timers are with correct values and the IUT is reacting properly to the expiry of a timer
FT/MM/	To check the behaviour of the Mobility Management entity of the IUT
FT/MM/IT/	To check that the MM entity of the IUT provides sufficient conformance for possible interconnection without trying to perform thorough testing
FT/MM/CA/	Limited testing that the observable capabilities of the MM entity of the IUT are in accordance with the static conformance requirements and the additional capabilities claimed in the PROFILE ICS/PROFILE IXIT
FT/MM/BV/	To test the MM entity of the IUT in response to syntactically and contextual correct behaviour of the test system
FT/MM/BV/ID/	To check the IUT's behaviour concerning identity procedures
FT/MM/BV/AU/	To check the IUT's behaviour concerning the authentication procedures
FT/MM/BV/LO/	To check the IUT's behaviour concerning the location procedures
FT/MM/BV/AR/	To check the IUT's behaviour concerning the access rights procedures
FT/MM/BV/KA/	To check the IUT's behaviour concerning the key allocation procedure
FT/MM/BV/CH/	To check the IUT's behaviour concerning the ciphering related procedures
FT/MM/BV/HP/	To check the IUT's behaviour during external handover procedures
FT/MM/BO/	To check the IUT behaviour in response to the messages that are syntactically correct but not allowed to occur in some phase of the MM procedures
FT/MM/BI/	To check the IUT in response to invalid MM messages
FT/MM/TI/	To verify that the IUT MM timers are with correct values and the IUT is reacting properly to the expiry of a timer
FT/ME/	To check the behaviour of the LLME of the IUT
FT/ME/IT/	To check that LLME of the IUT provides sufficient conformance for possible interconnection without trying to perform thorough testing
FT/ME/CA/	Limited testing that the observable capabilities of the LLME of the IUT are in accordance with the static conformance requirements and the additional capabilities claimed in the PROFILE ICS/PROFILE IXIT
FT/ME/BV/	To test the LLME of the IUT in response to syntactically and contextual correct behaviour of the test system
FT/LC/	To check the behaviour of the LCE of the IUT