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Part 8: Test Suite Structure (TSS) and Test Purposes (TP)
Network (NWK) layer - Fixed radio Termination (FT)

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - Internet: secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

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Foreword

This final draft European Telecommunication Standard (ETS) has been produced by the Radio Equipment and Systems (RES) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Voting phase of the ETSI standards approval procedure.

The DECT Test Specification multipart ETS comprises nine parts, as follows:

Part 1: Test Suite Structure (TSS) and Test Purposes (TP) for Medium Access

Control (MAC) layer".

Part 2: "Part 2: Abstract Test Suite (ATS) for Medium Access Control (MAC) layer -

Portable radio Termination (PT)".

Part 3: "Part 3: Abstract Test Suite (ATS) for Medium Access Control (MAC) layer -

Fixed radio Termination (FT)".

Part 4: Test Suite Structure (TSS) and Test Purposes (TP) - Data Link Control

(DLC) layer".

Part 5: "Part 5: Abstract Test Suite (ATS) - Data Link Control (DLC) layer".

Part 6: "Part 6: Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK)

layer - Portable radio Termination (PT)".

Part 7: "Part 7: Abstract Test Suite (ATS) for Network (NWK) layer - Portable radio

Termination (PT)".

Part 8: "Part 8: Test Suite Structure (TSS) and Test Purposes (TP) - Network

(NWK) layer - Fixed radio Termination (FT)".

Part 9: "Part 9: Abstract Test Suite (ATS) for Network (NWK) layer - Fixed radio

Termination (FT)".

Proposed transposition dates

Date of latest announcement of this ETS (doa): 3 months after ETSI publication

Date of latest publication of new National Standard

or endorsement of this ETS (dop/e): 6 months after doa

Date of withdrawal of any conflicting National Standard (dow): 6 months after doa

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1 Scope

This final draft European Telecommunication Standard (ETS) contains the test specification for the Digital Enhanced Cordless Telecommunications (DECT) (ETS 300 175 [1] to [8]).

The objective of this test specification is to provide a basis for approval tests for DECT equipment giving a high probability of air interface inter-operability between different manufacturer's DECT equipment. This test specification defines the Test Suite Structure (TSS) and Test Purposes (TP) for testing of the Network (NWK) layer at the Fixed radio Termination (FT).

The ISO standard for the methodology of conformance testing (ISO/IEC 9646-1 [21]) as well as the ETSI rules for conformance testing (ETS 300 406 [29]) are used as a basis for the test methodology.

Test specifications for the Physical Layer (PHL) are provided in other DECT standards.

2 Normative references

This ETS incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1]	ETS 300 175-1 (1992): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common interface; Part 1: Overview".
[2]	ETS 300 175-2 (1992): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common interface; Part 2: Physical layer".
[3]	ETS 300 175-3 (1992): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common interface; Part 3: Medium access control layer".
[4]	ETS 300 175-4 (1992): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common interface; Part 4: Data link control layer".
[5]	ETS 300 175-5 (1992): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common interface; Part 5: Network layer".
[6]	ETS 300 175-6 (1992): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common interface; Part 6: Identities and addressing".
[7]	ETS 300 175-7 (1992): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common interface; Part 7: Security features".
[8]	ETS 300 175-8 (1992): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common interface; Part 8: Speech coding and transmission".
[9]	ETS 300 175-9 (1992): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common interface; Part 9: Public

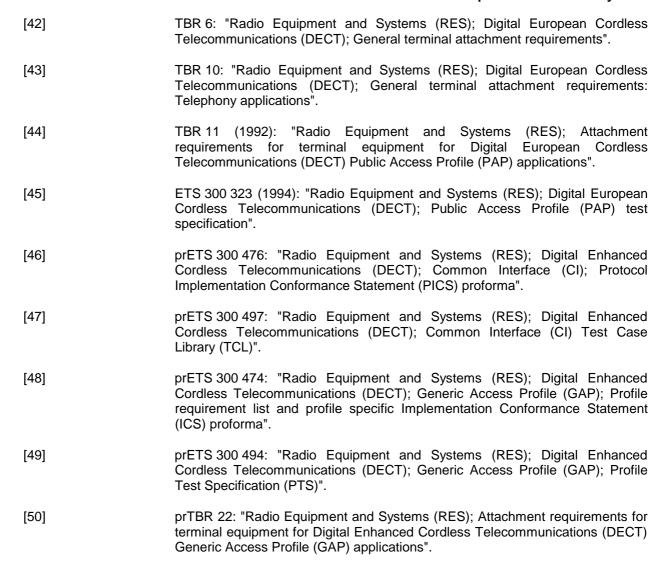
ETS 300 444: "Radio Equipment and Systems (RES); Digital European

Cordless Telecommunications (DECT); Generic Access Profile (GAP)".

access profile".

[10]

[11]	ETS 300 370: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications/Global System for Mobile communications (DECT/GSM) inter-working profile; Access and mapping (Protocol/procedure description for 3,1 kHz speech service)".
[12]	prETS 300 434: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) and Integrated Services Digital Network (ISDN) inter-working for end system configuration".
[13]	ETS 300 331: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); DECT Authentication Module (DAM)".
[14]	CCITT Recommendation G.726 (1991): "40, 32, 24, 16 kbit/s adaptive differential pulse code modulation (ADPCM)".
[1520]	Reserved values
[21]	ISO/IEC 9646-1 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts". (See also CCITT Recommendation X.290 (1991)).
[22]	ISO/IEC 9646-2 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification". (See also CCITT Recommendation X.291 (1991)).
[23]	ISO/IEC 9646-3 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The tree and tabular combined notation". (See also CCITT Recommendation X.292 (1992)).
[24]	ISO/IEC 9646-4 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 4: Test realisation". (See also CCITT Recommendation X.292 (1992)).
[25]	ISO/IEC 9646-5 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 5: Requirements on test laboratories and clients for the conformance assessment process". (See also CCITT Recommendation X.292 (1992)).
[26]	ISO/IEC 9646-6 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 6: Protocol profile test specification".
[27]	ISO/IEC 9646-7 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation conformance statement".
[28]	ISO 7498: "Information Processing Systems - Open Systems Interconnection - Basic Reference model".
[29]	ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
[30]	91/263/EEC: "Council Directive of 29 April 1991 on the approximation of the laws of the Member states concerning telecommunications terminal equipment, including the mutual recognition of their conformity. (Terminal Directive)".
[3140]	Reserved values
[41]	I-ETS 300 176: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Approval test specification".



3 Definitions, symbols and abbreviations

3.1 DECT definitions

For the purposes of this ETS, the definitions given in ISO/IEC 9646-1 [21], ISO/IEC 9646-2 [22], ETS 300 175-1 [1], ETS 300 175-5 [5], ETS 300 175-6 [6] and ETS 300 175-7 [7] apply.

3.2 DECT abbreviations

For the purposes of this ETS the NWK layer abbreviations defined in ETS 300 175-5 [5] and the following abbreviations apply:

AC Authentication Code
AR Access Rights
AU Authentication
CA Capability
CC Call Control

CCSM Call Control State Machine

CI Call Information
CP Ciphering
CR Call Release

CTS Conformance Testing Services

DECT Digital Enhanced Cordless Telecommunication

DLC Data Link Control layer

ETSI European Telecommunications Standards Institute

FT Fixed radio termination
GAP Generic Access Profile

IC Incoming Call ID Identification

IPUI International Portable User Identity
IPEI International Portable Equipment Identity

KA Key Allocation LC Link Control entity

LE Connection oriented Link Establishment

LL ConnectionLess Link control

LO Location

LR Connection oriented Link Release

LS Connection oriented Link Suspend and resume

MAC Medium Access Control layer

ME Management Entity

ML Connectionless Message Services

MM Mobility Management

MO Connection Oriented Message Services

NWK Network layer OC Outgoing Call

PAP Public Access Profile
PARK Portable Access Rights Key

PM Packet Mode
PR Parameter Retrieval
PT Portable radio termination
RPN Radio Fixed Part Number

RS Call Related Supplementary Services

SC Service Change

UAK User Authentication Key

3.3 ISO 9646 definitions

For the purposes of this ETS the following ISO 9646 definitions apply:

Implementation Under Test (IUT) System Under Test (SUT)

Abstract Test Suite (ATS)

Point of Control and Observation (PCO)

Protocol Implementation Conformance Statement (PICS)
Protocol Implementation eXtra Information for Testing (PIXIT)

Lower Tester (LT) Upper Tester (UT)

3.4 ISO 9646 abbreviations

For the purposes of this ETS the following ISO 9649 abbreviations apply:

ATS Abstract Test Suite
ASP Abstract Service Primitive

BI Invalid Behaviour
BO InOpportune Behaviour
BV Valid Behaviour
CA Capability tests

ETS European Telecommunication Standard
ISO International Organisation for Standardisation

IUT Implementation Under Test

IWUInterWorking UnitLTLower TesterPDUProtocol Data UnitPHLPhysical Layer

PICS Protocol Implementation Conformance Statements
PIXIT Protocol Implementation eXtra Information for Testing

SUT System Under Test
TP Test Purpose
TSS Test Suite Structure

TTCN Tree and Tabular Combined Notation

UT Upper Tester

4 Test Suite Structure (TSS)

4.1 TSS overview

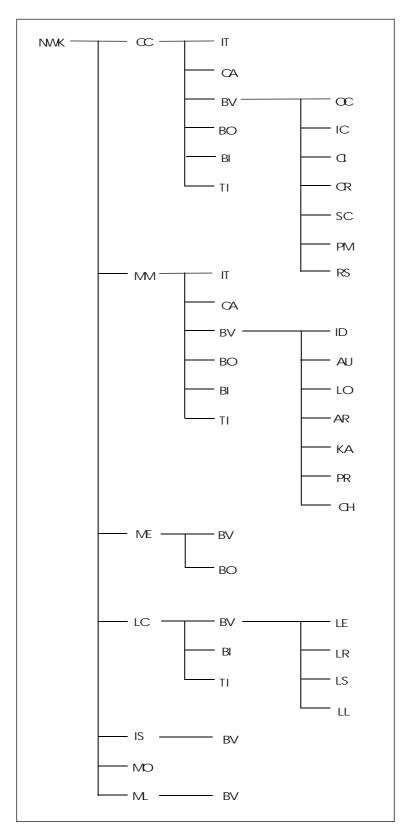


Figure 1: TSS

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4.2 Test groups

4.2.1 Protocol groups

4.2.1.1 Call Control (CC)

Ref.: ETS 300 175-5 [5], subclause 5.2 and clause 9

4.2.1.2 Mobility Management (MM)

Ref.: ETS 300 175-5 [5], subclause 5.6 and clause 13.

4.2.1.3 Lower Layer Management Entity (LLME)

Ref.: ETS 300 175-5 [5], clause 15.

4.2.1.4 Link Control (LC)

Ref.: ETS 300 175-5 [5], subclause 5.7 and clause 14.

4.2.1.5 Call Independent Supplementary Services (CISS)

Ref.: ETS 300 175-5 [5], subclauses 5.3 and 10.4.2.2.

4.2.1.6 Connection Oriented Message Services (COMS)

Ref.: ETS 300 175-5 [5], subclause 5.4 and clause 11.

4.2.1.7 Connectionless Message Services (CLMS)

Ref.: ETS 300 175-5 [5], subclause 5.5 and clause 12.

4.2.2 Main test groups

4.2.2.1 Basic InTerconnection tests (IT)

IT tests provide limited testing of an 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.

4.2.2.2 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 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. Scope of the test group is the observable capabilities of the IUT with respect to NWK layer connection, call control, and the mobility management.

4.2.2.3 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.

4.2.2.4 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 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.

4.2.2.5 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.

4.2.2.6 Timer 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 (TPs)

Each test case is allocated directly under a defined TP.

5.1 Introduction

5.1.1 TP definition conventions

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

Table 1: TP definition rules

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

5.1.2 References

This subclause defines the use of references given in the TPs. The structure provides the interrelationship with:

- the source ETS giving the clause/subclause reference;
- the profile ETS giving the clause/subclause reference; and
- the cross reference to the output of the CTS 5 project (see bibliography).

5.1.3 TP naming conventions

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

Figure 2: TP naming convention

TP/ <rt>/<fm>/<x>/<s>/<nn></nn></s></x></fm></rt>		
117 3127 311127 3727 3027 31112		
<rt> = type of radio termination</rt>	PT	Portable radio Termination
<fm> = functional module</fm>	СС	Call Control
	MM	Mobility Management
	ME	Lower Layer Management Entity
	LC	Link Control Entity
	IS	Call Independent Supplementary Services
	MO	Connection Oriented Message Service
	ML	Connectionless Message Service
x = Type of testing	IT	Basic Interconnection Tests
_	CA	Capability Tests
	BV	Valid Behaviour Tests
	во	Inopportune Behaviour Tests
	BI	Invalid Behaviour Tests
	TI	Timer expiry and counter mismatch tests
s = test subgroup	ОС	Outgoing Call establishment
	IC	Incoming Call establishment
	CI	Call Information
	CR	Call Release
	SC	Service Change
	PM	Packet Mode
	RS	Call Related Supplementary services
	ID	Identification
	AU	Authentication
	LO	Location
	AR	Access Rights
	KA	Key Allocation
	PR	Parameter Retrieval
	СН	Ciphering
	LE	Connection oriented Link Establishment
	LR	Connection oriented Link Release
	LS	Connection oriented Link Suspend and resume
	LL	ConnectionLess Link Control
<nn> = sequential number</nn>	(01-99)	Test Purpose Number

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5.2 CC

Test group objectives:

To check the behaviour of the CC module of the IUT.

Subgroups:

- IT;
- CÁ;
- BV;
- BO;
- BI;
- TI.

5.2.1 CC/IT

TP/PT/CC/BV/OC-01.

5.2.2 CC/CA

- TP/PT/CC/BV/OC-01;
- TP/PT/CC/BV/IC-01.

5.2.3 CC/BV

Subgroups:

- OC; IC; CI;

- CR;
- SC;
- PM;
- RS.

5.2.3.1 CC/BV/OC

Test subgroup objectives:

To check the IUT's behaviours to setup an outgoing call.

TP/FT/CC/BV/OC-01 N_602	Reference: ETS 300 175-5 [5], subclauses 9.3.1.4 and 9.3.1.6, ETS 300 444 [10], subclause 8.1, figure 1, ETS 300 323-1[44], subclause 6.3.1.1. Initial state: F-00
	Verify that the IUT is able to perform a CC-state transition from state F-00 to state F-10 for an outgoing normal call, using the piece-wise method to transfer dialling information.
TP/FT/CC/BV/OC-02 N_602, N 2069	Reference: ETS 300 175-5 [5], subclauses 9.3.1.4 and 9.3.1.6, ETS 300 323-1[44], subclause 6.3.1.1, DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.1,
11_2000	Initial state: F-00 Verify that the IUT is able to perform a CC-state transition from state F-00 to
	state F-10 for an outgoing normal call set-up with en-block dialling in {CC-SETUP} message.
TP/FT/CC/BV/OC-03 N_633	Reference: ETS 300 175-5 [5], subclauses 9.3.1, ETS 300 323-1[44], subclause 6.3.1.8. Initial state: F-00
	Verify that the IUT is able, prior to subscription, to perform a CC-state transition from state F-00 to state F-10 for an outgoing emergency call set-up with en-block dialling in {CC-SETUP} message.
TP/FT/CC/BV/OC-04 N_634,	Reference: ETS 300 175-5 [5], subclauses 9.3.1, ETS 300 323-1[44], subclause 6.3.1.8,
N_2047	DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.1.
	Initial state: F-00 Verify that the IUT is able, when it has a subscription record for the requesting PT, to perform a CC-state transition from the F-00 state to F-10 state for an outgoing emergency call set-up with en-block dialling in {CC-SETUP} message.
TP/FT/CC/BV/OC-05	Reference: ETS 300 175-5 [5], subclauses 9.3.1,
N_2047	DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.1.
	Initial state: F-00 Verify that the IUT is able, prior to subscription, to perform a CC-state transition from state F-00 to state F-10 for an outgoing emergency call set-up with piece-wise dialling.
TP/FT/CC/BV/OC-06	Reference: ETS 300 175-5 [5], subclauses 9.3.1.5,
New	ETS 300 444 [10], subclause 8.10, table 20.
	Initial state: F-00 Verify that the IUT is able to perform a normal outgoing internal call, using
	the < <basic_service>> information element to specify the call class</basic_service>
	"internal call"
	NOT TESTABLE

5.2.3.2 CC/BV/IC

Test subgroup objectives:

To check the IUT's behaviours to setup an incoming call.

Test purposes:

TP/FT/CC/BV/IC-01	Reference: ETS 300 175-5 [5], subclause 9.3.2,
N_604,	ETS 300 444 [10], subclause 8.11, figure 28,
N_2091	ETS 300 323-1[44], subclause 6.3.1.2,
	DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.2.
	Initial state: F-00
	Verify that the IUT is able to perform an incoming call via the states F-06 and
	F-07 to the state F-10.
TP/FT/CC/BV/IC-02	Reference: ETS 300 175-5 [5], subclause 9.3.2.
N_120	Initial state: F-00
	Verify that the IUT is able to perform an incoming call via state F-06 directly to
	the state F-10.

5.2.3.3 CC/BV/CI

Test subgroup objectives:

To check the IUT's behaviours for information transfer.

TP/FT/CC/BV/CI-01	Reference: ETS 300 175-5 [5], subclause 9.3.1,	
N_660	ETS 300 444 [10], subclause 8.14,	
	ETS 300 323-1[44], subclause 6.3.1.7.	
	Initial state: F-00	
	Verify that the IUT is able to send the < <signal>> information element in</signal>	
	case of incoming call to the PT. This information element can either be in the	
	{CC-SETUP} or in successive {CC-INFO} message.	
TP/FT/CC/BV/CI-02	Reference: ETS 300 175-5 [5], subclause 9.3.1.5,	
N_651	ETS 300 444 [10], subclause 8.10, table 20,	
	ETS 300 323-1[44], subclause 6.3.1.7.	
	Initial state: F-02	
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-< td=""></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 (feature N.23 in ETS 300 444 [10]).	
TP/FT/CC/BV/CI-04	Reference: ETS 300 175-5 [5], subclause 9.3.1.5,	
N_657	ETS 300 444 [10], subclause 8.10, table 20,	
	ETS 300 323-1[44], subclause 6.3.1.7.	
	Initial state: F-02	
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-< th=""></multi-<>	
	KEYPAD>> information element containing keypad-info "05H" (dialling	
	pause), it sends a dialling pause to the network simulator (feature N.7 in	
TD/5T/00/D)//01 05	ETS 300 444 [10]).	
TP/FT/CC/BV/CI-05	Reference: ETS 300 175-5 [5], subclause 9.3.1.5,	
N_658	ETS 300 444 [10], subclause 8.10, table 20,	
	ETS 300 323-1[44], subclause 6.3.1.7.	
	Initial state: F-10	
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-< th=""></multi-<>	
	KEYPAD>> information element containing keypad-info "05H" (dialling	
	pause), it sends a dialling pause to the network simulator (feature N.7 in ETS 300 444 [10]).	
	[13 300 444 [10]).	
(continued)		
(continued)		

(concluded)

TP/FT/CC/BV/CI-06	Reference: ETS 300 175-5 [5], subclause 9.3.1.5,
N 643	
11_043	ETS 300 444 [10], subclause 8.10, table 20,
	ETS 300 323-1[44], subclause 6.3.1.7.
	Initial state: F-02
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-< th=""></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
	(feature N.6 in ETS 300 444 [10]).
TP/FT/CC/BV/CI-07	Reference: ETS 300 175-5 [5], subclause 9.3.1.5,
N_644	ETS 300 444 [10], subclause 8.10, table 20,
	ETS 300 323-1[44], subclause 6.3.1.7.
	Initial state: F-10
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-< td=""></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
	(feature N.6 in ETS 300 444 [10]).
TP/FT/CC/BV/CI-08	Reference: ETS 300 175-5 [5], subclause 9.3.1.5,
N_646	ETS 300 444 [10], subclause 8.10, table 20,
	ETS 300 323-1[44], subclause 6.3.1.7.
	Initial state: F-02
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-< td=""></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
	(feature N.22 in ETS 300 444 [10]).
TP/FT/CC/BV/CI-09	Reference: ETS 300 175-5 [5], subclause 9.3.1.5,
N_647	ETS 300 444 [10], subclause 8.10, table 20,
	ETS 300 323-1[44], subclause 6.3.1.7.
	Initial state: F-10
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-< td=""></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
	(feature N.22 in ETS 300 444 [10]).
TP/FT/CC/BV/CI-10	Reference: ETS 300 175-5 [5], subclause 9.3.1.5
N_653 (see N_662)	ETS 300 444 [10], subclause 8.10, table 20
14_000 (300 14_002)	ETS 300 323-1[44], subclause 6.3.1.7
	Initial state: F-10
	Verify that when the IUT receives a {CC-INFO} message with a < <multi-< td=""></multi-<>
	KEYPAD>> information element containing the basic digits (0-9, star, hash
	mark), it transfers this information correctly to the network simulator (feature
TD/FT/00/5: //0: / /	N.4 in ETS 300 444 [10]).
TP/FT/CC/BV/CI-11	Reference: ETS 300 175-5 [5], subclause 9.3.1.5
New	ETS 300 444 [10], subclause 8.14, table 23
	Verify that the IUT, after invocation, is able to perform an internal call, using
	the < <multi-keypad>> information element in the {CC-INFO} message to</multi-keypad>
	specify the call class
	NOT TESTABLE
TP/FT/CC/BV/CI-12	Reference: ETS 300 175-5 [5], subclause 9.3.1.5,
N_616	ETS 300 444 [10], subclause 8.17,
_	ETS 300 323-1 [44], subclause 6.3.1.7.
	Verify that the IUT is able to handle terminal capability.
	NOT TESTABLE
	HOT ILVIABLE

5.2.3.4 CC/BV/CR

Test subgroup objectives:

To check the IUT's behaviours to release an outgoing and incoming call.

TP/FT/CC/BV/CR-01 N_613	Reference: ETS 300 175-5 [5], subclause 9.5.1, ETS 300 444 [10], subclause 8.7,
14_013	ETS 300 323 [44], subclause 6.3.1.3.
	Initial state: F-02
	Verify that the IUT is able to perform an IUT initiated normal release.
TP/FT/CC/BV/CR-02	Reference: ETS 300 175-5 [5], subclause 9.5.1,
N_615	ETS 300 444 [10], subclause 8.7,
	ETS 300 323 [44], subclause 6.3.1.3.
	Initial state: F-10
	Verify that the IUT is able to perform an IUT initiated normal release.
TP/FT/CC/BV/CR-03	Reference: ETS 300 175-5 [5], subclause 9.5.1,
N_617	ETS 300 444 [10], subclause 8.7,
	ETS 300 323 [44], subclause 6.3.1.3.
	Initial state: F-07
	Verify that the IUT is able to perform an IUT initiated normal release.
TP/FT/CC/BV/CR-04	Reference: ETS 300 175-5 [5], subclause 9.5.1,
N_619, but changed	ETS 300 444 [10], subclause 8.7,
	ETS 300 323 [44], subclause 6.3.1.3.
	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-05	Reference: ETS 300 175-5 [5], subclause 9.5.1,
N_623	ETS 300 444 [10], subclause 8.7,
	ETS 300 323 [44], subclause 6.3.1.3.
	Initial state: F-10
TP/FT/CC/BV/CR-06	Verify that the IUT is able to perform a PT initiated normal release.
N 624	Reference: ETS 300 175-5 [5], subclause 9.5.1,
N_624	ETS 300 444 [10], subclause 8.7, ETS 300 323 [44], subclause 6.3.1.3.
	Initial state: F-07
	Verify that the IUT is able to perform a PT initiated normal release.
TP/FT/CC/BV/CR-07	Reference: ETS 300 175-5 [5], subclause 9.5.1,
N 607	ETS 300 444 [10], subclause 8.8, figure 24,
	ETS 300 323 [44], subclause 6.3.1.4.
	Initial state: F-07
	Verify that the IUT is able to perform a PT initiated abnormal release.
TP/FT/CC/BV/CR-08	Reference: ETS 300 175-5 [5], subclause 9.5.1,
N_606	ETS 300 444 [10], subclause 8.8, figure 24,
	ETS 300 323 [44], subclause 6.3.1.4.
	Initial state: F-10
	Verify that the IUT is able to perform a PT initiated abnormal release.
TP/FT/CC/BV/CR-09	Reference: ETS 300 175-5 [5], subclause 9.5.1,
N_610	ETS 300 444 [10], subclause 8.8, figure 24,
	ETS 300 323 [44], subclause 6.3.1.4.
	Initial state: F-06
TD/FT/00/D\//05 / 0	Verify that the IUT is able to perform a PT initiated abnormal release.
TP/FT/CC/BV/CR-10	Reference: ETS 300 175-5 [5], subclause 14.2.7,
N_630	ETS 300 444 [10], subclause 8.9,
	ETS 300 323 [44], subclause 6.3.1.5.
	Initial state: F-10 Verify that the IUT is able to perform a PT initiated partial release.
	verify that the 10 f is able to perform a FT initiated partial release.
	(continued)
	(continued)

(concluded)

TP/FT/CC/BV/CR-11	Reference: E	TS 300 175-5 [5], subclause 14.2.7,	
New	E	TS 300 444 [10], subclause 8.9.	
	Initial state: F-10	Initial state: F-10	
	Verify that the IUT is able to perform a FT initiated partial release.		
TP/FT/CC/BV/CR-12	Reference: E	TS 300 175-5 [5], subclause 14.2.7,	
N_1180	D	EL. 2 Part 6.1 [40], subclause 5.2.1.5.	
	Initial state: F-19		
	Verify that the IUT, when a normal release has been started, is able to handle		
	a (CC-INFO) message sent by PT.		

5.2.3.5 CC/BV/SC

There are no test purposes defined for this group in this ETS.

5.2.3.6 CC/BV/PM

There are no test purposes defined for this group in this ETS.

5.2.3.7 CC/BV/RS

Test subgroup objectives:

To check the IUT's behaviour during any call related procedures.

TP/FT/CC/BV/RS-01	Reference: ETS 300 175-5 [5], subclause 10.3,		
N_806	ETS 300 444 [10], subclause 8.10, table 20,		
	ETS 300 323-1 [44], subclause 6.3.3.3.		
	Initial state: F-10		
	Verify that the IUT's behaviour on the receipt of a {CC-INFO} indicating		
	"Register Recall" is correct.		
	NOT TESTABLE		
TP/FT/CC/BV/RS-02	Reference: ETS 300 175-5 [5], subclause 10.3,		
N 809,	ETS 300 323-1[44], subclause 6.3.3.3,		
N 2118	DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.3.		
11_2110	Initial state: F-10		
	To verify the IUT's behaviour of operating the basic feature key management		
	protocol. The exact feature key element that is to be tested shall be stated in		
	i i		
TD/FT/00/D\//D0 00	the PIXIT.		
TP/FT/CC/BV/RS-03	Reference: ETS 300 175-5 [5], subclause 10.3,		
N_807,	ETS 300 323-1[44], subclause 6.3.3.3,		
N_2130, N-2132	DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.4.		
	Initial state: F-10		
	To verify the IUT's behaviour of operating the feature key management		
	protocol used for Queue management.		
TP/FT/CC/BV/RS-04	Reference: ETS 300 175-5 [5], subclause 10.3,		
N_813,	ETS 300 323-1[44], subclause 6.3.3.3,		
N_2139	DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.4.		
	Initial state: F-10		
	To verify the IUT's behaviour of operating the feature key management		
	protocol used for Cost information.		
TP/FT/CC/BV/RS-05	Reference: ETS 300 175-5 [5], subclause 10.3,		
N_814,	ETS 300 323-1[44], subclause 6.3.3.4.		
	Initial state: F-10		
	To verify the IUT's behaviour of operating the basic functional protocol by		
	sending a < <facility>> information element.</facility>		
	(continued)		

(concluded)

TP/FT/CC/BV/RS-01	Reference: ETS 300 175-5 [5], subclause 10.3,	
N_806	ETS 300 444 [10], subclause 8.10, table 20,	
	ETS 300 323-1 [44], subclause 6.3.3.3.	
	Initial state: F-10	
	Verify that the IUT's behaviour on the receipt of a {CC-INFO} indicating	
	"Register Recall" is correct.	
	NOT TESTABLE	
TP/FT/CC/BV/RS-06	Reference: ETS 300 175-5 [5], subclause 10.3,	
N 815,	ETS 300 323-1[44], subclause 6.3.3.4,	
N_2118	DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.3.	
	Initial state: F-10 To verify the IUT's behaviour of operating the basic functional protocol by	
	receiving a < <facility>> information element.</facility>	
TP/FT/CC/BV/RS-07	Reference: ETS 300 175-5 [5], subclause 10.3,	
New	ETS 300 323-1[44], subclause 6.3.3.4,	
	ETS 300 444 [10], subclause 8.10, table 20. Initial state: F-10 To verify the IUT is able to transmit the < <calling number="" party="">> information element in the {{CC-SETUP} message providing the PP with the calling party number information before accepting the call (feature N.30)</calling>	

5.2.4 CC/BO

Test group objectives:

To check the CC of the IUT in response to the messages that are syntactically correct but not allowed to occur in some states of the CC procedures.

TP/FT/CC/BO-01	Reference: ETS 300 175-5 [5], subclause 17.4.1,	
New	ETS 300 444 [10], subclause 6.9.4.	
	Initial state: F-02	
	Verify that the IUT ignores the unexpected message {CC-SETUP}	
TP/FT/CC/BO-02	Reference: ETS 300 175-5 [5], subclause 9.5.3,	
New	ETS 300 444 [10], subclause 8.7.2.1, figure 21.	
	Initial state: F-19	
	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.	

5.2.5 CC/Invalid Behaviour tests (BI)

Test group objectives:

To check the Call Control module of the IUT in response to invalid messages.

TP/FT/CC/BI-01	Reference: ETS 300 175-5 [5], subclause 17.6.1,		
N 2811	ETS 300 444 [10], subclause 6.9.4,		
11_2011	:		
	DEL. 2 Part 7.1 (see annex A), subclause 5.3.1.		
	Initial state: F-00		
	Verify that the IUT sends a {CC-RELEASE-COM} message on receipt of a		
	{CC-SETUP} message without a mandatory information element		
TP/FT/CC/BI-02	Reference: ETS 300 175-5 [5], subclause 17.6.2,		
N_2818	ETS 300 444 [10], subclause 6.9.4,		
	DEL. 2 Part 7.1 (see annex A), subclause 5.3.1.		
	Initial state: F-00		
	Verify that the IUT sends a {CC-RELEASE-COM} message on receipt of a		
	{CC-SETUP} message containing a mandatory information element with		
	invalid contents		
TP/FT/CC/BI-03	Reference: ETS 300 175-5 [5], subclause 17.4.1,		
New	ETS 300 444 [10], subclause 6.9.4.		
	Initial state: F-00		
	Verify that the IUT ignores an unrecognised message, constructed and a		
	{CC-SETUP} but with one bit different in the <message type=""></message>		
TP/FT/CC/BI-04	Reference: ETS 300 175-5 [5], subclause 17.2,		
N 2801	ETS 300 444 [10], subclause 6.9.4,		
	DEL. 2 Part 7.1 (see annex A), subclause 5.3.1.		
	Initial state: F-00		
	Verify that the IUT ignores a message that is too short to contain a complete		
	message type info element.		

5.2.6 CC/TI

Test group objectives:

To verify that the IUT is reacting properly to an expiry of one of the timers or counters mismatch.

Test purposes:

This test subgroup is	Reference: ETS 300 175-5 [5], subclause 9.3.1.5,		
intended to	ETS 300 175-5 [5], subclause 9.3.1.3, ETS 300 444 [10], subclause 8.3.2.3,		
TP/FT/CC/TI-01			
	ETS 300 323-1 [44], subclause 6.3.1.6.		
N_635	Initial state: F-02		
	Verify that the IUT, after having started timer F- <cc.01>, sends a {CC-</cc.01>		
	RELEASE} message when the timer expires after the defined time. The {CC-		
	RELEASE} message should arrive within the allowed margin time of \pm 5%		
TP/FT/CC/TI-02	Reference: ETS 300 175-5 [5], subclause 9.3.1.5,		
N_636	ETS 300 444 [10], subclause 8.3.2.3, figure 12,		
	ETS 300 323-1 [44], subclause 6.3.1.6.		
	Initial state: F-02		
	Verify that the IUT is able to restart the timer F- <cc.01>, on receipt of a {CC-</cc.01>		
	INFO} message		
TP/FT/CC/TI-03	Reference: ETS 300 175-5 [5], subclause 9.5.1,		
N 639	ETS 300 444 [10], subclause 8.7.1.2,		
_	ETS 300 323-1 [44], subclause 6.3.1.6.		
	Initial state: F-19		
	Verify that the IUT, after having started timer F- <cc.02>, sends a {CC-</cc.02>		
	RELEASE-COM} 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/TI-04	Reference: ETS 300 175-5 [5], subclause 9.3.2,		
N 640			
11_040	ETS 300 444 [10], subclause 8.12.1.1,		
	ETS 300 323-1 [44], subclause 6.3.1.6.		
	Initial state: F-06 Verify that the IUT, after having started timer F- <cc.03>, sends a {CC-RELEASE-COM} message when the timer expires after the defined time. The</cc.03>		
	{CC-RELEASE-COM} message should arrive within the allowed margin time		
	of ± 5%		

5.3 MM

Test group objectives:

To check the behaviour of the MM module of the IUT. Most test cases in this group are testing the MM while the CC is in null state or active state.

Subgroups:

- IT;
- CA;
- BV;
- BO;
- BI;
- TI.

5.3.1 MM/IT

None.

5.3.2 MM/CA

- TP/PT/MM/BV/ID-01;
- TP/PT/MM/BV/AR-02;
- TP/PT/MM/BV/KA-01.

5.3.3 MM/BV

Subgroups:

- ID;
- AÚ;
- LO;
- AR;
- KA;
- PR;
- CH.

5.3.3.1 MM/BV/ID

Test subgroup objectives:

To check the IUT's valid behaviour of identity request procedure.

TP/FT/MM/BV/ID-01	Reference:	ETS 300 175-5 [5], subclause 13.2.1,	
N_700		ETS 300 444 [10], subclause 8.19,	
		ETS 300 323-1 [44], subclause 6.3.2.1.	
	Verify that wh	Verify that when the basic IUT initiated identity request procedure is invoked	
	on the IUT, th	e IUT is able to perform this procedure correctly.	
TP/FT/MM/BV/ID-02	Reference:	ETS 300 175-5 [5], subclause 13.2.2,	
N_701		ETS 300 323-1 [44], subclause 6.3.2.2,	
N_2305		DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.1.	
	Verify that wh	en the basic IUT initiated temporary identity assign procedure is	
	invoked on the IUT, the IUT is able to perform this procedure correctly.		
TP/FT/MM/BV/ID-03	Reference:	ETS 300 175-5 [5], subclause 13.2.2,	
N_2308		DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.1.	
	Verify that the IUT, when the temporary identity assign request is rejected by the PT, the IUT will not change the TPUI, when addressing the PT.		
TP/FT/MM/BV/ID-04	Reference:	ETS 300 175-5 [5], subclause 13.2.2,	
N_2309		DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.1.	
		en the basic IUT initiated temporary identity assign procedure	
		WK assigned identity procedure is invoked on the IUT, the IUT	
	is able to perform this procedure correctly.		

5.3.3.2 MM/BV/AU

Test subgroup objectives:

To check the IUT's valid behaviour of the authentication procedure.

TP/FT/MM/BV/AU-01	Reference: ETS 300 175-5 [5], subclause 13.3.1,		
N_717	ETS 300 444 [10], subclause 8.21,		
	ETS 300 323-1 [44], subclause 6.3.2.3.		
	Verify that the IUT, after invocation, is able to perform the basic operation of		
	the authentication of PT procedure (PT has not stored ZAP value and service		
	class information).		
TP/FT/MM/BV/AU-02	Reference: ETS 300 175-5 [5], subclause 13.3.1,		
N_732	ETS 300 444 [10], subclause 8.23, figure 49,		
	ETS 300 323-1 [44], subclause 6.3.2.3.		
	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	Reference: ETS 300 175-5 [5], subclause 13.3.2,		
N_704	ETS 300 444 [10], subclause 8.22,		
	ETS 300 323-1 [44], subclause 6.3.2.4.		
	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	Reference: ETS 300 175-5 [5], subclause 13.3.3,		
N_719	ETS 300 444 [10], subclause 8.20,		
	ETS 300 323-1 [44], subclause 6.3.2.5.		
	Verify that the IUT is able to perform the basic operation of the authentication		
	of FT procedure.		
TP/FT/MM/BV/AU-05	Reference: ETS 300 175-5 [5], subclause 13.3.3,		
New	ETS 300 444 [10], subclause 8.20.2.1, figure 45.		
	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	Reference: ETS 300 175-5 [5], subclause 13.3.3,		
New	ETS 300 444 [10], subclause 8.20.2.1, figure 45.		
	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 value and service class information).		

5.3.3.3 MM/BV/LO

Test subgroup objectives:

To check the IUT's valid behaviour of the location procedure.

Test purposes:

TP/FT/MM/BV/LO-01	Reference: ETS 300 175-5 [5], subclause 13.4.1,		
N 705	ETS 300 444 [10], subclause 8.25, figure 50,		
N_2360	ETS 300 323-1 [44], subclause 6.3.2.6,		
_	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.3.		
	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, and still is 1		
TP/FT/MM/BV/LO-02	Reference: ETS 300 175-5 [5], subclause 13.4.1,		
New	ETS 300 444 [10], subclause 8.25.2.1, figure 51.		
	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	Reference: ETS 300 175-5 [5], subclause 13.4.1,		
N_734	ETS 300 444 [10], subclause 8.25, figure 50,		
	ETS 300 323 [44], subclause 6.3.2.6.		
	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-04	Reference: ETS 300 175-5 [5], subclause 13.4.1,		
	ETS 300 323-1 [44], subclause 6.3.2.6,		
	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.3.		
	Verify that the IUT is able to perform the basic operation of the location		
	registration procedure, requested with a default TPUI, when broadcast attributes bit a38 was set to 1, and still is 1		
TP/FT/MM/BV/LO-05	Reference: ETS 300 175-5 [5], subclause 13.7,		
	ETS 300 444 [10], subclause 8.26,		
	ETS 300 323 [44], subclause 6.3.2.14.		
	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. The		
	portable id will contain an IPUI		
TP/FT/MM/BV/LO-06	Reference: ETS 300 175-5 [5], subclause 13.7,		
	ETS 300 444 [10], subclause 8.26,		
	ETS 300 323 [44], subclause 6.3.2.14.		
	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.		

NOTE: The phrase "bit a38 was set to 1" means: The bit a38 had the value of 1 during the time the PT locked to the IUT.

5.3.3.4 MM/BV/AR

Test subgroup objectives:

To check the IUT's valid behaviour of the obtain access rights procedure.

TP/FT/MM/BV/AR-01	Reference: ETS 300 175-5 [5], subclause 13.5.1,	
N_707	ETS 300 444 [10], subclause 8.27,	
N_2390	ETS 300 323-1 [44], subclause 6.3.2.9,	
	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.4.	
	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</auth_type>	
	element the auth_key_type "AC", and the IUT uses AC for authentication. The	
	IUT shall include the whole PARK.	
TP/FT/MM/BV/AR-02	Reference: ETS 300 175-5 [5], subclause 13.5.1,	
N_733	ETS 300 444 [10], subclause 8.27, table 46,	
_	ETS 300 323-1 [44], subclause 6.3.2.9.	
	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	Reference: ETS 300 175-5 [5], 13.5.2,	
N_709	ETS 300 444 [10], subclause 8.28,	
N_2393	ETS 300 323-1 [44], subclause 6.3.2.11,	
	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.4.	
	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-04	Reference: ETS 300 175-5 [5], 13.5.2,	
N_708	ETS 300 323-1 [44], subclause 6.3.2.10,	
N_2395	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.4.	
	Verify that the IUT is able to perform the basic operation of the PT initiated	
	terminate access rights procedure.	
TP/FT/MM/BV/AR-05	Reference: ETS 300 175-5 [5], 13.5.2,	
N_2397	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.4.	
	To verify that the IUT rejects the PT initiated terminate access rights request	
	in case of authentication of PT failure	
TP/FT/MM/BV/AR-06	Reference: ETS 300 175-5 [5], subclause 13.5.1,	
N_707	ETS 300 444 [10], subclause 8.27,	
N_2390	ETS 300 323-1 [44], subclause 6.3.2.9,	
	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.4.	
	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</auth_type>	
	element the auth_key_type "UAK", and the IUT uses UAK for authentication.	
	The IUT shall include the whole PARK.	
TP/FT/MM/BV/AR-07	Reference: ETS 300 175-5 [5], subclause 13.5.1,	
N_733	ETS 300 444 [10], subclause 8.27, table 46,	
	ETS 300 323-1 [44], subclause 6.3.2.9.	
	Verify that the IUT is able to assign zap field as part of the basic obtaining	
	access rights procedure.	

5.3.3.5 MM/BV/KA

Test subgroup objectives:

To check the IUT's valid behaviour of the key allocation procedure.

Test purposes:

TP/FT/MM/BV/KA-01	Reference: ETS 300 175-5 [5], subclause 13.6,		
N_710	ETS 300 444 [10], subclause 8.29,		
N_2420	ETS 300 323 [44], subclause 6.3.2.12,		
	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.5.		
	Verify that the IUT, after invocation, is able to perform the basic operation of		
	the key allocation procedure.		
TP/FT/MM/BV/KA-02	Reference: ETS 300 175-5 [5], subclause 13.6,		
New	ETS 300 444 [10], subclause 8.29.2.4, figure 59.		
	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/BV/KA-03	Reference: ETS 300 175-5 [5], subclause 13.6,		
New	ETS 300 444 [10], subclause 8.29.2.3, figure 58.		
	Verify that the IUT retains the AC, if the PT rejects the key allocation procedure. A successive PT initiated FT authentication based on the AC, shall		
	then succeed.		

5.3.3.6 MM/BV/PR

Test subgroup objectives:

To check the IUT's valid behaviour of the parameter retrieval procedure.

TP/FT/MM/BV/PR-01	Reference:	ETS 300 175-5 [5], subclause 13.7,
N_712,		ETS 300 323-1 [44], subclause 6.3.2.13,
N_2442		DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.6.
	To check that IUT is able to operate the basic operation of the PT initiated	
	parameter retrieval procedure.	

5.3.3.7 MM/BV/CH

Test subgroup objectives:

To check the IUT's valid behaviours of the ciphering procedure.

Test purposes:

TP/FT/MM/BV/CH-01	Reference: ETS 300 175-5 [5], subclause 13.8,
N 714	ETS 300 444 [10], subclause 8.31,
N 2461	ETS 300 323-1 [44], subclause 6.3.2.15,
11 10 1	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.7.
	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	Reference: ETS 300 175-5 [5], subclause 13.8,
N_714 (doubled in	ETS 300 444 [10], subclause 8.31,
PAP)	ETS 300 323-1 [44], subclause 6.3.2.15,
N_2462	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.7.
	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-03	Reference: ETS 300 175-5 [5], subclause 13.8,
N 713	ETS 300 444 [10], subclause 8.30,
N 2464	ETS 300 323-1 [44], subclause 6.3.2.16,
11_2 10 1	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.7.
	Verify that the IUT, after invocation, is able to perform the basic operation of
	FT initiated cipher switching procedure requesting "cipher-on", while no
	ciphering is active.
TP/FT/MM/BV/CH-04	Reference: ETS 300 175-5 [5], subclause 13.8,
N_713 (see TTCN)	ETS 300 444 [10], subclause 8.30,
N_2464 (see TTCN)	ETS 300 323-1 [44], subclause 6.3.2.16,
11_2101 (000 11011)	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.7.
	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	Reference: ETS 300 175-5 [5], subclause 13.8,
N_2468	ETS 300 444 [10], subclause 8.31.2.1, figure 64,
	DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.7.
	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.
	7

5.3.4 MM/BO

Test group objectives:

To check the MM of the IUT in response to the messages that are syntactically correct but not allowed to occur in some phase of The MM procedures.

TP/FT/MM/BO-01	Reference:	ETS 300 175-5 [5], subclause 17.4.4,
N_2970		ETS 300 444 [10], subclause 13.1,
		DEL. 2 Part 7.1 (see annex A), subclause 5.4.2.
	Verify that the	IUT ignores the unexpected message {IDENTITY-REPLY} as
	an answer to t	he FT initiated {CIPHER-REQUEST}

5.3.5 MM/BI

Test group objectives:

To check the MM module of the IUT in response to invalid messages.

TP/FT/MM/BI-01	Reference: ETS 300 175-5 [5], subclause 17.4.4,
N_2878	ETS 300 444 [10], subclause 6.9.4,
	DEL. 2 Part 7.1 (see annex A), subclause 5.3.2.1.
	Verify that the IUT ignores a message with an unrecognized message type, if
	the message was received during an FT initiated authentication of PT
	procedure.
TP/FT/MM/BI-02	Reference: ETS 300 175-5 [5], subclause 17.6.4,
N_2880	ETS 300 444 [10], subclause 6.9.4,
	DEL. 2 Part 7.1 (see annex A), subclause 5.3.2.1.
	Verify that the IUT, during the obtain access rights procedure, returns an
	{ACCESS-RIGHTS-REJECT} message, on receipt of an {ACCESS-RIGHTS-
	REQUEST) message missing the information element < <auth-type>>.</auth-type>
TP/FT/MM/BI-03	Reference: ETS 300 175-5 [5], subclause 17.6.4,
N_2881	ETS 300 444 [10], subclause 6.9.4,
	DEL. 2 Part 7.1 (see annex A), subclause 5.3.2.1.
	Verify that the IUT, during the obtain access rights procedure, returns an
	{ACCESS-RIGHTS-REJECT} message, on receipt of an {ACCESS-RIGHTS-
	REQUEST) message containing the information element < <auth-type>></auth-type>
	with a length exceeding the maximum allowed length.

5.3.6 MM/TI

Test group objectives:

This test subgroup is intended to verify that the IUT is reacting properly to an expiry of one of the timers or counters mismatch.

TP/FT/MM/TI-01	Reference: ETS 300 175-5 [5], subclause 13.2.1,
N_736	ETS 300 444 [10], subclause 8.19.2.2,
	ETS 300 323 [44], subclause 6.3.2.1.
	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>
TP/FT/MM/TI-02	Reference: ETS 300 175-5 [5], subclause 13.3.1,
N 738	ETS 300 444 [10], subclause 8.21.2.2,
_	ETS 300 323 [44], subclause 6.3.2.3.
	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	Reference: ETS 300 175-5 [5], subclause 13.3.2,
New	ETS 300 444 [10], subclause 8.22.2.2.
	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>
TP/FT/MM/TI-04	Reference: ETS 300 175-5 [5], subclause 13.5.2,
N_739	ETS 300 444 [10], subclause 8.28.2.2,
11_700	ETS 300 323 [44], subclause 6.3.2.11.
	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>
TP/FT/MM/TI-05	Reference: ETS 300 175-5 [5], subclause 13.6,
N 740	ETS 300 444 [10], subclause 8.29.2.1,
14_740	ETS 300 323 [44], subclause 6.2.12.
	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>
TP/FT/MM/TI-06	Reference: ETS 300 175-5 [5], subclause 13.8,
N_741	ETS 300 444 [10], subclause 8.30.2.1,
N_741	ETS 300 444 [10], subclause 6.30.2.1, ETS 300 323 [44], subclause 6.3.2.16.
	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.1>.</mm_cipher.1>
TP/FT/MM/TI-07	Reference: ETS 300 175-5 [5], subclause 13.2.2,
N 737	L 2'
N_/3/	ETS 300 444 [10], subclause 8.25,
	ETS 300 323-1 [44], subclause 6.3.2.2.
	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</mm_ident.1>
	the procedure, and thus allows a new location registration procedure to
TD/FT/MANA/TLOO	proceed.
TP/FT/MM/TI-08	Reference: ETS 300 175-5 [5], subclause 13.2.2,
N_737	ETS 300 323-1 [44], subclause 6.3.2.2.
	Verify that the IUT is capable of completing the FT temporary identity
	assignment procedure at a point in time 10% before expiry of the timer F-
	<mm_ident.1>.</mm_ident.1>

5.4 ME

Subgroups:

- BV;
- BO.

5.4.1 ME/BV

Test group objective:

To check interleaving operation of MM entity and CC entity of the IUT.

Test purposes:

TP/FT/ME/BV-01	Reference: ETS 300 175-5 [5], subclause 15.2.1,
New	ETS 300 444 [10], subclause 6.9.6.
	Verify that the IUT is able to handle the authentication of FT request in parallel
	with an incoming call establishment.
TP/FT/ME/BV-02	Reference: ETS 300 175-5 [5], subclause 15.5,
New	ETS 300 444 [10], subclause 6.9.6.
	Verify that the IUT is able to handle an authentication of FT request, when it
	interrupts a user authentication procedure.
TP/FT/ME/BV-03	Reference: ETS 300 175-5 [5], subclause 15.5,
New	ETS 300 444 [10], subclause 6.9.6.
	Verify that the IUT is able to handle an locate request, during an active CC
	call (state F-10)

5.4.2 ME/BO

Test group objective:

To check the inopportune behaviour of the interleaving operation of MM entity and CC entity of the IUT.

Test purpose:

TP/FT/ME/BO-01	Reference: ETS 300 175-5 [5], subclause 17.4.4,
N_2970	ETS 300 444 [10], subclause 13.1,
	DEL. 2 Part 7.1 (see annex A), subclause 5.4.2.
	Verify that the IUT ignores an MM message with a lower priority (a
	{LOCATE_REQUEST} message) after the IUT (after invocation) has initiated
	the authentication of PT procedure.

5.5 LC

Test group objectives:

To verify the behaviour of the LC entity of the IUT.

Subgroups:

- BV;
- BI;
- TI.

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5.5.1 LC/BV

Subgroups:

LE;

LR; LS;

LL.

5.5.1.1 LC/BV/LE

Test group objective:

To check the IUT's valid behaviour of establishing connection oriented link procedure.

TP/FT/LC/BV/LE-01 N_2750	Reference: ETS 300 175-5 [5], subclause 14.2.1 and 14.2.3, ETS 300 444 [10], subclause 8.32, figure 65, DEL. 2 Part 7.1 (see annex A), subclause 5.2.6.
	Initial state: F-00
	Verify that the IUT is able to initiate the indirect (paged) FT-initiated link establishment procedure.
TP/FT/LC/BV/LE-02	Reference: ETS 300 175-5 [5], subclause 14.2.1 and 14.2.3,
N_2751	ETS 300 444 [10], subclause 8.32.2.1, figure 66,
	DEL. 2 Part 7.1 (see annex A), subclause 5.2.6.
	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	Reference: ETS 300 175-5 [5], subclause 14.2.1 and 14.2.3,
N_2751	ETS 300 444 [10], subclause 8.32.2.1, figure 66,
	DEL. 2 Part 7.1 (see annex A), subclause 5.2.6.
	Initial state: F-00
	Verify that the IUT is able to handle a PT initiated link establishment.

5.5.1.2 LC/BV/LR

Test group objective:

To check the IUT's valid behaviour of the connection oriented link release procedure.

Test purposes:

TP/FT/LC/BV/LR-01	Reference: ETS 300 175-5 [5], subclause 14.2.7,
New	ETS 300 444 [10], subclause 8.34.
	Verify that the IUT is able to perform a normal PT initiated link release.
TP/FT/LC/BV/LR-02	Reference: ETS 300 175-5 [5], subclause 14.2.5,
New	ETS 300 444 [10], subclause 8.36.
	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	Reference: ETS 300 175-5 [5], subclause 14.2.5,
New	ETS 300 444 [10], subclause 8.36.
	Verify that the IUT is able to start the link release after the termination of a
	call.
TP/FT/LC/BV/LR-04	Reference: ETS 300 175-5 [5], subclause 14.2.5,
New	ETS 300 444 [10], subclause 8.36.
	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

NOTE: In some cases a lower layer may be responsible for a link release

5.5.1.3 LC/BV/LS

Test subgroup objectives:

To check the IUT's valid behaviour of connection oriented link suspend and resume procedures.

Test purposes:

There are no test purposes defined for this group in this ETS.

5.5.1.4 LC/BV/CL

Test subgroup objectives:

To check the IUT's valid behaviour of connectionless link control procedures.

Test purposes:

There are no test purposes defined for this group in this ETS.

5.5.2 LC/BI

Test group objectives:

To check the LC entity of the IUT in response to invalid messages.

TP/FT/LC/BI-01	Reference: ETS 300 175-5 [5], subclause 17.1,
N_2830	ETS 300 444 [10], subclause 6.9.4,
11_2000	DEL. 2 Part 7.1 (see annex A), subclause 5.3.1.
	Initial state: F-00
	Verify that the IUT ignores a message containing a protocol discriminator
TD/FT/I O/DI 00	value that indicates a service that is not supported by the IUT.
TP/FT/LC/BI-03	Reference: ETS 300 175-5 [5], subclause 17.3.2.1,
N_2842	ETS 300 444 [10], subclause 6.9.4,
	DEL. 2 Part 7.1 (see annex A), subclause 5.3.1.
	Initial state: F-02
	Verify that the IUT on receipt of a {CC-INFO} message containing unrelated
	transaction identifier sends back a {CC-RELEASE-COM} message, using the
	same transaction identifier as in the {CC-INFO} message.
TP/FT/LC/BI-04	Reference: ETS 300 175-5 [5], subclause 17.3.1,
N_2870	ETS 300 444 [10], subclause 6.9.4,
	DEL. 2 Part 7.1 (see annex A), subclause 5.3.2.1.
	Verify that the IUT ignores an {AUTH-REQUEST} message containing an
	illegal transaction identifier.
TP/FT/LC/BI-05	Reference: ETS 300 175-5 [5], subclause 17.3.2.5
N 2877	ETS 300 444 [10], subclause 6.9.4
	DEL. 2 Part 7.1 (see annex A), subclause 5.3.2.1
	Verify that the IUT ignores an {IDENTITY-REPLY} message with a
	Transaction Identifier flag set illegally to "0", if the message was received
	during a FT-initiated identification of PT procedure.
TP/FT/LC/BI-06	Reference: ETS 300 175-5 [5], subclause 14.2.1 and 14.2.3,
New	ETS 300 444 [10], subclause 8.32.2.1, figure 66.
INGW	Initial state: F-00
	Verify that the IUT will reject the link, if it receives an unrecognized message
	instead of the {LCE-PAGE-RESPONSE} message, after an indirect link
TD/FT/LO/DL07	establishment has been invoked.
TP/FT/LC/BI-07	Reference: ETS 300 175-5 [5], subclause 17.9,
New	ETS 300 444 [10], subclause 8.35.
	Initial state: F-10
	Verify that the IUT, when the link fails during an active call, clears the call.

5.5.3 LC/TI

This test subgroup is intended to verify that the IUT is reacting properly to an expiry of one of the timers or counters mismatch.

TP/FT/LC/TI-01	Reference: ETS 300 175-5 [5], subclause 14.2.7,		
New	ETS 300 444 [10], subclause 8.34.1.1.		
	Verify that the IUT handles the expiry of timer <lce.01>. correctly.</lce.01>		
	NOT TESTABLE		
TP/FT/LC/TI-02	Reference: ETS 300 175-5 [5], subclause 14.2.7,		
N_663	ETS 300 444 [10], subclause 8.36.1.1,		
	ETS 300 323-1 [44], subclause 6.3.1.6.		
	Initial state: F-00		
	Verify that the IUT, after termination of an MM procedure, maintains the link		
	for a period of <lce.02>. +- 5%.</lce.02>		
TP/FT/LC/TI-03	Reference: ETS 300 175-5 [5], subclause 14.2.3,		
New	ETS 300 444 [10], subclause 8.32.1.1.		
	Initial state: F-00		
	Verify that the IUT during indirect link establishment, re-transmits the		
	{LCE_PAGE_REQUEST} message after a period of <lce.03> +- 5%</lce.03>		

5.6 IS

Subgroups:

- BV.

5.6.1 IS/BV

Test group objective:

To verify the behaviour of the IS entity of the IUT.

TP/FT/IS/BV-01	Reference: ETS 300 175-5 [5], subclause 10.3,
N-816	ETS 300 323-1 [44], subclause 6.3.6.3,
N_2505	DEL. 2 Part 7.1 (see annex A), subclause 5.2.3.
	Initial state: F-00
	To verify that the IUT sends back a < <feature indicate="">>, upon reception of a</feature>
	set-up of a CISS procedure containing a < <feature activate="">> information</feature>
	element.
TP/FT/IS/BV-02	Reference: ETS 300 175-5 [5], subclause 10.3,
N_817	ETS 300 323-1 [44], subclause 6.3.6.3,
N_2502, N_2503	DEL. 2 Part 7.1 (see annex A), subclause 5.2.3.
	Initial state: F-00
	To verify that the IUT sends back a < <facility>> information element, upon</facility>
	reception of a set-up of a CISS procedure containing a < <facility>></facility>
	information element.
TP/FT/IS/BV-03	Reference: ETS 300 175-5 [5], subclause 10.3,
N_817	ETS 300 323-1 [44], subclause 6.3.6.3,
N_2500, N_2501	DEL. 2 Part 7.1 (see annex A), subclause 5.2.3.
	Initial state: F-00
	To verify that the IUT, after invocation, can set-up a CISS procedure
	< <facility>> information element.</facility>

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5.7 MO

There are no test purposes defined for this group in this ETS.

5.8 CL

Subgroups:

- BV.

5.8.1 CL/BV

Test group objectives:

To verify the behaviour of the CL entity of the IUT.

	T	
TP/FT/CL/BV-01	Reference: ETS 300 175-5 [5], subclause 12.3.1,	
N_850,	ETS 300 323-1 [44], subclause 6.3.5.1,	
N_2708,9	DEL. 2 Part 7.1 (see annex A), subclause 5.2.6.	
_ ,	Initial state: F-00	
	To verify that the IUT, after invocation, is able to send a CLMS-FIXED	
	message.	
TP/FT/CL/BV-02	Reference: ETS 300 175-5 [5], subclause 14.2.1 and 14.2.3,	
N_851,	ETS 300 323-1 [44], subclause 6.3.5.2,	
N_2700-5	DEL. 2 Part 7.1 (see annex A), subclause 5.2.5.	
	Initial state: F-00	
	To verify that the IUT, after invocation, is able to send a CLMS-VARIABLE.	
	message	
TP/FT/CL/BV-03	Reference: ETS 300 175-5 [5], subclause 14.2.1 and 14.2.3,	
N_852,	ETS 300 323-1 [44], subclause 6.3.5.2,	
N_2706,7	DEL. 2 Part 7.1 (see annex A), subclause 5.2.5.	
	Initial state: F-00	
	To verify that the IUT is able to receive a CLMS-VARIABLE message.	

Annex A (informative): Bibliography

13)

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