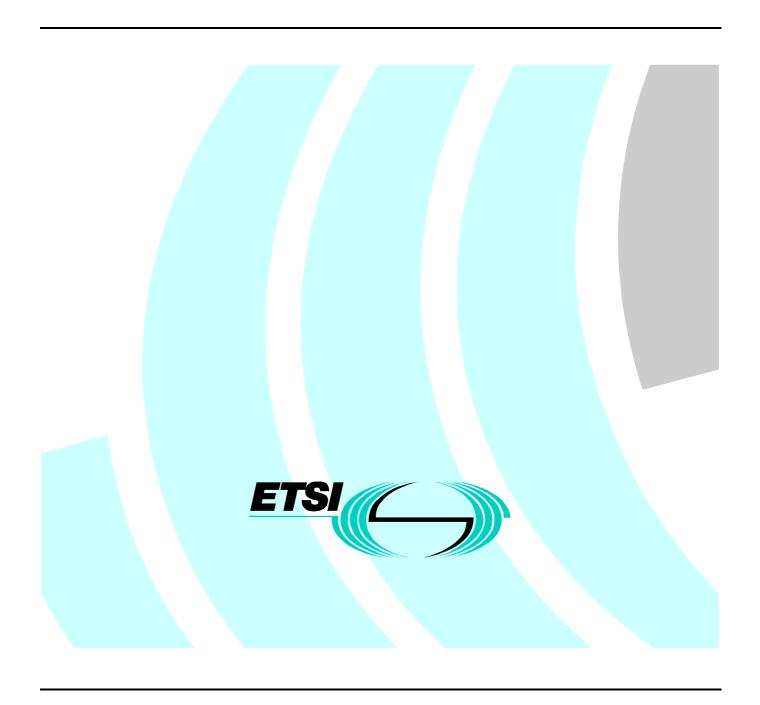
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European Standard (Telecommunications series)

Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 1: Test Suite Structure and Test Purposes (TSS&TP) for Medium Access Control (MAC) layer



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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 Voting phase of the ETSI standards Two-step Approval Procedure.

The present document is part 1 of a multi-part EN covering the Common Interface (CI) Test Case Library (TCL), as identified below:

- Part 1: "Test Suite Structure (TSS) and Test Purposes (TP) for Medium Access Control (MAC) layer";
- Part 2: "Abstract Test Suite (ATS) for Medium Access Control (MAC) layer Portable radio Termination (PT)";
- Part 3: "Abstract Test Suite (ATS) for Medium Access Control (MAC) layer Fixed radio Termination (FT)";
- Part 4: "Test Suite Structure (TSS) and Test Purposes (TP) Data Link Control (DLC) layer";
- Part 5: "Abstract Test Suite (ATS) Data Link Control (DLC) layer";
- Part 6: "Test Suite Structure (TSS) and Test Purposes (TP) Network (NWK) layer Portable radio Termination (PT)";
- Part 7: "Abstract Test Suite (ATS) for Network (NWK) layer Portable radio Termination (PT)";
- Part 8: "Test Suite Structure (TSS) and Test Purposes (TP) Network (NWK) layer Fixed radio Termination (FT)";
- Part 9: "Abstract Test Suite (ATS) for Network (NWK) layer Fixed radio Termination (FT)".

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
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1 Scope

The present document contains the Test Suite Structure (TSS) and Test Purposes (TP) to test the Digital Enhanced Cordless Telecommunications (DECT) Medium Access Control (MAC) layer.

The objective of this test specification is to provide a basis for conformance tests for DECT equipment giving a high probability of air interface inter-operability between different manufacturer's DECT equipment.

The ISO standard for the methodology of conformance testing (ISO/IEC 9646-1 [10] and ISO/IEC 9646-2 [11]) as well as the ETSI rules for conformance testing (ETS 300 406 [9]) are used as a basis for the test methodology.

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 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
- [2] EN 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer (PHL)".
- [3] EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
- [4] EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
- [5] EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [6] EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
- [7] EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".
- [8] EN 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech coding and transmission".
- [9] ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [10] ISO/IEC 9646-1: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts".
- [11] ISO/IEC 9646-2: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 2: Abstract Test Suite Specification".
- [12] ISO 7498: "Information Processing Systems Open Systems Interconnection Basic Reference model".

[13] EN 300 824: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 300 175-1 [1] and the following apply:

Implementation Under Test (IUT): see ISO/IEC 9646-1 [10].

Physical Layer (PHL): see ISO 7498 [12].

Protocol Implementation Conformance Statement (PICS): see ISO/IEC 9646-1 [10].

PICS proforma: see ISO/IEC 9646-1 [10].

3.2 Abbreviations

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

ARQ Automatic Repeat Request

BI Invalid Behaviour
BV Valid Behaviour
C-Plane Control plane
CA Capability tests
C/O Connection Oriented
CI Common Interface
CSF Cell Site Function

DECT Digital Enhanced Cordless Telecommunications

DLC Data Link Control

FP Fixed Part

FT Fixed radio Termination

 I_N higher layer Information channel (unprotected)

IUT Implementation Under Test
LLME Lower Layer Management Entity

 $\begin{array}{ll} \text{MAC} & \text{Medium Access Control} \\ \text{N}_{\text{T}} & \text{identities channel} \\ \text{PDU} & \text{Protocol Data Unit} \\ \text{PHL} & \text{Physical Layer} \end{array}$

PICS Protocol Implementation Conformance Statement

 $\begin{array}{ll} \text{PP} & \quad \text{Portable Part} \\ \text{P}_{\text{T}} & \quad \text{Paging channel} \end{array}$

 $\begin{array}{ll} PT & & Portable\ radio\ Termination \\ Q_T & & system\ information\ channel \end{array}$

RF Radio Frequency
RFP Radio Fixed Part
TSS Test Suite Structure
TP Test Purposes
U-Plane User Plane

4 Test suite structure

4.1 Overview

MAC layer is layer 2a of the DECT protocol stack.

Lower	Network layer		(3)
Layer	Data Link Control layer C-Plane	Data Link Control layer U-Plane	(2b)
Management	Medium Access Control layer		(2a)
Entity	Physical layer		(1)

NOTE 1: C-Plane: Control Plane. NOTE 2: U-Plane: User Plane.

Figure 1: DECT protocol stack

MAC layer specifies three groups of services:

- the broadcast message control service;
- the connectionless message control service; and
- the multi-bearer control service.

The MAC layer also specifies the logical channels that are used by the above mentioned services, and how they are multiplexed and mapped into the service data units that are exchanged with the physical layer.

Figure 2 shows the MAC Test Suite Structure (TSS) including its subgroups defined for the conformance testing.

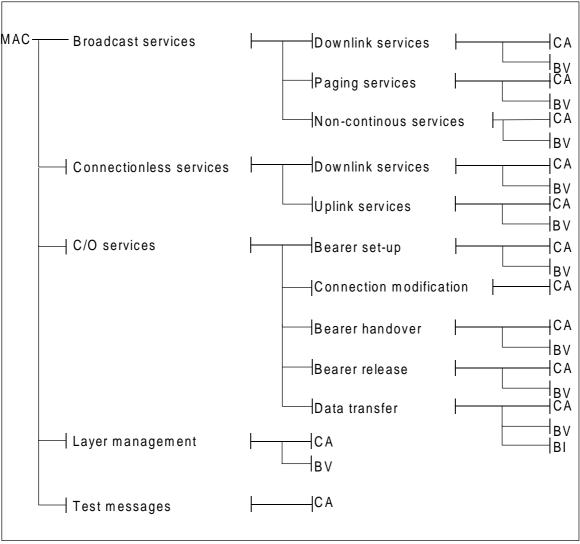


Figure 2: TSS for DECT MAC layer (layer 2a of DECT protocol stack)

4.2 Test suite structure (TSS)

The test suite is structured as a tree with a first level defined as MAC representing the protocol group "MAC for PP and FP".

4.3 Test groups

The test groups are organized in three levels. The first level creates five protocol groups representing the protocol services and the standard ISO main group BI. The second level, if the third level exists, separates the protocol services in functional modules. The last level in each branch contains the standard ISO subgroups CA, BV and BI.

4.3.1 Protocol groups

The protocol groups identifies the DECT MAC services: broadcast services, connectionless services, connection oriented services, layer management procedures, test messages procedures, as defined in EN 300 175, Parts 1 to 8 [1] to [8].

4.3.1.1 Broadcast services

The broadcast services protocol group is divided in three functional modules. The first functional module identifies the downlink broadcast services. The second functional module identifies the paging services. The last functional module identifies the non-continuous broadcast services.

4.3.1.2 Connectionless services

The connectionless services protocol group is divided in two functional modules. The first functional module identifies the downlink connectionless services. The last functional module identifies the uplink connectionless services.

4.3.1.3 Connection oriented services

The connection oriented services protocol group is divided in five functional modules. The first functional module distinguishes the bearer setup subgroup. The second functional module distinguishes the connection modification subgroup. The third functional module distinguishes the bearer handover subgroup. The fourth functional module distinguishes the bearer release subgroup. The last functional module distinguishes the data transfer subgroup.

4.3.1.4 Layer management procedures

The layer management procedures protocol group contains directly the main test groups.

4.3.1.5 Test messages procedures

The test messages procedures protocol group contains directly the main test group CA.

4.3.2 Main test groups

The main test groups are the capability group, the valid behaviour group and the invalid behaviour group.

4.3.2.1 Capability (CA) tests

This test sub group shall provide limited testing of the major IUT capabilities aiming to insure that the claimed capabilities are correctly supported, according to the PICS.

4.3.2.2 Valid Behaviour (BV) tests

This test sub group shall verify that the IUT reacts in conformity with the EN, after receipt or exchange of a valid Protocol Data Units (PDUs). Valid PDUs means that the exchange of messages and the content of the exchanged messages are considered as valid.

4.3.2.3 Invalid Behaviour (BI) tests

This test sub group shall verify that the IUT reacts in conformity with the EN, after receipt of a syntactically invalid PDU.

5 Test Purposes (TP)

5.1 Introduction

5.1.1 TP definition conventions

The TPs are defined following particular rules as shown in table 1.

Table 1: TP definition rules

TP Id according to the TP	Reference	
naming conventions	Initial condition	
	Stimulus	
	Expected behaviour	
TP ld	The TP Id is a unique identifier it shall be specified according to the TP naming	
	conventions defined in the subclause below.	
Reference	The reference should contain the references of the subject to be validated by the actual	
	TP (specification reference, clause, paragraph).	
Condition	The condition defines in which initial state the IUT has to be to apply the actual TP.	
Stimulus The stimulus defines the test event to which the TP is related.		
Expected behaviour	Definition of the events that are expected from the IUT to conform to the base	
	specification.	

5.1.2 TP naming conventions

The identifier of the TP is built according to table 2.

Table 2: TP naming convention

Identifier:	TP/ <fm>/<x>-<nn></nn></x></fm>		
	<fm> = functional module</fm>	DB	Downlink Broadcast
		PG	Paging services
		NB	Non Continuous Broadcast
		DC	Downlink Connectionless
		UC	Uplink Connectionless
		BS	Bearer setup
		CM	Connection modification
		BH	Bearer handover
		BR	Bearer release
		DT	Data transfer
		LM	Layer Management
		TM	Test Messages
	x = Type of testing	CA	Capability Tests
		BV	Valid Behaviour Tests
		BI	Invalid Behaviour Tests
	<nn> = sequential number</nn>	(00-99)	Test Purpose Number

5.1.3 Sources of TP definitions

All TPs are specified according to EN 300 175-3 [3].

5.2 Broadcast services

5.2.1 Downlink broadcast

Test subgroup objective:

- verify the correct implementation of the downlink broadcast services.

5.2.1.1 CA test purposes

Test subgroup objective:

- limited testing that the observable capabilities of the IUT concerning the downlink broadcast service are in accordance with the static conformance requirements.

Test purposes:

TP/DB/CA-00	EN 300 175-3 [3], subclause 6.2.2.1
	For FT only.
	Initial state: Active_idle.
	Check that the IUT transmits constantly at least in frame 14 of each multiframe, the
	correct N _T message.
TP/DB/CA-01	EN 300 175-3 [3], subclause 6.2.2.1 to subclause 9.1.3.1
	For FT only.
	Initial state: Active_idle.
	Check that the IUT transmits constantly at least once every T205 seconds in frame 0, the
	correct N _T message.
TP/DB/CA-02	EN 300 175-3 [3], subclause 6.2.2.1 to subclause 7.2.3
	For FT only.
	Initial state: Active_idle.
	Check that the IUT transmits constantly one correct Q _T message in frame 8 of each
TD/DD/04 00	multiframe.
TP/DB/CA-03	EN 300 175-3 [3], subclause 6.2.2.1 to subclause 7.2.3.2
	For FT only.
	Initial state: Active_idle.
	Check that the IUT transmits constantly at least one static system information Q _T
TD/DD/CA 04	message in each interval of 8 multiframes and that all such messages are correct.
TP/DB/CA-04	EN 300 175-3 [3], subclause 6.2.2.1 to subclause 7.2.3.4
	For FT only.
	Initial state: Active_idle.
	Check that the IUT transmits constantly at least one fixed part capabilities Q _T message in each interval of 8 multiframes and that all such messages are correct.
TP/DB/CA-05	EN 300 175-3 [3], subclause 6.2.2.1 to subclause 7.2.3
1P/DB/CA-05	Only for FT supporting encryption.
	Initial state: Active_idle.
	Check that the IUT transmits constantly at least one multiframe number Q _T message in
	each interval of 8 multiframes and that all such messages are correct.
TP/DB/CA-06	EN 300 175-3 [3], subclause 6.2.2.1 to subclause 7.2.3.6
1170B/GA-00	Only for FT supporting SARI.
	Initial state: Active_idle.
	Check that the IUT transmits constantly at least one SARI list content Q _T message in
	each interval of 4 multiframes and that all such messages are correct.
TP/DB/CA-07	EN 300 175-3 [3], subclause 6.2.2.1 to subclause 7.2.3.3
	Only for FT supporting extended RF.
	Initial state: Active_idle.
	Check that the IUT transmits the correct "Extended RF carrier information" Q _T message
	in the multi-frame following the "Static system information" Q _T message with the
	Extended RF carrier bit set.
TP/DB/CA-50	CAP feature M.1
CAP/FT/MAC/01 DECT/T	EN 300 824, subclause 11.3
(98) 17 p. 16	Only for FT supporting TARI.
, , ,	Initial state: Active_idle.
	Check that the IUT indicates correctly TARI support and successfully performs the
	non-continuous broadcast procedure when asked for a TARI which it does support.
TP/DB/CA-51	CAP feature M.2
	EN 300 824, subclause 11.4
(98) 17 p. 16	Only for FT supporting RFP status.
	Initial state: Active_idle.
	Check that the IUT broadcasts the RFP status message at least once every 10 seconds.
TP/DB/CA-52	CAP feature M.3
	EN 300 824, subclause 11.5 to subclause 14.8
(98) 17 p. 16	Only for FT supporting extended fixed part capabilities.
	Initial state: Active_idle.
	Check that the IUT broadcasts the extended fixed part capabilities message at least
TD/DD/04 50	once in every 8 multi frames.
TP/DB/CA-53	CAP feature M.3
	EN 300 824, subclause 11.5 to subclause 14.8
(98) 17 p. 16	Only for FTs that support Emergency call. Initial state: Active_idle.
	Check that the IUT broadcasts the extended fixed part capabilities message with bit a40
	set to 1.
	pot to 1.

Test subgroup objective:

- to tests the behaviour of the IUT in relation to syntactically and contextual correct behaviour of the test system.

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Test purposes:

TP/DB/BV-00	EN 300 175-3 [3], subclause 11.3.2
	For PT only.
	Initial state: Active_unlocked.
	Check that the IUT can receive constantly from FT system information Q _T message and
	identity N _T message and to enter idle locked state.
TP/DB/BV-01	EN 300 175-3 [3], subclause 7.2.3.3
	For PT only.
	Initial state: Idle_locked.
	Check that the IUT is able to establish a bearer after reception of the extended RF
	carrier information Q _T message.
TP/DB/BV-02	GAP/CAP feature M.1
Existing TCL test	EN 300 175-3 [3], subclause 11.3.2
DECT/T (98) 17 p.12	EN 300 175-6 [6], subclause 5.6
	For PT only.
	Initial state: Active_unlocked.
	Check that the IUT enters the idle locked state after receiving the Q _T SARI list contents
	message containing ARI matching the IUT PARK (the LT PARI does not match the IUT
	PARK).
TP/DB/BV-03	EN 300 175-3 [3], subclause 6.2.2.1 to subclause 7.2.2;
	EN 300 175-6 [6], subclause 7.1
	For FT only.
	Initial state: Inactive.
	Check that once a SARI is introduced into the FT, the E-bit within the N _T message is
	indicating SARI list available.
TP/DB/BV-50	CAP feature M.1
CAP/PT/MAC/01	EN 300 175-6 [6], subclause 5
DECT/T (98) 17 p.11	EN 300 824, subclause 11.3
	Only for PT supporting TARI.
	Initial state: Active_idle.
	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).
TP/DB/BV-51	CAP feature M.2
CAP/PT/MAC/02	EN 300 824, subclause 11.4
DECT/T (98) 17 p.11	For PT only.
	Initial state: Active_idle.
	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.
TP/DB/BV-52	CAP feature M.2
CAP/PT/MAC/03	EN 300 824, subclause 11.4
DECT/T (98) 17 p.11	For PT only.
	Initial state: Active_idle.
	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
TD/DD/D1/ 50	message at the IUT.
TP/DB/BV-53	CAP feature N.2
CAP/PT/MAC/05	EN 300 824, subclause 9.2 to subclause 14.7
DECT/T (98) 17 p.12	For PT only.
	Initial state: Active_unlocked
	The LT shall transmit the extended higher layer capabilities bit a40 set to 1 prior to IUT
	locking. Verify the IUT successfully completes the bearer setup procedure using the
	emergency PMID when making an emergency call.
TP/DB/BV-54	CAP feature M.1
CAP/PT/MAC/06	EN 300 175-3 [3], subclause 11.3.2
DECT/T (98) 17 p.12	EN 300 175-6 [6], subclause 5.6
	For PT only.
	Initial state: Active_unlocked.
	Check that the IUT does not enter the idle locked state after receiving the Q _T SARI list
	contents message containing BLACK ARI equal to the IUT PARK (the LT PARI does not
	match the IUT PARK).

TP/DB/BV-55	CAP feature M.1	
CAP/PT/MAC/07	EN 300 175-3 [3], subclause 11.3.2	
DECT/T (98) 17 p.12	EN 300 175-6 [6], subclause 5.6	
	For PT only.	
	Initial state: Active_unlocked.	
	Check that the IUT does not enter the idle locked state after receiving the Q _T SARI list	
	contents message containing BLACK ARI mask that includes the IUT PARK (the LT	
	PARI does not match the IUT PARK).	

5.2.2 Paging services

Test subgroup objective:

- verify the correct implementation of the paging services.

5.2.2.1 CA test purposes

Test subgroup objective:

- limited testing that the observable capabilities of the IUT concerning the paging services are in accordance with the static conformance requirements.

Test purposes:

TP/PG/CA-00	EN 300 175-3 [3], subclause 9.1.3	
TP/PG/CA-00	L 1/	
	Always for PT and FT.	
	Initial state: Idle_locked (PT) / Active_idle (FT).	
	Check that the IUT can receive (PT part normal idle locked mode) or transmit (FT part	
	normal paging mode) a short page message.	
TP/PG/CA-01	EN 300 175-3 [3], subclause 9.1.3	
	For PT only.	
	Initial state: Idle_locked.	
	Check that the PT can receive a correct zero length page message.	
	Only for FT that has blind slots or moving dummy bearer or does not support bearer	
	handover within the whole FT.	
	Initial state: Active_idle.	
	Check that the FT can transmit a correct zero length page message.	

5.2.2.2 BV test purposes

Test subgroup objective:

- to tests the behaviour of the IUT in relation to syntactically and contextual correct behaviour of the test system.

Test purposes:

TP/PG/BV-00	EN 300 175-3 [3], subclause 9.1.3	
	Initial state: Idle_locked (PT) / Active_idle (FT).	
	Check that the IUT manages correctly the paging Extended Flag when it transmits or	
	receives paging messages.	
TP/PG/BV-01	EN 300 175-3 [3], subclause 11.8	
	Only for FT that shall transmit blind slot information.	
	Initial state: Active_idle.	
	Check that the IUT periodically announces (at least every 10s) its blind slots.	
TP/PG/BV-02	EN 300 175-3 [3], subclause 7.2.4.3	
	For PT only.	
	Initial state: Idle_locked.	
	Check that the PT does not setup a bearer on a slot announced to be blind, after	
	reception of a P _T blind full slot information message.	
TP/PG/BV-03	EN 300 175-3 [3], subclause 7.2.4.3	
	For PT only.	
	Initial state: Idle_locked.	
	Check that the PT stays locked to a FT, based on reception of other bearer and dummy	
	or CL-bearer position zero length P _T messages.	

5.2.3 Non-continuous broadcast services

5.2.3.1 CA test purposes

No TPs are defined for non-continuous broadcast services CA tests in the present document.

5.2.3.2 BV test purposes

No TPs are defined for non-continuous broadcast services BV tests in the present document.

5.3 Connectionless services

5.3.1 Downlink connectionless services

5.3.1.1 CA test purposes

No TPs are defined for downlink connectionless services CA tests in the present document.

5.3.1.2 BV test purposes

No TPs are defined for downlink connectionless services BV tests in the present document.

5.3.2 Uplink connectionless services

5.3.2.1 CA test purposes

No TPs are defined for uplink connectionless services CA tests in the present document.

5.3.2.2 BV test purposes

No TPs are defined for uplink connectionless services BV tests in the present document.

5.4 Connection oriented services

5.4.1 Bearer setup

Test subgroup objective:

- verify the correct implementation of connection oriented bearer setup procedures.

5.4.1.1 CA test purposes

Test subgroup objective:

- limited testing that the observable capabilities of the IUT concerning the connection oriented bearer setup procedures are in accordance with the static conformance requirements.

Test purposes:

TP/BS/CA-00	EN 300 175-3 [3], subclause 10.5.1.1	
	For PT only.	
	Initial state: Idle_locked.	
	Check that the IUT manages rightly the PT initiated (single) basic bearer setup	
	procedure without wait messages.	
	For FT only.	
	Initial state: Active_idle.	
	Check that the IUT manages rightly the PT initiated (single) basic bearer setup	
	procedure.	
TP/BS/CA-01	EN 300 175-3 [3], subclause 10.5.1.1	
	For PT only.	
	Initial state: Idle_locked.	
	Check that the IUT manages rightly the PT initiated (single) basic bearer setup	
	procedure with wait messages.	
,,	CAP feature M.3	
CAP/FT/MAC/04 DECT/T EN 300 824, subclause 11.5 to subclause 14.8		
(98) 17 p.16	Only for FT supporting extended fixed part capabilities.	
	Initial state: Active_idle.	
	Verify the IUT is capable of performing a bearer setup for emergency call using the	
	emergency PMID.	

5.4.1.2 BV test purposes

Test subgroup objective:

- to test the behaviour of the IUT in relation to syntactically and contextual correct behaviour of the test system.

Test purposes:

TP/BS/BV-00	EN 300 175-3 [3], subclause 10.5.1.1 to subclause 11.5.1		
	Initial state: Active_locked (PT) / Active_traffic or Active_traffic_and_idle (FT).		
	Check that the IUT releases a duplex bearer in case the timer T201 expires during the		
	time a basic bearer exists.		
	The IUT may release before expiration of the timer T201.		

5.4.2 Connection modification

5.4.2A CA test purposes

No TPs are defined for connection modification CA tests in the present document.

5.4.3 Bearer handover

Test subgroup objective:

- verify the correct implementation of connection oriented bearer handover procedures.

5.4.3.1 CA test purposes

Test subgroup objective:

- limited testing that the observable capabilities of the IUT concerning the connection oriented bearer handover procedures are in accordance with the static conformance requirements.

Test purposes:

TP/BH/CA-00	EN 300 175-3 [3], subclause 10.6			
	For PT only.			
	Initial state: Active_locked.			
	Check that the IUT, for a duplex bearer, correctly initiates and completes an intracell			
	bearer handover procedure using basic set-up.			
	Only for FT supporting intracell bearer handover.			
	Initial state: Active_traffic or Active_traffic_and_idle.			
	Check that the IUT responds rightly to a PT initiated intracell bearer handover procedure.			
TP/BH/CA-01	EN 300 175-3 [3], subclause 10.6			
	For PT only.			
	Initial state: Active_locked.			
	Check that the IUT, for a duplex bearer, correctly initiates and completes an intercell			
	bearer handover procedure using basic set-up.			
	Only for FT supporting intercell bearer handover.			
	Initial state: Active_traffic or Active_traffic_and_idle.			
	Check that the IUT responds rightly to a PT initiated intercell bearer handover procedure.			

5.4.3.2 BV test purposes

No TPs are defined for bearer handover BV tests in the present document.

5.4.4 Bearer release

Test subgroup objective:

- verify the correct implementation of connection oriented bearer release procedures.

5.4.4.1 CA test purposes

Test subgroup objective:

- limited testing that the observable capabilities of the IUT concerning the connection oriented bearer release procedures are in accordance with the static conformance requirements.

Test purposes:

TP/BR/C	CA-00 EN 30	EN 300 175-3 [3], subclause 10.7.2.1				
	Initial	state: Active_locked (PT) / Active_traffic or Active_traffic_and_idle (FT).				
	Check	that the IUT manages rightly a release of a basic duplex bearer with an				
	unack	nowledged release procedure when receiving a release message.				

5.4.4.2 BV test purposes

No TPs are defined for bearer release BV tests in the present document.

5.4.5 Data transfer

Test subgroup objective:

- verify the correct implementation of connection oriented data transfer procedures.

5.4.5.1 CA test purposes

Test subgroup objective:

- limited testing that the observable capabilities of the IUT concerning the connection oriented data transfer procedures are in accordance with the static conformance requirements.

Test purposes:

TP/DT/CA-00	EN 300 175-3 [3], subclause 10.8.1.1 Initial state: Active_locked (PT) / Active_traffic or Active_traffic_and_idle (FT). Check that the IUT re-transmits C _s segment until it receives an acknowledgement in the same Automatic Repeat Request (ARQ) window.
TP/DT/CA-01	EN 300 175-3 [3], subclause 10.8.1.1 Initial state: Active_locked (PT) / Active_traffic or Active_traffic_and_idle (FT). Check that the IUT does not transmit another C _s segment until the successful transmission of the current segment.
TP/DT/CA-02	EN 300 175-3 [3], subclause 10.8.1.1 Initial state: Active_locked (PT) / Active_traffic or Active_traffic_and_idle (FT). Check that the IUT manages correctly the one bit numbering of the C _s segments.

5.4.5.2 BV test purposes

No TPs are defined for data transfer BV tests in the present document.

5.4.5.3 BI test purposes

Test subgroup objective:

- to check the behaviour of the of the IUT in response to invalid messages.

Test purposes:

TP/DT/BI-00	EN 300 175-3 [3], subclause 10.8.1.3			
	Initial state: Active_locked (PT) / Active_traffic or Active_traffic_and_idle (FT).			
	Check that the IUT, when receiving I _N minimum delay data, is capable to detect A-field			
	R-CRC error and to respond with the correct Q2 bit setting (Q2 = 0).			
TP/DT/BI-01	EN 300 175-3 [3], subclause 10.8.1.3			
	For FT only.			
	Initial state: Active_traffic or Active_traffic_and_idle.			
	Check that the IUT sets the Q1 and Q2 bits correctly when it receives data with Z-field			
	error during I _N minimum delay transfer.			

5.5 Layer management procedures

Test subgroup objective:

- verify the correct implementation of the LLME MAC layer management procedures.

5.5.1 CA test purposes

Test subgroup objective:

- limited testing that the observable capabilities of the IUT concerning the LLME MAC layer management procedures are in accordance with the static conformance requirements.

Test purposes:

TP/LM/CA-00	EN 300 175-3 [3], subclause 10.2			
	For PT only.			
	Initial state: Idle_locked (PT).			
	Check that the IUT manages rightly the protocol constant N200.			
TP/LM/CA-01	EN 300 175-3 [3], subclause 10.2			
	For PT only.			
	Initial state: Idle_locked (PT).			
	Check that the IUT manages rightly the protocol timer T200.			
TP/LM/CA-02	EN 300 175-3 [3], subclause 11.3 and subclauses			
	For PT only.			
	Initial state: Idle_locked.			
	Check that the IUT manages rightly the protocol timer T207.			
TP/LM/CA-03	EN 300 175-3 [3], subclause 11.3			
	For PT only.			
	Initial state: Idle_locked.			
	Check that the IUT manages rightly the protocol timer T208.			
TP/LM/CA-04	EN 300 175-3 [3], subclause 10.6.2			
	For PT only.			
	Initial state: Active_locked.			
	Check that the IUT makes at most N201 bearer setup re-attempts for bearer handover of			
	one particular bearer and within a time window of T202 seconds.			
TP/LM/CA-05	EN 300 175-3 [3], subclause 10.6.2			
	For FT only.			
	Initial state: Active_traffic or Active_traffic_and_idle.			
	Check that the IUT, after the establishment of a new bearer during bearer handover,			
	releases one of the two bearers within a time interval of T203 seconds.			

5.5.2 BV test purposes

No TPs are defined for layer management procedures BV tests in the present document.

5.6 Test messages procedures

5.6A CA test purposes

No TPs are defined for test messages procedures CA tests in the present document.

Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

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- TBR 6: "Digital Enhanced Cordless Telecommunications (DECT); General terminal attachment requirements".
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 the traffic capacity and the maintenance of high radio link transmission quality, including the results of
 simulations".
- ETR 043: "Digital European Cordless Telecommunications (DECT); Common Interface (CI); Services and facilities requirements specification".
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History

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