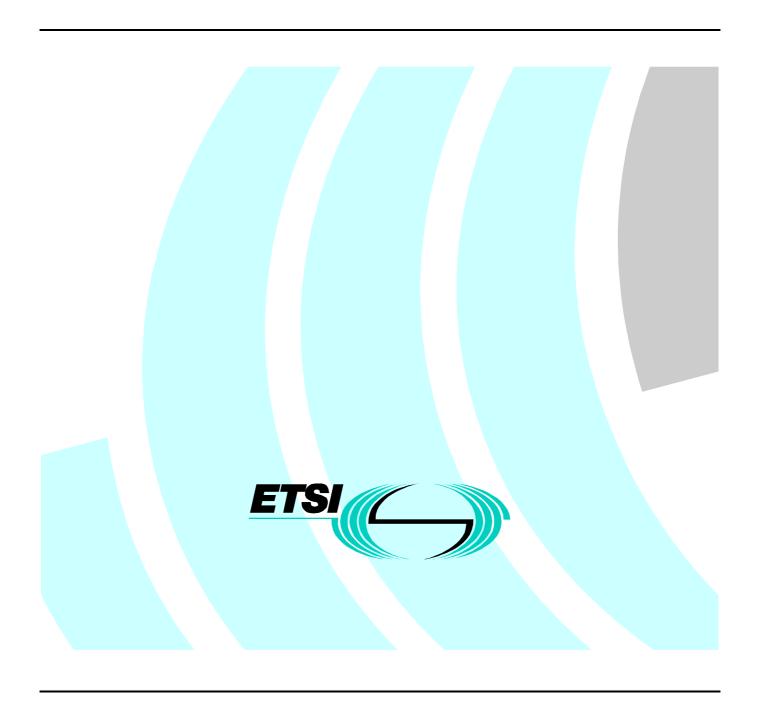
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European Standard (Telecommunications series)

Digital Enhanced Cordless Telecommunications (DECT);
DECT Packet Radio Service (DPRS) Test Case Library (TCL);
Part 7: Test Suite Structure (TSS) and Test Purposes
(TP) - Network (NWK) layer



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Foreword

Part 9:

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 7 of a multi-part deliverable covering the Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS) Test Case Library (TCL), as identified below:

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

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Date of latest announcement of this EN (doa): 3 months after ETSI publication			
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Date of withdrawal of any conflicting National Standard (dow):	6 months after doa		

"Abstract Test Suite (ATS) - Network (NWK) layer - Fixed radio Termination (FT)".

1 Scope

The present document contains the Test Suite Structure (TSS) and Test Purposes (TP) to test the DECT Packet Radio Service (DPRS) Network (NWK) 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 manufacturers' DECT equipment.

The ISO standard for the methodology of conformance testing (ISO/IEC 9646-1 [9] and ISO/IEC 9646-2 [10]) as well as the ETSI rules for conformance testing (ETS 300 406 [8]) 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.

Recommendation X.291).

[11]

- 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]	ETSI EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common interface; Part 3: Medium access control layer".
[2]	ETSI EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common interface; Part 5: Network layer".
[3]	ETSI EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common interface; Part 6: Identities and addressing".
[4]	ETSI EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common interface; Part 7: Security features".
[5]	ETSI EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
[6]	ETSI EN 301 649: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS)".
[7]	ETSI EN 300 824: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP)".
[8]	ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
[9]	ISO/IEC 9646-1: "Information technology - Open Systems InterConnection - Conformance testing methodology and framework - Part 1: General concepts". (See also CCITT Recommendation X.290).
[10]	ISO/IEC 9646-2: "Information technology - Open Systems InterConnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification". (See also CCITT

methodology and framework - Part 6: Protocol profile test specification".

ISO/IEC 9646-6: "Information technology - Open Systems InterConnection - Conformance testing

[12] ISO/IEC 9646-7: "Information technology - Open Systems InterConnection - Conformance testing methodology and framework - Part 7: Implementation conformance statement".

3 Definitions and abbreviations

3.1 Definitions

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

- a) the terms given in ISO/IEC 9646-7 [12]; and
- b) the definitions given in EN 300 175-5 [2].

3.2 Abbreviations

For the purposes of the present document, the abbreviations defined in ISO/IEC 9646-1 [9], ISO/IEC 9646-6 [11], ISO/IEC 9646-7 [12] and EN 300 175-5 [2] apply. In particular, the following abbreviations apply:

AC	Authentication Code
AR	Access Rights
BI	Invalid Behaviour
BO	InOpportune Behaviour
BV	Valid Behaviour
CA	Capability tests
CC	Call Control

DLC Data Link Control layer

FP Fixed Part

FT Fixed radio Termination

IPUI International Portable User Identity

IUT Implementation Under Test

LCE Link Control Entity
LT Lower Tester

MAC Medium Access Control
ME Management Entity
MM Mobility Management

NWK Network layer

PARK Portable Access Rights Key

PDU Protocol Data Unit

PICS Protocol Implementation Conformance Statement
PIXIT Protocol Implementation Extra Information for Testing

PP Portable Part

PT Portable radio termination

RFP Radio Fixed Part
TP Test Purposes
TSS Test Suite Structure
UAK User Authentication Key

4 Test suite structure

4.1 Overview

The Network (NWK) layer is layer 3 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)

Figure 1: DECT protocol stack

Figure 2 shows the NWK (TSS) including its subgroups and defined for the conformance testing.

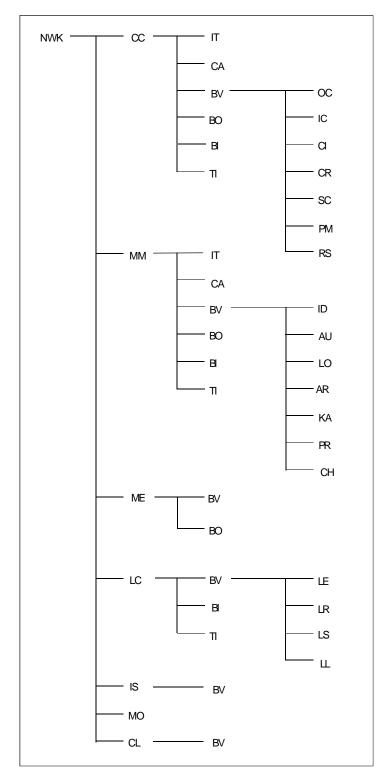


Figure 2: NWK (TSS)

4.2 Test suite structure (TSS)

The test suite is structured as a tree with a first level defined as NWK representing the protocol group "NWK for Portable Part (PP) and Fixed Part (FP)".

4.3 Test groups

The test groups are organized in multiple levels. The first level creates seven protocol groups representing the network entities. The last level contains the standard ISO subgroups IT, CA, BV, BO, BI, and TI.

4.3.1 Protocol groups

4.3.1.1 Call Control (CC)

Refer to EN 300 175-5 [2], subclause 5.2 and clause 9.

4.3.1.2 Mobility Management (MM)

Refer to EN 300 175-5 [2], subclause 5.6 and clause 13.

4.3.1.3 Lower Layer Management Entity (LLME)

Refer to EN 300 175-5 [2], clause 15.

4.3.1.4 Link Control (LC)

Refer to EN 300 175-5 [2], subclause 5.7 and clause 14.

4.3.1.5 Call Independent Supplementary Services (CISS)

Refer to EN 300 175-5 [2], subclauses 5.3 and 10.4.2.2.

4.3.1.6 Connection Oriented Message Services (COMS)

Refer to EN 300 175-5 [2], subclause 5.4 and clause 11.

4.3.1.7 ConnectionLess Message Services (CLMS)

Refer to EN 300 175-5 [2], subclause 5.5 and clause 12.

4.3.2 Main test groups

4.3.2.1 Basic InTerConnection tests (IT)

IT tests provide limited testing of an Implementation Under Test (IUT) in order to establish that there is sufficient conformance for possible interconnection without trying to perform thorough testing. In particular, only those test cases will be executed which will assure the sufficient interconnection between the IUT of the NWK layer and the test system exists, so that the rest of the test cases can then be put into execution.

4.3.2.2 CApability tests (CA)

CA tests provide limited testing that the observable capabilities of the IUT are in accordance with the static conformance requirements and the additional capabilities claimed in the Protocol Implementation Conformance Statement/Protocol Implementation Extra Information for Testing (PICS/PIXIT). In particular, this test group can be regarded as a set of spot checks for all the capabilities of the IUT stated in the PICS/PIXIT. The scope of the test group is the observable capabilities of the IUT with respect to NWK layer connection, call control, and the mobility management.

4.3.2.3 Valid Behaviour tests (BV)

BV group tests an IUT in response to valid behaviour of the test system. "Valid" means that a test event is syntactically and contextually correct. All test cases in the valid behaviour group are intended to verify as thoroughly as possible the various functions of the protocol.

4.3.2.4 Invalid Behaviour tests (BI)

BI group is intended to verify that the IUT is able to react properly in case an invalid protocol data unit (message) occurring. Invalid Protocol Data Unit (PDU) here means syntactically or semantically invalid test events generated by the test system. A syntactically or semantically invalid test event regardless of the current state is not allowed.

4.3.2.5 InOpportune Behaviour tests (BO)

BO test group is intended to verify that the IUT is able to react properly in case an inopportune test event occurring. Such an event is syntactically correct, but occurs when it is not allowed.

4.3.2.6 Tlmer expiry and counter mismatch tests (TI)

Different timers and counters are defined to supervise the various state transitions. This test subgroup is intended to verify that the IUT is reacting properly to an expiry of one of the timers or counters mismatch.

5 Test Purposes

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	
TP (specification reference, clause, paragraph).	
Condition The condition defines in which initial state the IUT has to be to apply the actual	
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:	TI	P/ <fm>/<x>/<s>/<nn></nn></s></x></fm>		
<fm> = functional module</fm>		CC	Call Control	
			MM	Mobility Management
			LC	Link Control Entity
			IS	Call Independent Supplementary Services
			CL	Connectionless Message Service
	x =	Type of testing	CA	CApability Tests
			BV	Valid Behaviour Tests
			ВО	Inopportune Behaviour Tests
			TI	Timer expiry and counter mismatch tests
	s =	Test subgroup	OC	Outgoing Call establishment
			CI	Call Information
			CR	Call Release
			SC	Service Change
			RS	Call Related Supplementary services
			SN	Service Negotiation
			MP	Multi-purposes tests
			HP	Handover procedures
			SR	Suspend and Resume procedures
			ID	Identification
			AU	Authentication
			LO	Location
			AR	Access Rights
			KA	Key Allocation
			СН	Ciphering
			LE	Connection oriented Link Establishment
			LR	Connection oriented Link Release
	<nn> =</nn>	sequential number	(01-99)	Test Purpose Number

5.1.3 Sources of TP definitions

All TPs are specified according to EN 300 175-5 [2] with respect to the requirements expressed in EN 301 649 [6].

5.2 Test purposes for FT part

5.2.1 TP presentation

Test purposes are presented by a logical grouping related to NWK features. The naming is in line with the test suite structure. Test purposes which do not already exist in the CI test case library are highlighted by prefixing the word data to their test purpose number.

5.2.2 Dynamic parameters allocation and NWK layer management

DPRS-N.38, Dynamic parameters allocation		
	Dynamic parameters allocation	EN 301 649 [6]: 12.11
DPRS-N.41, NWK layer management		
	Management of MM procedures	EN 301 649 [6]: 12.22
	Location registration initiation	EN 300 444 [5]: 13.2
	management	
	Assigned individual TPUI management	EN 300 444 [5]: 13.4
	PMID management	EN 300 444 [5]: 13.5
	DCK management	EN 300 444 [5]: 13.6
	Broadcast attributes management	EN 301 649 [6]: 12.20
	Storage of subscription related data	EN 301 649 [6]: 12.xx-
	management	
	U-plane handling	EN 301 649 [6]: 12.21

These two features are implicitly covered by the test purposes defined for all other NWK features.

5.2.3 SARI support

DPRS M.15 SARI support		
	Downlink broadcast.	EN 300 175-3 [1]: 7.2.3.6.

TP/FT/CC/BV/OC-06	M.15 SARI support.
	EN 300 175-3 [1]: 11.3.2, EN 300 175-6 [3]: 5.6.
	Initial state: F-00.
	Verify that the IUT can correctly establish a following outgoing call from the LT when the
	LT has use SARI as the means to lock to the IUT.

5.2.4 Outgoing call

DPRS-N.1, Outgoing call		
	Outgoing call request	EN 301 649 [6]: 12.1
	Overlap sending	EN 300 444 [5]: 8.3
	Outgoing call proceeding	EN 300 444 [5]: 8.4
	Outgoing call confirmation	EN 300 444 [5]: 8.5
	Outgoing call connection	EN 300 444 [5]: 8.6
	Sending keypad information	EN 300 444 [5]: 8.10
DPRS-N.2, Off Hook	- 1	
	Outgoing call request	EN 300 444 [5]: 8.2
DPRS-N.3, On Hook (full release)		
	Normal call release	EN 300 444 [5]: 8.7
	Abnormal call release	EN 300 444 [5]: 8.8
DPRS-N.21, Partial release		
	Partial release	EN 300 444 [5]: 8.9

TP/FT/CC/BV/MP-data01 DPRS-N.1, Outgoing call. EN 301 649 [6]: 12.1, EN 300 444 [5]: 8.1, figure 1. Initial state/Conditions: IUT is in idle_active - no subscription available. Verify that the IUT is able after granting a subscription to the LT to perform an outgoing call using piecewise method to transfer dialling information in state F-02 if supported or F-10 otherwise, performing resources management, data transfer and proper released by the LT of the call. Possible MM procedures initiated by the IUT as Key allocation, PT authentication, Storage of DCK and FT initiated Ciphering are properly handled by

Explicitly testing:

- Obtain access rights procedure;
- Key allocation procedures (if started by the IUT);
- Location registration procedure;
- PT authentication procedure (if started by the IUT);
- Store DCK procedure (if started by the IUT);
- Outgoing call establishment;
- LCE Link establishment;
- CC-transitions;
- FT initiating Ciphering (if started by the IUT);
- Service negotiation (suggested characteristics accepted or not by IUT);
- U-plane connection:
- U-plane transfer:
- MAC suspend/resume;
- Service change:
- PT initiated Call release.

Expected behaviour:

Pre call establishment:

The LT(PT) shall initiate Obtain access rights procedure (set-up capabilities - fast set-up and fast paging supported); the If the IUT (FT) interrupts it with a Key allocation procedure LT shall properly response; When the Obtain access rights is accomplished successfully the LT shall perform a Location Registration procedure - IUT may assign TPUI; IUT may interrupt the Location registration with a PT authentication to verify the keys and to request DCK. Call establishment:

LT shall initiate an Outgoing call; LT shall initiate link establishment; LT shall send a {CC-SETUP} suggesting lower layer resources; In its first message IUT shall provide the same or different (lower than the suggested) set of characteristics; Lower layer resources negotiation is performed; IUT may initiate ciphering and establish a DCK. Data transmission (in T-10):

Establishment of all necessary resources at MAC shall be verified - file transfer from the LT or Internet session relatively high amount of data shall be ensured that the max. allowed bearers are established; After some time the Operator shall ensure that the conditions for initiation of a MAC suspend are met in the LT - LT shall request MAC suspend of the link on completion of the data transfer; if link is suspended after some time LT shall request MAC resume; LT shall transmit a small amount of data that does not require full capacity and shall request Service change reducing the max. number of bearers (LT Master); new MAC resources set shall be verified; LT shall transmit a small amount of data that does not require full capacity, data from IUT may be received.

Call release:

LT shall request normal release of the call.

TP/FT/CC/BV/CR-02	DPRS-N.3, On Hook (full release)
11 /1 1/CC/BV/CR-02	EN 300 175-5 [2]: 9.5.1, EN 300 444 [5]: 8.7
	Initial state: F-10
	Verify that the IUT is able to perform an IUT initiated normal release.
TP/FT/CC/BV/CR-04	DPRS-N.3, On Hook (full release)
1P/F1/CC/BV/CR-04	
	EN 300 175-5 [2]: 9.5.1, EN 300 444 [5]: 8.7
	Initial state: F-02
	Verify that the IUT, after Part of dialling information is sent, is able to perform a PT initiated normal release.
TP/FT/CC/BV/CR-07	
1P/F1/CC/BV/CR-07	DPRS-N.3, On Hook (full release) EN 300 175-5 [2]: 9.5.1, EN 300 444 [5]: 8.8, figure 24
	Initial state: F-07
TP/FT/CC/BV/CR-08	Verify that the IUT is able to perform a PT initiated abnormal release. DPRS-N.3, On Hook (full release)
1P/F1/CC/BV/CR-08	
	EN 300 175-5 [2]: 9.5.1, EN 300 444 [5]: 8.8, figure 24
	Initial state: F-10
TD/FT/00/DV/0D 40	Verify that the IUT is able to perform a PT initiated abnormal release.
TP/FT/CC/BV/CR-10	DPRS-N.21, Partial release
	EN 300 175-5 [2]: 14.2.7, EN 300 444 [5]: 8.9
	Initial state: F-10
TD/FT/OO/TL 04	Verify that the IUT is able to perform a PT initiated partial release.
TP/FT/CC/TI-01	DPRS-N.1, Outgoing call
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.3.2.3,
	Initial state: F-02 Verify that the IUT, after having started timer F- <cc.01>, sends a {CC-RELEASE}</cc.01>
	message when the timer expires after the defined time. The {CC-RELEASE} message
TP/FT/CC/TI-02	should arrive within the allowed margin time of ±5 %. DPRS-N.1, Outgoing call
1P/F1/CC/11-02	
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.3.2.3, figure 12
	Initial state: F-02
	Verify that the IUT is able to restart the timer F- <cc.01>, on receipt of a {CC-INFO}</cc.01>
TD/FT/CC/TL 02	message. DPRS-N.3, On Hook (full release)
TP/FT/CC/TI-03	
	EN 300 175-5 [2]: 9.5.1, EN 300 444 [5]: 8.7.1.2 Initial state: F-19
	Verify that the IUT, after having started timer F- <cc.02>, sends a {CC-RELEASE-COM}</cc.02>
	message when the timer expires after the defined time. The {CC-RELEASE-COM}
	message should arrive within the allowed margin time of ±5 %.
TP/FT/CC/BO-02	DPRS-N.3, On Hook (full release)
F/F / CC/BO-02	EN 300 175-5 [2]: 9.5.3, EN 300 444 [5]: 8.7.2.1, figure 21.
	EN 300 175-5 [2]: 9.5.3, EN 300 444 [5]: 8.7.2.1, figure 21.
	Verify that the IUT is able to react correctly on a release collision, in the sense that upon
	reception of a {CC-RELEASE} message in state F-19, no {CC-RELEASE-COM}
	message is sent back, and the call is cleared.
	Intessage is sent back, and the call is cleared.

5.2.5 Service Negotiation and In call service change

DPRS-N.39, Service Negotiation		
	Call Resources/Parameters negotiation	EN 301 649 [6]: 12.5
DPRS-N.40, In call service change		
	Bandwidth Change	EN 301 649 [6]: 12.6
	Connection Reversal	EN 301 649 [6]: 12.7
	Service re-routing	EN 301 649 [6]: 12.8
	IWU-attributes change	EN 301 649 [6]: 12.9

TP/FT/CC/BV/SN-data01	DPRS-N.39, Service Negotiation
	EN 300 444 [5]: 8.11, figure 28
	Initial state/Conditions: F-00, subscription available (if not the test will request it).
	Verify that the IUT is able to perform a CC-state transition from the F-00 state to F-10
	state via F-06 and F-07 for an incoming normal call set-up. The LT suggest different,
	lower than the requested by the IUT values of "Target bearers" in the
	< <connection attributes="">>.</connection>
TP/FT/CC/BV/SN-data02	DPRS-N.39, Service Negotiation
	EN 300 444 [5]: 8.11, figure 28
	Initial state/Conditions: F-00, subscription available (if not the test will request it).
	Verify that the IUT is able to perform a CC-state transition from the F-00 state to F-10
	state via F-06 and F-07 for an incoming normal call set-up. The LT suggest different,
	lower than the requested by the IUT values of <mac life="" packet="" time=""> in the</mac>
	< <connection attributes="">>.</connection>
TP/FT/CC/BV/SN-data03	DPRS-N.39, Service Negotiation
	EN 300 444 [5]: 8.11, figure 28
	Initial state/Conditions: F-00, subscription available (if not the test will request it).
	Verify that the IUT is able to perform a CC-state transition from the F-00 state to F-10
	state via F-06 and F-07 for an incoming normal call set-up. The LT suggest different,
	lower than the requested by the IUT values of the < <window size="">>.</window>
TP/FT/CC/BV/SN-data04	DPRS-N.39, Service Negotiation
	EN 300 444 [5]: 8.11, figure 28
	Initial state/Conditions: F-00, subscription available (if not the test will request it).
	Verify that the IUT is able to perform a CC-state transition from the F-00 state to F-10
	state via F-06 and F-07 for an incoming normal call set-up. The LT suggest different
	values of the < <iwu attributes="">>.</iwu>

TP/FT/CC/BV/SC-data01	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.9
	Initial state/Conditions: F-10, subscription available (if not the test will request it). Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(PT); initiating side is the Master. The LT suggest different values of
	the < <iwu attributes="">>.</iwu>
TP/FT/CC/BV/SC-data02	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.9
	Initial state/Conditions: F-10, subscription available (if not the test will request it).
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(PT); receiving side is the Master. The LT suggest different values of
	the < <iwu attributes="">>.</iwu>
TP/FT/CC/BV/SC-data03	DPRS-N.40, In call service change
11 /1 1/CC/BV/3C-data03	EN 301 649 [6]: 12.6
	Initial state/Conditions: F-10, subscription available (if not the test will request it).
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(PT); initiating side is the Master. The LT suggests "bandwidth
	change" and different values of the < <connection attributes="">>.</connection>
TP/FT/CC/BV/SC-data04	DPRS-N.40, In call service change
11711700721700 uaiao i	EN 301 649 [6]: 12.6
	Initial state/Conditions: F-10, subscription available (if not the test will request it).
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(PT); receiving side is the Master. The LT suggests "bandwidth
	change" and different values of the < <connection attributes="">>.</connection>
TP/FT/CC/BV/SC-data05	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.7
	Initial state/Conditions: F-10, subscription available (if not the test will request it).
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(PT); initiating side is the Master. The LT suggests
	"Connection reversal" and different values of the < <connection attributes="">>.</connection>
TP/FT/CC/BV/SC-data06	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.7
	Initial state/Conditions: F-10, subscription available (if not the test will request it).
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(PT); receiving side is the Master. The LT suggests
	"Connection reversal" and different values of the < <connection attributes="">>.</connection>
Expected behaviour:	

Expected behaviour:

LT Establishes an Outgoing call as Lower layer resources negotiation shall be accomplished with information included from the LT in CC-SETUP, and from IUT in the first response message; LT(PT) shall initiate the Service change procedure; Resource allocation at MAC shall be initiated by the Master as specified during the procedure; When accomplished the U-plane shall be checked again; Normal Release of the call shall be requested from the LT.

TP/FT/CC/BV/SC-data07	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.9
	Initial state/Conditions: F-10, subscription available (if not the test will request it).
	For IUT that can invoke such service change.
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the IUT(FT); Master side specified by the IUT. The IUT suggest different
	values of the < <iwu attributes="">>.</iwu>
TP/FT/CC/BV/SC-data08	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.6
	Initial state/Conditions: F-10, subscription available (if not the test will request it).
	For IUT that can invoke such service change.
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the IUT(FT); Master side specified by the IUT. The IUT suggests "bandwidth
	change" and different values of the < <connection attributes="">>.</connection>
TP/FT/CC/BV/SC-data09	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.7
	Initial state/Conditions: F-10, subscription available (if not the test will request it).
	For IUT that can invoke such service change.
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the IUT(FT); Master side specified by the IUT. The IUT suggests
	"Connection reversal" and different values of the << Connection attributes>>.
Expected behaviour	

Expected behaviour:

IUT shall establish an incoming call as Lower layer resources negotiation shall be accomplished with information included from the IUT in CC-SETUP, and from LT in CC-ALERTING; IUT shall be requested to initiate the Service change procedure; Resource allocation at MAC shall be initiated by the Master as specified during the procedure; When accomplished the U-plane shall be checked again; Normal Release of the call shall be requested from the LT.

5.2.6 Sending keypad information

DPRS-N.4, Dialled digits (basic)		
DPRS-N.5, Register recall		
DPRS-N.6, Go to DTMF signalling (defined tone length)		
DPRS-N.7, Pause (dialling pause)		
DPRS-N.22, Go to DTMF (infinite tone length)		
DPRS-N.23, Go to Pulse		
	Sending keypad information	EN 300 444 [5]: 8.10

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TP/FT/CC/BV/CI-03	DPRS-N.23, Go to Pulse
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.10, table 20
	Initial state: F-02
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-keypad>></multi-keypad>
	information element containing keypad-info "12"H (goto pulse), the IUT from that
	moment on transfers dialling information to the network simulator, using pulse (decadic)
	dialling.
TP/FT/CC/BV/CI-05	DPRS-N.7, Pause (dialling pause)
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.10, table 20
	Initial state: F-10
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-keypad>></multi-keypad>
	information element containing keypad-info "05H" (dialling pause), it sends a dialling
	pause to the network simulator.
TP/FT/CC/BV/CI-06	DPRS-N.6, Go to DTMF signalling (defined tone length)
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.10, table 20
	Initial state: F-02
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-keypad>></multi-keypad>
	information element containing keypad-info "14H" (goto DTMF, defined tone length), the
	IUT from that moment on transfers dialling information to the network simulator, using
	DTMF with defined tone length.
TP/FT/CC/BV/CI-09	DPRS-N.22, Go to DTMF (infinite tone length)
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.10, table 20
	Initial state: F-10
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-keypad>></multi-keypad>
	information element containing keypad-info "16H" (goto DTMF, infinite tone length), the
	IUT from that moment on transfers dialling information to the network simulator, using
	DTMF with infinite tone length.
TP/FT/CC/BV/CI-10	DPRS-N.4, Dialled digits (basic)
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.10, table 20
	Initial state: F-10
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-keypad>></multi-keypad>
	information element containing the basic digits (0-9, star, hash mark), it transfers this
	information correctly to the network simulator.

5.2.7 Incoming call

DPRS-N.2, Off Hook		
	Incoming call connection	EN 300 444 [5]: 8.15
DPRS-N.8, Incoming call		
	Incoming call request	EN 301 649 [6]: 12.2
	Incoming call confirmation	EN 300 444 [5]: 8.13
	Incoming call connection	EN 300 444 [5]: 8.15
DPRS-N.15, Alerting		
	PT alerting	EN 300 444 [5]: 8.14
DPRS-N.30, Calling Line Identification		
Presentation (CLIP)		
	Incoming call request	EN 300 444 [5]: 8.12

EN 301 649 [6]: 12.2, EN 300 444 [5]: 8.11, figure 28
Initial state: F-00
Verify that the IUT is able to perform an incoming call via the states F-06, F-07 and
performing resources management, data transfer and proper released by the LT of
call. IUT shall handle properly the service negotiation.

Implicitly testing:

- LCE Link establishment (FT direct or indirect);
- Incoming Call establishment trough all CC-state;
- PT authentication procedure (if requested by FT);
- Store DCK procedure (if requested by FT);
- FT initiating Ciphering (if requested by FT);
- Service negotiation (suggested characteristics accepted from the LT);
- U-plane connection;
- U-plane transfer:
- MAC suspend/resume;
- Service change;
- FT initiated Call release.

Expected behaviour:

Pre call establishment:

Subscription should be available if not shall be obtained as in the outgoing call case;

Call establishment:

IUT(FT) shall be requested to initiate an Incoming call; IUT shall try Direct link establishment which the LT shall accept (set-up capabilities have to be correctly indicated beforehand to the IUT); When link has been established Incoming Call setup shall occur; Lower layer resources negotiation is performed as the information included from the IUT will be in the CC-SETUP, and from LT in CC-ALERTING - LT accepts the suggestion; IUT may initiate ciphering preceded by a PT authentication with "store DCK", LT shall respond correctly;

Data transmission (in F-10):

As in the outgoing call cases: Establishment of all necessary resources at MAC shall be verified; LT shall transmit a relatively big amount of data which require maximum used of the resources; LT shall request MAC suspend of the link on completion of the data transfer; if link is suspended after some time LT shall request MAC resume (fast setup, fast paging, and normal paging shall be performed until one succeeds); LT shall transmit a small amount of data that does not require full capacity and shall request Service change reducing the max. number of bearers (LT Master); new MAC resources set shall be verified; LT shall transmit a small amount of data that does not require full capacity; Call release:

IUT shall be requested to initiate a normal call release.

TP/FT/CC/BV/RS-07	DPRS-N.30, Calling Line Identification Presentation (CLIP)
	EN 300 175-5 [2]: 10.3, EN 300 444 [5]: 8.12, EN 300 824 [7]: 7.7, table 3
	Initial state: F-00
	Verify the IUT is able to transmit the < <calling number="" party="">> information element in</calling>
	the {CC-SETUP} message providing the PP with the calling party number information
	before accepting the call.
TP/FT/CC/BV/CI-01	DPRS-N.15, Alerting
	EN 300 175-5 [2]: 9.3.1, EN 300 444 [5]: 8.14
	Initial state: F-00
	Verify that the IUT is able to send the < <signal>> information element in case of</signal>
	incoming call to the PT. This information element can either be in the {CC-SETUP} or in
	successive (CC-INFO) message.
TP/FT/CC/TI-data01	DPRS-N.8, Incoming call
	EN 300 175-5 [2]: 9.3.2, EN 300 444 [5]: 8.12.1.1
	Initial state: F-06
	Verify that the IUT, can continue with incoming call establishment when it receives the
	{CC-ALERTING} in a point of time shortly before the expiry of timer F- <cc.03>.</cc.03>
	(F- <cc.03> value -5 %).</cc.03>

5.2.8 Internal call and Service call

DPRS-N.31, Internal call		
	Internal call set-up	EN 300 444 [5]: 8.18
	Internal call keypad	EN 301 649 [6]: 12.4
DPRS-N.32, Service call		
	Service call set-up	EN 300 444 [5]: 8.20
	Service call keypad	EN 300 444 [5]: 8.21

TP/FT/CC/BV/MP-data03	DPRS-N.31, Internal call
	EN 300 444 [5], 8.18, table 30
	Initial state: F-00
	Verify that the IUT is able to perform an Internal call set-up requested by the LT
	performing resources management, data transfer and proper released by the LT of the
	call.
Explicitly testing/ Expected behaviour:	
See TP/FT/CC/BV/MP-data01 - only difference is the content of the < <basic service="">> now indicating "Internal Call".</basic>	
The LT and an additional PT should be subscribed to the IUT beforehand.	

TP/FT/CC/BV/MP-data04	DPRS-N.31, Internal call
	EN 300 444 [5], 8.18, table 31
	Initial state: F-10
	Verify that the IUT is able to perform an Internal call requested via a {CC-INFO}
	message sent by the LT in F-10 using piecewise method to transfer dialling information
	in state F-10 performing resources management, data transfer and proper released by
	the LT of the call.

Explicitly testing/ Expected behaviour:

See TP/FT/CC/BV/MP-data01 - only differences are: the LT and an additional PT should be subscribed to IUT beforehand, in T-10 before sending dialled digits {CC-INFO} <<Multi-keypad>> "Internal Call" shall be sent by the LT.

5.2.9 Identification of PP and Identity Assignment

DPRS-N.13, Identification of PP		
	Identification of PT	EN 300 444 [5]: 8.22
DPRS-N.42, Identity Assignment		
	Temporary Identity Assign	EN 301 649 [6]: 12.14

TP/FT/MM/BV/ID-01	DPRS-N.13, Identification of PP
	EN 300 175-5 [2]: 13.2.1, EN 300 444 [5]: 8.22
	Initial state: Selected in PIXIT
	Verify that when the basic IUT initiated identity request procedure is invoked on the IUT,
	the IUT is able to perform this procedure correctly.
TP/FT/MM/BV/ID-data02	DPRS-N.42, Identity Assignment
	EN 301 649 [6]: 12.14
	Initial state: F-00
	Verify that the IUT performs properly the Temporary Identity Assign procedures
	assigning a group TPUI.
TP/FT/MM/TI-01	DPRS-N.13, Identification of PP
	EN 300 175-5 [2]: 13.2.1, EN 300 444 [5]: 8.22.2.2
	Initial state: Specified in PIXIT
	Verify that the IUT is capable of completing the Identification of PT procedure at a point
	in time 10 % before expiry of the timer F- <mm_ident.2>.</mm_ident.2>

5.2.10 Authentication

DPRS-N.9, Authentication of the PP		
	Authentication of PT	EN 300 444 [5]: 8.24
DPRS-N.10, Authentication of the user		
	Authentication of user	EN 300 444 [5]: 8.25
DPRS-N.16, ZAP		
	Obtaining access rights	EN 300 444 [5]: 8.30
	Incrementing the ZAP value	EN 300 444 [5]: 8.26
DPRS-N.26, Authentication of FT		
	Authentication of FT	EN 300 444 [5]: 8.23

TD/ET/MM/D)//ALL 04	DDDC N.O. Authorization of the DD
TP/FT/MM/BV/AU-01	DPRS-N.9, Authentication of the PP
	EN 300 175-5 [2]: 13.3.1, EN 300 444 [5]: 8.24
	Initial state: Selected in PIXIT. <u>Test shall be started with obtain access rights procedure</u>
	and depending on the assignment of the ZAP and Service class the LT shall include or
	not them in the response
	Verify that the IUT, after invocation, is able to perform the basic operation of the
	authentication of PT procedure.
TP/FT/MM/BV/AU-02	DPRS-N.16, ZAP
	EN 300 175-5 [2]: 13.3.1, EN 300 444 [5]: 8.26, figure 52
	Initial state: Selected in PIXIT
	Verify that the IUT, after invocation, is able to perform the basic operation of the
	procedure incrementing the ZAP value, during the authentication of PT procedure
	(PT has stored ZAP value and service class information). PT will authenticate IUT
	before answering.
TP/FT/MM/BV/AU-03	DPRS-N.10, Authentication of the user
	EN 300 175-5 [2]: 13.3.2, EN 300 444 [5]: 8.25
	Initial state: Selected in PIXIT
	Verify that the IUT, after invocation, is able to perform the basic operation of the
	authentication of user procedure (PT has not stored ZAP value and service class
	information).
TP/FT/MM/BV/AU-04	DPRS-N.26, Authentication of FT
1171 171011011/2007/10 01	EN 300 175-5 [2]: 13.3.3, EN 300 444 [5]: 8.23
	Initial State: F-10
	Verify that the IUT is able to perform the basic operation of the authentication of FT
	procedure.
TP/FT/MM/BV/AU-05	DPRS-N.16, ZAP
11 /1 1/101101/50/740-05	EN 300 175-5 [2]: 13.3.3, EN 300 444 [5]: 8.23.2.1, figure 48
	Initial State: F-00
	Verify that the IUT rejects authentication of FT procedure if an authentication key is
	specified which is not supported by the FT.
TP/FT/MM/BV/AU-06	DPRS-N.16. ZAP
TP/FT/WIW/BV/AU-00	EN 300 175-5 [2]: 13.3.3, EN 300 444 [5]: 8.23.2.1, figure 48
	Initial state: Selected in PIXIT
	Verify that the IUT is capable to request storage of the DCK and successively use the
	stored DCK value for ciphering, when it is accepted by the PT.(PT has not stored ZAP
TD/FT/NANA/TL OC	value and service class information).
TP/FT/MM/TI-02	DPRS-N.9, Authentication of the PP
	EN 300 175-5 [2]: 13.3.1, EN 300 444 [5]: 8.24.2.2
	Initial state: Specified in PIXIT
	Verify that the IUT is capable of completing the Authentication of PT procedure at a
	point in time 10 % before expiry of the timer F- <mm_auth.1>.</mm_auth.1>
TP/FT/MM/TI-03	DPRS-N.10, Authentication of the user
	EN 300 175-5 [2]: 13.3.2, EN 300 444 [5]: 8.25.2.2.
	Initial state: Specified in PIXIT
	Verify that the IUT is capable of completing the Authentication of User procedure at a
	point in time 10 % before expiry of the timer F- <mm_auth.2>.</mm_auth.2>

5.2.11 Location registration

DDDC N 44 Lagation registration		
DPRS-N.11, Location registration		
	Location registration	EN 300 444 [5]: 8.28
	Location update	EN 300 444 [5]: 8.29
	Terminal capability indication	EN 301 649 [6]: 12.3
DPRS-N.35, Detach		
	Detach	EN 300 824 [7]: 9.5
DPRS-N.36, Periodic location registration		
	Enhanced location registration	EN 300 824 [7]: 9.6
DPRS-N.24, Signalling of display characters		
	Display	EN 300 444 [5]: 8.16
	Terminal capability indication	EN 301 649 [6]: 12.3
DPRS-N.25, Display control characters		
	Display	EN 300 444 [5]: 8.16
	Terminal capability indication	EN 301 649 [6]: 12.3

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TP/FT/MM/BV/LO-01	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.4.1, EN 300 444 [5]: 8.28, figure 53
	Initial state: F-00
	Verify that the IUT is able to perform the basic operation of the location registration
	procedure, requested with an International Portable User Identity (IPUI), when
TD/ET/NANA/DV/// O 00	broadcast attributes bit a38 was set to 1, and still is 1.
TP/FT/MM/BV/LO-02	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.4.1, EN 300 444 [5]: 8.28.2.1, figure 54
	Initial state: F-00
	Verify that the IUT sends back a {LOCATE_REJECT} message, after receiving a
	{LOCATE_REQUEST} message containing a portable identity on which it does not have
	a subscription record (IPUI is unknown), when broadcast attributes bit a38 was set to 1,
	and still is 1.
TP/FT/MM/BV/LO-03	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.4.1, EN 300 444 [5]: 8.28, figure 53
	Initial state: F-00
	Verify that the IUT is able to perform the basic operation of the location registration
	procedure, requested with an IPUI, while the IUT performs a TPUI assignment in the
	{LOCATE_ACCEPT} message, when broadcast attributes bit a38 was set to 1, and still
	is 1.
TP/FT/MM/BV/LO-05	DPRS-N.11, Location registration
	EN 300 175-5 [2], 13.4.3, EN 300 444 [5]: 8.29
	Initial state: Specified in PIXIT
	Verify that the IUT, after invocation, is able to perform the basic operation of the FT
	initiated parameter retrieval procedure as Part of the location update procedure, when
	broadcast attributes bit a38 was set to 1, and still is 1 and the PT starts the location
	registration procedure upon receipt of the first {MM-INFO-SUGGEST} message.
TP/FT/MM/BV/LO-06	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.4.3, EN 300 444 [5]: 8.29
	Initial state: F-00
	Verify that the IUT is able to perform the basic operation of the location registration
	procedure, requested with an IPUI, when broadcast attributes bit a38 was set to 1
	during the locking of the IUT, and when it was changed to 0 afterward. (see note)
TP/FT/MM/BV/LO-07	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.4.3, EN 300 444 [5]: 8.29
	Initial state: Specified in PIXIT
	Verify that the IUT, after invocation, is able to perform the basic operation of the FT
	initiated parameter retrieval procedure as Part of the location update procedure, when
	broadcast attributes bit a38 was set to 1, and still is 1 and the PT starts the location
TD/ET/MANA/DV/// O. 50	registration procedure upon receipt of the second (MM-INFO-SUGGEST) message.
TP/FT/MM/BV/LO-50	DPRS-N.35, Detach
	EN 300 824 [7]: 9.5, table 12
	Initial state: F-00
	Verify that the IUT does not attempt to set up an incoming call to the portable after
TD/ET/1444/D) /// 0.54	receipt of a DETACH message.
TP/FT/MM/BV/LO-51	DPRS-N.36, Periodic location registration
	EN 300 824 [7]: 9.6, table 13
	Initial state: F-00
	Verify that the IUT(FP) is able to transmit a LOCATE-ACCEPT message indicating
	<lock limits=""> and <time limits=""> within a <<duration>> information element. DDBC N.44 Location registration</duration></time></lock>
TP/FT/MM/TI-07	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.2.2, EN 300 444 [5]: 8.28
	Initial state: F-00
	Verify that the IUT, when during the location registration procedure with TPUI
	assignment, the timer F- <mm_ident.1> expires after the defined time, aborts the</mm_ident.1>
NOTE: The physics "bi	procedure, and thus allows a new location registration procedure to proceed.
	t a38 was set to 1" means: The bit a38 had the value of 1 during the time the PT locked to
the IUT.	

5.2.12 Access rights

DPRS-N.14, Service class		
indication/assignment		
	Obtaining access rights	EN 300 444 [5]: 8.30
	Authentication of PT	EN 300 444 [5]: 8.24
DPRS-N.18, Subscription registration user procedure on-air		
	Obtaining access rights	EN 300 444 [5]: 8.30
	Terminal capability indication	EN 301 649 [6]: 12.3
DPRS-N.37, On-air modification of user parameters		
	On-air modification of user parameters	EN 300 824 [7]: 9.8
	FT authentication	EN 300 444 [5]: 8.23
DPRS-N.20, Terminate access rights FT initiated		
	FT terminating access rights	EN 300 444 [5]: 8.31
	Authentication of FT	EN 300 444 [5]: 8.23

TP/FT/MM/BV/AR-01	DPRS-N.14, Service class indication/assignment
	EN 300 175-5 [2]: 13.5.1, EN 300 444 [5]: 8.30
	Initial state: No access rights. Bit a44 shall be set in the IUT
	Verify that the IUT is able to perform the basic operation of the obtain access rights
	procedure, when the LT sends in the < <auth_type>> information element the</auth_type>
	auth_key_type "AC", and the IUT uses Authentication Code (AC) for authentication. The
	IUT shall include the whole Portable Access Rights Key (PARK).
TP/FT/MM/BV/AR-02	DPRS-N.14, Service class indication/assignment
	EN 300 175-5 [2]: 13.5.1, EN 300 444 [5]: 8.30, table 57
	Initial state: No access rights. Bit a44 shall be set in the IUT
	Verify that the IUT is able to assign service class information as Part of the basic
	obtaining access rights procedure.
TP/FT/MM/BV/AR-03	DPRS-N.20, Terminate access rights FT initiated
	EN 300 175-5 [2]: 13.5.2, EN 300 444 [5]: 8.31.2.2
	Initial state: Specified in PIXIT
	Verify that the IUT, after invocation, is able to perform the basic operation of the FT
	initiated terminate access rights procedure, when the LT successfully authenticates the
	IUT.
TP/FT/MM/BV/AR-06	DPRS-N.14, Service class indication/assignment
	EN 300 175-5 [2]: 13.5.1, EN 300 444 [5]: 8.30
	Initial state: No access rights. Bit a44 has to be set in the IUT
	Verify that the IUT is able to perform the basic operation of the obtain access rights
	procedure, when the LT sends in the < <auth_type>> information element the</auth_type>
	auth_key_type "UAK", and the IUT uses the User Authentication Key (UAK) for
	authentication. The IUT shall include the whole PARK.
TP/FT/MM/BV/AR-07	DPRS-N.14, Service class indication/assignment
	EN 300 175-5 [2]: 13.5.1, EN 300 444 [5]: 8.30, table 57
	Initial state: No access rights. Bit a44 has to be set in the IUT
	Verify that the IUT is able to assign zap field as Part of the basic obtaining access rights
	procedure.
TP/FT/MM/BV/AR-50	DPRS-N.37, On-air modification of user parameters
	EN 300 824 [7]: 9.8, table 18
	Initial state: T-00
	Verify that the IUT is able to successfully perform the On-air modification of user
	parameters procedure.
TP/FT/MM/TI-04	DPRS-N.20, Terminate access rights FT initiated
	EN 300 175-5 [2]: 13.5.2, EN 300 444 [5]: 8.31.2.2
	Initial state: F-00
	Verify that the IUT is capable of completing the FT Termination of access rights
	procedure at a point in time 10 % before expiry of the timer F- <mm_access.2>.</mm_access.2>
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5.2.13 On air key allocation

DPRS-N.12, On air key allocation		
	Key allocation	EN 300 444 [5]: 8.32

TP/FT/MM/BV/KA-01	DPRS-N.12, On air key allocation
	EN 300 175-5 [2]: 13.6, EN 300 444 [5]: 8.32
	Initial state: Specified in PIXIT
	Verify that the IUT, after invocation, is able to perform the basic operation of the key
	allocation procedure.
TP/FT/MM/BV/KA-02	DPRS-N.12, On air key allocation
	EN 300 175-5 [2]: 13.6, EN 300 444 [5]: 8.32.2.4, figure 63
	Initial state: Specified in PIXIT
	Verify that the IUT, after invocation of the key allocation procedure, if the authentication
	of PT as Part of this procedure fails, returns an {AUTH-REJECT} message.
TP/FT/MM/TI-05	DPRS-N.12, On air key allocation
	EN 300 175-5 [2]: 13.6, EN 300 444 [5]: 8.32.2.1
	Initial state: Specified in PIXIT
	Verify that the IUT is capable of completing the FT Key allocation procedure at a point in
	time 10 % before expiry of the timer F- <mm_key.1>.</mm_key.1>

5.2.14 Encryption

DPRS-N.17, Encryption activation FT initiated		
	Cipher-switching initiated by FT	EN 301 649 [6]: 12.12
	Storing the DCK	EN 301 649 [6]: 12.10
DPRS-N.27, Encryption activation PT initiated		
	Cipher-switching initiated by PT	EN 301 649 [6]: 12.13
	Storing the DCK	EN 301 649 [6]: 12.10
DPRS-N.28, Encryption deactivation FT initiated		
	Cipher-switching initiated by FT	EN 301 649 [6]: 12.12
DPRS-N.29, Encryption deactivation PT initiated		
	Cipher-switching initiated by PT	EN 301 649 [6]: 12.13

TP/FT/MM/BV/CH-01	DPRS-N.27, Encryption activation PT initiated EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.34 Initial state: F-00 Verify that the IUT is able to correctly perform the basic cipher switching procedure after the PT initiated cipher switching procedure requesting "cipher-on", while no ciphering is active.
TP/FT/MM/BV/CH-02	DPRS-N.29, Encryption deactivation PT initiated EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.34 Initial state: F-00 Verify that the IUT is able to correctly perform the basic cipher request procedure after the PT initiated cipher switching procedure requesting "cipher-off", while ciphering is active.
TP/FT/MM/BV/CH-04	DPRS-N.28, Encryption deactivation FT initiated EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.34 Initial state: Specified in PIXIT Verify that the IUT, after invocation, is able to perform the basic operation of FT initiated cipher switching procedure requesting "cipher-off", while ciphering is active.
TP/FT/MM/BV/CH-05	DPRS-N.27, Encryption activation PT initiated EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.34.2.1, figure 68 Initial state: F-00 Verify that the IUT rejects a cipher switching request from the PT when a {CIPHER-SUGGEST} message has been received, containing a not supported cipher key.
TP/FT/MM/BV/CH-08	DPRS-N.17, Encryption activation FT initiated EN 300 175-7 [4]: 6.4.6, EN 300 444 [5]: 10.14 Initial state: Specified in PIXIT Check that the IUT releases the basic Connection when it cannot conclude the procedure to switch from clear mode to encrypt mode (FT initiated cipher-switching).

TP/FT/MM/BV/CH-09	DPRS-N.27, Encryption activation PT initiated
117/11/10/10/10/10/10/10/10/10	EN 300 175-7 [4]: 6.4.6, EN 300 444 [5]: 10.14
	Initial state: F-00
	Check that the IUT releases the Connection when it cannot conclude the procedure to
	switch from clear mode to encrypt mode (PT initiated cipher-switching).
TP/FT/MM/BV/CH-10	DPRS-N.27, Encryption activation PT initiated
11 /1 1/101101/BV/CH-10	EN 300 175-7 [4]: 6.4.7, EN 300 444 [5]: 10.15
	Initial state: F-00
	Check that the IUT responds rightly to a PT initiated intercell bearer handover procedure
	when encryption is enabled (PT initiated cipher-switching).
TP/FT/MM/BV/CH-11	DPRS-N.27, Encryption activation PT initiated
TI /I I/WW/BV/CIT-TT	EN 300 175-7 [4]: 6.4.7, EN 300 444 [5]: 10.15
	Initial state: F-00
	Check that the IUT responds rightly to a PT initiated intracell bearer handover procedure
	when encryption is enabled (PT initiated cipher-switching).
TP/FT/MM/BV/CH-12	DPRS-N.27, Encryption activation PT initiated
TE/F1/WWW/BV/CH-12	EN 300 175-7 [4]: 6.4.7, EN 300 444 [5]: 10.15
	Initial state: Specified in PIXIT
	Check that the IUT responds rightly to a PT initiated intercell bearer handover procedure
	when encryption is enabled (PT initiated cipher-switching).
TP/FT/MM/BV/CH-13	DPRS-N.27, Encryption activation PT initiated
	EN 300 175-7 [4]: 6.4.6, EN 300 444 [5]: 10.14
	Initial state: F-00
	Check that the IUT releases the Connection when it cannot conclude the procedure to
	switch from encrypt mode to clear mode (PT initiated cipher-switching).
TP/FT/MM/BV/CH-14	DPRS-N.17, Encryption activation FT initiated
	EN 300 175-7 [4]: 6.4.7, EN 300 444 [5]: 10.15
	Initial state: Specified in PIXIT
	Check that the IUT responds rightly to a PT initiated intracell bearer handover procedure
	when encryption is enabled (FT initiated cipher-switching).
TP/FT/MM/BV/CH-15	DPRS-N.17, Encryption activation FT initiated
	EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.33
	Initial state: Specified in PIXIT
	Verify that the IUT, after invocation, is able to perform the basic operation of FT initiated
	cipher switching procedure requesting "cipher-off", while ciphering is active.
TP/FT/MM/BV/CH-data01	DPRS-N.27, Encryption activation PT initiated
	EN 301 649 [6]: 12.13
	Initial state: F-00
	Verify that the IUT, that does not support ciphering, rejects a cipher switching request
	from the PT when a {CIPHER-SUGGEST} message has been received, by sending
	immediately a {CIPHER-REJECT} message.
TP/FT/MM/TI-06	DPRS-N.28, Encryption deactivation FT initiated
	EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.34.2.2
	Initial state: Specified in PIXIT
	Verify that the IUT is capable of completing the FT initiated cipher-switching procedure
	at a point in time 10 % before expiry of the timer F- <mm_cipher.2>.</mm_cipher.2>
	at a point in time 10 % before expiry of the timer F- <mm_cipher.2>.</mm_cipher.2>

5.2.15 DECT External handover

DPRS-N.33, DECT External handover		
	Handover candidate indication	EN 300 824 [7]: 9.1.1.1
	Handover candidate retrieval	EN 300 824 [7]: 9.1.12
	Target FP selection	EN 300 824 [7]: 9.1.2
	Handover reference indication	EN 300 824 [7]: 9.1.3.1
	Handover reference retrieval	EN 300 824 [7]: 9.1.3.2
	External handover call setup	EN 300 824 [7]: 9.1.4
	Ciphering procedure PT initiated	EN 300 824 [7]: 9.1.5.1
	Ciphering procedure FT initiated	EN 300 824 [7]: 9.1.5.2
	U-plane handling	EN 301 649 [6]: 12.21

TP/FT/CC/BV/CR-50	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.4.2.2
	Initial state: F-10
	Verify that after completing the external handover call setup procedure, the IUT can
	successfully perform the PT initiated normal CC-release procedure.
TP/FT/CC/BV/CR-51	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.4.2.2
	Initial state: F-10
	Verify that after completing the external handover call setup procedure, the IUT can
	successfully perform the FT initiated normal CC-release procedure.
TP/FT/CC/BV/HP-50	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.1, table 6
	Initial state: F-00
	Verify that during the establishment of an outgoing call, the IUT transmits a valid
	< <ext h="" indicator="" o="">> information element in a CC-message.</ext>
TP/FT/CC/BV/HP-51	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.1, table 6
	Initial state: F-00
	Verify that during the establishment of an incoming call, the IUT transmits a valid
	< <ext h="" indicator="" o="">> information element in a CC-message.</ext>
TP/FT/CC/BV/HP-52	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.3, table 7
	Initial state: F-00
	Verify that during the establishment of an outgoing call, the IUT transmits a valid
	< <network parameter="">> information element in a CC-message.</network>
TP/FT/CC/BV/HP-53	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.3, table 7
	Initial state: F-00
	Verify that during the establishment of an incoming call, the IUT transmits a valid
TD/5T/00//D\/// ID 54	< <network parameter="">> information element in a CC-message.</network>
TP/FT/CC/BV/HP-54	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.4, table 7
	Initial state: F-10
	Verify that the IUT is able to perform the external handover call setup procedure and
	successfully establishes the U-plane on the new connection. The IUT has to provide
TP/FT/MM/BV/HP-50	<ext h="" ind="" o=""> in the external handover call setup.</ext>
1P/F1/MM/BV/HP-50	DPRS-N.33, DECT External handover EN 300 824 [7]: 9.1.1.2
	Initial state: F-00
	Verify that the IUT responds with a valid MM_INFO-ACCEPT message to an
	MM-INFO-REQUEST message requesting "external handover parameters".
TP/FT/MM/BV/HP-51	DPRS-N.33, DECT External handover
11'/F 1/IVIIVI/DV/MM-31	EN 300 824 [7]: 9.1.3.2, table 8
	Initial state: F-00
	Verify that the IUT responds with a valid MM_INFO-ACCEPT message to an
	MM-INFO-REQUEST message requesting "handover reference".
TP/FT/MM/BV/HP-52	DPRS-N.33, DECT External handover
11 /1 1/1V11V1/D V/I II -JZ	EN 300 824 [7]: 9.1.4, table 7
	Initial state: F-10
	Verify that after performing the external handover call setup procedure on a ciphered
	connection, the IUT is able to successfully perform the PT initiated ciphering procedure
	on the new connection.
TP/FT/MM/BV/HP-53	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.4, table 7
	Initial state: F-10
	Verify that after performing the external handover call setup procedure on a ciphered
	connection, the IUT releases the new Connection if ciphering fails on the new
	connection.
TP/FT/MM/BV/HP-54	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.4, table 7
	Initial state: F-10
	Verify that after performing the external handover call setup procedure, the IUT initiates
	and successfully performs the FT initiated ciphering procedure on the new connection.

5.2.16 Link control

DPRS-N.19, Link control		
	Indirect FT initiated link establishment	EN 301 649 [6]: 12.15,
		EN 300 444 [5]: 8.35
	Fast Paging	EN 301 649 [6]: 12.16
	Collective and group ringing	EN 301 649 [6]: 12.17
	Direct FT initiated link establishment	EN 301 649 [6]: 12.18
	Direct PT initiated link establishment	EN 300 444 [5]: 8.36
	Link release "normal"	EN 300 444 [5]: 8.37
	Link release "abnormal"	EN 300 444 [5]: 8.38
	Link release "maintain"	EN 300 444 [5]: 8.39
	Resume Paging	EN 301 649 [6]: 12.19

[
TP/FT/LC/BV/LE-01	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.1 - 14.2.3, EN 300 444 [5]: 8.35, figure 69
	Initial state: F-00
	Verify that the IUT is able to initiate the indirect normal paged FT-initiated link
	establishment procedure. IUT shall attempt fast set-up which shall be ignored by the LT;
	consequently the IUT shall attempt fast paging which shall be ignored by the LT; Lt shall
	accept the following-on normal paging.
TP/FT/LC/BV/LE-02	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.1 - 14.2.3, EN 300 444 [5]: 8.35.2.1, figure 70
	Initial state: F-00
	Verify that the IUT rejects the {LCE-PAGE-RESPONSE} with mismatching IPUI during
	indirect (paged) FT-initiated link establishment and releases the link.
TP/FT/LC/BV/LE-03	DPRS-N.19, Link control
TP/FT/LC/BV/LE-03	
	EN 300 175-5 [2]: 14.2.1 - 14.2.2, EN 300 444 [5]: 8.36
	Initial state: F-00
	Verify that the IUT is able to handle a PT initiated link establishment.
TP/FT/LC/BV/LE-data01	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.1 - 14.2.3, EN 300 444 [5]: 8.35, figure 69
	Initial state: F-00
	Verify that the IUT is able to initiate the indirect fast-paged FT-initiated link
	establishment procedure. IUT shall attempt fast set-up, which shall be accepted.
TP/FT/LC/BV/LE-data02	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.1 - 14.2.3, EN 300 444 [5]: 8.35, figure 69
	Initial state: F-00
	Verify that the IUT is able to initiate the indirect fast-paged FT-initiated link
	establishment procedure. IUT shall attempt fast set-up, which shall be ignored by the
	LT; consequently the IUT shall attempt fast paging which shall be accepted.
TP/FT/LC/BV/LE-data03	
TP/FT/LC/BV/LE-data03	DPRS-N.19, Link control
	EN 301 649 [6]: 12.17
	Initial state: T-00
	Verify that the IUT is able correctly to perform collective ringing and can establish a call
	when the User responses to the ringing.
TP/FT/LC/BV/LR-01	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.7, EN 300 444 [5]: 8.37
	Initial state: F-00
	Verify that the IUT is able to perform a normal PT initiated link release.
TP/FT/LC/BV/LR-02	DPRS-N.19, Link control
1P/F1/LC/BV/LR-02	
	EN 300 175-5 [2]: 14.2.5, EN 300 444 [5]: 8.39
	Initial state: F-00
	Verify that the IUT is able to maintain the link for a specified time, before releasing it,
	after the termination of an MM procedure. No other entities are using the link.
TP/FT/LC/BV/LR-03	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.5, EN 300 444 [5]: 8.39
	Initial state: F-10
	Verify that the IUT is able to start the link release after the termination of a call.
TD/FT/I Q/D) //I D Q 4	
TP/FT/LC/BV/LR-04	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.5, EN 300 444 [5]: 8.39
	Initial state: F-10
	Verify that the IUT is able to maintain the link for a specified time, before releasing it,
	after a CC-requested partial release has been agreed on, and no other entities are
	using the link.
TP/FT/LC/TI-02	DPRS-N.19, Link control
11 /1 1/LG/11-02	
	EN 300 175-5 [2]: 14.2.5, EN 300 444 [5]: 8.39.1.1
1	
	Initial state: F-00
	Verify that the IUT, after termination of an MM procedure, maintains the link for a period
	Verify that the IUT, after termination of an MM procedure, maintains the link for a period
TP/FT/LC/BI-07	Verify that the IUT, after termination of an MM procedure, maintains the link for a period of <lce.02>. The link shall be released in the period (<lce_02> - 1 000) ms to 10 500 ms.</lce_02></lce.02>
TP/FT/LC/BI-07	Verify that the IUT, after termination of an MM procedure, maintains the link for a period of <lce.02>. The link shall be released in the period (<lce_02> - 1 000) ms to 10 500 ms. DPRS-N.19, Link control</lce_02></lce.02>
TP/FT/LC/BI-07	Verify that the IUT, after termination of an MM procedure, maintains the link for a period of <lce.02>. The link shall be released in the period (<lce_02> - 1 000) ms to 10 500 ms. DPRS-N.19, Link control EN 300 175-5 [2]: 14.2, EN 300 444 [5]: 8.38</lce_02></lce.02>
TP/FT/LC/BI-07	Verify that the IUT, after termination of an MM procedure, maintains the link for a period of <lce.02>. The link shall be released in the period (<lce_02> - 1 000) ms to 10 500 ms. DPRS-N.19, Link control</lce_02></lce.02>

5.2.17 Message Waiting Indication

DPRS-N.34, Message Waiting Indication		
	Message waiting indication	EN 300 824 [7]: 9.7

TP/FT/IS/BV-50	DPRS-N.34, Message Waiting Indication
1171 1716/27 00	EN 300 824 [7], 9.7 - 9.7.1, table 16
	Initial state: F-00
	Verify that the IUT as Part of a Message waiting indication activation procedure sends
	correctly a notification for message waiting.
TP/FT/IS/BV-51	DPRS-N.34, Message Waiting Indication
	EN 300 824 [7], 9.7 - 9.7.2, table 17
	Initial state: F-00
	Verify that the IUT as Part of a Message waiting indication deactivation procedure sends
	correctly a notification with <numberofmessages> equal to zero.</numberofmessages>

5.2.18 Distributed communication

DPRS-A.1 Distributed communication		
	HyP (Distributed Communication)	EN 301 649 [6]: annex E

TP/FT/MM/BV/ID-data01	Distributed communication
	EN 300 175-5 [2]: 14.4
	Initial state: F-00
	Verify that the IUT performs properly the Temporary Identity Assign procedures
	assigning a CL TPUI.
TP/FT/CL/BV-01	Distributed communication
	EN 300 175-5 [2]: 12.3.1
	Initial state: F-00
	Verify that the IUT, after invocation, is able to send a CLMS-FIXED message.
TP/FT/CL/BV-02	Distributed communication
	EN 300 175-5 [2]: 14.2.1 - 14.2.3
	Initial state: F-00
	Verify that the IUT, after invocation, is able to send a CLMS-VARIABLE. message.
TP/FT/CL/BV-03	Distributed communication
	EN 300 175-5 [2]:.2.1 - 14.2.3
	Initial state: F-00
	Verify that the IUT is able to receive a CLMS-VARIABLE message.

5.2.19 MAC Suspend/Resume

DPRS MAC Suspend/Resume		
	MAC Suspend	EN 301 649 [6]: 10.7.3
	MAC Resume	EN 301 649 [6]: 10.7.4

EN 301 649 [6]: 10.7.3, 10.7.4
Initial state: F-00
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure when
the FT has previously initiated the suspension and now initiates the resumption with
normal paging. LT shall ignore fast set-up and fast paging and accept the normal
paging.
EN 301 649 [6]: 10.7.3, 10.7.4
Initial state: F-00
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure when
the FT has previously initiated the suspension and now initiates the resumption with fast
paging. LT shall ignore fast set-up and accept the fast paging.
EN 301 649 [6]: 10.7.3, 10.7.4
Initial state: F-00
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure when
the FT has previously initiated the suspension and now initiates the resumption with fast
setup.
EN 301 649 [6]: 10.7.3, 10.7.4
Initial state: F-00
Verify that the IUT is able to handle correctly at NWK layer the MAC suspend/resume
procedure when the PT has previously initiated the suspension and now the FT initiates
the resumption with normal paging. LT shall ignore fast set-up and fast paging and
accept the normal paging.
EN 301 649 [6]: 10.7.3, 10.7.4
Initial state: F-00
Verify that the IUT is able to handle correctly at NWK layer the MAC suspend/resume
procedure when the PT has previously initiated the suspension and now the FT initiates
the resumption with fast paging. LT shall ignore other FT fast set-up and accept the fast
paging.
EN 301 649 [6]: 10.7.3, 10.7.4
Initial state: F-00
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure when
the PT has previously initiated the suspension and now the FT initiates the resumption
with fast setup.
EN 301 649 [6]: 10.7.3, 10.7.4
Initial state: F-00
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure when
the PT has previously initiated the suspension and now the PT initiates the resumption.
EN 301 649 [6]: 10.7.3, 10.7.4
Initial state: F-00
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure when
the FT has previously initiated the suspension and now the PT initiates the resumption.

5.3 Test purposes for PT part

5.3.1 TP presentation

Test purposes are presented by a logical grouping related to NWK features. The naming is in line with the test suite structure. Test purposes which do not already exist in the CI test case library are highlighted by prefixing the word data to their test purpose number.

5.3.2 Dynamic parameters allocation and NWK layer management

DPRS-N.38, Dynamic parameters allocation		
	Dynamic parameters allocation	EN 301 649 [6]: 12.11
DPRS-N.41, NWK layer management		
	Management of MM procedures	EN 301 649 [6]: 12.22
	Location registration initiation	EN 300 444 [5]: 13.2
	management	
	Assigned individual TPUI management	EN 300 444 [5]: 13.4
	PMID management	EN 300 444 [5]: 13.5
	DCK management	EN 300 444 [5]: 13.6
	Broadcast attributes management	EN 301 649 [6]: 12.20
	Storage of subscription related data	EN 301 649 [6]: 12.xx-
	management	
	U-plane handling	EN 301 649 [6]: 12.21

These two features are implicitly covered by the test purposes defined for all other NWK features.

5.3.3 SARI support

DPRS M.15 SARI support		
	Downlink broadcast	EN 300 175-3 [1]: 7.2.3.6

TP/PT/MM/BV/LO-10	M.15 SARI support EN 300 175-3 [1]: 11.3.2, EN 300 175-6 [3]: 5.6
	Initial state: T-00 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.

5.3.4 Outgoing call

DPRS-N.1, Outgoing call		
	Outgoing call request	EN 301 649 [6]: 12.1
	Overlap sending	EN 300 444 [5]: 8.3
	Outgoing call proceeding	EN 300 444 [5]: 8.4
	Outgoing call confirmation	EN 300 444 [5]: 8.5
	Outgoing call connection	EN 300 444 [5]: 8.6
	Sending keypad information	EN 300 444 [5]: 8.10
DPRS-N.2, Off Hook		
	Outgoing call request	EN 300 444 [5]: 8.2
DPRS-N.3, On Hook (full release)		
	Normal call release	EN 300 444 [5]: 8.7
	Abnormal call release	EN 300 444 [5]: 8.8
DPRS-N.21, Partial release		
	Partial release	EN 300 444 [5]: 8.9

TP/PT/CC/BV/MP-data01

DPRS-N.1, Outgoing call

EN 300 444 [5]: 8.1, figure 1

Initial state/Conditions: IUT is in idle_active - no subscription available. If such is found the test shall remove it. Test is valid only for IUT that can transmit dialling information in T-02, e.g. able to be connected to an external switched network as ISDN.

Verify that the IUT is able after obtaining a valid subscription to perform an outgoing call trough all CC-states using piecewise method to transfer dialling information in state T-02 performing resources management, data transfer and proper released by the IUT of the call. The LT(FT) accepts the suggested in the {CC-SETUP} lower layer resources.

Explicitly testing:

- Obtain access rights procedure;
- Key allocation procedures;
- Location registration procedure;
- PT authentication procedure;
- Store DCK procedure;
- Outgoing call establishment:
- LCE Link establishment;
- CC-transitions:
- FT initiating Ciphering;
- Service negotiation (suggested characteristics accepted from the LT);
- U-plane connection:
- U-plane transfer:
- MAC suspend/resume;
- Service change:
- PT initiated Call release.

Expected behaviour:

Pre call establishment:

The IUT(PT) shall initiate Obtain access rights procedure; the LT (FT) shall interrupt it with a Key allocation procedure; When the Obtain access rights is accomplished successfully the IUT shall perform a Location Registration procedure - LT shall assign TPUI; LT shall interrupt the Location registration with a PT authentication to verify the keys and to request DCK;

Call establishment:

IUT shall be requested to start an Outgoing call; IUT shall initiate link establishment; Call setup shall occur - LT answers to {CC-SETUP} with a {CC-SETUP-ACK}, followed by a {CC-CALL-PROC}, a {CC-ALERTING} and a {CC-CONNECT} - IUT starts digits transmission in T-02; Lower layer resources negotiation is performed as the information included from the IUT will be in the CC-SETUP, and from LT in CC-SETUP-ACK accepting the suggestion; LT shall initiate ciphering in T-01, if it is accepted or if it is rejected and the IUT does not support ciphering the test shall go on - otherwise it shall fail:

Data transmission (in T-10):

Establishment of all necessary resources at MAC shall be verified; LT shall transmit a relatively big amount of data which require maximum used of the resources; LT shall request MAC suspend of the link on completion of the data transfer; if link is suspended after some time LT shall request MAC resume (fast setup, fast paging, and normal paging shall be performed until one succeeds); LT shall transmit a small amount of data that does not require full capacity and shall request Service change reducing the max. number of bearers (LT Master); new MAC resources set shall be verified; LT shall transmit a small amount of data that does not require full capacity;

IUT shall be requested to release normally the call.

TP/PT/CC/BV/MP-data02

DPRS-N.1, Outgoing call

EN 300 444 [5]: 8.1, figure 2

Initial state/Conditions: IUT is in idle_active - no subscription available. If such is found the test shall remove it.

Verify that the IUT is able after obtaining a valid subscription to perform a CC-state transition from the T-00 state to T-10 state via T-01 for an outgoing normal call set-up using piecewise method to transfer dialling information in state T-10 performing resources management, data transfer and proper released by the IUT of the call. The LT(FT) accepts the suggested in the {CC-SETUP} lower layer resources.

Explicitly testing/ Expected behaviour:

See TP/PT/CC/BV/OC-data01 - only difference is the CC-transitions directly from T-01 to T-10.

TD/DT/CC/DV/CD 04	DPRS-N.3, On Hook (full release)
TP/PT/CC/BV/CR-01	EN 300 175-5 [2]: 9.5.1, EN 300 444 [5]: 8.7
	Initial state: T-02
	Verify that the IUT is able to process a FT initiated normal release.
TP/PT/CC/BV/CR-05	DPRS-N.3, On Hook (full release)
,,,	EN 300 175-5 [2]: 9.5.1, EN 300 444 [5]: 8.7
	Initial state: T-10
	Verify that the IUT is able to process a FT initiated normal release.
TP/PT/CC/BV/CR-06	DPRS-N.3, On Hook (full release)
	EN 300 175-5 [2]: 9.5.1, EN 300 444 [5]: 8.7
	Initial state: T-10
	Verify that the IUT is able to process an IUT initiated normal release.
TP/PT/CC/BV/CR-07	DPRS-N.3, On Hook (full release)
	EN 300 175-5 [2]: 9.5.2, EN 300 444 [5]: 8.8
	Initial state: T-01
	Verify that the IUT is able to process a FT initiated abnormal release.
TP/PT/CC/BV/CR-09	DPRS-N.3, On Hook (full release)
	EN 300 175-5 [2]: 9.5.2, EN 300 444 [5]: 8.8
	Initial state: T-10
	Verify that the IUT is able to process a FT initiated abnormal release.
TP/PT/CC/BV/CR-10	DPRS-N.21, Partial release
	EN 300 175-5 [2]: 14.2.7, EN 300 444 [5]: 8.9
	Initial state: T-10
	Verify that the IUT is able to process a FT initiated partial release.
TP/PT/CC/BV/CR-11	DPRS-N.21, Partial release
	EN 300 175-5 [2]: 14.2.7, EN 300 444 [5]: 8.9
	Initial state: T-10
TP/PT/CC/TI-01	Verify that the IUT is able to process an IUT initiated partial release. DPRS-N.3, On Hook (full release)
TP/P 1/CC/11-01	EN 300 175-5 [2]: 9.5.1, EN 300 444 [5]: 8.7.2.3
	Initial state: T-19
	Verify that the IUT, after having started timer P- <cc.02>, sends a {CC-RELEASE-COM}</cc.02>
	message when the timer expires after the defined time. The {CC-RELEASE-COM}
	message should arrive within the allowed margin time of ±5 %.
TP/PT/CC/TI-02	DPRS-N.1, Outgoing call
1171 1733/11 32	EN 300 175-5 [2]: 9.3.2.1, EN 300 444 [5]: 8.2.2.1
	Initial state: T-01
	Verify that the IUT, after having started timer P- <cc.03>, sends a {CC-RELEASE-COM}</cc.03>
	message when the timer expires after the defined time. The {CC-RELEASE-COM}
	message should arrive within the allowed margin time of ±5 %.
TP/PT/CC/TI-03	DPRS-N.1, Outgoing call
	EN 300 175-5 [2]: 9.3.2.1, EN 300 444 [5]: 8.2.1.1
	Initial state: T-01
	Verify that the IUT is able to restart timer P- <cc.03>. on receipt of a {CC-NOTIFY}</cc.03>
	message, sent by the FT.
TP/PT/CC/BO-02	DPRS-N.3, On Hook (full release)
	EN 300 175-5 [2]: 9.5.3, EN 300 444 [5]: 8.7.2.1, figure 21.
	Initial state: T-19
	Verify that the IUT is able to react correctly on a release collision, in the sense that on
	the reception of a {CC-RELEASE} message in state F-19, no {CC-RELEASE-COM}
	message is sent back, and the call is cleared.

5.3.5 Service Negotiation and In call service change

DPRS-N.39, Service Negotiation		
	Call Resources/Parameters negotiation	EN 301 649 [6]: 12.5
DPRS-N.40, In call service change		
	Bandwidth Change	EN 301 649 [6]: 12.6
	Connection Reversal	EN 301 649 [6]: 12.7
	Service re-routing	EN 301 649 [6]: 12.8
	IWU-attributes change	EN 301 649 [6]: 12.9

TP/PT/CC/BV/SN-data01	DPRS-N.39, Service Negotiation EN 300 444 [5]: 8.1, figure 2 Initial state/Conditions: T-00, subscription available (if not the test will request it). Verify that the IUT is able to perform a CC-state transition from the T-00 state to T-10 state via T-01 for an outgoing normal call set-up using piecewise method to transfer dialling information in state T-10. The LT suggest different, lower than the requested by the IUT values of "Target bearers" in the < <connection attributes="">>. Before accepting the call the LT initiates ciphering.</connection>
TP/PT/CC/BV/SN-data02	DPRS-N.39, Service Negotiation EN 300 444 [5]: 8.1, figure 2 Initial state/Conditions: T-00, subscription available (if not the test will request it). Verify that the IUT is able to perform a CC-state transition from the T-00 state to T-10 state via T-01 for an outgoing normal call set-up using piecewise method to transfer dialling information in state T-10. The LT suggest different, lower than the requested by the IUT values of <mac life="" packet="" time=""> in the <<connection attributes="">>. Before accepting the call the LT initiates ciphering.</connection></mac>
TP/PT/CC/BV/SN-data03	DPRS-N.39, Service Negotiation EN 300 444 [5]: 8.1, figure 2 Initial state/Conditions: T-00, subscription available (if not the test will request it). Verify that the IUT is able to perform a CC-state transition from the T-00 state to T-10 state via T-01 for an outgoing normal call set-up using piecewise method to transfer dialling information in state T-10. The LT suggest different, lower than the requested by the IUT values of the < <window size="">>>. Before accepting the call the LT initiates ciphering.</window>
TP/PT/CC/BV/SN-data04	DPRS-N.39, Service Negotiation EN 300 444 [5]: 8.1, figure 2 Initial state/Conditions: T-00, subscription available (if not the test will request it). Verify that the IUT is able to perform a CC-state transition from the T-00 state to T-10 state via T-01 for an outgoing normal call set-up using piecewise method to transfer dialling information in state T-10. The LT suggest different values of the < <iwu attributes="">>. Before accepting the call the LT initiates ciphering.</iwu>

TP/PT/CC/BV/SC-data01	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.9
	Initial state/Conditions: T-10, subscription available (if not the test will request it).
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(FT); initiating side is the Master. The LT suggest different values of
	the < <iwu attributes="">>. Before accepting the call the LT initiates ciphering.</iwu>
TP/PT/CC/BV/SC-data02	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.9
	Initial state/Conditions: T-10, subscription available (if not the test will request it).
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(FT); receiving side is the Master. The LT suggest different values of
	the < <iwu attributes="">>. Before accepting the call the LT initiates ciphering.</iwu>
TP/PT/CC/BV/SC-data03	DPRS-N.40, In call service change
TF/FT/CC/BV/SC-data03	EN 301 649 [6]: 12.6
	Initial state/Conditions: T-10, subscription available (if not the test will request it).
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(FT); initiating side is the Master. The LT suggests "bandwidth
	change" and different values of the < <connection attributes="">>. Before accepting the call</connection>
	the LT initiates ciphering.
TP/PT/CC/BV/SC-data04	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.6
	Initial state/Conditions: T-10, subscription is assumed available but if not the test will
	request it.
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(FT); receiving side is the Master. The LT suggests "bandwidth
	change" and different values of the < <connection attributes="">>. Before accepting the call</connection>
	the LT initiates ciphering.
TP/PT/CC/BV/SC-data05	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.7
	Initial state/Conditions: T-10, subscription is assumed available but if not the test will
	request it.
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(FT); initiating side is the Master. The LT suggests
	"Connection reversal" and different values of the < <connection attributes="">>. Before</connection>
	accepting the call the LT initiates ciphering.
TP/PT/CC/BV/SC-data06	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.7
	Initial state/Conditions: T-10, subscription is assumed available but if not the test will
	request it.
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the LT(FT); receiving side is the Master. The LT suggests
	"Connection reversal" and different values of the < <connection attributes="">>. Before</connection>
	accepting the call the LT initiates ciphering.
Expected behaviour:	Taboopang and dan and E1 initiation diprioring.
Expedied beliaviour.	

Expected behaviour:

LT Establishes an Incoming call as Lower layer resources negotiation shall be accomplished with information included from the LT in CC-SETUP, and from IUT in CC-ALERTING; in T-07 FT shall authenticate the PT with "Store DCK" enabled and shall requests Ciphering - if PT does not support it shall reject; when in T-10 the U-plane transmission shall be checked; FT shall initiate the Service change procedure; Resource allocation at MAC shall be initiated by the Master as specified during the procedure; When accomplished the U-plane shall be checked again; Normal Release of the call shall be requested from the LT.

TP/PT/CC/BV/SC-data07	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.9
	Initial state/Conditions: T-10, subscription available (if not the test will request it).
	For IUT that can invoke such service change.
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the IUT(PT); Master side specified by the IUT. The IUT suggest different
	values of the < <iwu attributes="">>. Before accepting the call the LT initiates ciphering.</iwu>
TP/PT/CC/BV/SC-data08	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.6
	Initial state/Conditions: T-10, subscription available (if not the test will request it).
	For IUT that can invoke such service change.
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the IUT(PT); Master side specified by the IUT. The IUT suggests "bandwidth
	change" and different values of the < <connection attributes="">>. Before accepting the call</connection>
	the LT initiates ciphering.
TP/PT/CC/BV/SC-data09	DPRS-N.40, In call service change
	EN 301 649 [6]: 12.7
	Initial state/Conditions: T-10, subscription available (if not the test will request it).
	For IUT that can invoke such service change.
	Verify that the IUT is able to perform correctly the Service change procedure when
	initiated by the IUT(PT); Master side specified by the IUT. The IUT suggests
	"Connection reversal" and different values of the < <connection attributes="">>. Before</connection>
	accepting the call the LT initiates ciphering.
Even a stand hadron days	120-2-1-0-2-1-0-1-0-1-0-1-0-1-0-1-0-1-0-

Expected behaviour:

IUT shall establish an outgoing call as Lower layer resources negotiation shall be accomplished with information included from the IUT in CC-SETUP, and from LT in CC-CONNECT; in T-01 FT shall authenticate the PT with "Store DCK" enabled and shall requests Ciphering - if PT does not support it shall reject; when in T-10 the U-plane transmission shall be checked; IUT shall be requested to initiate the Service change procedure; Resource allocation at MAC shall be initiated by the Master as specified during the procedure; When accomplished the U-plane shall be checked again; Normal Release of the call shall be requested from the LT.

5.3.6 Sending keypad information

DPRS-N.4, Dialled digits (basic)		
DPRS-N.5, Register recall		
DPRS-N.6, Go to DTMF signalling (defined tone length)		
DPRS-N.7, Pause (dialling pause)		
DPRS-N.22, Go to DTMF (infinite tone length)		
DPRS-N.23, Go to Pulse		
	Sending keypad information	EN 300 444 [5]: 8.10

TP/PT/CC/BV/CI-02	DPRS-N.23, Go to Pulse
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.10, table 20
	Initial state: T-02
	Verify that the IUT, after the user has invoked pulse (decadic) dialling, sends a
	(CC-INFO) message with a < <multi-keypad>> information element containing</multi-keypad>
	keypad-info '12H' (goto pulse).
TP/PT/CC/BV/CI-05	DPRS-N.7, Pause (dialling pause)
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.10, table 20
	Initial state: T-10
	Verify that the IUT, after the user has invoked dialling pause, sends a {CC-INFO}
	message with a < <multi-keypad>> information element containing keypad-info '05H'</multi-keypad>
	(dialling pause).
TP/PT/CC/BV/CI-06	DPRS-N.6, Go to DTMF signalling (defined tone length)
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.10, table 20
	Initial state: T-02
	Verify that the IUT, after the user has invoked DTMF dialling with defined tone length,
	sends a {CC-INFO} message with a < <multi-keypad>> information element</multi-keypad>
	containing keypad-info '14H' (goto DTMF, defined tone length).
TP/PT/CC/BV/CI-09	DPRS-N.22, Go to DTMF (infinite tone length)
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.10, table 20
	Initial state: T-10
	Verify that the IUT, after the user has invoked DTMF dialling with defined tone length,
	sends a {CC-INFO} message with a < <multi-keypad>> information element</multi-keypad>
	containing keypad-info '16H' (goto DTMF, infinite tone length).
TP/PT/CC/BV/CI-10	DPRS-N.4, Dialled digits (basic)
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.10, table 20
	Initial state: T-02
	Verify that the IUT, after the user has invoked the sending of the basic digits (0-9, star,
	hash mark), sends one or more {CC-INFO} messages with < <multi-keypad>></multi-keypad>
	information elements containing the basic digits.
TP/PT/CC/BV/CI-14	DPRS-N.5, Register recall
	EN 300 175-5 [2]: 9.3.1.5, EN 300 444 [5]: 8.10, table 20
	Initial state: T-10
	Verify that the IUT, after invocation of 'register recall', is able to activate the feature
	register recall in a {CC-INFO} message.

5.3.7 Incoming call

DPRS-N.2, Off Hook		
	Incoming call connection	EN 300 444 [5]: 8.15
DPRS-N.8, Incoming call		
	Incoming call request	EN 301 649 [6]: 12.2
	Incoming call confirmation	EN 300 444 [5]: 8.13
	Incoming call connection	EN 300 444 [5]: 8.15
DPRS-N.15, Alerting		
	PT alerting	EN 300 444 [5]: 8.14
DPRS-N.30, Calling Line Identification		
Presentation (CLIP)		
	Incoming call request	EN 300 444 [5]: 8.12

TP/PT/CC/BV/MP-data03	DPRS-N.8, Incoming call
	EN 301 649 [6]: 12.2, EN 300 444 [5]: 8.11, figure 28
	Initial state: T-00
	Verify that the IUT is able to perform an incoming call via the states T-06, T-07 and T-08
	to the state T-10 10 performing resources management, data transfer and proper
	released by the LT of the call. IUT shall handle properly the service negotiation.
	LT sends < <signal>> in the {CC-INFO} message.</signal>

Implicitly testing:

- LCE Link establishment (FT direct or indirect);
- Incoming Call establishment trough all CC-state;
- PT authentication procedure:
- Store DCK procedure;
- FT initiating Ciphering;
- Service negotiation (suggested characteristics accepted or not by IUT);
- U-plane connection;
- U-plane transfer:
- MAC suspend/resume;
- Service change;
- FT initiated Call release.

Expected behaviour:

Pre call establishment:

Subscription should be available if not shall be obtained as in the outgoing call cases: The IUT(PT) shall initiate Obtain access rights procedure; the LT (FT) shall interrupt it with a Key allocation procedure; When the Obtain access rights is accomplished successfully the IUT shall perform a Location Registration procedure - LT shall assign TPUI; LT shall interrupt the Location registration with a PT authentication to verify the keys and to request DCK; Call establishment:

LT(FT) shall try Direct link establishment - if it fails it shall try Fast Paging - if it fails shall try normal Paging (whatever IUT(PT) answers and based on the set-up capability indicated during location registration); When link established Incoming Call setup shall occur; Lower layer resources negotiation is performed as the information included from the LT will be in the CC-SETUP, and from IUT in CC-ALERTING - IUT may but need not accepting the suggestion; LT shall initiate ciphering in T-07 preceded by a PT authentication with "store DCK", if ciphering is accepted, or, if it is rejected and the IUT does not support ciphering the test shall go on - otherwise it shall fail; Data transmission (in T-10):

As in the outgoing call cases: Establishment of all necessary resources at MAC shall be verified; LT shall transmit a relatively big amount of data which require maximum used of the resources; LT shall request MAC suspend of the link on completion of the data transfer; if link is suspended after some time LT shall request MAC resume (fast setup, fast paging, and normal paging shall be performed until one succeeds); LT shall transmit a small amount of data that does not require full capacity and shall request Service change reducing the max. number of bearers (LT Master); new MAC resources set shall be verified; LT shall transmit a small amount of data that does not require full capacity; Call release:

LT shall be requested normal call release.

TP/PT/CC/BV/MP-data04	DPRS-N.8, Incoming call	
	EN 301 649 [6]: 12.2, EN 300 444 [5]: 8.11, figure 28	
	Initial state: T-00	
	Verify that the IUT is able to perform an incoming call via the states T-06, T-07 and T-08	
	to the state T-10 10 performing resources management, data transfer and proper	
	released by the LT of the call. IUT shall handle properly the service negotiation. LT	
	sends < <signal>> in the {CC-SETUP} message.</signal>	
Explicitly testing/ Expected behaviour:		
See TP/PT/CC/BV/MP-data03 - only difference is the where the <signal> information element.</signal>		

TP/PT/CC/BV/RS-01	DPRS-N.30, Calling Line Identification Presentation (CLIP)
	EN 300 175-5 [2]: 10.3, EN 300 444 [5]: 8.12, EN 300 824 [7]: 7.7, table 3
	Initial state: T-00
	Verify that the IUT shows the calling party number correctly on receipt of calling party
	number indication before accepting a call.
TP/PT/CC/TI-04	DPRS-N.8, Incoming call
	EN 300 175-5 [2]: 9.3.2.8, EN 300 444 [5]: 8.15.2.3
	Initial state: T-08
	Verify that the IUT, after having started timer P- <cc.05>, releases the call using the</cc.05>
	normal procedure when the timer expires after the defined time. The {CC-RELEASE}
	message should arrive within the allowed margin time of ±5 %.

Internal call and Service call 5.3.8

DPRS-N.31, Internal call		
	Internal call set-up	EN 300 444 [5]: 8.18
	Internal call keypad	EN 301 649 [6]: 12.4
DPRS-N.32, Service call		
	Service call set-up	EN 300 444 [5]: 8.20
	Service call keypad	EN 300 444 [5]: 8.21

TP/PT/CC/BV/MP-data05	DPRS-N.31, Internal call	
	EN 300 444 [5], 8.18, table 30	
	Initial state: T-00	
	Verify that the IUT, after the user has invoked an Internal call, is able to perform an Internal call set-up trough all CC-states using piecewise method to transfer dialling information in state T-02 performing resources management, data transfer and proper released by the IUT of the call. The LT(FT) accepts the suggested in the {CC-SETUP}	
	lower layer resources.	
Explicitly testing/ Expected behaviour:		
See TP/PT/CC/RV/MP-data01 - only difference is the content of the > now indicating "Internal Call"		

See TP/PT/CC/BV/MP-data01 - only difference is the content of the <<basic service>> now indicating "Internal Call" and the IUT should be subscribed beforehand.

TP/PT/CC/BV/MP-data06	DPRS-N.31, Internal call
	EN 300 444 [5], 8.18, table 31
	Initial state: T-10
	Verify that the IUT is able to perform a CC-state transition from the T-00 state to T-10
	state via T-01 and request an Internal call via a {CC-INFO} message sent in T-10 using
	piecewise method to transfer dialling information in state T-10 performing resources
	management, data transfer and proper released by the IUT of the call. The LT(FT)
	accepts the suggested in the {CC-SETUP} lower layer resources, the {CC-INFO} shall
	not attempt to change them.
- 11 141 4 41 1- 4	

Explicitly testing/ Expected behaviour:
See TP/PT/CC/BV/MP-data02 - only differences are: the IUT should be subscribed beforehand, in T-10 before sending dialled digits {CC-INFO} <<Multi-keypad>> "Internal Call" shall be sent by the IUT.

5.3.9 Identification of PP and Identity Assignment

DPRS-N.13, Identification of PP		
	Identification of PT	EN 300 444 [5]: 8.22
DPRS-N.42, Identity Assignment		
	Temporary Identity Assign	EN 301 649 [6]: 12.14

TP/PT/MM/BV/ID-01	DPRS-N.13, Identification of PP
	EN 300 175-5 [2]: 13.2.1, EN 300 444 [5]: 8.22
	Initial state: T-00
	Verify that the IUT, on receipt of an {IDENTITY-REQUEST} message specifying the
	International Portable User Identity (IPUI), returns an {IDENTITY-REPLY} message with
	the IPUI.
TP/PT/MM/BV/ID-02	DPRS-N.13, Identification of PP
	EN 300 175-5 [2]: 13.2.1, EN 300 444 [5]: 8.22.2.1
	Initial state: T-00
	Verify that the IUT, on receipt of an {IDENTITY-REQUEST} message specifying an
	unavailable identity type, returns an {IDENTITY-REPLY} message without identity
	information elements thereby indicating reject.
TP/PT/MM/BV/ID-08	DPRS-N.13, Identification of PP
	EN 300 175-5 [2]: 13.2.1, EN 300 444 [5]: 8.22
	Initial state: T-00
	Verify that the IUT, on receipt of an {IDENTITY-REQUEST} message specifying the
	PARK, returns an {IDENTITY-REPLY} message with the PARK.
TP/PT/MM/BV/ID-data02	DPRS-N.42, Identity Assignment
	EN 301 649 [6]: 12.14
	Initial state: T-00
	Verify that the IUT on receipt of a {TEMPORARY-IDENTITY-ASSIGN-REQ} message
	assigning a group TPUI accepts the assignment.

5.3.10 Authentication

DPRS-N.9, Authentication of the PP		
	Authentication of PT	EN 300 444 [5]: 8.24
DPRS-N.10, Authentication of the user		
	Authentication of user	EN 300 444 [5]: 8.25
DPRS-N.16, ZAP		
	Obtaining access rights	EN 300 444 [5]: 8.30
	Incrementing the ZAP value	EN 300 444 [5]: 8.26
DPRS-N.26, Authentication of FT		
	Authentication of FT	EN 300 444 [5]: 8.23

TP/PT/MM/BV/AU-01	DPRS-N.9, Authentication of the PP
	EN 300 175-5 [2]: 13.3.1, EN 300 444 [5]: 8.24
	Initial state: T-00
	Verify that the IUT is able to operate the basic authentication of PT procedure.
	(IUT has not stored ZAP value and service class information.)
	Authentication will be based on a User Authentication Key (UAK), so a precondition to
	this test will be that the UAK is assigned. A DCK will not be stored by the PT. It is
	assumed that the IUT will reply to the authentication request automatically, without any
	user intervention needed.
TP/PT/MM/BV/AU-02	DPRS-N.9, Authentication of the PP
	EN 300 175-5 [2]: 13.3.1, EN 300 444 [5]: 8.24.2.1
	Initial state: T-00
	Verify that the IUT, on receipt of an {AUTH-REQUEST} message containing
	unacceptable algorithm, returns an {AUTH-REJECT} message.
	Authentication will be based on UAK, so a precondition to this test will be that the UAK
	is assigned.
TP/PT/MM/BV/AU-03	DPRS-N.16, ZAP
	EN 300 175-5 [2]: 13.3.1, EN 300 444 [5]: 8.26
	Initial state: T-00
	Verify that the IUT, when it has stored ZAP value, includes the < <zap field="">> in the</zap>
	{AUTH-REPLY} message during the authentication of PT procedure.
	Authentication will be based on UAK, so a precondition to this test will be that the UAK
	is assigned.
TP/PT/MM/BV/AU-04	DPRS-N.16, ZAP
	EN 300 175-5 [2]: 13.3.1, EN 300 444 [5]: 8.26
	Initial state: T-00
	Verify that the IUT increments the ZAP field during an authentication of PT procedure.
	The IUT may or may not authenticate the FT before incrementing the ZAP value.
	Authentication will be based on UAK, so a precondition to this test will be that the UAK
	is assigned.
TP/PT/MM/BV/AU-05	DPRS-N.16, ZAP
	EN 300 175-5 [2]: 13.3.1, EN 300 444 [5]: 8.26
	Initial state: T-00
	Verify that the IUT, if it supports authentication of FT as Part of the increment ZAP
	procedure, does not increment the ZAP value if the FT authentication fails.
	Authentication will be based on UAK, so a precondition to this test will be that the UAK
	is assigned.
TP/PT/MM/BV/AU-07	DPRS-N.10, Authentication of the user
	EN 300 175-5 [2]: 13.3.2, EN 300 444 [5]: 8.25
	Initial state: T-00
TD/DT/ANA/D\//ALL 00	Verify that the IUT is able to operate the basic authentication of user procedure.
TP/PT/MM/BV/AU-08	DPRS-N.26, Authentication of FT
	EN 300 175-5 [2]: 13.3.3, EN 300 444 [5]: 8.23
	Initial state: specified in PIXIT
	Verify that the IUT, after invoking the basic authentication of FT procedure, is able to
	operate the procedure.
	Authentication will be based on UAK, so a precondition to this test will be that the UAK
TD/DT/MANA/DV//ALL OC	is assigned.
TP/PT/MM/BV/AU-09	DPRS-N.16, ZAP
	EN 300 175-5 [2]: 13.3.1, EN 300 444 [5]: 8.26
	Initial state: T-00
	Verify that the IUT, when it has stored service class information, includes the
	< <service class="">> information elements in the {AUTH-REPLY} message during the</service>
	authentication of PT procedure.
	Authentication will be based on UAK, so a precondition to this test will be that the UAK
TD/DT/MAA/TLOG	is assigned.
TP/PT/MM/TI-02	DPRS-N.9, Authentication of the PP
	EN 300 175-5 [2]: 13.3.1, EN 300 444 [5]: 8.24.1.1
	Initial state: T-00
	Verify that the IUT is capable of completing the FT Authentication procedure at a point in time 10 % before expiry of the timer P- <mm_auth.1>.</mm_auth.1>

5.3.11 Location registration

DPRS-N.11, Location registration		
	Location registration	EN 300 444 [5]: 8.28
	Location update	EN 300 444 [5]: 8.29
	Terminal capability indication	EN 301 649 [6]: 12.3
DPRS-N.35, Detach		
	Detach	EN 300 824 [7]: 9.5
DPRS-N.36, Periodic location registration		
	Enhanced location registration	EN 300 824 [7]: 9.6
DPRS-N.24, Signalling of display characters		
	Display	EN 300 444 [5]: 8.16
	Terminal capability indication	EN 301 649 [6]: 12.3
DPRS-N.25, Display control characters		
	Display	EN 300 444 [5]: 8.16
	Terminal capability indication	EN 301 649 [6]: 12.3

TP/PT/CC/BV/CI-12	DPRS-N.25, Display control characters
	EN 300 444 [5]: 8.16
	Initial state: T-10
	Verify that the IUT, on reception of < <multi_display>> information elements,</multi_display>
	containing standard characters in {CC-INFO} messages, is able to show these
	characters on the display.
TP/PT/CC/BV/CI-13	DPRS-N.24, Signalling of display characters
	EN 300 444 [5]: 8.16
	Initial state: T-10
	Verify that the IUT, on reception of < <multi_display>> information elements,</multi_display>
	containing control characters in {CC-INFO} messages, is able to understand and react
	upon these characters.
TP/PT/MM/BV/LO-01	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.4.1, EN 300 444 [5]: 8.28
	Initial state: T-00
	Verify that the IUT, if the a44 and a38 bits in the broadcast FT "higher layer capabilities"
	were set to "1", is capable to operate the basic location registration procedure after it
	performed the obtain access rights procedure. (FT does not perform TPUI assignment).
TP/PT/MM/BV/LO-02	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.4.1, EN 300 444 [5]: 8.28
	Initial state: T-00.
	Verify that the IUT, if the a44 and a38 bits in the broadcast FT "higher layer capabilities"
	were set to "1", is capable to operate the basic location registration procedure after it
	performed the obtain access rights procedure. (FT does perform TPUI assignment).
TP/PT/MM/BV/LO-03	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.4.1, EN 300 444 [5]: 8.28
	Initial state: T-00.
	Verify that the IUT, if the a44 bit in the broadcast FT "higher layer capabilities" was set
	to "1" but a38 is set to "0", does not initiate location registration procedure after it
	performed the obtain access rights procedure.
TP/PT/MM/BV/LO-04	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.4.1, EN 300 444 [5]: 8.28
	Initial state: T-00
	Verify that the IUT, if the a38 bit in the broadcast FT "higher layer capabilities" was set
	to "1" and if location area changes not during a CC-call, is able to operate location
	registration procedure. (FT does not perform TPUI assignment).
TP/PT/MM/BV/LO-05	DPRS-N.11, Location registration
,,	EN 300 175-5 [2]: 13.4.1, EN 300 444 [5]: 8.28
	Initial state: T-00.
	Verify that the IUT, if the a38 bit in the broadcast FT "higher layer capabilities" was set
	to "1", after power-off and power-on and after locking to the FT to which it has access
	rights, will initiate location registration procedure.
TP/PT/MM/BV/LO-06	DPRS-N.11, Location registration
11.7. 17.10.110.11.15.00	EN 300 175-5 [2]: 13.4.1, EN 300 444 [5]: 8.28
	Initial state: T-00
	Verify that the IUT, during a location registration procedure on receipt of a
	{LOCATE-ACCEPT} message specifying an unacceptable TPUI, will reject the
	assignment.
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TP/PT/MM/BV/LO-07	DPRS-N.11, Location registration EN 300 175-5 [2]: 13.4.1, EN 300 444 [5]: 8.28
	Initial state: T-00
	Verify that the IUT, entering a new location area, deletes the individual assigned TPUI, before performing the location registration procedure. This shall be done by verifying
	that the IUT does not return the deleted TPUI in the identity request procedure.
TP/PT/MM/BV/LO-08	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.7, EN 300 444 [5]: 8.29 Initial state: T-00
	Verify that the IUT, as Part of the parameter retrieval procedure on receipt of a location
	update request, will start location registration procedure within reasonable time, when in
	the broadcast attributes bit a38 was set to "1".
TP/PT/MM/BV/LO-09	DPRS-N.11, Location registration
	EN 300 175-5 [2]: 13.7, EN 300 444 [5]: 8.29
	Initial state: T-00
	Verify that the IUT, as Part of the parameter retrieval procedure on receipt of a location
	update request, will start location registration procedure within reasonable time, even
TD/DT/MM/DV//LO 50	when in the broadcast attributes bit a38 was set to "0".
TP/PT/MM/BV/LO-50	DPRS-N.35, Detach
	EN 300 824 [7]: 9.5 - 14.4 Initial state: T-00
	Verify that the IUT transmits a valid DETACH message to the LT upon power down
	when the LT is broadcasting a PARI which is not an ARI A.
TP/PT/MM/BV/LO-51	DPRS-N.35, Detach
	EN 300 824 [7]: 9.5, table 12 - 14.4
	Initial state: T-00
	The LT simulates 2 base stations(FP_1 and FP_2) with different RFPIs. 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.
TP/PT/MM/BV/LO-52	DPRS-N.36, Periodic location registration
	EN 300 824 [7]: 9.6, table 13 - 14.2 Initial state: T-00
	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</duration>
	LOCATE-ACCEPT message. "Defined time limit 1" is indicated by the LT.
TP/PT/MM/BV/LO-53	DPRS-N.36, Periodic location registration
	EN 300 824 [7]: 9.6, table 13 - 14.2
	Initial state: T-00
	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</duration>
	LOCATE-ACCEPT message. "Defined time limit 2" is indicated by the LT.
TP/PT/MM/BV/LO-54	DPRS-N.36, Periodic location registration
	EN 300 824 [7]: 9.6, table 13 - 14.2 Initial state: T-00
	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</duration>
	indicates "Infinite".
TP/PT/MM/BV/LO-55	DPRS-N.36, Periodic location registration
	EN 300 824 [7]: 9.6, table 13 - 14.2
	Initial state: T-00
	Verify that the IUT repeats the location procedure immediately after the expiry of the
	time period defined by the < <duration>> information element in the</duration>
	LOCATE-REJECT message. "Defined time limit 1" is indicated by the LT.
TP/PT/MM/BV/LO-56	DPRS-N.36, Periodic location registration
	EN 300 824 [7]: 9.6 - 14.2
	Initial state: T-00
	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</duration>
	user limit 1" is indicated by the LT.
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TP/PT/MM/BV/LO-57	DPRS-N.36, Periodic location registration EN 300 824 [7]: 9.6 - 14.2 Initial state: T-00 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.</duration>
TP/PT/MM/BV/LO-58	DPRS-N.36, Periodic location registration EN 300 824 [7]: 9.6 - 14.2 Initial state: T-00 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".</duration>
TP/PT/MM/BV/LO-59	DPRS-N.36, Periodic location registration EN 300 175-6 [3]: 6.3.1, EN 300 824 [7]: 9.6, table 13 Initial state: T-00 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".</duration>
TP/PT/MM/BV/LO-60	DPRS-N.36, Periodic location registration EN 300 824 [7]: 9.6, table 14 Initial state: T-00 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.
TP/PT/MM/TI-03 NOTE: The phrase "bit the IUT.	DPRS-N.11, Location registration EN 300 175-5 [2]: 13.2.2, EN 300 444 [5]: 8.28.2.2 Initial state: T-00 Verify that the IUT is capable of completing the Location Registration procedure at a point in time 10 % before expiry of the timer P- <mm_locate.1>. t a38 was set to 1" means: The bit a38 had the value of 1 during the time the PT locked to</mm_locate.1>

5.3.12 Access rights

DPRS-N.14, Service class		
indication/assignment		
	Obtaining access rights	EN 300 444 [5]: 8.30
	Authentication of PT	EN 300 444 [5]: 8.24
DPRS-N.18, Subscription registration user procedure on-air		
	Obtaining access rights	EN 300 444 [5]: 8.30
	Terminal capability indication	EN 301 649 [6]: 12.3
DPRS-N.37, On-air modification of user parameters		
	On-air modification of user parameters	EN 300 824 [7]: 9.8
	FT authentication	EN 300 444 [5]: 8.23
DPRS-N.20, Terminate access rights FT initiated		
	FT terminating access rights	EN 300 444 [5]: 8.31
	Authentication of FT	EN 300 444 [5]: 8.23

TP/PT/MM/BV/AR-01	DPRS-N.14, Service class indication/assignment
	EN 300 175-5 [2]: 13.5.1, EN 300 444 [5]: 8.30, figure 57
	Initial state: No access rights
	Verify that the IUT, after invocation, if the a44 bit in the broadcast FT "higher layer
	verify that the fort, after invocation, if the 444 bit in the broadcast FT. Higher layer
	capabilities" is set to "1" is able to perform the basic operation of the obtain access
	rights procedure.
	(PT has only Authentication Code (AC)).
TP/PT/MM/BV/AR-03	DPRS-N.14, Service class indication/assignment
11 /1 1/WW/BV/AR-03	
	EN 300 175-5 [2]: 13.5.1, EN 300 444 [5]: 8.30
	Initial state: T-00
	Verify that the IUT, after invocation, if the a44 bit in the broadcast FT "higher layer
	capabilities" is set to "0" does not initiate obtain access rights procedure after it has
	locked to the FT.
TD /DT /8 48 4/D) //A D . 0.5	
TP/PT/MM/BV/AR-05	DPRS-N.20, Terminate access rights FT initiated
	EN 300 175-5 [2]: 13.5.2, EN 300 444 [5]: 8.31, figure 58
	Initial state: T-00
	Verify that the IUT, is able to perform the basic operation of the FT initiated terminate
	access rights procedure.
	(IUT may or may not authenticate the FT before performing the procedure).
TP/PT/MM/BV/AR-06	DPRS-N.20, Terminate access rights FT initiated
	EN 300 175-5 [2]: 13.5.2, EN 300 444 [5]: 8.31.2.1, figure 59
	Initial state: T-00
	Verify that the IUT, if requested by the FT to terminate the access rights, will first try to
	authenticate the FT and if this procedure fails, rejects the access rights terminate
	procedure.
TP/PT/MM/BV/AR-09	DPRS-N.20, Terminate access rights FT initiated
TE/F I/WW/BV/AR-09	
	EN 300 175-5 [2]: 13.5.1, EN 300 444 [5]: 8.31, figure 58
	Initial state: T-00
	Verify that the IUT, on receipt of the {ACCESS-RIGHTS-ACCEPT} message containing
	the information element < <zap-field>>, will store this information.</zap-field>
TP/PT/MM/BV/AR-10	DPRS-N.20, Terminate access rights FT initiated
TE/F I/WW/DV/AR-10	
	EN 300 175-5 [2]: 13.5.1, EN 300 444 [5]: 8.31, figure 58
	Initial state: T-00
	Verify that the IUT, on receipt of the {ACCESS-RIGHTS-ACCEPT} message containing
	the information element < <service-class>>, will store this information.</service-class>
TP/PT/MM/BV/AR-50	
TE/F I/WIW/DV/AR-30	DPRS-N.37, On-air modification of user parameters
	EN 300 824 [7]: 9.8, table 18
	Initial state: T-00
	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.
TD/DT/MMA/D\//AD_E4	
TP/PT/MM/BV/AR-51	DPRS-N.37, On-air modification of user parameters
	EN 300 824 [7]: 9.8
	Initial state: T-00
	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.
TD/DT/MM/DV//AD 50	
TP/PT/MM/BV/AR-52	DPRS-N.37, On-air modification of user parameters
	EN 300 824 [7]: 9.8
	Initial state: T-00
	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.
TP/PT/MM/BV/AR-53	DPRS-N.37, On-air modification of user parameters
	EN 300 824 [7]: 9.8
	Initial state: T-00
	Verify that the IUT will not modify the current access rights parameters if the obtain
İ	Parches tights brockdure in response to access tights modify suggest tails due to no
1	access rights procedure in response to access rights modify suggest fails due to no
	answer from the LT(FT).
TP/PT/MM/TI-04	answer from the LT(FT).
TP/PT/MM/TI-04	answer from the LT(FT). DPRS-N.14, Service class indication/assignment
TP/PT/MM/TI-04	answer from the LT(FT). DPRS-N.14, Service class indication/assignment EN 300 175-5 [2]: 13.5.1, EN 300 444 [5]: 8.30.2.2
TP/PT/MM/TI-04	answer from the LT(FT). DPRS-N.14, Service class indication/assignment EN 300 175-5 [2]: 13.5.1, EN 300 444 [5]: 8.30.2.2 Initial state: T-00
TP/PT/MM/TI-04	answer from the LT(FT). DPRS-N.14, Service class indication/assignment EN 300 175-5 [2]: 13.5.1, EN 300 444 [5]: 8.30.2.2

5.3.13 On air key allocation

DPRS-N.12, On air key allocation		
	Key allocation	EN 300 444 [5]: 8.32

TP/PT/MM/BV/KA-01	DPRS-N.12, On air key allocation
11 /1 1/101101/BV/10A-01	, ,
	EN 300 175-5 [2]: 13.6, EN 300 444 [5]: 8.32
	Initial state: T-00
	Verify that the IUT is able to operate the basic key allocation procedure.
TP/PT/MM/BV/KA-02	DPRS-N.12, On air key allocation
	EN 300 175-5 [2]: 13.6, EN 300 444 [5]: 8.32.2.4, figure 63
	Initial state: T-00
	Verify that the IUT is able to send an {AUTH_REJECT} message as a response to the
	key allocation procedure when the < <allocation type="">> information element is not</allocation>
	acceptable.
TP/PT/MM/BV/KA-03	DPRS-N.12, On air key allocation
TP/P I/IVIIVI/BV/KA-US	
	EN 300 175-5 [2]: 13.6, EN 300 444 [5]: 8.32.2.5, figure 64
	Initial state: T-00
	Verify that after failure of the authentication of FT as Part of the key allocation
	procedure, the PT retains the AC and does not convert it into a User Authentication Key
	(UAK).
TP/PT/MM/TI-01	DPRS-N.12, On air key allocation
	EN 300 175-5 [2]: 13.3.3, EN 300 444 [5]: 8.32.2.2
	Initial state: T-00
	Verify that the IUT, when the timer P- <mm_auth.1> as Part of the key allocation</mm_auth.1>
	procedure expires after the defined time (±5 %), aborts the procedure and thus allows
	the same priority procedure identity request of PT to proceed.

5.3.14 Encryption

DPRS-N.17, Encryption activation FT initiated		
	Cipher-switching initiated by FT	EN 301 649 [6]: 12.12
	Storing the DCK	EN 301 649 [6]: 12.10
DPRS-N.27, Encryption activation PT initiated		
	Cipher-switching initiated by PT	EN 301 649 [6]: 12.13
	Storing the DCK	EN 301 649 [6]: 12.10
DPRS-N.28, Encryption deactivation FT initiated		
	Cipher-switching initiated by FT	EN 301 649 [6]: 12.12
DPRS-N.29, Encryption deactivation PT initiated		
	Cipher-switching initiated by PT	EN 301 649 [6]: 12.13

TP/PT/MM/BV/CH-01	DPRS-N.27, Encryption activation PT initiated
	EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.34
	Initial state: specified in PIXIT
	Verify that the IUT, being in clear mode, is able to operate the basic PT initiated
	cipher-switching procedure requesting "cipher-on".
TP/PT/MM/BV/CH-02	DPRS-N.29, Encryption deactivation PT initiated
	EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.34
	Initial state: specified in PIXIT
	Verify that the IUT, being in ciphered mode, is able to operate the basic PT initiated
	cipher-switching procedure requesting "cipher-off".
TP/PT/MM/BV/CH-03	DPRS-N.17, Encryption activation FT initiated
	EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.33
	Initial state: T-00
	Verify that the IUT, being in clear mode, is able to operate the basic FT initiated
	cipher-switching procedure requesting "cipher-on".
TP/PT/MM/BV/CH-04	DPRS-N.28, Encryption deactivation FT initiated
	EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.33
	Initial state: specified in PIXIT
	Verify that the IUT, being in ciphered mode, is able to operate the basic FT initiated
	cipher-switching procedure requesting "cipher-off".

TD/DT/MANA/DY//CLI CE	IDDDO NATE OF STREET
TP/PT/MM/BV/CH-05	DPRS-N.17, Encryption activation FT initiated
	EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.33
	Initial state: T-00
	Verify that the IUT, being in clear mode, on receipt of a {CIPHER-REQUEST} message
	containing unacceptable algorithm or key and requesting "cipher-on", will reject the
	request.
TP/PT/MM/BV/CH-09	DPRS-N.27, Encryption activation PT initiated
	EN 300 175-7 [4]: 6.4.7, EN 300 444 [5]: 10.15
	Initial state: specified in PIXIT
	Check that the IUT, for a duplex bearer, correctly initiates and completes an intercell
	bearer handover procedure using basic set-up when encryption is enabled (PT initiated
	cipher-switching).
TP/PT/MM/BV/CH-10	DPRS-N.27, Encryption activation PT initiated
	EN 300 175-7 [4]: 6.4.6, EN 300 444 [5]: 10.14
	Initial state: specified in PIXIT
	Check that the IUT, for a duplex bearer, correctly initiates and completes an intracell
	bearer handover procedure using basic set-up when encryption is enabled (PT initiated
	cipher-switching).
TP/PT/MM/BV/CH-11	DPRS-N.29, Encryption deactivation PT initiated
TI /I I/WW/BV/CIT-II	EN 300 175-7 [4]: 6.4.6, EN 300 444 [5]: 10.14
	Initial state: specified in PIXIT
	Check that the IUT releases the basic Connection when it cannot conclude the
TD/DT/NANA/DV//OLL 40	procedure to switch from encrypt mode to clear mode (PT initiated cipher off procedure).
TP/PT/MM/BV/CH-12	DPRS-N.17, Encryption activation FT initiated
	EN 300 175-7 [4]: 6.4.6, EN 300 444 [5]: 10.14
	Initial state: T-00
	Check that the IUT releases the basic Connection when it cannot conclude the
	procedure to switch from clear mode to encrypt mode (FT initiated cipher-switching).
TP/PT/MM/BV/CH-13	DPRS-N.17, Encryption activation FT initiated
	EN 300 175-7 [4]: 6.4.6, EN 300 444 [5]: 10.14
	Initial state: T-00
	Check that the IUT, for a duplex bearer, correctly initiates and completes an intercell
	bearer handover procedure using basic set-up when encryption is enabled (FT initiated
	cipher-switching).
TP/PT/MM/BV/CH-14	DPRS-N.17, Encryption activation FT initiated
	EN 300 175-7 [4]: 6.4.7, EN 300 444 [5]: 10.15
	Initial state: T-00
	Check that the IUT, for a duplex bearer, correctly initiates and completes an intracell
	bearer handover procedure using basic set-up when encryption is enabled (FT initiated
	cipher-switching).
TP/PT/MM/BV/CH-15	DPRS-N.28, Encryption deactivation FT initiated
	EN 300 175-7 [4]: 6.4.6, EN 300 444 [5]: 10.14
	Initial state: specified in PIXIT
	Check that the IUT releases the basic Connection when it cannot conclude the
	procedure to switch from encrypt mode to clear mode (FT initiated cipher off procedure).
TP/PT/MM/BV/CH-data01	DPRS-N.17, Encryption activation FT initiated
11 /1 1/191191/DV/OI 1-GataOI	EN 301 649 [6]: 12.12
	Initial state: F-00
	Verify that the IUT, that does not support ciphering, rejects a cipher switching request
	from the PT when a {CIPHER-REQUEST} message has been received, by sending
TD/DT/MANA/TL OF	immediately a {CIPHER-REJECT} message.
TP/PT/MM/TI-05	DPRS-N.27, Encryption activation PT initiated
	EN 300 175-5 [2]: 13.8, EN 300 444 [5]: 8.34.2.2
	Initial state: T-00
	Verify that the IUT is capable of completing the PT Initiated Ciphering procedure at a
	point in time 10 % before expiry of the timer P- <mm_cipher.2>.</mm_cipher.2>

5.3.15 DECT External handover

DPRS-N.33, DECT External handover		
	Handover candidate indication	EN 300 824 [7]: 9.1.1.1
	Handover candidate retrieval	EN 300 824 [7]: 9.1.12
	Target FP selection	EN 300 824 [7]: 9.1.2
	Handover reference indication	EN 300 824 [7]: 9.1.3.1
	Handover reference retrieval	EN 300 824 [7]: 9.1.3.2
	External handover call setup	EN 300 824 [7]: 9.1.4
	Ciphering procedure PT initiated	EN 300 824 [7]: 9.1.5.1
	Ciphering procedure FT initiated	EN 300 824 [7]: 9.1.5.2
	U-plane handling	EN 301 649 [6]: 12.21

TP/PT/CC/BV/HP-50 DPRS-N.33, DECT External handover EN 300 624 [7]: 9.11.1 Initial state: T-00 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. hfo indicators-> and <-network parameter>- information elements in a CC-SETUP-ACK message during establishment of the outgoing call. TP/PT/CC/BV/HP-51 DPRS-N.33, DECT External handover EN 300 624 [7]: 9.1.1.1 Initial state: T-00 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. hfo indicators-> and <-network parameters- information elements in a CC-INFO message during establishment of the outgoing call. DPRS-N.33, DECT External handover EN 300 624 [7]: 9.1.1.1 Initial state: T-00 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 <p> ⟨Ext. hfo indicators-> and <-network parameters- information elements in a CC-INFO message and centework parameters- information elements in a CC-INFO message during establishment of the outgoing call. TP/PT/CC/BV/HP-53 EN 300 624 [7]: 9.1.1.1 Initial state: T-00 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 <p> ⟨Ext. hfo indicators-> and <-network parameters- information elements in a CC-SETUP message during establishment of the incoming call. TP/PT/CC/BV/HP-54 OPRS-N.33, DECT External handover EN 300 624 [7]: 9.1.1.1 Initial state: T-00 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 <p> <<p> <ext. hfo="" indicators-=""> and <-network parameters- information elements in a CC-INFO message during establishment of the incoming call. TP/PT/CC/BV/HP-55 OPRS-N.33, DECT External handover En incoming cal</ext.></p></p></p></p>		
Initial state: T-00 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 <a="" and="" href="Active Information learners" indicators)="" no="">Active Information learners information elements in a CC-SETUP-ACK message during establishment of the outgoing call. TP/PT/CC/BV/HP-51 DPRS-N-33, DECT External handover EN 300 824 [7]: 9.1.1.1 Initial state: T-00 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 <a="" and="" href="Active Information" indicators)="" no="">Act No Information elements in a CC-INFO message during establishment of the outgoing call.">Act No Indicators > and Active Information elements in a CC-INFO message during establishment of the outgoing call.">Active Information elements in a CC-INFO message during establishment of the outgoing call. TP/PT/CC/BV/HP-63 DPRS-N-33, DECT External handover EN 300 824 [7]: 9.1.1.1 Initial state: T-00 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 <a="" and="" href="Active Information" indicators)="" no="">Active Information elements in a CC-CONNECT message during establishment of the outgoing call.">Active Information elements in a CC-SETUP message during establishment of the incoming call. TP/PT/CC/BV/HP-64 DPRS-N-33, DECT External handover EN 300 824 [7]: 9.1.1.1 Initial state: T-00 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 No indicators and Active Ext No indicators and Active Ext No indicators and Active Ext No indicators and Setup in internal handover call setup procedure. The</ext></ext></ext>	TP/PT/CC/BV/HP-50	
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		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</mm_info.1>
external handover call setup procedure.		external handover call setup procedure.

TP/PT/CC/BV/HP-59	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.4, table 8
	Initial state: T-10
	Verify that the IUT is able to perform the external handover call setup procedure and
	successfully establishes the U-plane on the new connection.
TP/PT/CC/BV/HP-60	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.4.2.1
	Initial state: T-10
	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.
TP/PT/CC/BV/HP-61	DPRS-N.33, DECT External handover
	EN 300 175-5 [2]: 15.7.4.5, EN 300 824 [7]: 9.1.4
	Initial state: T-10
	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</release>
	expires.
TP/PT/CC/BV/HP-62	DPRS-N.33, DECT External handover
11/1 1/00/67/11 -02	EN 300 824 [7]: 9.1.4.2.2
	Initial state: T-10
	Verify that, after handover has been accepted and the user releases the call, call
TP/PT/CC/BV/HP-63	release procedure as defined in EN 300 444 [5]: 8.7 is used with regard to FP-2.
1P/P1/CC/BV/HP-63	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.4.2.2
	Initial state: T-10
	Verify that, after handover has been accepted and the network releases the call, call
	release procedure as defined in EN 300 444 [5]: 8.7 is used with regard to FP-2.
TP/PT/CC/BV/HP-64	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.4.2.3
	Initial state: T-10
	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.
TP/PT/CC/BV/HP-65	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.5.1
	Initial state: T-10
	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.
TP/PT/CC/BV/HP-66	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.5.2
	Initial state: T-10
	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.
TP/PT/CC/BV/HP-67	DPRS-N.33, DECT External handover
	EN 300 175-5 [2]: 15.7.6, EN 300 824 [7]: 9.1.5.1
	Initial state: T-10
	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.
TP/PT/CC/BV/HP-68	DPRS-N.33, DECT External handover
	EN 300 175-5 [2]: 15.7.6, EN 300 824 [7]: 9.1.5.2
	IEIN 300 173-3 [2], 13,7,0, EIN 300 024 171, 9.1.3.2
	Initial state: T-10
	Initial state: T-10 Verify that after performing the external handover call setup procedure, and initiating the
	Initial state: T-10 Verify that after performing the external handover call setup procedure, and initiating the FT initiated ciphering procedure on the new connection, the IUT releases the link on
TD/DT/CC/B\//HD_60	Initial state: T-10 Verify that after performing the external handover call setup procedure, and initiating the FT initiated ciphering procedure on the new connection, the IUT releases the link on FP-2 if FT initiated ciphering fails.
TP/PT/CC/BV/HP-69	Initial state: T-10 Verify that after performing the external handover call setup procedure, and initiating the FT initiated ciphering procedure on the new connection, the IUT releases the link on FP-2 if FT initiated ciphering fails. DPRS-N.33, DECT External handover
TP/PT/CC/BV/HP-69	Initial state: T-10 Verify that after performing the external handover call setup procedure, and initiating the FT initiated ciphering procedure on the new connection, the IUT releases the link on FP-2 if FT initiated ciphering fails. DPRS-N.33, DECT External handover EN 300 824 [7]: 14.2
TP/PT/CC/BV/HP-69	Initial state: T-10 Verify that after performing the external handover call setup procedure, and initiating the FT initiated ciphering procedure on the new connection, the IUT releases the link on FP-2 if FT initiated ciphering fails. DPRS-N.33, DECT External handover EN 300 824 [7]: 14.2 Initial state: T-10
TP/PT/CC/BV/HP-69	Initial state: T-10 Verify that after performing the external handover call setup procedure, and initiating the FT initiated ciphering procedure on the new connection, the IUT releases the link on FP-2 if FT initiated ciphering fails. DPRS-N.33, DECT External handover EN 300 824 [7]: 14.2 Initial state: T-10 Verify that after performing the external handover call setup procedure to an FP in a
TP/PT/CC/BV/HP-69	Initial state: T-10 Verify that after performing the external handover call setup procedure, and initiating the FT initiated ciphering procedure on the new connection, the IUT releases the link on FP-2 if FT initiated ciphering fails. DPRS-N.33, DECT External handover EN 300 824 [7]: 14.2 Initial state: T-10 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
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TP/PT/CC/BV/HP-69 TP/PT/CC/BV/HP-70	Initial state: T-10 Verify that after performing the external handover call setup procedure, and initiating the FT initiated ciphering procedure on the new connection, the IUT releases the link on FP-2 if FT initiated ciphering fails. DPRS-N.33, DECT External handover EN 300 824 [7]: 14.2 Initial state: T-10 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. DPRS-N.33, DECT External handover
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TD/DT/CC/D\//UD 74	DDDC N 22 DECT External bondons
TP/PT/CC/BV/HP-71	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.1.1, table 7 - 9.1.4
	Initial state: T-00
	Verify the IUT is able to perform the external handover call setup procedure if the
	< <ext h="" indicator="" o="">> information element provided during call setup indicated</ext>
	multiframe, multiframe number and PSCN synchronization in the SYNC field.
TP/PT/CC/BV/HP-72	DPRS-N.33, DECT External handover
	EN 300 824 [7]: 9.1.1.1, table 7 - 9.1.4
	Initial state: T-00
	Verify the IUT is able to perform the external handover call setup procedure if the
	< <ext h="" indicator="" o="">> information element provided during call setup indicated</ext>
	multiframe and PSCN synchronization in the SYNC field.
TP/PT/CC/BV/HP-73	DPRS-N.33, DECT External handover)
	EN 300 824 [7]: 9.1.1.1, table 7 - 9.1.4
	Initial state: T-00
	For those IUTs that support the feature, verify the IUT is able to perform the external
	handover call setup procedure if the < <ext h="" indicator="" o="">> information element provided</ext>
	during call setup indicated multiframe synchronization in the SYNC field.
TP/PT/CC/BV/HP-74	DPRS-N.33, DECT External handover)
	EN 300 824 [7]: 9.1.1.1, table 7 - 9.1.4
	Initial state: T-00
	For those IUTs that support the feature, verify the IUT is able to perform the external
	handover call setup procedure if the < <ext h="" indicator="" o="">> information element provided</ext>
	during call setup indicated no synchronization in the SYNC field.
TP/PT/CC/BV/HP-75	DPRS-N.33, DECT External handover
1171 1700/207111 70	EN 300 824 [7]: 14.5
	Initial state: T-10
	Verify that after performing a successful external handover call setup procedure, the IUT
	will not attempt to perform another external handover call setup until timer N500 has
	expired.
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5.3.16 Link control

DPRS-N.19, Link control		
	Indirect FT initiated link establishment	EN 301 649 [6]: 12.15,
		EN 300 444 [5]: 8.35
	Fast Paging	EN 301 649 [6]: 12.16
	Collective and group ringing	EN 301 649 [6]: 12.17
	Direct FT initiated link establishment	EN 301 649 [6]: 12.18
	Direct PT initiated link establishment	EN 300 444 [5]: 8.36
	Link release "normal"	EN 300 444 [5]: 8.37
	Link release "abnormal"	EN 300 444 [5]: 8.38
	Link release "maintain"	EN 300 444 [5]: 8.39
	Resume Paging	EN 301 649 [6]: 12.19

TP/PT/LC/BV/LE-01	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.2, EN 300 444 [5]: 8.36
	Initial state: T-00
	Verify that the IUT, when no link to the FT exists, on receipt of a higher layer message is
	able to operate a direct link establishment procedure.
TP/PT/LC/BV/LE-02	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.3, EN 300 444 [5]: 8.35
	Initial state: T-00
	Verify that the IUT is able to respond to indirect (normal paged) FT-initiated link
	establishment request which uses a short address request paging and contains correct
	identity.
TP/PT/LC/BV/LE-data01	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.1 - 14.2.3, EN 300 444 [5]: 8.35, figure 69
	Initial state: T-00
	Verify that the IUT is able to respond to indirect (fast paged) FT-initiated link
	establishment request which uses a short address request paging and contains correct
	identity.
TP/PT/LC/BV/LE-data02	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.1 - 14.2.3, EN 300 444 [5]: 8.35, figure 69
	Initial state: T-00
	Verify that the IUT is able to respond to direct FT-initiated link establishment request
	which uses a short address request paging and contains correct identity.
TP/PT/LC/BV/LE-data03	DPRS-N.19, Link control
	EN 301 649 [6]: 12.17
	Initial state: T-00
	Verify that the IUT is able correctly to handle group ringing and can establish a call when
	the User responses to the ringing.
TP/PT/LC/BV/LE-data04	DPRS-N.19, Link control
	EN 301 649 [6]: 12.17
	Initial state: T-00
	Verify that the IUT is able correctly to handle the collective ringing and can establish a call
TD/DT// 0//D//// D 04	when the User responses to the ringing.
TP/PT/LC/BV/LR-01	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.7, EN 300 444 [5]: 8.39
	Initial state: T-00
	Verify that the IUT is able to perform a normal release after a MM procedure has been
TD/DT/L O/DV/L D. 00	accomplished, and no other entities are using the link.
TP/PT/LC/BV/LR-02	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.7, EN 300 444 [5]: 8.39
	Initial state: T-07
	Verify that the IUT is able to perform a normal release after a CC-procedure has been
TD/DT/L C/D\//L D. 00	accomplished, and no other entities are using the link.
TP/PT/LC/BV/LR-03	DPRS-N.19, Link control
	EN 300 175-5 [2]: 14.2.7, EN 300 444 [5]: 8.39 Initial state: T-07
	Verify that the IUT, after a CC-requested partial release has been agreed, is able to
	maintain the link for a specified time, and no other entities are using the link.
TD/DT/LC/TL02	DPRS-N.19, Link control
TP/PT/LC/TI-02	
	EN 300 175-5 [2]: 14.2.7, EN 300 444 [5]: 8.39 Initial state: T-00
	Verify that the IUT, after termination of an MM procedure, maintains the link for a period of
	Verify that the 101, after termination of an initial procedure, maintains the link for a period of <lce.02>. The link shall be released in the period (<lce_02> - 1 000) to 10 500 ms.</lce_02></lce.02>

5.3.17 Message Waiting Indication

DPRS-N.34, Message Waiting Indication		
	Message waiting indication	EN 300 824 [7]: 9.7

TP/PT/IS/BV-50	DPRS-N.34, Message Waiting Indication
	EN 300 824 [7]: 9.7 - 9.7.1, table 16
	Initial state: T-00
	Verify that the IUT as Part of a Message waiting indication procedure, on reception of a
	{FACILITY} message containing a < <facility>> information element specifying</facility>
	"numberOfMessages" equal to 127 and 'basicService' equal to "speech (1)" provides a
	suitable indication to the user that a speech message is waiting.
TP/PT/IS/BV-51	DPRS-N.34, Message Waiting Indication
1171 1710/20 31	EN 300 824 [7]: 9.7 - 9.7.1, table 16
	Initial state: T-00
	Verify that the IUT as Part of a Message waiting indication procedure, on reception of a
	{FACILITY} message containing a < <facility>> information element specifying</facility>
	"numberOfMessages" equal to 127 and 'basicService' equal to "teletex (33)" provides a
TD /DT // 0 /D) / 50	suitable indication to the user that a teletex message is waiting.
TP/PT/IS/BV-52	DPRS-N.34, Message Waiting Indication
	EN 300 824 [7]: 9.7 - 9.7.1, table 16
	Initial state: T-00
	Verify that the IUT as Part of a Message waiting indication procedure, on reception of a
	{FACILITY} message containing a < <facility>> information element specifying</facility>
	"numberOfMessages" equal to 127 and 'basicService' equal to "allServices (0)" provides
	a suitable indication to the user that a message is waiting.
TP/PT/IS/BV-53	DPRS-N.34, Message Waiting Indication
	EN 300 824 [7]: 9.7 - 14.9
	Initial state: T-00
	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.
TP/PT/IS/BV-54	DPRS-N.34, Message Waiting Indication
1171 1710/67 34	EN 300 824 [7]: 9.7 - 14.9
	Initial state: T-00
	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
TD/DT/10/D\/ FF	containing MWIIndicate for each basic service specifying a zero numberOfMessages.
TP/PT/IS/BV-55	DPRS-N.34, Message Waiting Indication
	EN 300 824 [7]: 9.7 - 14.9
	Initial state: T-00
	Verify that the IUT, after receiving the following sequence of FACILITY messages
	maintains the message waiting indication for unknown messages:
	Message 1: MWIIndicate{basicService = unknown,numberOfMessages = 1}
	Message 2: MWIIndicate{basicService = speech,numberOfMessages = 1}
	Message 3: MWIIndicate{basicService = speech,numberOfMessages = 0}.
TP/PT/IS/BV-56	DPRS-N.34, Message Waiting Indication
	EN 300 824 [7]: 14.9
	Initial state: T-00
	Verify that the IUT will delete the Message waiting information upon changing of
	subscription (the active IPUI/PARK pair).
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5.3.18 Distributed communication

DPRS-A.1 Distributed communication		
	HyP (Distributed Communication)	EN 301 649 [6]: annex E

TP/PT/MM/BV/ID-data01	DPRS-A.1 Distributed communication
	EN 300 175-5 [2]: 14.4
	Initial state: T-00
	Verify that the IUT on receipt of a {TEMPORARY-IDENTITY-ASSIGN-REQ} message
	assigning a CL TPUI accepts the assignment.
TP/PT/CL/BV-01	DPRS-A.1 Distributed communication
	EN 300 175-5 [2]: 12.3.1
	Initial state: T-00
	Test the IUT's capability of processing a CLMS-FIXED message sent by the FT.
TP/PT/CL/BV-02	DPRS-A.1 Distributed communication
	EN 300 175-5 [2]: 14.2.1 - 14.2.3
	Initial state: T-00
	Test the IUT's capability to send a CLMS-VARIABLE.
TP/PT/CL/BV-03	DPRS-A.1 Distributed communication
	EN 300 175-5 [2]:2.1 - 14.2.3
	Initial state: T-00
	Test the IUT's capability to process a CLMS-VARIABLE message.

5.3.19 MAC Suspend/Resume

DPRS MAC Suspend/Resume		
	MAC Suspend	EN 301 649 [6]: 10.7.3
	MAC Resume	EN 301 649 [6]: 10.7.4

EN 301 649 [6]: 10.7.3, 10.7.4	
Initial state: T-00	
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure whe	
the FT has previously initiated the suspension and now initiates the resumption with	
normal paging.	
EN 301 649 [6]: 10.7.3, 10.7.4	
Initial state: T-00	
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure when	
the FT has previously initiated the suspension and now initiates the resumption with fast	
paging. IUT need to be put in state that it can handle fast paging.	
EN 301 649 [6]: 10.7.3, 10.7.4	
Initial state: T-00	
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure when	
the FT has previously initiated the suspension and now initiates the resumption with fast	
setup. IUT need to be put in state that it can handle fast setup.	
EN 301 649 [6]: 10.7.3, 10.7.4	
Initial state: T-00	
Verify that the IUT is able to handle correctly at NWK layer the MAC suspend/resume	
procedure when the PT has previously initiated the suspension and the FT initiates the	
resumption with normal paging.	
EN 301 649 [6]: 10.7.3, 10.7.4	
Initial state: T-00	
Verify that the IUT is able to handle correctly at NWK layer the MAC suspend/resume	
procedure when the PT has previously initiated the suspension and now the FT initiates	
the resumption with fast paging. IUT need to be put in state that it can handle fast	
paging.	
EN 301 649 [6]: 10.7.3, 10.7.4	
Initial state: T-00	
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure when	
the PT has previously initiated the suspension and now the FT initiates the resumption	
with fast setup. IUT need to be put in state that it can handle fast setup.	
EN 301 649 [6]: 10.7.3, 10.7.4	
Initial state: T-00	
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure when	
the PT has previously initiated the suspension and now the PT initiates the resumption.	
EN 301 649 [6]: 10.7.3, 10.7.4	
Initial state: T-00	
Verify that the IUT is able to handle correctly the MAC suspend/resume procedure when	
the FT has previously initiated the suspension and now the PT initiates the resumption.	

Bibliography

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

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

ETSI EN 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common interface; Part 2: Physical layer".

ETSI EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common interface; Part 4: Data link control layer".

ETSI EN 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common interface; Part 8: Speech coding and transmission".

ETSI EN 300 435: "Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Base standard including interworking to connectionless networks (service types A and B, class 1)".

ETSI EN 300 651: "Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Generic data link service (service type C, class 2)".

ETSI ETS 300 699: "Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Generic data link service for closed user groups (service type C, class 1)".

ETSI EN 300 701: "Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Generic frame relay service with mobility (service types A and B, class 2)".

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ETSI ETS 300 757: "Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Low rate messaging service (service type E, class 2)".

ETSI EN 301 240: "Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Point-to-Point Protocol (PPP) interworking for internet access and general multi-protocol datagram transport".

History

		Document history	
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