# ETSI

**E**UROPEAN
**T**ELECOMMUNICATION
**S**TANDARD

**DRAFT**

pr **ETS 300 497-8**

**February 1997**

**Second Edition**

Source: ETSI EP-DECT

Reference: RE/DECT-040094-8

ICS: 33.020

**Key words:** DECT, TCL, TSS, TP, FT, GAP

# Radio Equipment and Systems (RES);
# Digital Enhanced Cordless Telecommunications (DECT);
# Common Interface (CI) Test Case Library (TCL);
# Part 8: Test Suite Structure (TSS) and Test Purposes (TP) -
# Network (NWK) layer - Fixed radio Termination (FT)

# ETSI

# Contents

## Foreword

This draft second edition European Telecommunication Standard (ETS) has been produced by the Digital Enhanced Cordless Telecommunications (DECT) Project of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Public Enquiry phase of the ETSI standards approval procedure.

This ETS comprises nine parts, as follows:

Part 1:     "Test Suite Structure (TSS) and Test Purposes (TP) for Medium Access Control (MAC) layer".

Part 2:     "Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Portable radio Termination (PT)".

Part 3:     "Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Fixed radio Termination (FT)".

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

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

Part 6:     "Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK) layer - Portable radio Termination (PT)".

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

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

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

| Proposed 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 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 [13]) as well as the ETSI rules for conformance testing (ETS 300 406 [10]) 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: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".

[2]     ETS 300 175-2: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical layer (PHL)".

[3]     ETS 300 175-3: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".

[4]     ETS 300 175-4: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".

[5]     ETS 300 175-5: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".

[6]     ETS 300 175-6: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".

[7]     ETS 300 175-7: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".

[8]     ETS 300 175-8: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech coding and transmission".

[9]     ETS 300 323-1: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Public Access Profile (PAP) test specification Part 1: Overview".

[10]     ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[11]             ETS 300 444: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".

[12]             ETS 300 497-3 (1996): "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 3: Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Fixed radio Termination (FT)".

[13]             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)).

[14]             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)).

[15]             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).

[16]             TBR 6: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); General terminal attachment requirements".

[17]             TBR 10: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); General terminal attachment requirements; Telephony applications".

[18]             TBR 11 (1992): "Radio Equipment and Systems (RES); Attachment requirements for terminal equipment for Digital European Cordless Telecommunications (DECT) Public Access Profile (PAP) applications".

[19]             TBR 22: "Radio Equipment and Systems (RES); Attachment requirements for terminal equipment for Digital Enhanced Cordless Telecommunications (DECT) Generic Access Profile (GAP) applications".

# 3     Definitions, symbols and abbreviations

## 3.1     Definitions

For the purposes of this ETS, the definitions given in ISO/IEC 9646-1 [13], ISO/IEC 9646-2 [14], ETS 300 175-1 [1], ETS 300 175-5 [5], ETS 300 175-6 [6] and ETS 300 175-7 [7] apply.

## 3.2     Abbreviations

For the purposes of this ETS, the following abbreviations apply:

| | |
|---|---|
| AC | Authentication Code |
| AR | Access Rights |
| AU | Authentication |
| BI | Invalid Behaviour |
| BO | InOpportune Behaviour |
| BV | Valid Behaviour |
| CA | Capability |
| CA | Capability tests |
| CC | Call Control |
| CI | Call Information |
| CP | Ciphering |
| CR | Call Release |
| CTS | Conformance Testing Services |
| DECT | Digital Enhanced Cordless Telecommunication |
| FT | Fixed radio termination |

| | |
|---|---|
| IC | Incoming Call |
| ID | Identification |
| IPUI | International Portable User Identity |
| IUT | Implementation Under Test |
| KA | Key Allocation |
| LC | Link Control |
| LE | Connection oriented Link Establishment |
| LL | Connectionless Link control |
| LO | Location |
| LR | Connection oriented Link Release |
| LS | Connection oriented Link Suspend and resume |
| LT | Lower Tester |
| MAC | Medium Access Control |
| 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 |
| PDU | Protocol Data Unit |
| PHL | Physical Layer |
| PICS | Protocol Implementation Conformance Statement |
| PIXIT | Protocol Implementation Extra Information for Testing |
| PM | Packet Mode |
| PR | Parameter Retrieval |
| PT | Portable radio termination |
| RS | Call Related Supplementary Services |
| SC | Service Change |
| TP | Test Purposes |
| TSS | Test Suite Structure |
| TTCN | Tree and Tabular Combined Notation |
| UAK | User Authentication Key |

# 4 Test Suite Structure (TSS)

## 4.1 TSS overview
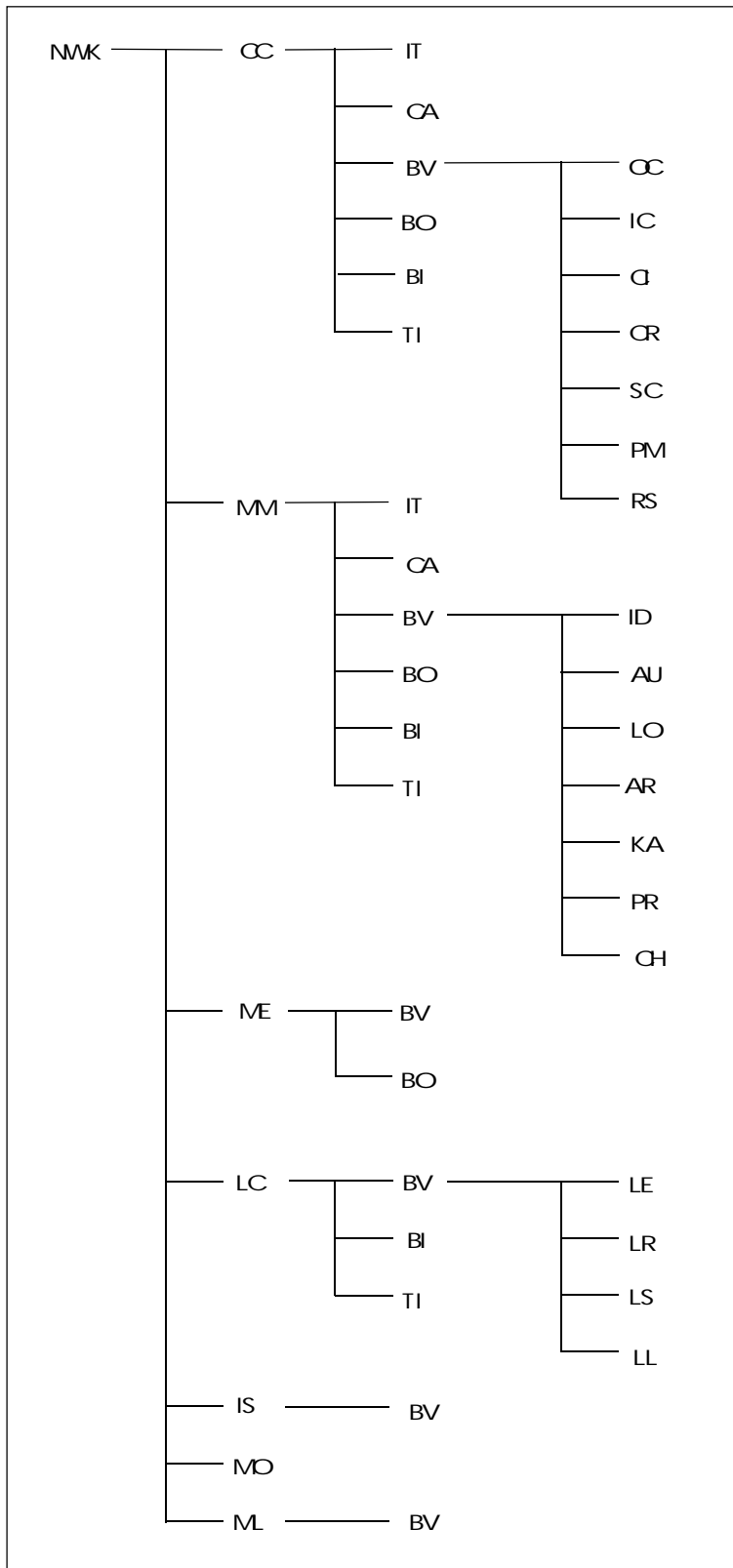


**Figure 1: TSS**

### 4.2 Test groups

### 4.2.1 Protocol groups

### 4.2.1.1 Call Control (CC)

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

### 4.2.1.2 Mobility Management (MM)

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

### 4.2.1.3 Lower Layer Management Entity (LLME)

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

### 4.2.1.4 Link Control (LC)

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

### 4.2.1.5 Call Independent Supplementary Services (CISS)

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

### 4.2.1.6 Connection Oriented Message Services (COMS)

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

### 4.2.1.7 Connectionless Message Services (CLMS)

Reference: 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 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.

### 4.2.2.2 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 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. 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 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.

#### 4.2.2.5        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 (TP)

Each test case is allocated directly under a defined TP.

### 5.1        Introduction

#### 5.1.1        TP definition conventions

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

**Table 1: TP definition rules**

| TP Id<br>Source reference | Reference<br>Initial condition<br>Stimulus<br>Expected behaviour |
|---|---|
| TP Id: | 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 TP. 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 Conformance Testing Services (CTS) 5 project (see annex A).

### 5.1.3 TP naming conventions

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

**Table 2: TP naming convention**

| TP/&lt;rt&gt;/&lt;fm&gt;/&lt;x&gt;/&lt;s&gt;/&lt;nn&gt; | | |
|---|---|---|
| &lt;rt&gt; = type of radio termination | FT | Fixed radio Termination |
| &lt;fm&gt; = functional module | CC | 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 |
| | BO | Inopportune Behaviour Tests |
| | BI | Invalid Behaviour Tests |
| | TI | Timer expiry and counter mismatch tests |
| s = test subgroup | OC | 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 |
| | CH | Ciphering |
| | LE | Connection oriented Link Establishment |
| | LR | Connection oriented Link Release |
| | LS | Connection oriented Link Suspend and resume |
| | LL | Connectionless Link control |
| &lt;nn&gt; = sequential number | (01-99) | Test Purpose Number |

**5.2      CC**

Test group objectives:

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

Subgroups:

-       IT;
-       CA;
-       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.

Test purposes:

| | |
|---|---|
| TP/FT/CC/BV/OC-01<br>N_602 | Reference: ETS 300 175-5 [5], subclauses 9.3.1.4 and 9.3.1.6,<br>**ETS 300 444 [11], subclause 8.1, figure 1,**<br>ETS 300 323-1 [9], subclause 6.3.1.1.<br>Initial state: F-00<br>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<br>N_602,<br>N_2069 | Reference: ETS 300 175-5 [5], subclauses 9.3.1.4 and 9.3.1.6,<br>ETS 300 323-1 [9], subclause 6.3.1.1,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.1,<br>Initial state: F-00<br>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<br>N_633 | Reference: ETS 300 175-5 [5], subclauses 9.3.1,<br>ETS 300 323-1 [9], subclause 6.3.1.8.<br>Initial state: F-00<br>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<br>N_634,<br>N_2047 | Reference: ETS 300 175-5 [5], subclauses 9.3.1,<br>ETS 300 323-1 [9], subclause 6.3.1.8,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.1.<br>Initial state: F-00<br>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<br>N_2047 | Reference: ETS 300 175-5 [5], subclauses 9.3.1,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.1.<br>Initial state: F-00<br>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<br>New | Reference: ETS 300 175-5 [5], subclauses 9.3.1.5,<br>**ETS 300 444 [11], subclause 8.10, table 20.**<br>Initial state: F-00<br>Verify that the IUT is able to perform a normal outgoing **internal** call, using the <<BASIC_SERVICE>> information element to specify the call class "internal call"<br>**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<br>N_604,<br>N_2091 | Reference: ETS 300 175-5 [5], subclause 9.3.2,<br>**ETS 300 444 [11], subclause 8.11, figure 28,**<br>ETS 300 323-1 [9], subclause 6.3.1.2,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.2.<br>Initial state: F-00<br>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<br>N_120 | Reference: ETS 300 175-5 [5], subclause 9.3.2.<br>Initial state: F-00<br>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.

Test purposes:

| | |
|---|---|
| TP/FT/CC/BV/CI-01<br>N_660 | Reference:    ETS 300 175-5 [5], subclause 9.3.1,<br>                 **ETS 300 444 [11], subclause 8.14,**<br>                 ETS 300 323-1 [9], subclause 6.3.1.7.<br>Initial state: F-00<br>Verify that the IUT is able to send the <<SIGNAL>> information element in 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<br>N_651 | Reference:    ETS 300 175-5 [5], subclause 9.3.1.5,<br>                 **ETS 300 444 [11], subclause 8.10, table 20,**<br>                 ETS 300 323-1 [9], subclause 6.3.1.7.<br>Initial state: F-02<br>Verify that when the IUT receives a {CC-INFO} message with a <<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 [11]). |
| TP/FT/CC/BV/CI-03<br>N_651 | Reference:    ETS 300 175-5 [5], subclause 9.3.1.5,<br>                 **ETS 300 444 [11], subclause 8.10, table 20,**<br>                 ETS 300 323-1 [9], subclause 6.3.1.7.<br>Initial state: F-10<br>Verify that when the IUT receives a {CC-INFO} message with a <<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 [11]). |
| TP/FT/CC/BV/CI-04<br>N_657 | Reference:    ETS 300 175-5 [5], subclause 9.3.1.5,<br>                 **ETS 300 444 [11], subclause 8.10, table 20,**<br>                 ETS 300 323-1 [9], subclause 6.3.1.7.<br>Initial state: F-02<br>Verify that when the IUT receives a {CC-INFO} message with a <<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 [11]). |
| TP/FT/CC/BV/CI-05<br>N_658 | Reference:    ETS 300 175-5 [5], subclause 9.3.1.5,<br>                 **ETS 300 444 [11], subclause 8.10, table 20,**<br>                 ETS 300 323-1 [9], subclause 6.3.1.7.<br>Initial state: F-10<br>Verify that when the IUT receives a {CC-INFO} message with a <<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 [11]). |
| | (continued) |

**(concluded)**

| | |
|---|---|
| TP/FT/CC/BV/CI-06<br>N_643 | Reference: ETS 300 175-5 [5], subclause 9.3.1.5,<br>**ETS 300 444 [11], subclause 8.10, table 20,**<br>ETS 300 323-1 [9], subclause 6.3.1.7.<br>Initial state: F-02<br>Verify that when the IUT receives a {CC-INFO} message with a <<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 [11]). |
| TP/FT/CC/BV/CI-07<br>N_644 | Reference: ETS 300 175-5 [5], subclause 9.3.1.5,<br>**ETS 300 444 [11], subclause 8.10, table 20,**<br>ETS 300 323-1 [9], subclause 6.3.1.7.<br>Initial state: F-10<br>Verify that when the IUT receives a {CC-INFO} message with a <<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 [11]). |
| TP/FT/CC/BV/CI-08<br>N_646 | Reference: ETS 300 175-5 [5], subclause 9.3.1.5,<br>**ETS 300 444 [11], subclause 8.10, table 20,**<br>ETS 300 323-1 [9], subclause 6.3.1.7.<br>Initial state: F-02<br>Verify that when the IUT receives a {CC-INFO} message with a <<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 [11]). |
| TP/FT/CC/BV/CI-09<br>N_647 | Reference: ETS 300 175-5 [5], subclause 9.3.1.5,<br>**ETS 300 444 [11], subclause 8.10, table 20,**<br>ETS 300 323-1 [9], subclause 6.3.1.7.<br>Initial state: F-10<br>Verify that when the IUT receives a {CC-INFO} message with a <<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 [11]). |
| TP/FT/CC/BV/CI-10<br>N_653 (see N_662) | Reference: ETS 300 175-5 [5], subclause 9.3.1.5<br>**ETS 300 444 [11], subclause 8.10, table 20**<br>ETS 300 323-1 [9], subclause 6.3.1.7<br>Initial state: F-10<br>Verify that when the IUT receives a {CC-INFO} message with a <<MULTI-KEYPAD>> information element containing the basic digits (0-9, star, hash mark), it transfers this information correctly to the network simulator (feature N.4 in ETS 300 444 [11]). |
| TP/FT/CC/BV/CI-11<br>New | Reference: ETS 300 175-5 [5], subclause 9.3.1.5<br>**ETS 300 444 [11], subclause 8.14, table 23**<br>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 specify the call class<br>**NOT TESTABLE** |
| TP/FT/CC/BV/CI-12<br>N_616 | Reference: ETS 300 175-5 [5], subclause 9.3.1.5,<br>**ETS 300 444 [11], subclause 8.17,**<br>ETS 300 323-1 [9], subclause 6.3.1.7.<br>Verify that the IUT is able to handle terminal capability.<br>**NOT TESTABLE** |

### 5.2.3.4 CC/BV/CR

Test subgroup objectives:

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

Test purposes:

| | |
|---|---|
| TP/FT/CC/BV/CR-01<br>N_613 | Reference:     ETS 300 175-5 [5], subclause 9.5.1,<br>**ETS 300 444 [11], subclause 8.7,**<br>ETS 300 323-1 [9], subclause 6.3.1.3.<br>Initial state: F-02<br>Verify that the IUT is able to perform an IUT initiated normal release. |
| TP/FT/CC/BV/CR-02<br>N_615 | Reference:     ETS 300 175-5 [5], subclause 9.5.1,<br>**ETS 300 444 [11],subclause 8.7,**<br>ETS 300 323-1 [9], subclause 6.3.1.3.<br>Initial state: F-10<br>Verify that the IUT is able to perform an IUT initiated normal release. |
| TP/FT/CC/BV/CR-03<br>N_617 | Reference:     ETS 300 175-5 [5], subclause 9.5.1,<br>**ETS 300 444 [11], subclause 8.7,**<br>ETS 300 323-1 [9], subclause 6.3.1.3.<br>Initial state: F-07<br>Verify that the IUT is able to perform an IUT initiated normal release. |
| TP/FT/CC/BV/CR-04<br>N_619, but changed | Reference:     ETS 300 175-5 [5], subclause 9.5.1,<br>**ETS 300 444 [11], subclause 8.7,**<br>ETS 300 323-1 [9], subclause 6.3.1.3.<br>Initial state: F-02<br>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<br>N_623 | Reference:     ETS 300 175-5 [5], subclause 9.5.1,<br>**ETS 300 444 [11], subclause 8.7,**<br>ETS 300 323-1 [9], subclause 6.3.1.3.<br>Initial state: F-10<br>Verify that the IUT is able to perform a PT initiated normal release. |
| TP/FT/CC/BV/CR-06<br>N_624 | Reference:     ETS 300 175-5 [5], subclause 9.5.1,<br>**ETS 300 444 [11], subclause 8.7,**<br>ETS 300 323-1 [9], subclause 6.3.1.3.<br>Initial state: F-07<br>Verify that the IUT is able to perform a PT initiated normal release. |
| TP/FT/CC/BV/CR-07<br>N_607 | Reference:     ETS 300 175-5 [5], subclause 9.5.1,<br>**ETS 300 444 [11], subclause 8.8, figure 24,**<br>ETS 300 323-1 [9], subclause 6.3.1.4.<br>Initial state: F-07<br>Verify that the IUT is able to perform a PT initiated abnormal release. |
| TP/FT/CC/BV/CR-08<br>N_606 | Reference:     ETS 300 175-5 [5], subclause 9.5.1,<br>**ETS 300 444 [11], subclause 8.8, figure 24,**<br>ETS 300 323-1 [9], subclause 6.3.1.4.<br>Initial state: F-10<br>Verify that the IUT is able to perform a PT initiated abnormal release. |
| TP/FT/CC/BV/CR-09<br>N_610 | Reference:     ETS 300 175-5 [5], subclause 9.5.1,<br>**ETS 300 444 [11], subclause 8.8, figure 24,**<br>ETS 300 323-1 [9], subclause 6.3.1.4.<br>Initial state: F-06<br>Verify that the IUT is able to perform a PT initiated abnormal release. |
| TP/FT/CC/BV/CR-10<br>N_630 | Reference:     ETS 300 175-5 [5], subclause 14.2.7,<br>**ETS 300 444 [11], subclause 8.9,**<br>ETS 300 323-1 [9], subclause 6.3.1.5.<br>Initial state: F-10<br>Verify that the IUT is able to perform a PT initiated partial release. |
| | (continued) |

**(concluded)**

| | |
|---|---|
| TP/FT/CC/BV/CR-11<br>New | Reference:    ETS 300 175-5 [5], subclause 14.2.7,<br>                  **ETS 300 444 [11], subclause 8.9.**<br>Initial state: F-10<br>Verify that the IUT is able to perform a FT initiated partial release. |
| TP/FT/CC/BV/CR-12<br>N_1180 | Reference:    ETS 300 175-5 [5], subclause 14.2.7,<br>                  DEL. 2 Part 6.1 (see annex A), subclause 5.2.1.5.<br>Initial state: F-19<br>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.

Test purposes:

| | |
|---|---|
| TP/FT/CC/BV/RS-01<br>N_806 | Reference:    ETS 300 175-5 [5], subclause 10.3,<br>                  **ETS 300 444 [11], subclause 8.10, table 20,**<br>                  ETS 300 323-1 [9], subclause 6.3.3.3.<br>Initial state: F-10<br>Verify that the IUT's behaviour on the receipt of a {CC-INFO} indicating "Register Recall" is correct.<br>**NOT TESTABLE** |
| TP/FT/CC/BV/RS-02<br>N_809,<br>N_2118 | Reference:    ETS 300 175-5 [5], subclause 10.3,<br>                  ETS 300 323-1 [9], subclause 6.3.3.3,<br>                  DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.3.<br>Initial state: F-10<br>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 the PIXIT. |
| TP/FT/CC/BV/RS-03<br>N_807,<br>N_2130, N-2132 | Reference:    ETS 300 175-5 [5], subclause 10.3,<br>                  ETS 300 323-1 [9], subclause 6.3.3.3,<br>                  DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.4.<br>Initial state: F-10<br>To verify the IUT's behaviour of operating the feature key management protocol used for Queue management. |
| TP/FT/CC/BV/RS-04<br>N_813,<br>N_2139 | Reference:    ETS 300 175-5 [5], subclause 10.3,<br>                  ETS 300 323-1 [9], subclause 6.3.3.3,<br>                  DEL. 2 Part 7.1 (see annex A), subclause 5.2.1.4.<br>Initial state: F-10<br>To verify the IUT's behaviour of operating the feature key management protocol used for Cost information. |
| TP/FT/CC/BV/RS-05<br>N_814, | Reference:    ETS 300 175-5 [5], subclause 10.3,<br>                  ETS 300 323-1 [9], subclause 6.3.3.4.<br>Initial state: F-10<br>To verify the IUT's behaviour of operating the basic functional protocol by sending a <<facility>> information element. |
| | **(continued)** |

**(concluded)**

| | |
|---|---|
| TP/FT/CC/BV/RS-06 N_815, N_2118 | Reference: ETS 300 175-5 [5], subclause 10.3, ETS 300 323-1 [9], subclause 6.3.3.4, 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. |
| TP/FT/CC/BV/RS-07 New | Reference: ETS 300 175-5 [5], subclause 10.3, ETS 300 323-1 [9], subclause 6.3.3.4, **ETS 300 444 [11], subclause 8.10, table 20.** |
| | Initial state: F-10 |
| | To verify the IUT is able to transmit the <<calling party number>> information element in the {{CC-SETUP} message providing the PP with the calling party number information before accepting the call (feature N.30) |

### 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.

Test purposes:

| | |
|---|---|
| TP/FT/CC/BO-01 New | Reference: ETS 300 175-5 [5], subclause 17.4.1, **ETS 300 444 [11], subclause 6.9.4.** |
| | Initial state: F-02 |
| | Verify that the IUT ignores the unexpected message {CC-SETUP} |
| TP/FT/CC/BO-02 New | Reference: ETS 300 175-5 [5], subclause 9.5.3, **ETS 300 444 [11], 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.

Test purposes:

| TP/FT/CC/BI-01 N_2811 | Reference: ETS 300 175-5 [5], subclause 17.6.1, **ETS 300 444 [11], 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 without a mandatory information element |
|---|---|
| TP/FT/CC/BI-02 N_2818 | Reference: ETS 300 175-5 [5], subclause 17.6.2, **ETS 300 444 [11], 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 New | Reference: ETS 300 175-5 [5], subclause 17.4.1, **ETS 300 444 [11], 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> |
|  |  |

### 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 intended to | Reference:        ETS 300 175-5 [5], subclause 9.3.1.5, |
|---|---|
| TP/FT/CC/TI-01<br>N_635 | **ETS 300 444 [11], subclause 8.3.2.3,**<br>ETS 300 323-1 [9], subclause 6.3.1.6.<br>Initial state: F-02<br>Verify that the IUT, after having started timer F-<CC.01>, sends a {CC-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<br>N_636 | Reference:        ETS 300 175-5 [5], subclause 9.3.1.5,<br>**ETS 300 444 [11], subclause 8.3.2.3, figure 12,**<br>ETS 300 323-1 [9], subclause 6.3.1.6.<br>Initial state: F-02<br>Verify that the IUT is able to restart the timer F-<CC.01>, on receipt of a {CC-INFO} message |
| TP/FT/CC/TI-03<br>N_639 | Reference:        ETS 300 175-5 [5], subclause 9.5.1,<br>**ETS 300 444 [11], subclause 8.7.1.2,**<br>ETS 300 323-1 [9], subclause 6.3.1.6.<br>Initial state: F-19<br>Verify that the IUT, after having started timer F-<CC.02>, sends a {CC-RELEASE-COM} message when the timer expires after the defined time. The {CC-RELEASE-COM} message should arrive within the allowed margin time of $\pm$ 5% |
| TP/FT/CC/TI-04<br>N_640 | Reference:        ETS 300 175-5 [5], subclause 9.3.2,<br>**ETS 300 444 [11], subclause 8.12.1.1,**<br>ETS 300 323-1 [9], subclause 6.3.1.6.<br>Initial state: F-06<br>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-RELEASE-COM} message should arrive within the allowed margin time of $\pm$ 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;
- AU;
- 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.

Test purposes:

| TP/FT/MM/BV/ID-01 N_700 | Reference: ETS 300 175-5 [5], subclause 13.2.1, **ETS 300 444 [11], subclause 8.19,** ETS 300 323-1 [9], subclause 6.3.2.1. 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-02 N_701 N_2305 | Reference: ETS 300 175-5 [5], subclause 13.2.2, ETS 300 323-1 [9], subclause 6.3.2.2, DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.1. Verify that when 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 N_2308 | Reference: ETS 300 175-5 [5], subclause 13.2.2, 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 N_2309 | Reference: ETS 300 175-5 [5], subclause 13.2.2, DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.1. Verify that when the basic IUT initiated temporary identity assign procedure assigning a NWK 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.

Test purposes:

| | |
|---|---|
| TP/FT/MM/BV/AU-01<br>N_717 | Reference:    ETS 300 175-5 [5], subclause 13.3.1,<br>**ETS 300 444 [11], subclause 8.21,**<br>ETS 300 323-1 [9], subclause 6.3.2.3.<br>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<br>N_732 | Reference:    ETS 300 175-5 [5], subclause 13.3.1,<br>**ETS 300 444 [11], subclause 8.23, figure 49,**<br>ETS 300 323-1 [9], subclause 6.3.2.3.<br>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<br>N_704 | Reference:    ETS 300 175-5 [5], subclause 13.3.2,<br>**ETS 300 444 [11], subclause 8.22,**<br>ETS 300 323-1 [9], subclause 6.3.2.4.<br>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<br>N_719 | Reference:    ETS 300 175-5 [5], subclause 13.3.3,<br>**ETS 300 444 [11], subclause 8.20,**<br>ETS 300 323-1 [9], subclause 6.3.2.5.<br>Verify that the IUT is able to perform the basic operation of the authentication of FT procedure. |
| TP/FT/MM/BV/AU-05<br>New | Reference:    ETS 300 175-5 [5], subclause 13.3.3,<br>**ETS 300 444 [11], subclause 8.20.2.1, figure 45.**<br>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<br>New | Reference:    ETS 300 175-5 [5], subclause 13.3.3,<br>**ETS 300 444 [11], subclause 8.20.2.1, figure 45.**<br>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<br>N_705<br>N_2360 | Reference: ETS 300 175-5 [5], subclause 13.4.1,<br>**ETS 300 444 [11], subclause 8.25, figure 50,**<br>ETS 300 323-1 [9], subclause 6.3.2.6,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.3.<br>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 broadcast attributes bit a38 was set to 1, and still is 1 |
| TP/FT/MM/BV/LO-02<br>New | Reference: ETS 300 175-5 [5], subclause 13.4.1,<br>**ETS 300 444 [11], subclause 8.25.2.1, figure 51.**<br>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<br>N_734 | Reference: ETS 300 175-5 [5], subclause 13.4.1,<br>**ETS 300 444 [11], subclause 8.25, figure 50,**<br>ETS 300 323-1 [9], subclause 6.3.2.6.<br>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,<br>ETS 300 323-1 [9], subclause 6.3.2.6,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.3.<br>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,<br>**ETS 300 444 [11], subclause 8.26,**<br>ETS 300 323-1 [9], subclause 6.3.2.14.<br>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,<br>**ETS 300 444 [11], subclause 8.26,**<br>ETS 300 323-1 [9], subclause 6.3.2.14.<br>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.

Test purposes:

| TP/FT/MM/BV/AR-01<br>N_707<br>N_2390 | Reference: ETS 300 175-5 [5], subclause 13.5.1,<br>**ETS 300 444 [11], subclause 8.27,**<br>ETS 300 323-1 [9], subclause 6.3.2.9,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.4.<br>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_key_type "AC", and the IUT uses AC for authentication. The IUT shall include the whole Portable Access Rights Key (PARK). |
|---|---|
| TP/FT/MM/BV/AR-02<br>N_733 | Reference: ETS 300 175-5 [5], subclause 13.5.1,<br>**ETS 300 444 [11], subclause 8.27, table 46,**<br>ETS 300 323-1 [9], subclause 6.3.2.9.<br>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<br>N_709<br>N_2393 | Reference: ETS 300 175-5 [5], 13.5.2,<br>**ETS 300 444 [11], subclause 8.28,**<br>ETS 300 323-1 [9], subclause 6.3.2.11,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.4.<br>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<br>N_708<br>N_2395 | Reference: ETS 300 175-5 [5], 13.5.2,<br>ETS 300 323-1 [9], subclause 6.3.2.10,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.4.<br>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<br>N_2397 | Reference: ETS 300 175-5 [5], 13.5.2,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.4.<br>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<br>N_707<br>N_2390 | Reference: ETS 300 175-5 [5], subclause 13.5.1,<br>**ETS 300 444 [11], subclause 8.27,**<br>ETS 300 323-1 [9], subclause 6.3.2.9,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.4.<br>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_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<br>N_733 | Reference: ETS 300 175-5 [5], subclause 13.5.1,<br>**ETS 300 444 [11], subclause 8.27, table 46,**<br>ETS 300 323-1 [9], subclause 6.3.2.9.<br>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<br>N_710<br>N_2420 | Reference:    ETS 300 175-5 [5], subclause 13.6,<br>**ETS 300 444 [11], subclause 8.29,**<br>ETS 300 323-1 [9], subclause 6.3.2.12,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.5.<br>Verify that the IUT, after invocation, is able to perform the basic operation of the key allocation procedure. |
| TP/FT/MM/BV/KA-02<br>New | Reference:    ETS 300 175-5 [5], subclause 13.6,<br>**ETS 300 444 [11], subclause 8.29.2.4, figure 59.**<br>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. |
| | |

### 5.3.3.6 MM/BV/PR

Test subgroup objectives:

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

Test purpose:

| | |
|---|---|
| TP/FT/MM/BV/PR-01<br>N_712,<br>N_2442 | Reference:    ETS 300 175-5 [5], subclause 13.7,<br>ETS 300 323-1 [9], subclause 6.3.2.13,<br>DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.6.<br>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<br>N_714<br>N_2461 | Reference:    ETS 300 175-5 [5], subclause 13.8,<br>       **ETS 300 444 [11], subclause 8.31,**<br>       ETS 300 323-1 [9], subclause 6.3.2.15,<br>       DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.7.<br>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<br>N_714 (doubled in Public Access Profile (PAP))<br>N_2462 | Reference:    ETS 300 175-5 [5], subclause 13.8,<br>       **ETS 300 444 [11], subclause 8.31,**<br>       ETS 300 323-1 [9], subclause 6.3.2.15,<br>       DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.7.<br>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<br>N_713<br>N_2464 | Reference:    ETS 300 175-5 [5], subclause 13.8,<br>       **ETS 300 444 [11], subclause 8.30,**<br>       ETS 300 323-1 [9], subclause 6.3.2.16,<br>       DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.7.<br>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<br>N_713 (see Tree and Tabular Combined Notation (TTCN))<br>N_2464 (see TTCN) | Reference:    ETS 300 175-5 [5], subclause 13.8,<br>       **ETS 300 444 [11], subclause 8.30,**<br>       ETS 300 323-1 [9], subclause 6.3.2.16,<br>       DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.7.<br>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<br>N_2468 | Reference:    ETS 300 175-5 [5], subclause 13.8,<br>       **ETS 300 444 [11], subclause 8.31.2.1, figure 64,**<br>       DEL. 2 Part 7.1 (see annex A), subclause 5.2.2.7.<br>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-06 | Reference:    ETS 300 175-7 [7], subclause 6.4.7<br>       **ETS 300 444 [11], subclause 10.15**<br><br>Verify that the IUT after successful accomplishment of a PT initiated Cipher on procedure can still operate corectly if an intracell bearer handover takes place.<br><br>Note: This test purpose replaces the test purpose for Medium Access Control (MAC) test case TC_FT_BH_BV_00 in ETS 300 497-3 [12] edition 1. Because of the abstract test method for the MAC layer, it's more feasible to verify this test purpose as a NWK layer test case. |
| | |

<div align="center">(continued)</div>

**(continued)**

| TP/FT/MM/BV/CH-07 | Reference: ETS 300 175-7 [7], subclause 6.4.7<br>**ETS 300 444 [11], subclause 10.15**<br><br>Verify that the IUT after successful accomplishment of a FT initiated Cipher on procedure can still operate corectly if an intracell bearer handover takes place.<br><br>Note: This test purpose replaces the test purpose for MAC test case TC_FT_BH_BV_00 in ETS 300 497-3 [12] edition 1. Because of the abstract test method for the MAC layer, it's more feasible to verify this test purpose as a NWK layer test case.. |
| --- | --- |
| TP/FT/MM/BV/CH-08 | Reference: ETS 300 175-7 [7], subclause 6.4.7<br>**ETS 300 444 [11], subclause 10.15**<br><br>Verify that the IUT after successful accomplishment of a PT initiated Cipher on procedure can still operate corectly if an intercell bearer handover takes place.<br><br>Note: This test purpose replaces the test purpose for MAC test case TC_FT_BH_BV_01 in ETS 300 497-3 [12] edition 1. Because of the abstract test method for the MAC layer, it's more feasible to verify this test purpose as a NWK layer test case. |
| TP/FT/MM/BV/CH-09 | Reference: ETS 300 175-7 [7], subclause 6.4.7<br>**ETS 300 444 [11], subclause 10.15**<br><br>Verify that the IUT after successful accomplishment of a FT initiated Cipher on procedure can still operate corectly if an intercell bearer handover takes place.<br><br>Note: This test purpose replaces the test purpose for MAC test case TC_FT_BH_BV_01 in ETS 300 497-3 [12] edition 1. Because of the abstract test method for the MAC layer, it's more feasible to verify this test purpose as a NWK layer test case.. |
| TP/FT/MM/BV/CH-10 | Reference: ETS 300 175-7 [7], subclause 6.4.6<br>**ETS 300 444 [11], subclause 10.14**<br><br>Check that the IUT releases the link (and the underlying basic connection) when it cannot conclude the procedure to switch from clear mode to encrypt mode (PT initiated cipher-switching).<br><br>Note: This test purpose replaces the test purpose for MAC test case TC_FT_DT_BV_00 in ETS 300 497-3 [12] edition 1. Because of the abstract test method for the MAC layer, it's more feasible to verify this test purpose as a NWK layer test case. |
| TP/FT/MM/BV/CH-11 | Reference: ETS 300 175-7 [7], subclause 6.4.6<br>**ETS 300 444 [11], subclause 10.14**<br><br>Check that the IUT releases the link (and the underlying basic connection) when it cannot conclude the procedure to switch from clear mode to encrypt mode (FT initiated cipher-switching).<br><br>Note: This test purpose replaces the test purpose for MAC test case TC_FT_DT_BV_00 in ETS 300 497-3 [12] edition 1. Because of the abstract test method for the MAC layer, it's more feasible to verify this test purpose as a NWK layer test case. |
| | |

(continued)

**(concluded)**

| TP/FT/MM/BV/CH-12 | Reference:     ETS 300 175-7 [7], subclause 6.4.6<br>**ETS 300 444 [11], subclause 10.14**<br><br>Check that the IUT releases the link (and the underlying basic connection) when it cannot conclude the procedure to switch from encrypt mode to clear mode (PT initiated cipher-switching).<br><br>Note: This test purpose replaces the test purpose for MAC test case TC_FT_DT_BV_01 in ETS 300 497-3 [12] edition 1. Because of the abstract test method for the MAC layer, it's more feasible to verify this test purpose as a NWK layer test case. |
|---|---|
| TP/FT/MM/BV/CH-13 | Reference:     ETS 300 175-5 [5], subclause 13.8<br>**ETS 300 444 [11], subclause 8.33**<br><br>Check that the IUT releases the link (and the underlying basic connection) when it cannot conclude the procedure to switch from encrypt mode to clear mode (FT initiated cipher-switching).<br><br>Note: This test purpose replaces the test purpose for MAC test case TC_FT_DT_BV_01 in ETS 300 497-3 [12] edition 1. Because of the abstract test method for the MAC layer, it's more feasible to verify this test purpose as a NWK layer test case. |

### 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.

Test purpose:

| TP/FT/MM/BO-01<br>N_2970 | Reference:     ETS 300 175-5 [5], subclause 17.4.4,<br>**ETS 300 444 [11], subclause 13.1,**<br>DEL. 2 Part 7.1 (see annex A), subclause 5.4.2.<br>Verify that the IUT ignores the unexpected message {IDENTITY-REPLY} as an answer to the 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.

Test purposes:

| TP/FT/MM/BI-01<br>N_2878 | Reference: ETS 300 175-5 [5], subclause 17.4.4,<br>**ETS 300 444 [11], subclause 6.9.4,**<br>DEL. 2 Part 7.1 (see annex A), subclause 5.3.2.1.<br>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.<br>UNTESTABLE |
|---|---|
| TP/FT/MM/BI-02<br>N_2880 | Reference: ETS 300 175-5 [5], subclause 17.6.4,<br>**ETS 300 444 [11], subclause 6.9.4,**<br>DEL. 2 Part 7.1 (see annex A), subclause 5.3.2.1.<br>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>>. |
| TP/FT/MM/BI-03<br>N_2881 | Reference: ETS 300 175-5 [5], subclause 17.6.4,<br>**ETS 300 444 [11], subclause 6.9.4,**<br>DEL. 2 Part 7.1 (see annex A), subclause 5.3.2.1.<br>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>> 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.

Test purposes:

| | |
|---|---|
| TP/FT/MM/TI-01<br>N_736 | Reference:     ETS 300 175-5 [5], subclause 13.2.1,<br>**ETS 300 444 [11], subclause 8.19.2.2,**<br>ETS 300 323-1 [9], subclause 6.3.2.1.<br>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>. |
| TP/FT/MM/TI-02<br>N_738 | Reference:     ETS 300 175-5 [5], subclause 13.3.1,<br>**ETS 300 444 [11], subclause 8.21.2.2,**<br>ETS 300 323-1 [9], subclause 6.3.2.3.<br>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>. |
| TP/FT/MM/TI-03<br>New | Reference:     ETS 300 175-5 [5], subclause 13.3.2,<br>**ETS 300 444 [11], subclause 8.22.2.2.**<br>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>. |
| TP/FT/MM/TI-04<br>N_739 | Reference:     ETS 300 175-5 [5], subclause 13.5.2,<br>**ETS 300 444 [11], subclause 8.28.2.2,**<br>ETS 300 323-1 [9], subclause 6.3.2.11.<br>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>. |
| TP/FT/MM/TI-05<br>N_740 | Reference:     ETS 300 175-5 [5], subclause 13.6,<br>**ETS 300 444 [11], subclause 8.29.2.1,**<br>ETS 300 323-1 [9], subclause 6.3.2.12.<br>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>. |
| TP/FT/MM/TI-06<br>N_741 | Reference:     ETS 300 175-5 [5], subclause 13.8,<br>**ETS 300 444 [11], subclause 8.30.2.1,**<br>ETS 300 323-1 [9], subclause 6.3.2.16.<br>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>. |
| TP/FT/MM/TI-07<br>N_737 | Reference:     ETS 300 175-5 [5], subclause 13.2.2,<br>**ETS 300 444 [11], subclause 8.25,**<br>ETS 300 323-1 [9], subclause 6.3.2.2.<br>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 procedure, and thus allows a new location registration procedure to proceed. |
| TP/FT/MM/TI-08<br>N_737 | Reference:     ETS 300 175-5 [5], subclause 13.2.2,<br>ETS 300 323-1 [9], subclause 6.3.2.2.<br>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>. |

## 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<br>New | Reference: ETS 300 175-5 [5], subclause 15.2.1,<br>**ETS 300 444 [11], subclause 6.9.6.**<br>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<br>New | Reference: ETS 300 175-5 [5], subclause 15.5,<br>**ETS 300 444 [11], subclause 6.9.6.**<br>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<br>New | Reference: ETS 300 175-5 [5], subclause 15.5,<br>**ETS 300 444 [11], subclause 6.9.6.**<br>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:

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

## 5.5 LC

Test group objectives:

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

Subgroups:

- BV;
- BI;
- TI.

### 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.

Test purposes:

| 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 [11], subclause 8.32, figure 65,** DEL. 2 Part 7.1 (see annex A), subclause 5.2.6.<br>Initial state: F-00<br>Verify that the IUT is able to initiate the indirect (paged) FT-initiated link establishment procedure. |
|---|---|
| TP/FT/LC/BV/LE-02 N_2751 | Reference: ETS 300 175-5 [5], subclause 14.2.1 and 14.2.3, **ETS 300 444 [11], subclause 8.32.2.1, figure 66,** DEL. 2 Part 7.1 (see annex A), subclause 5.2.6.<br>Initial state: F-00<br>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 N_2751 | Reference: ETS 300 175-5 [5], subclause 14.2.1 and 14.2.3, **ETS 300 444 [11], subclause 8.32.2.1, figure 66,** DEL. 2 Part 7.1 (see annex A), subclause 5.2.6.<br>Initial state: F-00<br>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 New | Reference: ETS 300 175-5 [5], subclause 14.2.7, **ETS 300 444 [11], subclause 8.34.** <br> Verify that the IUT is able to perform a normal PT initiated link release. |
| TP/FT/LC/BV/LR-02 New | Reference: ETS 300 175-5 [5], subclause 14.2.5, **ETS 300 444 [11], subclause 8.36.** <br> 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 New | Reference: ETS 300 175-5 [5], subclause 14.2.5, **ETS 300 444 [11], subclause 8.36.** <br> Verify that the IUT is able to start the link release after the termination of a call. |
| TP/FT/LC/BV/LR-04 New | Reference: ETS 300 175-5 [5], subclause 14.2.5, **ETS 300 444 [11], subclause 8.36.** <br> 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.

Test purposes:

| TP/FT/LC/BI-01<br>N_2830 | Reference:     ETS 300 175-5 [5], subclause 17.1,<br>                    **ETS 300 444 [11], subclause 6.9.4,**<br>                    DEL. 2 Part 7.1 (see annex A), subclause 5.3.1.<br>Initial state: F-00<br>Verify that the IUT ignores a message containing a protocol discriminator value that indicates a service that is not supported by the IUT. |
|---|---|
| TP/FT/LC/BI-03<br>N_2842 | Reference:     ETS 300 175-5 [5], subclause 17.3.2.1,<br>                    **ETS 300 444 [11], subclause 6.9.4,**<br>                    DEL. 2 Part 7.1 (see annex A), subclause 5.3.1.<br>Initial state: F-02<br>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<br>N_2870 | Reference:     ETS 300 175-5 [5], subclause 17.3.1,<br>                    **ETS 300 444 [11], subclause 6.9.4,**<br>                    DEL. 2 Part 7.1 (see annex A), subclause 5.3.2.1.<br>Verify that the IUT ignores an {AUTH-REQUEST} message containing an illegal transaction identifier. |
| TP/FT/LC/BI-05<br>N_2877 | Reference:     ETS 300 175-5 [5], subclause 17.3.2.5<br>                    **ETS 300 444 [11], subclause 6.9.4**<br>                    DEL. 2 Part 7.1 (see annex A), subclause 5.3.2.1<br>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<br>New | Reference:     ETS 300 175-5 [5], subclause 14.2.1 and 14.2.3,<br>                    **ETS 300 444 [11], subclause 8.32.2.1, figure 66.**<br>Initial state: F-00<br>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 establishment has been invoked. |
| TP/FT/LC/BI-07<br>New | Reference:     ETS 300 175-5 [5], subclause 17.9,<br>                    **ETS 300 444 [11], subclause 8.35.**<br>Initial state: F-10<br>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<br>New | Reference:     ETS 300 175-5 [5], subclause 14.2.7,<br>                   **ETS 300 444 [11], subclause 8.34.1.1.**<br>Verify that the IUT handles the expiry of timer <LCE.01>. correctly.<br>**NOT TESTABLE** |
| :--- | :--- |
| TP/FT/LC/TI-02<br>N_663 | Reference:     ETS 300 175-5 [5], subclause 14.2.7,<br>                   **ETS 300 444 [11], subclause 8.36.1.1,**<br>                   ETS 300 323-1 [9], subclause 6.3.1.6.<br>Initial state: F-00<br>Verify that the IUT, after termination of an MM procedure, maintains the link for a period of <LCE.02>. +- 5%. |

## 5.6 IS

Subgroups:

- BV.

### 5.6.1 IS/BV

Test group objective:

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

Test purposes:

| TP/FT/IS/BV-01<br>N-816<br>N_2505 | Reference:     ETS 300 175-5 [5], subclause 10.3,<br>                   ETS 300 323-1 [9], subclause 6.3.6.3,<br>                   DEL. 2 Part 7.1 (see annex A), subclause 5.2.3.<br>Initial state: F-00<br>To verify that the IUT sends back a <<Feature Indicate>>, upon reception of a set-up of a CISS procedure containing a <<Feature Activate>> information element. |
| :--- | :--- |
| TP/FT/IS/BV-02<br>N_817<br>N_2502, N_2503 | Reference:     ETS 300 175-5 [5], subclause 10.3,<br>                   ETS 300 323-1 [9], subclause 6.3.6.3,<br>                   DEL. 2 Part 7.1 (see annex A), subclause 5.2.3.<br>Initial state: F-00<br>To verify that the IUT sends back a <<Facility>> information element, upon reception of a set-up of a CISS procedure containing a <<Facility>> information element. |
| TP/FT/IS/BV-03<br>N_817<br>N_2500, N_2501 | Reference:     ETS 300 175-5 [5], subclause 10.3,<br>                   ETS 300 323-1 [9], subclause 6.3.6.3,<br>                   DEL. 2 Part 7.1 (see annex A), subclause 5.2.3.<br>Initial state: F-00<br>To verify that the IUT, after invocation, can set-up a CISS procedure <<Facility>> information element. |

## 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.

Test purposes:

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

# Annex A (informative): Bibliography

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4) CEPT Recommendation T/SGT SF2 (89) 6/0: "Draft Recommendation T/SF Services and Facilities of Digital Enhanced Cordless Telecommunications".

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6) ETR 041 "Transmission and Multiplexing (TM); Digital Enhanced Cordless Telecommunications (DECT); Transmission aspects 3,1 kHz telephony Interworking with other networks".

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10) CTS-3/DECT Consortium DEL. 2 Part 6.1, final version (March 1993): "DECT NWK Layer ATS Specification (PT part) - Test Suite Structure and Test Purposes".

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## History

| Document history | | |
|---|---|---|
| August 1996 | First Edition | |
| February 1997 | Public Enquiry | PE 9724: 1997-02-14 to 1997-06-13 |
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