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Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP);
Profile Test Specification (PTS); Part 2: Profile Specific Test Specification (PSTS) -
Portable radio Termination (PT)

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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 2 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)".

<table>
<tr><td colspan="2" align="center">National transposition dates</td></tr>
<tr><td>Date of adoption of this EN:</td><td>5 April 2002</td></tr>
<tr><td>Date of latest announcement of this EN (doa):</td><td>31 July 2002</td></tr>
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</table>

1 Scope

The present document contains the test specification for Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP) Portable Part (PP) applications.

The main objective of the GAP 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 to 7 [8] to [10] 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) [13] to [21]. In addition as far as the Physical layer is concerned EN 300 176 parts 1 [11] and 2 [25] apply. Additional GAP specific test cases are included where required. The Profile IXIT is based on the DECT CI PIXITs specified in EN 300 497 parts 1 to 9 [13] to [21].

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.

[1] ETSI EN 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".

[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 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".

[7] ETSI EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".

[8] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[9] 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".

[10] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[11]   ETSI EN 300 176-1: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification; Part 1: Radio".

[12]   ETSI EN 300 476 (all parts): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma".

[13]   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".

[14]   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)".

[15]   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)".

[16]   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".

[17]   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".

[18]   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)".

[19]   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)".

[20]   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)".

[21]   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)".

[22]   ETSI ETS 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)".

[23]   ETSI ETS 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)".

[24]   ETSI EN 300 494-1: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 1: Summary".

[25]   ETSI EN 300 176-2: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification; Part 2: Speech".

3   Definitions and abbreviations

3.1   Definitions

For the purposes of the present document, the following terms and definitions given in ISO/IEC 9646 parts 1 to 7 [8] to [10], in EN 300 175 parts 1 to 7 [1] to [6] and in EN 300 444 [7] apply.

3.2 Abbreviations

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

AC	Authentication Code
ATS	Abstract Test Suite
BER	Bit Error Rate
CC	Call Control
CI	Common Interface
DCK	Derived Cipher Key
DLC	Data Link Control
EUT	Equipment Under Test
FT	Fixed radio Termination
GAP	Generic Access Profile
ICS	Implementation Conformance Statement
IPUI	International Portable User Identity
IUT	Implementation Under Test
IXIT	Implementation eXtra Information for Testing
LCE	Link Control Entity
LLME	Lower Layer Management Entity
LT	Lower Tester
MAC	Medium Access Control
MM	Mobility Management
NLF	New Link Flag
NPT	Normal Transmitted Power
NWK	NetWorK
OSI	Open Systems Interconnection
PARK	Portable Access Rights Key
PCTR	Profile Conformance Test Report
PHY	PHYsical
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
RF	Radio Frequency
RFP	Radio Fixed Part
RLR_H	Receiving Loudness Rating of the Handset
SARI	Secondary Access Rights Identity
SCS	System Conformance Statement
SCTR	System Conformance Test Report
SUT	System Under Test
TPUI	Temporary Portable User Identity
TS	Test System
TSS	Test Suite Structure
XRL	piXit Requirements List

4 Relevant test cases list

4.1 Network (NWK) layer

This clause includes lists of the test groups, and abstract test cases relevant for GAP Profile Test Specification (PTS) - Network (NWK) layer Portable radio Termination (PT) derived from EN 300 497-7 [19].

NOTE: References when necessary are given based on the particular test case name unique through all test specification EN 300 497 [13] to [21].

4.1.1   Test Suite Structure (TSS)

Table 1

TSS	
Suite Name: nwk_pt	
Standards Ref: EN 300 444 [7]; EN 300 497-7 [19]	
Profile ICS Ref: ETS 300 474-1 [22]	
Profile IXIT Ref: EN 300 494-2 (the present document)	
Test Method: remote	
Comments:	
Test Group Reference	**Test Group Objective**
PT/	To check the behaviour of the NWK layer of the PT (IUT)
PT/CC/	To check the IUT CC-state machine behaviour
PT/CC/IT/	To check that the IUT CC-state machine provides sufficient conformance for possible interconnection without trying to perform thorough testing
PT/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
PT/CC/BV/	To test the CC entity of the IUT in response to syntactically and contextual correct behaviour of the test system
PT/CC/BV/OC/	To check the IUT's behaviours to setup an outgoing call
PT/CC/BV/IC/	To check the IUT's behaviours to setup an incoming call
PT/CC/BV/CI/	To check the IUT's behaviour in information transfer procedures
PT/CC/BV/CR/	To check the IUT's behaviours to release an outgoing/incoming call
PT/CC/BV/RS/	To check the IUT's behaviour during call related supplementary service procedures
PT/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
PT/CC/BI/	To check the behaviour of the CC entity of the IUT in response to invalid messages
PT/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
PT/MM/	To check the behaviour of the Mobility Management (MM) entity of the IUT
PT/MM/IT/	To check that the MM entity of the IUT provides sufficient conformance for possible interconnection without trying to perform thorough testing
PT/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
PT/MM/BV/	To test the MM entity of the IUT in response to syntactically and contextual correct behaviour of the test system
PT/MM/BV/ID/	To check the IUT's behaviour concerning identity procedures
PT/MM/BV/AU/	To check the IUT's behaviour concerning the authentication procedures
PT/MM/BV/LO/	To check the IUT's behaviour concerning the location procedures
PT/MM/BV/AR/	To check the IUT's behaviour concerning the access rights procedures
PT/MM/BV/KA/	To check the IUT's behaviour concerning the key allocation procedure
PT/MM/BV/CH/	To check the IUT's behaviour concerning the ciphering related procedures
PT/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
PT/MM/BI/	To check the IUT in response to invalid MM messages
PT/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
PT/ME/	To check the behaviour of the LLME of the IUT
PT/ME/IT/	To check that LLME of the IUT provides sufficient conformance for possible interconnection without trying to perform thorough testing
PT/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
PT/ME/BV/	To test the LLME of the IUT in response to syntactically and contextual correct behaviour of the test system
PT/ME/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 LLME managed procedures
PT/LC/	To check the behaviour of the LCE of the IUT

TSS	
Suite Name: nwk_pt	
Standards Ref: EN 300 444 [7]; EN 300 497-7 [19]	
Profile ICS Ref: ETS 300 474-1 [22]	
Profile IXIT Ref: EN 300 494-2 (the present document)	
Test Method: remote	
Comments:	
Test Group Reference	**Test Group Objective**
PT/LC/IT/	To check that LCE of the IUT provides sufficient conformance for possible interconnection without trying to perform thorough testing
PT/LC/CA/	Limited testing that the observable capabilities of the LCE of the IUT are in accordance with the static conformance requirements and the additional capabilities claimed in the PROFILE ICS/PROFILE IXIT
PT/LC/BV/	To test the LCE of the IUT in response to syntactically and contextual correct behaviour of the test system
PT/LC/BV/LE/	To check the IUT's behaviour concerning the connection oriented link establishment procedures
PT/LC/BV/LR/	To check the IUT's behaviour concerning the connection oriented link release procedures
PT/LC/BI/	To check the IUT in response to invalid LCE messages
PT/LC/TI/	To verify that the IUT LCE timers are with correct values and the IUT is reacting properly to the expiry of a timer
Detailed Comments:	
The sub-sub-groups with identifiers PT/xx/IT/ and PT/xx/CA/ do not include their own test cases but only list an appropriate selection of tests from the relevant sub-group with identifier PT/xx/.	

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4.1.2   Test case index

Table 2

Test Case Index		
Test Group Reference	**Test Case Id**	**Description**
PT/CC/BV/OC/	TC_PT_CC_BV_OC_01	Outgoing call; T-00, T-01, T-02, T-03, T-04, T-10; piece wise dialling in T-02
	TC_PT_CC_BV_OC_02	Outgoing call; states T-00, T-01, T-10; piece wise dialling in T-10
	TC_PT_CC_BV_OC_03	Outgoing call; states T-00, T-01, T-02, T-10; piece wise dialling in T-02 and T-10
	TC_PT_CC_BV_OC_04	Outgoing call; U-plane connection upon << Progress ind. >> in {CC-SETUP-ACK}
PT/CC/BV/IC/	TC_PT_CC_BV_IC_01	Incoming call; T-01, T-06, T-07, T-08, T-10; << SIGNAL >> in T-07
	TC_PT_CC_BV_IC_02	Incoming call; T-01, T-06, T-07, T-08, T-10; << SIGNAL >> in {CC-SETUP}
PT/CC/BV/CI/	TC_PT_CC_BV_CI_01	Alerting the user; Incoming call; << SIGNAL >> in {CC-SETUP}
	TC_PT_CC_BV_CI_02	Go to pulse invocation in T-02; Outgoing call
	TC_PT_CC_BV_CI_03	Go to pulse invocation in T-10; Outgoing call
	TC_PT_CC_BV_CI_04	Dialling pause indication in T-02; Outgoing call
	TC_PT_CC_BV_CI_05	Dialling pause indication in T-10; Outgoing call
	TC_PT_CC_BV_CI_06	Go to DTMF invocation in T-02; defined tone length; Outgoing call
	TC_PT_CC_BV_CI_07	Go to DTMF invocation in T-10; defined tone length; Outgoing call
	TC_PT_CC_BV_CI_08	Go to DTMF invocation in T-02; infinite tone length; Outgoing call
	TC_PT_CC_BV_CI_09	Go to DTMF invocation in T-10; infinite tone length; Outgoing call
	TC_PT_CC_BV_CI_10	Outgoing normal call; T-02; {CC-INFO], sending << Multi keypad >>, "0-9, star, hash mark"
	TC_PT_CC_BV_CI_11	Internal call
	TC_PT_CC_BV_CI_12	T-10; {CC-INFO}, << Multi display >> standard characters handling
	TC_PT_CC_BV_CI_13	T-10; {CC-INFO}, << Multi display >> control characters handling
	TC_PT_CC_BV_CI_14	T-10; invocation of "Register recall"; {CC-INFO}, << Multi keypad >>
PT/CC/BV/CR/	TC_PT_CC_BV_CR_01	Outgoing normal call; T-02; FT initiated normal release
	TC_PT_CC_BV_CR_02	Outgoing normal call; T-03; FT initiated normal release
	TC_PT_CC_BV_CR_03	Outgoing normal call; T-04; FT initiated normal release
	TC_PT_CC_BV_CR_04	Incoming call; T-08; FT initiated normal release
	TC_PT_CC_BV_CR_05	T-10; FT initiated normal release
	TC_PT_CC_BV_CR_06	T-10; IUT initiated normal release
	TC_PT_CC_BV_CR_07	T-01; FT initiated abnormal release
	TC_PT_CC_BV_CR_08	T-02; FT initiated abnormal release
	TC_PT_CC_BV_CR_09	T-10; FT initiated abnormal release
	TC_PT_CC_BV_CR_10	T-10; FT initiated partial release
	TC_PT_CC_BV_CR_11	T-10; IUT initiated partial release
PT/CC/BV/RS/	TC_PT_CC_BV_RS_01	T-00; Incoming call; {CC-SETUP} with << Calling party number >>; CLIP handling
PT/CC/BO/	TC_PT_CC_BO_01	T-03; unexpected message {CC-CALL-PROC}; ignore
	TC_PT_CC_BO_02	T-19; receipt of {CC-RELEASE}; release collision; clear the call
PT/CC/BI/	TC_PT_CC_BI_01	T-00; {CC-SETUP} mandatory I.E. missing; answer upon with {CC-RELEASE-COM]
	TC_PT_CC_BI_02	T-00; {CC-SETUP} wrong mandatory I.E.; answer upon with {CC-RELEASE-COM]
	TC_PT_CC_BI_03	T-00; {CC-SETUP}-like message, non {CC-SETUP} unrecognized message type; ignore

Test Case Index		
Test Group Reference	**Test Case Id**	**Description**
PT/CC/TI/	TC_PT_CC_TI_01	T-19; timer P - < CC.02 > expiry (-10 % margin); IUT sends {CC-RELEASE-COM}
	TC_PT_CC_TI_02	Outgoing call; T-01; timer P - < CC.03 > expiry (-10 % margin); IUT sends {CC-RELEASE-COM}
	TC_PT_CC_TI_03	T-01; restarts P - < CC.03 > upon {CC-NOTIFY}
	TC_PT_CC_TI_04	Outgoing call; T-08; timer P - < CC.05 > expiry (-10 % margin); IUT sends {CC-RELEASE}
PT/MM/BV/ID/	TC_PT_MM_BV_ID_01	Identity request; IPUI type requested; active IPUI returned
	TC_PT_MM_BV_ID_02	Identity request; unavailable id. type requested; no identity in the reply
	TC_PT_MM_BV_ID_08	Identity request; PARK requested; active PARK returned
PT/MM/BV/AU/	TC_PT_MM_BV_AU_01	Authentication of PT; IUT(PT) has no stored ZAP value and service class info
	TC_PT_MM_BV_AU_02	Authentication of PT; unacceptable algorithm requested; reject
	TC_PT_MM_BV_AU_03	Authentication of PT; IUT(PT) has stored ZAP value; IUT includes ZAP value in the replay
	TC_PT_MM_BV_AU_04	Authentication of PT; ZAP increment handling
	TC_PT_MM_BV_AU_05	Authentication of PT; ZAP increment handling; unsuccessful authentication of FT; ZAP is not incremented
	TC_PT_MM_BV_AU_06	Authentication of PT; storage of DCK handling
	TC_PT_MM_BV_AU_07	Authentication of user
	TC_PT_MM_BV_AU_08	Authentication of FT; IUT initiated
	TC_PT_MM_BV_AU_09	Authentication of PT; IUT(PT) has stored service class info; IUT includes service class info in the reply
PT/MM/BV/LO/	TC_PT_MM_BV_LO_01	Location registration after obtain access rights; a44 and a38 = 1 at locking; no TPUI assignment
	TC_PT_MM_BV_LO_02	Location registration after obtain access rights; a44 and a38 = 1 at locking; TPUI assignment
	TC_PT_MM_BV_LO_03	Location registration after obtain access rights; a44 = 1 and a38 = 0 at locking; IUT does not perform location registration
	TC_PT_MM_BV_LO_04	Location registration; no CC activities; location area changes; a38 = 1 at locking and at the beginning of the procedure; no TPUI assignment
	TC_PT_MM_BV_LO_05	No CC activities; power off; power on; Location registration request
	TC_PT_MM_BV_LO_06	Location registration; unacceptable TPUI assignment; reject
	TC_PT_MM_BV_LO_07	Location registration; entering new location area; IUT deletes old TPUI-no TPUI in identity reply sent from IUT
	TC_PT_MM_BV_LO_08	Location update suggested by FT; Location registration initiated by IUT; a38 = 1 at locking and at the beginning of the procedure
	TC_PT_MM_BV_LO_09	Location update suggested by FT; Location registration initiated by IUT; a38 = 1 at locking, a38 = 0 at the beginning of the procedure
	TC_PT_MM_BV_LO_10	Verify that the IUT can correctly perform location registration and a following outgoing call when it uses SARI as the means to lock to the LT
PT/MM/BV/AR/	TC_PT_MM_BV_AR_01	Obtain access rights; a44 = 1; both sides use AC
	TC_PT_MM_BV_AR_03	Obtain access rights; a44 = 0; IUT does not initiate obtain access rights procedure
	TC_PT_MM_BV_AR_05	Terminate access rights; FT initiated; IUT(PT) may authenticate FT
	TC_PT_MM_BV_AR_06	Terminate access rights; FT initiated; IUT(PT) authenticates FT; authentication fails; termination rejected
	TC_PT_MM_BV_AR_09	Obtain access rights; FT assigns ZAP field; IUT stores it
	TC_PT_MM_BV_AR_10	Obtain access rights; FT assigns service class; IUT stores it
PT/MM/BV/KA/	TC_PT_MM_BV_KA_01	Key allocation
	TC_PT_MM_BV_KA_02	Key allocation; << Auth type >> unacceptable; reject
	TC_PT_MM_BV_KA_03	Key allocation; implicit authentication of FT fails; key is not allocated