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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 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), 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	
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1 Scope

The present document contains the test specification for Digital Enhanced Cordless Telecommunications (DECT) CTM Access Profile (CAP) Portable Part (PP) 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 to 7 [23] to [29] 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 [9] 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 [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, 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] EN 300 175-1 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
- [3] EN 300 175-2 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer (PHL)".
- [4] EN 300 175-3 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
- [5] EN 300 175-4 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
- [6] EN 300 175-5 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [7] EN 300 175-6 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
- [8] EN 300 175-7 (V1.4): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".
- [9] EN 300 176: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification".

- [10] EN 300 444 (V1.3): "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [11] ETS 300 476 (all parts): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma".
- [12] EN 300 494-2 (V1.2): "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 2: Profile Specific Test Specification (PSTS) - Portable radio Termination (PT)".
- [13] 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".
- [14] 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)".
- [15] 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)".
- [16] 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".
- [17] 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".
- [18] 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)".
- [19] 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)".
- [20] 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)".
- [21] 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)".
- [22] EN 300 824 (V1.2): "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP)".
- [23] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [24] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite Specification".
- [25] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [26] ISO/IEC 9646-4: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 4: Test realisation".
- [27] 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".

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

- terms defined in ISO/IEC 9646 Parts 1 to 7 [23] to [29];
- definitions in EN 300 175 Parts 1 to 7 [2] to [8];
- definitions in EN 300 444 [10];
- definitions in EN 300 824 [22].

3.2 Abbreviations

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

ATS	Abstract Test Suite
CAP	CTM Access Profile
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
IPUI	International Portable User Identity
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
PARK	Portable Access Rights Key
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
SARI	Secondary Access Rights Identity
SUT	System Under Test
TP	Test Purposes
TPUI	Temporary Portable User Identity

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) - Network (NWK) layer Portable radio Termination (PT) derived from EN 300 497-7 [19]. In addition all the test groups and abstract test cases relevant for GAP PTS, contained in EN 300 494-2 [12] shall apply.

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 300 824 [22]; EN 300 497-7 [19]	
Profile ICS Ref: DEN/DECT-040121	
Profile IXIT Ref: EN 301 371-2	
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/BV/HP/	To check the IUT 's behaviour during external handover 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
(continued)	

Table 1 (concluded)

TSS	
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
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
PT/IS	To check the IUT 's behaviour during call independant supplementary service procedures
PT/IS/BV	To test the CISS entity of the IUT in response to syntactically and contextual correct behaviour of the test system
Detailed Comments:	
1. 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/.	

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_06	LT simulates one FT the IUT has no subscription to. The LT shall transmit the extended higher layer capabilities bit a40 set to 1 prior to IUT locking. IUT may be or may be not locked. Verify that the IUT is able, prior to subscription, to perform a CC-state transition from the T-00 state to T-10 state for an outgoing emergency call set-up
	TC_PT_CC_BV_OC_07	The LT shall transmit the extended higher layer capabilities bit a40 set to 1 prior to IUT locking. Verify that the IUT is able, when it has subscription record in FT, to perform a CC-state transition from the T-00 state to T-10 state for an outgoing emergency call set-up
	TC_PT_CC_BV_OC_50	LT simulates one FT the IUT has no subscription to. The LT shall transmit the extended higher layer capabilities bit a40 set to 0 prior to IUT locking. Verify that the IUT does not initiate, prior to subscription, emergency call set-up
PT/CC/BV/HP/	TC_PT_CC_BV_HP_50	Verify that the IUT is able to perform the external handover call setup procedure. The external handover information will have been provided to the IUT in <<Ext h/o indicator>> and <<network parameter>> information elements in a CC-SETUP-ACK message during establishment of the outgoing call
	TC_PT_CC_BV_HP_51	Verify that the IUT is able to perform the external handover call setup procedure. The external handover information will have been provided to the IUT in <<Ext h/o indicator>> and <<network parameter>> information elements in a CC-INFO message during establishment of the outgoing call
	TC_PT_CC_BV_HP_52	Verify that the IUT is able to perform the external handover call setup procedure. The external handover information will have been provided to the IUT in <<Ext h/o indicator>> and <<network parameter>> information elements in a CC-CONNECT message during establishment of the outgoing call
	TC_PT_CC_BV_HP_53	Verify that the IUT is able to perform the external handover call setup procedure. The external handover information will have been provided to the IUT in <<Ext h/o indicator>> and <<network parameter>> information elements in a CC-SETUP message during establishment of the incoming call
	TC_PT_CC_BV_HP_54	Verify that the IUT is able to perform the external handover call setup procedure. The external handover information will have been provided to the IUT in <<Ext h/o indicator>> and <<network parameter>> information elements in a CC-INFO message during establishment of the incoming call
	TC_PT_CC_BV_HP_55	Verify that the IUT requests external handover parameters any time during an incoming call if the <<Ext h/o indicator>> information element provided during call setup had the OID value set to "1". Verify that the IUT is subsequently able to successfully complete the external handover call setup procedure
	TC_PT_CC_BV_HP_56	Verify that the IUT applies the handover reference retrieval procedure as soon as possible after establishment of an incoming call (only in CC active) where the <<network parameter>> information element was not supplied. Verify that the IUT is subsequently able to successfully complete the external handover call setup procedure

(continued)

Table 2 (continued)

Test Case Index		
	TC_PT_CC_BV_HP_57	Verify that the IUT starts the handover reference retrieval procedure as soon as possible after establishment of an incoming call (only in CC active) where the <<network parameter>> information element was not supplied. Verify that the IUT consider the handover reference retrieval procedure as failed upon receipt of a MM_INFO_REJECT and that after such failure the IUT does not attempt to carry out the external handover call setup procedure
	TC_PT_CC_BV_HP_58	Verify that the IUT starts the handover reference retrieval procedure as soon as possible after establishment of an incoming call (only in CC active) where the <<network parameter>> information element was not supplied. Verify that the IUT consider the Handover reference retrieval procedure as failed upon expiry of <MM_info.1> and that after such failure the IUT does not attempt to carry out the external handover call setup procedure
	TC_PT_CC_BV_HP_59	Verify that the IUT is able to perform the external handover call setup procedure and successfully establishes the U-plane on the new connection
	TC_PT_CC_BV_HP_60	Verify that the IUT is able to complete the external handover call setup procedure successfully when an abnormal link release occurs on the FP-1 link
	TC_PT_CC_BV_HP_61	Verify that, during the external handover call setup procedure, after call setup is complete on FP-2, the IUT releases the FP-1 link using a {CC-RELEASE} message containing a <<release reason>> indicating "external handover release" if timer N400 expires
	TC_PT_CC_BV_HP_62	Verify that, after handover has been accepted and the user release the call, call release procedure as defined in ETS 300 444 [10], subclause 8.7 is used with regard to FP-2
	TC_PT_CC_BV_HP_63	Verify that, after handover has been accepted and the network release the call, call release procedure as defined in ETS 300 444 [10], subclause 8.7 is used with regard to FP-2
	TC_PT_CC_BV_HP_64	Verify that, upon receipt of a link release indication (FP-2) before the handover request to FP-2 has been confirmed, the PT remain connected to FP-1
	TC_PT_CC_BV_HP_65	Verify that after performing the external handover call setup procedure on a ciphered connection, the IUT initiates and successfully performs the PT initiated ciphering procedure on the new connection
	TC_PT_CC_BV_HP_66	Verify that after performing the external handover call setup procedure, the IUT successfully performs the FT initiated ciphering procedure on the new connection when the {CIPHER-REQUEST} is sent before the first call is released by the LT
	TC_PT_CC_BV_HP_67	Verify that after performing the external handover call setup procedure, and initiating the PT initiated ciphering procedure on the new connection, the IUT releases the link on FP-2 if PT initiated ciphering fails
	TC_PT_CC_BV_HP_69	Verify that after performing the external handover call setup procedure to an FP in a different location area, the IUT immediately performs the location registration procedure on the new connection
	TC_PT_CC_BV_HP_70	Verify that after N501 consecutive unsuccessful external handover attempts, the IUT waits at least N500 seconds before initiating a new external handover attempt

(continued)

Table 2 (continued)

	TC_PT_CC_BV_HP_71	Verify the IUT is able to perform the external handover call setup procedure if the <<Ext h/o indicator>> information element provided during call setup indicated multiframe, multiframe number and PSCN synchronization in the SYNC field
	TC_PT_CC_BV_HP_72	Verify the IUT is able to perform the external handover call setup procedure if the <<Ext h/o indicator>> information element provided during call setup indicated multiframe and PSCN synchronization in the SYNC field
	TC_PT_CC_BV_HP_73	For those IUTs that support the feature, verify the IUT is able to perform the external handover call setup procedure if the <<Ext h/o indicator>> information element provided during call setup indicated multiframe synchronization in the SYNC field
	TC_PT_CC_BV_HP_74	For those IUTs that support the feature, verify the IUT is able to perform the external handover call setup procedure if the <<Ext h/o indicator>> information element provided during call setup indicated no synchronization in the SYNC field
PT/MM/BV/LO/	TC_PT_MM_BV_LO_50	Verify that the IUT transmits a valid DETACH message towards a public FP upon power down
	TC_PT_MM_BV_LO_51	The LT simulates 2 base stations (FP_1 and FP_2) with different RFPs. The IUT has subscription to both and is locked to FP_1. Verify that the IUT, when it is locked to the LT(FP_1), transmits a valid DETACH message towards the LT (FP_1) upon changing the active subscription to the subscription with FP_2. The DETACH shall be sent before initiation of location registration to the FP_2
	TC_PT_MM_BV_LO_52	Verify that the IUT periodically repeats the location procedure immediately after the expiry of the time period defined by the <<DURATION>> information element in the LOCATE-ACCEPT message. "Defined time limit 1" is indicated by the LT
	TC_PT_MM_BV_LO_53	Verify that the IUT periodically repeats the location procedure immediately after the expiry of the time period defined by the <<DURATION>> information element in the LOCATE-ACCEPT message. "Defined time limit 2" is indicated by the LT
	TC_PT_MM_BV_LO_54	Verify that the IUT does not repeat the location procedure when the time period defined by the <<DURATION>> information element in the LOCATE-ACCEPT message indicates "Infinite"
	TC_PT_MM_BV_LO_55	Verify that the IUT repeats the location procedure immediately after the expiry of the time period defined by the <<DURATION>> information element in the LOCATE-REJECT message. "Defined time limit 1" is indicated by the LT
	TC_PT_MM_BV_LO_56	Verify that the IUT will initiate location registration procedure after it locks to the LT(FP) if IUT loses lock and cannot lock again within the time period defined by the <<DURATION>> information element in the LOCATE-ACCEPT message. "Temporary user limit 1" is indicated by the LT
	TC_PT_MM_BV_LO_57	Verify that the IUT will initiate location registration procedure after it locks to the LT(FP) if IUT loses lock and cannot lock again within the time period defined by the <<DURATION>> information element in the LOCATE-ACCEPT message. "Temporary user limit 2" is indicated by the LT
	TC_PT_MM_BV_LO_58	Verify that the IUT will not initiate location registration procedure after it locks to the LT(FP) if IUT loses lock and cannot lock again within some time when the <<DURATION>> information element in the LOCATE-ACCEPT message indicated. "No limits"

(continued)

Table 2 (concluded)

	TC_PT_MM_BV_LO_59	Verify that the IUT deletes the TPUI if the IUT leaves the locked state with that LT (fails to receive the PARI) for more than T603 seconds when the <<DURATION>> information element in the LOCATE-ACCEPT message received during the last successful location registration indicated "Temporary user limit 2"
	TC_PT_MM_BV_LO_60	Verify that when the IUT receives no response to {LOCATE-REQUEST}, it makes a new location registration attempt after at least time N700 and before time N700+N800
	TC_PT_MM_BV_LO_61	Verify that the IUT can correctly perform location registration and a following outgoing call when it uses TARI as the means to lock to the LT
PT/MM/BV/AR/	TC_PT_MM_BV_AR_50	Verify that the IUT correctly performs the procedure of on-air modification of user parameters and that after this procedure the IUT stores the new parameters correctly
	TC_PT_MM_BV_AR_51	Verify that the IUT will not initiate the obtain access rights procedure in response to access rights modify suggest if the FT authentication procedure fails
	TC_PT_MM_BV_AR_52	Verify that the IUT will not modify the current access rights parameters if the obtain access rights procedure in response to access rights modify suggest fails due to link failure
	TC_PT_MM_BV_AR_53	Verify that the IUT will not modify the current access rights parameters if the obtain access rights procedure in response to access rights modify suggest fails due to no answer from the LT(FT)
PT/IS/BV/	TC_PT_IS_BV_50	Verify that the IUT as part of a Message waiting indication procedure, on reception of a {FACILITY} message containing a <<FACILITY>> information element specifying "numberOfMessages" equal to 127 and 'basicService' equal to "speech (1)" provides a suitable indication to the user that a speech message is waiting
	TC_PT_IS_BV_51	Verify that the IUT as part of a Message waiting indication procedure, on reception of a {FACILITY} message containing a <<FACILITY>> information element specifying "numberOfMessages" equal to 127 and 'basicService' equal to "teletex (33)" provides a suitable indication to the user that a teletex message is waiting
	TC_PT_IS_BV_52	Verify that the IUT as part of a Message waiting indication procedure, on reception of a {FACILITY} message containing a <<FACILITY>> information element specifying "numberOfMessages" equal to 127 and 'basicService' equal to "allServices (0)" provides a suitable indication to the user that a message is waiting
	TC_PT_IS_BV_53	Verify that the IUT, starting from a state where there is an indication to the user that a message is waiting, deactivates the indication when the IUT is switched off and on
	TC_PT_IS_BV_54	Verify that the IUT, starting from a state where there is an indication to the user that a message is waiting, deactivates the indication after receipt of FACILITY messages containing MWIndicate for each basic service specifying a zero numberOfMessages
	TC_PT_IS_BV_55	Verify that the IUT, after receiving the following sequence of FACILITY messages maintains the message waiting indication for unknown messages
	TC_PT_IS_BV_56	Verify that the IUT will delete the Message waiting information upon changing of subscription (the active IPUI/PARK pair)
Detailed Comments:		
1. The PT is the IUT.		

4.2 Data Link Control (DLC) layer

All test groups and test cases contained in the GAP PTS EN 300 494-2 [12] shall apply. There are no additional test groups and abstract test cases.

4.3 Medium Access Control (MAC) layer

This subclause includes lists of the test groups and the abstract test cases relevant for CAP PTS - MAC layer PT derived from EN 300 497-2 [14]. In addition all the test groups and abstract test cases relevant for GAP PTS, contained in EN 300 494-2 [12] shall apply.

4.3.1 Test suite structure

Table 3

Test Suite Structure	
Suite Name: mac_pt	
Standards Ref: EN 300 824 [22]; EN 300 497-2 [14]	
Profile ICS Ref: DEN/DECT-040121	
Profile IXIT Ref: EN 300 494-2 [12]	
Test Method: remote (modified)	
Comments:	
Test Group Reference	Test Group Objective
PT/	Verify the correct implementation of the PT (IUT) MAC layer
PT/DB/	Verify the correct implementation of the Downlink broadcast services handling
PT/DB/BV/	To test the behaviour of the IUT in response to syntactically and contextual correct behaviour of the test system
PT/PG/	Verify the correct implementation of the paging services handling
PT/PG/CA/	Limited testing that the observable capabilities of the IUT concerning the paging services are in accordance with the static conformance requirements and the additional capabilities claimed in the PROFILE ICS/PROFILE IXIT
PT/PG/BV/	To test the behaviour of the IUT in relation to syntactically and contextual correct behaviour of the test system
PT/BS/	Verify the correct implementation of connection oriented bearer setup procedures
PT/BS/CA/	Limited testing that the observable capabilities of the IUT concerning the connection oriented bearer setup procedures are in accordance with the static conformance requirements and the additional capabilities claimed in the PROFILE ICS/PROFILE IXIT
PT/BS/BV/	To test the behaviour of the IUT in relation to syntactically and contextual correct behaviour of the test system
PT/BH/	Verify the correct implementation of connection oriented bearer handover procedures
PT/BH/CA/	Limited testing that the observable capabilities of the IUT concerning the connection oriented bearer handover procedures are in accordance with the static conformance requirements and the additional capabilities claimed in the PROFILE ICS/PROFILE IXIT
PT/BR/	Verify the correct implementation of connection oriented bearer release procedures
PT/BR/CA/	Limited testing that the observable capabilities of the IUT concerning the connection oriented bearer release procedures are in accordance with the static conformance requirements and the additional capabilities claimed in the PROFILE ICS/PROFILE IXIT
PT/DT/	Verify the correct implementation of connection oriented data transfer procedures
PT/DT/CA/	Limited testing that the observable capabilities of the IUT concerning the connection oriented data transfer procedures are in accordance with the static conformance requirements and the additional capabilities claimed in the PROFILE ICS/PROFILE IXIT
PT/DT/BI/	To check the behaviour of the of the IUT in response to invalid messages
PT/LM/	Verify the correct implementation of the LLME MAC layer management procedures
PT/LM/CA/	Limited testing that the observable capabilities of the IUT concerning the LLME MAC layer management procedures are in accordance with the static conformance requirements and the additional capabilities claimed in the PROFILE ICS/PROFILE IXIT
Detailed Comments:	

4.3.2 Test case index

Table 4

Test Case Index		
Test Group Reference	Test Case Id	Description
PT/DB/BV/	TC_PT_DB_BV_50	Check that the IUT successfully performs the non-continuous broadcast procedure and locks to an FT which supports a TARI matching one of the IUT 's PARKs (the FT PARI and SARI do not match any of the IUT 's PARKs)
	TC_PT_DB_BV_51	Check that the IUT does not attempt to send an access request to an RFP which is broadcasting "RFP busy" in the RFP status message after reception of this status message at the IUT. Verify that the IUT tries to access another RFP instead
	TC_PT_DB_BV_52	Check that the IUT does not attempt to send an access request to an FP which is broadcasting "system busy" in the RFP status message after reception of this status message at the IUT
	TC_PT_DB_BV_53	Verify the IUT successfully completes the bearer setup procedure using the emergency PMID when making an emergency call
	TC_PT_DB_BV_54	Check that the IUT does not enter the idle locked state after receiving the QT SARI list contents message containing BLACK ARI equal to the IUT PARK (the LT PARI does not match the IUT PARK)
	TC_PT_DB_BV_55	Check that the IUT does not enter the idle locked state after receiving the QT SARI list contents message containing BLACK ARI mask that includes the IUT PARK (the LT PARI does not match the IUT PARK)
Detailed Comments:		
1. The PT is the IUT.		

4.4 Physical (PH) layer

The GAP PTS contained in EN 300 494-2 [12] shall apply.

5 Additional test cases list

5.1 Test purposes

This subclause includes all the test purposes developed for covering the CAP behaviour not included in the EN 300 497, Parts 1, 4 and 6 [13], [16] and [18], EN 300 176 [9] and EN 300 494-2 [12].

5.1.1 NWK layer

No additional test purposes.

5.1.2 DLC layer

No additional test purposes.

5.1.3 MAC layer

No additional test purposes.

5.1.4 PH layer

No additional test purposes.

5.1.5 Application layer

This subclause includes all the test purposes developed for covering the CAP behaviour not included in EN 300 176 [9] and EN 300 494-2 [12].

Table 5

Nr.	Test purpose	Comment
CAP/AP-01 TP/PT/AP/01 DECT/T (98) 17, page 3	EN 300 824 [22], subclause 15.2 Check that the IUT is capable of storing at least four subscriptions [Suggestion: use a manufacturer 's declaration for this test]	

5.2 Test cases

This subclause includes all test cases developed for covering the CAP behaviour not included in the EN 300 497, Parts 2, 5 and 7 [14], [17] and [19], EN 300 176 [9] and EN 300 494-2 [12].

5.2.1 NWK layer

No additional test cases.

5.2.2 DLC layer

No additional test cases.

5.2.3 MAC layer

No additional test cases.

5.2.4 PH layer

No additional test cases.

5.2.5 Application layer

No additional test cases.

Annex A (normative): Profile Implementation eXtra Information for Testing (IXIT) proforma

A.1 General

This annex specifies restrictions on answers, and additional questions to (and is intended to be used with) the PIXIT proformas specified in EN 300 497, Parts 2, 3, 5, 8 and 9 [14], [15], [17], [20], and [21] and the GAP PTS PIXIT specified in EN 300 494-2 [12].

A.2 Profile IXIT Requirements List (XRL)

This subclause specifies restrictions on answers relevant to CAP PTS. If a question exists in the relevant DECT CI PIXIT or the GAP PTS PIXIT but is not listed in the tables of this subclause this means that such a question does not need modifications and is fully applicable for CAP.

A.2.1 NWK layer protocol

Table A.1

No.	Name	Parameter type	Explanation	Value
1	TSPX_cap_min_sync	BOOLEAN	Is CAP profile feature N1 supported with minimum sync. between FP?	
2	TSPX_emergency_number_length	INTEGER	Length of the emergency number generated by the PP or typed by the operator	
3	TSPX_location_area_level_2	BIT_6	The second location area level that is going to be used with the second FP (FP-2)	
4	TSPX_tpui2_value	PORT_ID_VALUE_TYPE	Value of tpui to be used, when assigning a second tpui to the IUT	
5	TSPX_pt_init_cipher_flag2	BOOLEAN	True if IUT uses PT initiated cipher switching after external handover setup, even if FT initiated cipher switching was used on first call	

A.2.2 DLC layer protocol

The GAP PTS PIXIT shall apply.

A.2.3 MAC layer protocol

The GAP PTS PIXIT shall apply.

A.2.4 PH layer protocol

The GAP PTS PIXIT shall apply.

A.3 Profile specific IXIT

This subclause contains additional information to the DECT CI PIXIT 's and GAP PTS PIXIT 's questions related to the requirements of the CAP Profile Specific Test Specification (PSTS).

A.3.1 NWK layer

No additions required.

A.3.2 DLC layer

No additions required.

A.3.3 MAC layer

No additions required.

A.3.4 PH layer

No additions required.

A.3.5 Application layer

No additions required.

A.3.6 Configuration constraints

This subclause includes constraints on the configuration of the IUT to restrict its operation to the CAP Profile only.

No constraints on the configuration of the IUT required.

Annex B (normative): Profile Conformance Test Report (PCTR) proforma

Notwithstanding the provisions of the copyright Clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the Profile CTR proforma in this annex so that it can be used for its intended purposes and may further publish the completed Profile CTR.

B.1 Identification summary

B.1.1 Profile CTR

PCTR Number	
PCTR Date	
Test Laboratory	
Accreditation Status	
Accreditation Reference	
Technical Authority	
Job Title	
Signature	
Test Laboratory Manager	
Signature	

B.1.2 Implementation Under Test (IUT)

Name	
Version	
Protocol Specification	EN 300 824 [22]
Profile ICS	DEN/DECT-040121

B.1.3 Testing environment

Profile IXIT	EN 301 371 -2
Profile Specific Test Specification	EN 301 371 -2
ATM	Remote
MOT	
Period of testing	
Conformance Log reference	
Retention Date of Log reference	

B.1.4 Limits and reservations

The order of test cases listed in clause B.6 (if any) of this annex corresponds to the ordering of test cases defined in the PSTS referenced in subclause B.1.3. This does not indicate that the test cases were executed in this order.

The test results presented in this test report apply only to the particular IUT declared in subclause B.1.2, as presented for test in the period declared in subclauses B.1.3, and configured as declared in the relevant IXIT attached to this PCTR. This report shall not be reproduced except in full together with its attached ICS and IXIT.

NOTE: Additional information relevant to the technical contents or further use of the test report, or to the rights and obligations of the test laboratory and the client, may be given here. Such information may include restrictions on the publication of the report.

B.1.5 Comments

Additional comments may be given by either the client or test laboratory on any of the contents of the PCTR, for example, to note disagreement between the two parties.

Additional comments reference in annex:	
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B.2 IUT conformance status

IUT conformance status	Yes/No
The IUT conformance to the referenced base specification	

NOTE: For further details see ISO 9646-5 [27], annex B, clause 2.

B.3 Static conformance summary

Static conformance summary	Yes/No
The ICS for this IUT consistency with the static conformance requirements in the referenced base specification	

NOTE: For further details see ISO 9646-5 [27], annex B, clause 3.

B.4 Dynamic conformance summary

Dynamic conformance summary	Yes/No
Errors in the IUT revealed by the test campaign.	

NOTE: For further details see ISO 9646-5 [27], annex B, clause 4.

B.5 Static conformance review report

If clause B.3 indicates non-conformance, this clause itemises the mismatches between the ICS and the static conformance requirements of the referenced base specifications: ETS 300 476 [11] and DEN/DECT-040121

Non-conformance indication		Comment
Item in ETS 300 476 [11]	Item in DEN/DECT-040121	

B.6 Test campaign report

The following table lists all the Test Cases (TCs) referenced in clause 4 and required by the present document. The abbreviations used in the verdict column stand for Pass (P), Fail (F) and Inconclusive (I). In addition, all test cases for GAP in EN 300 494-2 [12] shall apply.

NOTE: For further details see ISO 9646-5 [27], annex B, clause 6.

B.6.1 NWK layer

TC Name	Selected [Yes/No]	Run [Yes/No]	Verdict [P/F/I]	Observation
TC_PT_CC_BV_OC_06				
TC_PT_CC_BV_OC_07				
TC_PT_CC_BV_OC_50				
TC_PT_CC_BV_HP_50				
TC_PT_CC_BV_HP_51				
TC_PT_CC_BV_HP_52				
TC_PT_CC_BV_HP_53				
TC_PT_CC_BV_HP_54				
TC_PT_CC_BV_HP_55				
TC_PT_CC_BV_HP_56				
TC_PT_CC_BV_HP_57				
TC_PT_CC_BV_HP_58				
TC_PT_CC_BV_HP_59				
TC_PT_CC_BV_HP_60				
TC_PT_CC_BV_HP_61				
TC_PT_CC_BV_HP_62				
TC_PT_CC_BV_HP_63				
TC_PT_CC_BV_HP_64				
TC_PT_CC_BV_HP_65				
TC_PT_CC_BV_HP_66				
TC_PT_CC_BV_HP_67				
TC_PT_CC_BV_HP_69				
TC_PT_CC_BV_HP_70				
TC_PT_CC_BV_HP_71				
TC_PT_CC_BV_HP_72				
TC_PT_CC_BV_HP_73				
TC_PT_CC_BV_HP_74				
TC_PT_MM_BV_LO_50				
TC_PT_MM_BV_LO_51				
TC_PT_MM_BV_LO_52				
TC_PT_MM_BV_LO_53				
TC_PT_MM_BV_LO_54				
TC_PT_MM_BV_LO_55				
TC_PT_MM_BV_LO_56				
TC_PT_MM_BV_LO_57				
TC_PT_MM_BV_LO_58				
TC_PT_MM_BV_LO_59				
TC_PT_MM_BV_LO_60				
TC_PT_MM_BV_LO_61				
TC_PT_MM_BV_AR_50				
TC_PT_MM_BV_AR_51				
TC_PT_MM_BV_AR_52				
TC_PT_MM_BV_AR_53				
TC_PT_IS_BV_50				
TC_PT_IS_BV_51				
TC_PT_IS_BV_52				
TC_PT_IS_BV_53				
TC_PT_IS_BV_54				
TC_PT_IS_BV_55				
TC_PT_IS_BV_56				

B.6.2 DLC layer

There are no additional test cases for CAP.

B.6.3 MAC layer

TC Name	Selected [Yes/No]	Run [Yes/No]	Verdict [P/F/I]	Observation
TC_PT_DB_BV_50				
TC_PT_DB_BV_51				
TC_PT_DB_BV_52				
TC_PT_DB_BV_53				
TC_PT_DB_BV_54				
TC_PT_DB_BV_55				

There are no additional test cases for CAP.

B.7 Observations

NOTE: Additional information relevant to the technical content of the PCTR may be given here.

Annex C (normative): System Conformance Test Report (SCTR) proforma

Notwithstanding the provisions of the copyright Clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the SCTR proforma in this annex so that it can be used for its intended purposes and may further publish the completed SCTR.
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C.1 Identification summary

C.1.1 System Conformance Test Report (SCTR)

SCTR Number	
SCTR Date	
Test Laboratory Manager	
Signature	

C.1.2 Test laboratory

Identification	
Address	
Postal code/city	
Country	
Telephone	
Telefax	
Telex	
Teletex	
E-Mail	

C.1.3 Client

Identification	
Address	
Postal code/city	
Country	
Telephone	
Telefax	
Telex	
Teletex	
E-Mail	

C.1.4 System Under Test (SUT)

Name	
Version	
Supplier	
Dates of testing	
Date of receipt of SUT	
Location of SUT for Testing	
SCS Identifier	

C.1.5 Profile

Profile Identification	EN 300 824 [22]
Profile Version	
Profile ICS	DEN/DECT-040121
Profile Specific IXIT	EN 301 371-2
PTS-Summary	EN 301 371-1 [1]
PSTS	EN 301 371-2

C.1.6 Nature of conformance testing

The purpose of conformance testing is to increase the probability that different implementations can interwork in different environments. However, the complexity of OSI protocols makes exhaustive testing impractical on both technical and economic grounds. Furthermore, there is no guarantee that a SUT which has passed all the relevant test cases conforms to a specification. Neither is there any guarantee that such a SUT will interwork with other real open systems. Rather, passing of the test cases gives confidence that the SUT has the stated capabilities and that its behaviour conforms consistently in representative instances of communication.

C.1.7 Limits and reservations

The test results presented in this test report apply only to the particular SUT and component IUTs declared in subclauses C.1.4 and C.1.8, for the functionality described in the referenced SCS and in the ICS referenced in each PCTR, as presented for test in the period declared in subclause C.1.4 and configured as declared in the relevant IXIT referenced in each PCTR. This SCTR may not be reproduced except in full, together with its SCS.

NOTE: Additional information relevant to the technical contents or further use of the test report, or to the rights and obligations of the test laboratory and the client, may be given here. Such information may include restrictions on the publication of the report.

C.1.8 Record of agreement

A definition of what parts of the SUT were considered to be the IUT during testing, and of the abstract test method and abstract test suite that were used:

IUT Definition Reference	Protocol	ATM	ATS
	DECT NWK layer PT	Remote	EN 301 371-2
	DECT DLC layer PT	Not applicable	EN 301 371-2
	DECT MAC layer PT	Remote	EN 301 371-2
	DECT PH layer PT	Not applicable	EN 301 371-2

C.1.9 Comments

Additional comments reference in annex:	
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NOTE: Additional comments may be given by either the client or test laboratory on any of the contents of the SCTR, for example, to note disagreement between the two parties.

C.2 System report summary

C.2.1 Profile testing summary for CAP NWK layer PT

Accreditation status	
Accreditation reference	
Implementation identifier	
IUT definition reference	
Protocol specification	EN 300 175-5 [6] EN 300 824 [22]
Profile ICS	DEN/DECT-040121
Profile IXIT	EN 301 371-2
PCTR Number	
PCTR Date	
PSTS	EN 301 371-2
ATM	Remote
Means of Testing identifier	
Conformance Status	
Conformance Status	
Static conformance errors	Yes / No
Dynamic conformance errors	Yes / No
Test cases all	
Selected	
Run	
Passed	
Inconclusive	
Failed	
Observations	

NOTE: If the SUT is not statically and dynamically conforming to this protocol, an additional summary may be given on aspect of non conformance. Any difficulties encountered may be reported here.

C.2.2 Profile testing summary for CAP DLC layer PT

There is no additional profile testing for CAP DLC layer PT.

C.2.3 Profile testing summary for CAP MAC layer PT

Accreditation status	
Accreditation reference	
Implementation identifier	
IUT definition reference	
Protocol specification	EN 300 175-3 [4] EN 300 824 [22]
ICS	DEN/DECT-040121
IXIT	EN 301 371-2
PCTR Number	
PCTR Date	
PSTS	EN 301 371-2
ATM	Remote (modified)
Means of Testing identifier	
Conformance Status	
Conformance Status Static conformance errors Dynamic conformance errors	Yes / No Yes / No
Test cases all	
Selected	
Run	
Passed	
Inconclusive	
Failed	
Observations	

NOTE: If the SUT is not statically and dynamically conforming to this protocol, an additional summary may be given on aspect of non conformance. Any difficulties encountered may be reported here.

C.2.4 Profile testing summary for CAP PH layer PT

There is no additional profile testing for CAP PH layer FT.

Annex D (normative): System Conformance Statement (SCS) proforma

Notwithstanding the provisions of the copyright Clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the SCS proforma in this annex so that it can be used for its intended purposes and may further publish the completed SCS.

D.1 Identification summary

D.1.1 SCS identification

SCS Serial Number	
SCS Date	

D.1.2 IUT identification

Trade Name	
Type	
Version	
Serial Number	

D.1.3 Client identification

Company	
Street Number	
Postal Code / City	
Country	
Contact Person Name	
Telephone	
Telefax	
Telex	
Teletex	
E-Mail	

D.1.4 Supplier identification

Company	
Street Number	
Postal Code / City	
Country	
Contact Person Name	
Telephone	
Telefax	
Telex	
Teletex	
E-Mail	

D.1.5 Manufacturer identification

(if different from client)

Company	
Street Number	
Postal Code / City	
Country	
Contact Person Name	
Telephone	
Telefax	
Telex	
Teletex	
E-Mail	

D.1.6 Protocols identification

Protocol Name	Specification Reference	PICS Reference	PCTR Reference	PCTR Reference from previous campaign
DECT NWK layer	EN 300 175-5 [6]	ETS 300 476 [11]	-	
DECT DLC layer	EN 300 175-4 [5]	ETS 300 476 [11]	-	
DECT MAC layer	EN 300 175-3 [4]	ETS 300 476 [11]	-	
DECT PH layer	EN 300 175-2 [3]	ETS 300 476 [11]	-	

D.1.7 Profile identification

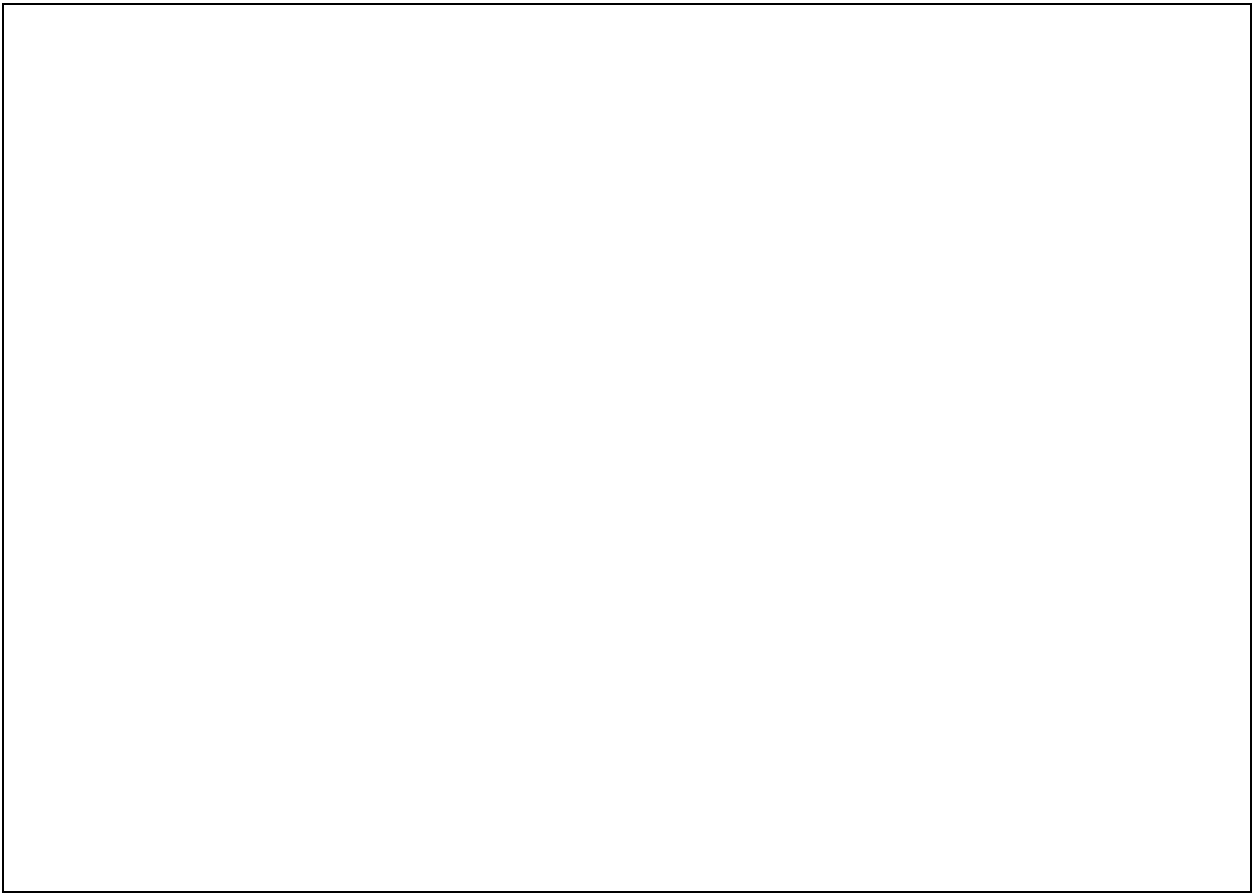
Profile Identifier	Specification Reference	Profile ICS Specific Reference	SCTR Reference	SCTR reference from previous campaign
CTM Access Profile (CAP)	EN 300 824 [22]	DEN/DECT-040121	EN 301 371-1 [1]	

D.2 Miscellaneous system information

D.2.1 Configuration

Environment	Which one
CPU Type	
Bus-System	
Operating System Name	
Additional	

D.2.2 Other information



Bibliography

- DEN/DECT-040121-1: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM);CTM Access Profile (CAP); Profile requirement list and profile specific Implementation Conformance Statement (ICS) proforma; Part 1: Portable radio Termination (PT)".
- DEN/DECT-040121-2: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM);CTM Access Profile (CAP); Profile requirement list and profile specific Implementation Conformance Statement (ICS) proforma; Part 2: Fixed radio Termination (FT)".

History

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