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Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 6: Test Suite Structure and Test Purposes (TSS&TP) specification for the general protocol

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Contents

Foreword

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

This ETS is part 6 of a multi-part standard covering the Integrated Services Digital Network (ISDN) Digital Subscriber Signalling System No. one (DSS1) data link layer specification as described below:

Part 1: "General aspects [ITU-T Recommendation Q.920 (1993), modified]";

Part 2: "General protocol specification [ITU-T Recommendation Q.921 (1993), modified]";

Part 3: "Frame relay protocol specification";

Part 4: "Protocol Implementation Conformance Statement (PICS) proforma specification for the general protocol";

Part 5: "PICS proforma specification for the frame relay protocol";

Part 6: "Test Suite Structure and Test Purposes (TSS&TP) specification for the general protocol";

Part 7: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the general protocol".

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 sixth part of ETS 300 402 specifies the Test Suite Structure and Test Purposes (TSS&TP) at the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [7]) of implementations conforming to the standard for the general data link layer protocol of Digital Subscriber Signalling System No. one (DSS1) for the pan-European Integrated Services Digital Network (ISDN), ETS 300 402-2 [1].

A further part of this ETS specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on this TSS&TP.

2 Normative references

This ETS incorporates by dated and 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 300 402-2 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".

[2] ETS 300 402-4 (1996): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 4: Protocol Implementation Conformance statement (PICS) proforma for the general protocol".

[3] ISO/IEC 9646-1: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".

[4] ISO/IEC 9646-2: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 2: Abstract Test Suite Specification".

[5] ISO/IEC 9646-3: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 3: The Tree and Tabular Combined Notation".

[6] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".

[7] ITU-T Recommendation I.411 (1993): "ISDN user network interfaces - reference configurations".

3 Definitions

For the purposes of this ETS, the following definitions apply, in addition to those given in ETS 300 402-2 [1]:

3.1 Definitions related to conformance testing

abstract test case: Refer to ISO/IEC 9646-1 [3].

Abstract Test Method (ATM): Refer to ISO/IEC 9646-1 [3].

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [3].

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [3].

implicit send event: Refer to ISO/IEC 9646-3 [5].

lower tester: Refer to ISO/IEC 9646-1 [3].

point of control and observation: Refer to ISO/IEC 9646-1 [3].

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1 [3].

PICS proforma: Refer to ISO/IEC 9646-1 [3].

Protocol Implementation eXtra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1 [3].

PIXIT proforma: Refer to ISO/IEC 9646-1 [3].

system under test: Refer to ISO/IEC 9646-1 [3].

Test Purpose (TP): Refer to ISO/IEC 9646-1 [3].

3.2 Definitions related to ETS 300 402-2

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [6], definition 308.

network: The DSS1 protocol entity at the Network side of the user-network interface where a T reference point or coincident S and T reference point applies.

network (S/T): The DSS1 protocol entity at the Network side of the user-network interface where a coincident S and T reference point applies.

network (T): The DSS1 protocol entity at the Network side of the user-network interface where a T reference point applies (user is the private ISDN).

user: The DSS1 protocol entity at the User side of the user-network interface where a T reference point or coincident S and T reference point applies.

user (S/T): The DSS1 protocol entity at the User side of the user-network interface where a coincident S and T reference point applies.

user (T): The DSS1 protocol entity at the User side of the user-network interface where a T reference point applies (User is the private ISDN).

4 Abbreviations

For the purposes of this ETS, the following abbreviations apply, in addition to those given in ETS 300 402-2 [1]:

ATM	Abstract Test Method
ATS	Abstract Test Suite
DSS1	Digital Subscriber Signalling System No. one
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
TP	Test Purpose
TSS	Test Suite Structure

5 Test Suite Structure (TSS)

- Layer management
  - User
    - DL state 1
      - Valid behaviour
      - Syntactically invalid
    - DL state 3
      - Valid behaviour
      - Syntactically invalid
      - Timers
      - Counters
    - DL state 4
      - Valid behaviour
      - Inopportune behaviour
      - Syntactically invalid
      - Timers
    - DL state 5.0
      - Valid behaviour
      - Inopportune behaviour
      - Counters
    - DL state 6.0
      - Valid behaviour
      - Inopportune behaviour
      - Counters
    - DL state 7.0
      - Valid behaviour
      - Inopportune behaviour
    - DL state 8.0
      - Valid behaviour
      - Inopportune behaviour
  - Network
    - DL state 1
      - Valid behaviour
      - Inopportune behaviour
      - Syntactically invalid
    - DL state 4
      - Valid behaviour
      - Inopportune behaviour
      - Syntactically invalid
      - Timers
    - DL state 5.0
      - Inopportune behaviour
      - Counters
    - DL state 6.0
      - Inopportune behaviour
      - Counters
    - DL state 7.0
      - Inopportune behaviour
    - DL state 8.0
      - Inopportune behaviour
- Data control
  - DL state 1
    - Valid behaviour
  - DL state 3
    - Valid behaviour
  - DL state 4
    - Valid behaviour
    - Inopportune behaviour
    - Syntactically invalid

Figure 1 (sheet 1 of 2): Test suite structure

- DL state 5.0
  - Valid behaviour
  - Inopportune behaviour
  - Syntactically invalid
  - Timers
- DL state 5.1
  - Valid behaviour
- DL state 6.0
  - Valid behaviour
  - Inopportune behaviour
  - Syntactically invalid
  - Timers
- DL state 7.0
  - Valid behaviour
  - Inopportune behaviour
  - Syntactically invalid
- DL state 7.0 with outstanding I frames
  - Valid behaviour
  - Inopportune behaviour
  - Timers
- DL state 7.1
  - Valid behaviour
  - Inopportune behaviour
- DL state 7.4
  - Valid behaviour
  - Inopportune behaviour
  - Syntactically invalid
- DL state 7.4 with outstanding I frames
  - Valid behaviour
  - Inopportune behaviour
  - Timers
- DL state 7.5
  - Valid behaviour
  - Inopportune behaviour
- DL state 8.0
  - Valid behaviour
  - Inopportune behaviour
  - Syntactically invalid
- DL state 8.0 with outstanding I frames
  - Valid behaviour
  - Inopportune behaviour
  - Timers
  - Counters
- DL state 8.1
  - Valid behaviour
  - Inopportune behaviour
- DL state 8.4
  - Valid behaviour
  - Inopportune behaviour
  - Syntactically invalid
- DL state 8.4 with outstanding I frames
  - Valid behaviour
  - Inopportune behaviour
  - Timers
  - Counters
- DL state 8.5
  - Valid behaviour
  - Inopportune behaviour

Figure 1 (sheet 2 of 2): Test suite structure

6 Test purposes (TP)

6.1 Introduction

For each test requirement, a TP is defined.

6.1.1 Test purpose naming convention

TPs are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see table 1).

Table 1: TP identifier naming convention scheme

Identifier:		**<suite><side>_<category><state>_<group>_<n>**	
<suite>	=	suite	L2 = layer 2
<side>	=	side	U = user N = network C = combined (user and network)
<category>	=	procedure category	L Layer management D Data control
<state>	=	data link entity state	e.g.: 70, 4, 81, etc.
<group>	=	group	one character representing group reference according to TSS: V: Valid stimulus I: Inopportune stimulus S: Syntactically stimulus T: timers C: counters
<n>	=	sequential number	(1-99)

6.1.2 Source of TP definition

The TPs are based on ETS 300 402-2 [1].

6.1.3 TP structure

Each TP has been written in a manner which is consistent with all other TPs. The intention of this is to make the TPs more readable and checkable. A particular structure has been used which is illustrated in table 2. This table should be read in conjunction with any TP, i.e. please use a TP as an example to facilitate the full comprehension of table 2.

Table 2: Structure of a single TP

TP part	Text	Example
Header	**<Identifier>** *tab* **<paragraph number in base ETS>** *tab* **<reference to state transition table in base ETS>** *[opt.]* **<reference to I-ETS 300 313 test case>** *or* **new TC**	see table 1 **subclause 5.3.1** **table D.1/2-1** (see note 2) **TC11001** (see note 3)
Stimulus	Ensure that the IUT in the <DL entity state> <trigger> *see below for message structure* *or* <goal>	 (see note 4) receiving a XXXX frame to request a ...
Reaction	<action> *if the action is sending* *see below for frame structure* <next action>, *etc.* and enters state *and/or* and remains in the same state(s) *or* and enters state <state>	transmits, does, etc.
Message structure	<frame type> frame containing a *a)* <field name> field name with <coding of the field> and *back to a)*	UI, I, SABME, etc. TEI, C/R, INFO, P/F, N(R), etc.
NOTE 1:	Text in italics will not appear in TPs and text between <> is filled in for each TP and may differ from one TP to the next.	
NOTE 2:	All references to state transition tables are to annex D of ITU Recommendation Q.921 as modified by ETS 300 402-2 [1] (e.g. "Table D.1/2-3" refers to the state transition table D.1, sheet 2, line 3).	
NOTE 3:	These references to I-ETS 300 313 helped in developing this ETS and are of a purely informative nature.	
NOTE 4:	The DL entity state by the start of the test case is the one corresponding to the test group. (e.g. in group L70, all the test cases shall be executed from the state 7.0).	

6.1.4 Test strategy

As the base standard ETS 300 402-2 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and PICS specification ETS 300 402-4 [2]. The criteria applied include the following:

- only the requirements from the point of view of the T or coincident S and T reference point are considered;

- whether or not a test case can be built from the test purpose is not considered;

- as a consequence of the test method used, all information units shall be expressed in term of Protocol Data Units (PDUs). The use of primitives is considered to be not acceptable.

6.2 TPs for DSS1 layer 2

All PICS items referred to in this subclause are as specified in ETS 300 402-4 [2] unless indicated otherwise by another numbered reference.

6.2.1 Layer Management

Selection: IUT supports TEI management procedures. PICS: MCu 3.

6.2.1.1 User

Selection: IUT supports the user role. PICS: R 2.1

6.2.1.1.1 DL state 1

6.2.1.1.1.1 Valid behaviour

L2U_L10_V_1 subclause 5.3.2, table D.1/1-1 TC11004
Ensure that the IUT, in the state 1, having been requested to establish the data link,
transmits an UI frame with an Identity request message and enters the state 3.
Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

L2U_L10_V_2 subclause 5.3.3.2 TC11001
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity check request message with Ai = 127,
transmits no frame and remains in the same state.

L2U_L10_V_3 subclause 5.3.3.2 TC11002
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity check request message with Ai = automatic TEI value,
transmits no frame and remains in the same state.
NOTE 1: A random function can be used to generate the Ai value between 64 and 126.

L2U_L10_V_4 subclause 5.3.3.2 TC11003
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity check request message with Ai = non-automatic TEI value,
transmits no frame and remains in the same state.
NOTE 2: A random function can be used to generate the Ai value between 0 and 63.

L2U_L10_V_5 subclause 5.3.4 TC11005
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity remove message with Ai = 127,
transmits no frame and remains in the same state.

L2U_L10_V_6 subclause 5.3.4 TC11006
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity remove message with Ai = automatic TEI value,
transmits no frame and remains in the same state.
NOTE 3: A random function can be used to generate the Ai value between 64 and 126.

L2U_L10_V_7 subclause 5.3.4 TC11007
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity remove message with Ai = non-automatic TEI value,
transmits no frame and remains in the same state.
NOTE 4: A random function can be used to generate the Ai value between 0 and 63.

L2U_L10_V_8 subclause 5.3.2 TC11008
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity assigned message with Ai = automatic TEI value,
transmits no frame and remains in the same state.
NOTE 5: A random function can be used to generate the Ai value between 64 and 126.

L2U_L10_V_9 subclause 5.3.2 TC11010
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity denied message with Ai = 127,
transmits no frame and remains in the same state.

L2U_L10_V_10 subclause 5.3.2 TC11011
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity denied message with Ai = automatic TEI value,
transmits no frame and remains in the same state.
NOTE 6: A random function can be used to generate the Ai value between 64 and 126.

6.2.1.1.1.2 Inopportune behaviour

L2U_L10_I_1 subclause 3.3 TC11013
Ensure that the IUT, in the state 1, on receipt of an UI frame with a TEI value ≠ 127, containing a layer 3 message requesting a response,
transmits no frame and remains in the same state.
NOTE 1: A random function can be used to generate the Ai value between 64 and 126.

L2U_L10_I_2 subclause 3.3 TC11014
Ensure that the IUT, in the state 1, on receipt of a SABME frame with P = 1,
transmits no frame and remains in the same state.
NOTE 2: A random function can be used to generate the TEI value between 0 and 126.

L2U_L10_I_3 subclause 3.3 TC11015
Ensure that the IUT, in the state 1, on receipt of a DISC frame with P = 1,
transmits no frame and remains in the same state.
NOTE 3: A random function can be used to generate the TEI value between 0 and 126.

L2U_L10_I_4 subclause 3.3 TC11016
Ensure that the IUT, in the state 1, on receipt of a DM frame with F = 1,
transmits no frame and remains in the same state.
NOTE 4: A random function can be used to generate the TEI value between 0 and 126.

L2U_L10_I_5 subclause 3.3 TC11017
Ensure that the IUT, in the state 1, on receipt of an UA frame with F = 1,
transmits no frame and remains in the same state.
NOTE 5: A random function can be used to generate the TEI value between 0 and 126.

L2U_L10_I_6 subclause 3.3 TC11018
Ensure that the IUT, in the state 1, on receipt of a RR command frame with P = 1,
transmits no frame and remains in the same state.
NOTE 6: A random function can be used to generate the TEI value between 0 and 126.

L2U_L10_I_7 subclause 3.3 TC11022
Ensure that the IUT, in the state 1, on receipt of an I frame with P = 1, containing a layer 3 message,
transmits no frame and remains in the same state.
NOTE 7: A random function can be used to generate the TEI value between 0 and 126.

6.2.1.1.1.3 Syntactically invalid behaviour

L2U_L10_S_1 subclause 2.9 a) new TC
Ensure that the IUT, in the state 1, on receipt of an UI frame containing a layer 3 message requesting a response, with a TEI value = 127, and without closing flag,
transmits no frame and remains in the same state.

L2U_L10_S_2 subclause 2.9 b) new TC
Ensure that the IUT, in the state 1, on receipt of a frame containing 4 octets between flags (without control field octet),
transmits no frame and remains in the same state.

L2U_L10_S_3 subclause 2.9 b) **new TC**
Ensure that the IUT, in the state 1, on receipt of a RR frame containing 5 octets between flags (without the second control field octet),
transmits no frame and remains in the same state.

L2U_L10_S_4 subclause 2.9 c) **new TC**
Ensure that the IUT, in the state 1, on receipt of an UI frame containing a layer 3 message requesting a response, with a TEI value = 127 and which does not consist of an integral number of octets,
transmits no frame and remains in the same state.

L2U_L10_S_5 subclause 2.9 d) **TC11026**
Ensure that the IUT, in the state 1, on receipt of an UI frame containing a layer 3 message requesting a response, with a TEI value = 127 and with a FCS error,
transmits no frame and remains in the same state.

L2U_L10_S_6 subclause 2.9 e) **new TC**
Ensure that the IUT, in the state 1, on receipt of an UI frame with a single octet address field, , containing a layer 3 message requesting a response,
transmits no frame and remains in the same state.

L2U_L10_S_7 subclause 2.9 f) **new TC**
Ensure that the IUT, in the state 1, on receipt of an UI frame containing a layer 3 message requesting a response, with a SAPI value not supported and a TEI value = 127,
transmits no frame and remains in the same state.

L2U_L10_S_8 subclause 3.3.2 **TC11027**
Ensure that the IUT, in the state 1, on receipt of an UI frame containing , a layer 3 message requesting a response, with a TEI value = 127 and with an erroneous C/R bit value,
transmits no frame and remains in the same state.

L2U_L10_S_9 subclause 3.3.1 **TC11028**
Ensure that the IUT, in the state 1, on receipt of an UI frame containing a layer 3 message requesting a response, with a TEI value = 127 and with an erroneous EA bit value in the first address field octet,
transmits no frame and remains in the same state.

L2U_L10_S_10 subclause 3.3.1 **TC11029**
Ensure that the IUT, in the state 1, on receipt of an UI frame containing a layer 3 message requesting a response, with a TEI value = 127 and with an erroneous EA bit value in the second address field octet,
transmits no frame and remains in the same state.

L2U_L10_S_11 subclauses 3.6.1, 5.8.5 **TC11024**
Ensure that the IUT, in the state 1, on receipt of an undefined frame,
transmits no frame and remains in the same state.

L2U_L10_S_12 subclauses 5.8.5, 5.9.3 **new TC**
Ensure that the IUT, in the state 1, on receipt of an UI frame with a TEI value = 127, containing a layer 3 message requesting a response with a length exceeding N201,
transmits no frame and remains in the same state.

6.2.1.1.2 DL state 3

Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

6.2.1.1.2.1 Valid behaviour

L2U_L30_V_1 subclause 5.3.2, table D.1/1-8 **TC13007**
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity assigned message with Ri = own Ri value and Ai = automatic TEI value,
transmits a SABME frame with P = 1 and enters the state 5.0.
NOTE 1: A random function can be used to generate the Ai value between 64 and 126.

L2U_L30_V_2 subclause 5.3.2 new TC
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity assigned message with Ri = other Ri value and Ai = automatic TEI value,
transmits no frame and remains in the same state.

L2U_L30_V_3 subclause 5.3.2, table D.1/1-10 TC13008
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity denied message with Ri = own Ri value and with Ai = 127,
transmits no frame and enters the state 1.

L2U_L30_V_4 subclause 5.3.2 new TC
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity denied message with Ri = other Ri value and with Ai = automatic TEI value,
transmits no frame and remains in the same state.
NOTE 2: A random function can be used to generate the Ai value between 64 and 126.

L2U_L30_V_5 subclause 5.3.3.2 TC13001
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity check request message with Ai = 127,
transmits no frame and remains in the same state.

L2U_L30_V_6 subclause 5.3.3.2 TC13002
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity check request message with Ai = automatic TEI value,
transmits no frame and remains in the same state.
NOTE 3: A random function can be used to generate the Ai value between 64 and 126.

L2U_L30_V_7 subclause 5.3.3.2 TC13003
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity check request message with Ai = non-automatic TEI value,
transmits no frame and remains in the same state.
NOTE 4: A random function can be used to generate the Ai value between 0 and 63.

L2U_L30_V_8 subclause 5.3.4 TC13004
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity remove message with Ai = 127,
transmits no frame and remains in the same state.

L2U_L30_V_9 subclause 5.3.4 TC13005
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity remove message with Ai = automatic TEI value,
transmits no frame and remains in the same state.
NOTE 5: A random function can be used to generate the Ai value between 64 and 126.

L2U_L30_V_10 subclause 5.3.4 TC13006
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity remove message with Ai = non-automatic TEI value,
transmits no frame and remains in the same state.
NOTE 6: A random function can be used to generate the Ai value between 0 and 63.

6.2.1.1.1.2 Inopportune behaviour

L2U_L30_I_1 subclause 3.3 TC13011
Ensure that the IUT, in the state 3, on receipt of an UI frame with a TEI value ≠ 127, containing a layer 3 message requesting a response,
transmits no frame and remains in the same state.
NOTE 1: A random function can be used to generate the TEI value between 0 and 126.

L2U_L30_I_2 subclause 3.3 TC13017
Ensure that the IUT, in the state 3, on receipt of a SABME frame with P = 1,
transmits no frame and remains in the same state.
NOTE 2: A random function can be used to generate the TEI value between 0 and 126.

L2U_L30_I_3 subclause 3.3 TC13018
Ensure that the IUT, in the state 3, on receipt of a DISC frame with P = 1,
transmits no frame and remains in the same state.
NOTE 3: A random function can be used to generate the TEI value between 0 and 126.

L2U_L30_I_4 subclause 3.3 TC13019
Ensure that the IUT, in the state 3, on receipt of a DM frame with F = 1,
transmits no frame and remains in the same state.
NOTE 4: A random function can be used to generate the TEI value between 0 and 126.

L2U_L30_I_5 subclause 3.3 TC13020
Ensure that the IUT, in the state 3, on receipt of an UA frame with F = 1,
transmits no frame and remains in the same state.
NOTE 5: A random function can be used to generate the TEI value between 0 and 126.

L2U_L30_I_6 subclause 3.3 TC13021
Ensure that the IUT, in the state 3, on receipt of a RR command frame with P = 1,
transmits no frame and remains in the same state.
NOTE 6: A random function can be used to generate the TEI value between 0 and 126.

L2U_L30_I_7 subclause 3.3 TC13025
Ensure that the IUT, in the state 3, on receipt of an I frame with P = 1, containing a layer 3 message,
transmits no frame and remains in the same state.
NOTE 7: A random function can be used to generate the TEI value between 0 and 126.

6.2.1.1.2.3 Syntactically invalid behaviour

L2U_L30_S_1 subclause 5.3.2 new TC
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity assigned message with Ri = own Ri value and Ai = non-automatic TEI value,
transmits no frame and remains in the same state.
NOTE 1: A non-automatic TEI value is not allowed in the Ai field of an Identity assigned message.

L2U_L30_S_2 subclause 5.3.2 new TC
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity assigned message with Ri = own Ri value and Ai = 127,
transmits no frame and remains in the same state.
NOTE 2: 127 is not allowed in the Ai field of an Identity assigned message.

L2U_L30_S_3 subclause 5.3.2 new TC
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity denied message with Ri = own Ri value and Ai = non-automatic TEI value,
transmits no frame and remains in the same state.
NOTE 3: A non-automatic TEI value is not allowed in the Ai field of an Identity denied message.

L2U_L30_S_4 subclause 2.9 a) new TC
Ensure that the IUT, in the state 3, on receipt of an UI frame, containing an Identity assigned message with Ai = automatic TEI value, without closing flag,
transmits no frame and remains in the same state.

L2U_L30_S_5 subclause 2.9 b) new TC
Ensure that the IUT, in the state 3, on receipt of a frame containing 4 octets between flags (without control field octet),
transmits no frame and remains in the same state.

L2U_L30_S_6 subclause 2.9 b) new TC
Ensure that the IUT, in the state 3, on receipt of a RR frame containing 5 octets between flags (without the second control field octet),
transmits no frame and remains in the same state.

L2U_L30_S_7 subclause 2.9 c) **new TC**
Ensure that the IUT, in the state 3, on receipt of an UI frame, containing an Identity assigned message with Ai = automatic TEI value, which does not consist of an integral number of octets,
transmits no frame and remains in the same state.

L2U_L30_S_8 subclause 2.9 d) **TC13029**
Ensure that the IUT, in the state 3, on receipt of an UI frame, containing an Identity assigned message with Ai = automatic TEI value, with a FCS error,
transmits no frame and remains in the same state.

L2U_L30_S_9 subclause 2.9 e) **new TC**
Ensure that the IUT, in the state 3, on receipt of an UI frame with a single octet address field, containing an Identity assigned message with Ai = automatic TEI value,
transmits no frame and remains in the same state.

L2U_L30_S_10 subclause 2.9 f) **new TC**
Ensure that the IUT, in the state 3, on receipt of an UI frame, containing an Identity assigned message with Ai = automatic TEI value, with a SAPI not supported,
transmits no frame and remains in the same state.

L2U_L30_S_11 subclause 3.3.2 **TC13033**
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity assigned message with Ai = automatic TEI value with an erroneous C/R bit value,
transmits no frame and remains in the same state.

L2U_L30_S_12 subclause 3.3.1 **TC13034**
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity assigned message with Ai = automatic TEI value with an erroneous EA bit value in the first address field octet,
transmits no frame and remains in the same state.

L2U_L30_S_13 subclause 3.3.1 **TC13035**
Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity assigned message with Ai = automatic TEI value with an erroneous EA bit value in the second address field octet,
transmits no frame and remains in the same state.

L2U_L30_S_14 subclauses 3.6.1, 5.8.5 **new TC**
Ensure that the IUT, in the state 3, on receipt of an undefined frame,
transmits no frame and remains in the same state.

L2U_L30_S_15 subclauses 5.8.5, 5.9.3 **new TC**
Ensure that the IUT, in the state 3, on receipt of an UI frame with a TEI value = 127, containing an information field with a length exceeding N201,
transmits no frame and remains in the same state.

6.2.1.1.2.3 Timers

L2U_L30_T_1 subclause 5.3.2.1 **new TC**
Ensure that the IUT, in the state 3, on expiry of the timer T202,
transmits an UI frame with an Identity request message with a new Ri value and remains in the same state.

6.2.1.1.2.4 Counters

L2U_L30_C_1 subclause 5.3.2.1 **new TC**
Ensure that the IUT, in the state 3, having transmitted N202 time an UI frame with an Identity request message, on expiry of the timer T202,
transmits no frame and enters the state 1.

6.2.1.1.3 DL state 4

6.2.1.1.3.1 Valid behaviour

L2U_L40_V_1 subclause 5.3.2 **TC14015**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity assigned message with Ai = other automatic TEI value,
transmits no frame and remains in the same state.

L2U_L40_V_2 subclause 5.3.2 **TC14016**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity denied message with Ai = 127,
transmits no frame and remains in the same state.

L2U_L40_V_3 subclause 5.3.2 **TC14018**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity denied message with Ai = other automatic TEI value,
transmits no frame and remains in the same state.

L2U_L40_V_4 subclause 5.3.3.1 **TC14001**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity check request message with Ai = 127,
transmits an UI frame containing an Identity check response message with Ai = own TEI value and remains in the same state.

L2U_L40_V_5 subclause 5.3.3.2 **TC14002**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity check request message with Ai = own TEI value,
transmits an UI frame containing an Identity check response message with Ai = own TEI value and remains in the same state.

L2U_L40_V_6 subclause 5.3.3.2 **TC14003**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity check request message with Ai = other TEI value,
transmits no frame and remains in the same state.

L2U_L40_V_7 subclause 5.3.4 **TC14004**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity remove message with Ai = 127,
transmits an UI frame containing an Identity request message and enters the state 1.
Selection: IUT supports the automatic TEI assignment procedures. MCu 3.1.1.

L2U_L40_V_8 subclause 5.3.4 **TC14004**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity remove message with Ai = 127,
transmits no frame and enters the state 1.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

L2U_L40_V_9 subclause 5.3.4 **TC14005**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity remove message with Ai = own TEI value,
transmits an UI frame containing an Identity request message and enters the state 1.
Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

L2U_L40_V_10 subclause 5.3.4 **TC14005**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity remove message with Ai = own TEI value,
transmits no frame and enters the state 1.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

L2U_L40_V_11 subclause 5.3.4 TC14010
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity remove message with Ai = other TEI value,
transmits no frame and remains in the same state.

6.2.1.1.3.2 Inopportune behaviour

L2U_L40_I_1 subclause 5.3.2, 5.3.4 TC14011, TC14014
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity assigned message with Ai = own TEI value,
transmits an UI frame containing an Identity request message and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.
Selection: SCu 1.2 AND MCu 3.1.1.
NOTE 1: The Identity assigned message will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L40_I_2 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-7 TC24007
Ensure that the IUT, in the state 4, on receipt of an unsolicited UA frame with F = 1 (MDL error C),
transmits an UI frame containing an Identity request message and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.
Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.
NOTE 2: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).`

L2U_L40_I_3 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-7 TC24007
Ensure that the IUT, in the state 4, on receipt of an unsolicited UA frame with F = 1 (MDL error C),
transmits no frame and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.
NOTE 3: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L40_I_4 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 TC24008
Ensure that the IUT, in the state 4, on receipt of an unsolicited UA frame with F = 0 (MDL error D),
transmits an UI frame containing an Identity request message and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.
Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.
NOTE 4: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L40_I_5 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 TC24008
Ensure that the IUT, in the state 4, on receipt of an unsolicited UA frame with F = 0 (MDL error D),
transmits no frame and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.
NOTE 5: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L40_I_6 subclause 5.3.2 TC14017
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity denied message with Ai = own TEI value,
transmits no frame and remains in the same state.

L2U_L40_I_7 subclause 3.3.4 TC14025
Ensure that the IUT, in the state 4, on receipt of an UI frame, with a TEI value not currently assigned, containing a layer 3 message requesting a response,
transmits no frame and remains in the same state.
NOTE 6: A function can be used to generate a TEI value not currently assigned.

L2U_L40_I_8 subclause 3.3.4 TC14026
Ensure that the IUT, in the state 4, on receipt of a SABME frame, with a TEI value not currently assigned, with P = 1,
transmits no frame and remains in the same state.
NOTE 7: A function can be used to generate a TEI value not currently assigned.

L2U_L40_I_9 subclause 3.3.4 TC14027
Ensure that the IUT, in the state 4, on receipt of a DISC frame, with a TEI value not currently assigned, with P = 1,
transmits no frame and remains in the same state.
NOTE 8: A function can be used to generate a TEI value not currently assigned.

L2U_L40_I_10 subclause 3.3.4 TC14028
Ensure that the IUT, in the state 4, on receipt of a DM frame, with a TEI value not currently assigned, with F = 1,
transmits no frame and remains in the same state.
NOTE 9: A function can be used to generate a TEI value not currently assigned.

L2U_L40_I_11 subclause 3.3.4 TC14029
Ensure that the IUT, in the state 4, on receipt of an UA frame, with a TEI value not currently assigned, with F = 1,
transmits no frame and remains in the same state.
NOTE 10: A function can be used to generate a TEI value not currently assigned.

L2U_L40_I_12 subclause 3.3.4 TC14030
Ensure that the IUT, in the state 4, on receipt of a RR command frame, with a TEI value not currently assigned, with P = 1,
transmits no frame and remains in the same state.
NOTE 11: A function can be used to generate a TEI value not currently assigned.

L2U_L40_I_13 subclause 3.3.4 TC14034
Ensure that the IUT, in the state 4, on receipt of an I frame, with a TEI value not currently assigned, with P = 1, containing a layer 3 message,
transmits no frame and remains in the same state.
NOTE 12: A function can be used to generate a TEI value not currently assigned.

6.2.1.1.3.3 Syntactically invalid behaviour

L2U_L40_S_1 subclause 2.9 a) new TC
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity check request message with Ai = 127, without closing flag,
transmits no frame and remains in the same state.

L2U_L40_S_2 subclause 2.9 b) new TC
Ensure that the IUT, in the state 4, on receipt of a frame containing 4 octets between flags (without control field octet),
transmits no frame and remains in the same state.

L2U_L40_S_3 subclause 2.9 b) new TC
Ensure that the IUT, in the state 4, on receipt of a RR frame containing 5 octets between flags (without the second control field octet),
transmits no frame and remains in the same state.

L2U_L40_S_4 subclause 2.9 c) **new TC**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity check request message with Ai = 127, which does not consist of an integral number of octets,
transmits no frame and remains in the same state.

L2U_L40_S_5 subclause 2.9 d) **new TC**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity check request message with Ai = 127, with a FCS error,
transmits no frame and remains in the same state.

L2U_L40_S_6 subclause 2.9 e) **new TC**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity check request message with Ai = 127 with a single octet address field,
transmits no frame and remains in the same state.

L2U_L40_S_7 subclause 2.9 f) **new TC**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity check request message with Ai = 127, with a SAPI not supported,
transmits no frame and remains in the same state.

L2U_L40_S_8 subclause 3.3.2 **TC14036**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity check request message with Ai = 127 containing an Identity assigned message with Ai = current TEI value with an erroneous C/R bit value,
transmits no frame and remains in the same state.

L2U_L40_S_9 subclause 3.3.1 **TC14037**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity check request message with Ai = 127 containing an Identity assigned message with Ai = current TEI value with an erroneous EA bit value in the first address field octet,
transmits no frame and remains in the same state.

L2U_L40_S_10 subclause 3.3.1 **TC14038**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity check request message with Ai = 127 containing an Identity assigned message with Ai = current TEI value with an erroneous EA bit value in the second address field octet,
transmits no frame and remains in the same state.

L2U_L40_S_11 subclauses 3.6.1, 5.8.5 **new TC**
Ensure that the IUT, in the state 4, on receipt of an undefined frame,
transmits no frame and remains in the same state.

L2U_L40_S_12 subclauses 5.8.5, 5.9.3 **new TC**
Ensure that the IUT, in the state 4, on receipt of an UI frame with a TEI value = 127, containing an information field with a length exceeding N201,
transmits no frame and remains in the same state.

6.2.1.1.3.4 Timers

L2U_L40_T_1 subclause 5.3.5.2 **new TC**
Ensure that the IUT, in the state 4, having transmitted an UI frame containing an Identity verify message with Ai = own TEI value, on expiry of the timer T202,
transmits an second UI frame containing an Identity verify message with Ai = own TEI value and remains in the same state.
Selection: SCu 1.4.2 AND MCu 3.1.1.
NOTE: The sending of an Identity verify message will be provoked by sending to the IUT an UA frame with own TEI value assuming a duplicate TEI assignment.

6.2.1.1.3.5 Counters

L2U_L40_C_1 subclause 5.3.5.2, 5.3.4 new TC

Ensure that the IUT, in the state 4, having transmitted 2 times an UI frame containing an Identity verify message with Ai = own TEI value, on expiry of the timer T202,

transmits an UI frame containing an Identity request message and enters the state 1.

Selection: SCu 1.4.2 AND MCu 3.1.1.

NOTE 1: The sending of an Identity verify message will be provoked by sending to the IUT an UA frame with own TEI value assuming a duplicate TEI assignment.

L2U_L40_C_2 subclause 5.3.5.2, 5.3.4 new TC

Ensure that the IUT, in the state 4, having transmitted 2 times an UI frame containing an Identity verify message with Ai = own TEI value, on expiry of the timer T202,

transmits no frame and enters the state 1.

Selection: SCu 1.4.2 AND MCu 3.1.2.

NOTE 2: The sending of an Identity verify message will be provoked by sending to the IUT an UA frame with own TEI value assuming a duplicate TEI assignment.

6.2.1.1.4 DL state 5.0

6.2.1.1.4.1 Valid behaviour

L2U_L50_V_1 subclause 5.3.4 TC15001

Ensure that the IUT, in the state 5.0, on receipt of an UI frame containing an Identity remove message with Ai = 127,

transmits an UI frame containing an Identity request message and enters the state 1.

Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

L2U_L50_V_2 subclause 5.3.4 TC15001

Ensure that the IUT, in the state 5.0, on receipt of an UI frame containing an Identity remove message with Ai = 127,

transmits no frame and enters the state 1.

Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

L2U_L50_V_3 subclause 5.3.4 TC15002

Ensure that the IUT, in the state 5.0, on receipt of an UI frame containing an Identity remove message with Ai = own TEI value,

transmits an UI frame containing an Identity request message and enters the state 1.

Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

L2U_L50_V_4 subclause 5.3.4 TC15002

Ensure that the IUT, in the state 5.0, on receipt of an UI frame containing an Identity remove message with Ai = own TEI value,

transmits no frame and enters the state 1.

Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

L2U_L50_V_5 subclause 5.3.4 TC15005

Ensure that the IUT, in the state 5.0, on receipt of an UI frame containing an Identity remove message with Ai = other TEI value,

transmits no frame and remains in the same state.

6.2.1.1.4.2 Inopportune behaviour

L2U_L50_I_1 subclause 5.3.2, 5.3.4 new TC

Ensure that the IUT, in the state 5.0, on receipt of an UI frame containing an Identity assigned message with Ai = own TEI value,

transmits an UI frame containing an Identity request message and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.

Selection: SCu 1.2 AND MCu 3.1.1.

NOTE 1: The Identity assigned message will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L50_I_2 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 TC25011

Ensure that the IUT, in the state 5.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),

transmits an UI frame containing an Identity request message and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.

Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

NOTE 2: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L50_I_3 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 TC25011

Ensure that the IUT, in the state 5.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),

transmits no frame and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.

Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

NOTE 3: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

6.2.1.1.4.3 Counters

L2U_L50_C_1 subclause 5.5.1.3, table II.1, table D.1/9-2 TC25031

Ensure that the IUT in state 5.0, having retransmitted N200 times SABME frames with P = 1, on expiry of timer T200,

transmits an UI frame containing an Identity request message and enters state 1;
or
transmits an UI frame containing an Identity verify message and enters state 4.

Selection: IUT supports the automatic TEI assignment procedures, PICS: MCu 3.1.1.

L2U_L50_C_2 subclause 5.5.1.3, table II.1, table D.1/9-2 TC25031

Ensure that the IUT in state 5.0, having retransmitted N200 times SABME frames with P = 1, on expiry of timer T200,

transmits no frame and enters state 1;
or
transmits an UI frame containing an Identity verify message and enters state 4.

Selection: IUT supports the non-automatic TEI assignment procedures, PICS: MCu 3.1.2.

6.2.1.1.5 DL state 6.0

6.2.1.1.5.1 Valid behaviour

L2U_L60_V_1 subclause 5.3.4 TC16001

Ensure that the IUT, in the state 6.0, on receipt of an UI frame containing an Identity remove message with Ai = 127,

transmits an UI frame containing an Identity request message and enters the state 1.

Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

L2U_L60_V_2 subclause 5.3.4 TC16001
Ensure that the IUT, in the state 6.0, on receipt of an UI frame containing an Identity remove message with Ai = 127,
transmits no frame and enters the state 1.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

L2U_L60_V_3 subclause 5.3.4 TC16002
Ensure that the IUT, in the state 6.0, on receipt of an UI frame containing an Identity remove message with Ai = own TEI value,
transmits an UI frame containing an Identity request message and enters the state 1.
Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

L2U_L60_V_4 subclause 5.3.4 TC16002
Ensure that the IUT, in the state 6.0, on receipt of an UI frame containing an Identity remove message with Ai = own TEI value,
transmits no frame and enters the state 1.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

L2U_L60_V_5 subclause 5.3.4 TC16005
Ensure that the IUT, in the state 6.0, on receipt of an UI frame containing an Identity remove message with Ai = other TEI value,
transmits no frame and remains in the same state.

6.2.1.1.5.2 Inopportune behaviour

L2U_L60_I_1 subclause 5.3.2, 5.3.4 new TC
Ensure that the IUT, in the state 6.0, on receipt of an UI frame containing an Identity assigned message with Ai = own TEI value,
transmits an UI frame containing an Identity request message and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.
Selection: SCu 1.2 AND MCu 3.1.1.
NOTE 1: The Identity assigned message will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L60_I_2 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 TC26010
Ensure that the IUT, in the state 6.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),
transmits an UI frame containing an Identity request message and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.
Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.
NOTE 2: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L60_I_3 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 TC26010
Ensure that the IUT, in the state 6.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),
transmits no frame and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.
NOTE 3: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

6.2.1.1.5.3 Counters

L2U_L60_C_1 subclause 5.5.1.3, table II.1, table D.1/9-2 new TC
Ensure that the IUT in state 6.0, having retransmitted N200 times DISC frames with P = 1, on expiry of timer T200,
transmits an UI frame containing an Identity request message and enters state 1;
or
transmits an UI frame containing an Identity verify message and enters state 4.
Selection: IUT supports the automatic TEI assignment procedures, PICS: MCu 3.1.1.

L2U_L60_C_2 subclause 5.5.1.3, table II.1, table D.1/9-2 new TC
Ensure that the IUT in state 6.0, having retransmitted N200 times DISC frames with P = 1, on expiry of timer T200,
transmits no frame and enters state 1;
or
transmits an UI frame containing an Identity verify message and enters state 4.
Selection: IUT supports the non-automatic TEI assignment procedures, PICS: MCu 3.1.2.

6.2.1.1.6 DL state 7.0

6.2.1.1.6.1 Valid behaviour

L2U_L70_V_1 subclause 5.3.4 TC17001
Ensure that the IUT, in the state 7.0, on receipt of an UI frame containing an Identity remove message with Ai = 127,
transmits an UI frame containing an Identity request message and enters the state 1.
Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

L2U_L70_V_2 subclause 5.3.4 TC17001
Ensure that the IUT, in the state 7.0, on receipt of an UI frame containing an Identity remove message with Ai = 127,
transmits no frame and enters the state 1.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

L2U_L70_V_3 subclause 5.3.4 TC17002
Ensure that the IUT, in the state 7.0, on receipt of an UI frame containing an Identity remove message with Ai = own TEI value,
transmits an UI frame containing an Identity request message and enters the state 1.
Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

L2U_L70_V_4 subclause 5.3.4 TC17002
Ensure that the IUT, in the state 7.0, on receipt of an UI frame containing an Identity remove message with Ai = own TEI value,
transmits no frame and enters the state 1.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

L2U_L70_V_5 subclause 5.3.4 TC17005
Ensure that the IUT, in the state 7.0, on receipt of an UI frame containing an Identity remove message with Ai = other TEI value,
transmits no frame and remains in the same state.

6.2.1.1.6.2 Inopportune behaviour

L2U_L70_I_1 subclause 5.3.2, 5.3.4 new TC

Ensure that the IUT, in the state 7.0, on receipt of an UI frame containing an Identity assigned message with Ai = own TEI value,

transmits an UI frame containing an Identity request message and enters the state 1;

or

transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.

Selection: SCu 1.2 AND MCu 3.1.1.

NOTE 1: The Identity assigned message will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L70_I_2 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.2/2-7 TC24031

Ensure that the IUT, in the state 7.0, on receipt of an unsolicited UA frame with F = 1 (MDL error C),

transmits an UI frame containing an Identity request message and enters the state 1;

or

transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.

Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

NOTE 2: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L70_I_3 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.2/2-7 TC24031

Ensure that the IUT, in the state 7.0, on receipt of an unsolicited UA frame with F = 1 (MDL error C),

transmits no frame and enters the state 1;

or

transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.

Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

NOTE 3: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L70_I_4 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.2/2-8 TC24032

Ensure that the IUT, in the state 7.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),

transmits an UI frame containing an Identity request message and enters the state 1;

or

transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.

Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

NOTE 4: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L70_I_5 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.2/2-8 TC24032

Ensure that the IUT, in the state 7.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),

transmits no frame and enters the state 1;

or

transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.

Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

NOTE 5: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

6.2.1.1.7 DL state 8.0

6.2.1.1.7.1 Valid behaviour

L2U_L80_V_1 subclause 5.3.4 TC18001

Ensure that the IUT, in the state 8.0, on receipt of an UI frame containing an Identity remove message with Ai = 127,

transmits an UI frame containing an Identity request message and enters the state 1.

Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

L2U_L80_V_2 subclause 5.3.4 TC18001
Ensure that the IUT, in the state 8.0, on receipt of an UI frame containing an Identity remove message with Ai = 127,
transmits no frame and enters the state 1.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

L2U_L80_V_3 subclause 5.3.4 TC18002
Ensure that the IUT, in the state 8.0, on receipt of an UI frame containing an Identity remove message with Ai = own TEI value,
transmits an UI frame containing an Identity request message and enters the state 1.
Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

L2U_L80_V_4 subclause 5.3.4 TC18002
Ensure that the IUT, in the state 8.0, on receipt of an UI frame containing an Identity remove message with Ai = own TEI value,
transmits no frame and enters the state 1.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

L2U_L80_V_5 subclause 5.3.4 TC18005
Ensure that the IUT, in the state 8.0, on receipt of an UI frame containing an Identity remove message with Ai = other TEI value,
transmits no frame and remains in the same state.

6.2.1.1.7.2 Inopportune behaviour

L2U_L80_I_1 subclause 5.3.2, 5.3.4 new TC
Ensure that the IUT, in the state 8.0, on receipt of an UI frame containing an Identity assigned message with Ai = own TEI value,
transmits an UI frame containing an Identity request message and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.
Selection: SCu 1.2 AND MCu 3.1.1.
NOTE 1: The Identity assigned message will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L80_I_2 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.3/2-7 TC28019
Ensure that the IUT, in the state 8.0, on receipt of an unsolicited UA frame with F = 1 (MDL error C),
transmits an UI frame containing an Identity request message and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.
Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.
NOTE 2: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L80_I_3 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.3/2-7 TC28019
Ensure that the IUT, in the state 8.0, on receipt of an unsolicited UA frame with F = 1 (MDL error C),
transmits no frame and enters the state 1;
or
transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.
Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.
NOTE 3: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L80_I_4 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.3/2-8 TC28020

Ensure that the IUT, in the state 8.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),

transmits an UI frame containing an Identity request message and enters the state 1;

or

transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.

Selection: IUT supports the automatic TEI assignment procedures. PICS: MCu 3.1.1.

NOTE 4: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L80_I_5 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.3/2-8 TC28020

Ensure that the IUT, in the state 8.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),

transmits no frame and enters the state 1;

or

transmits an UI frame containing an Identity verify message with own TEI value and remains in the same state.

Selection: IUT supports the non-automatic TEI assignment procedures. PICS: MCu 3.1.2.

NOTE 5: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

6.2.1.2 Network

Selection: IUT supports the network role. PICS: R 2.2

6.2.1.2.1 DL state 1

6.2.1.2.1.1 Valid behaviour

L2N_L10_V_1 subclause 5.3.2 new TC

Ensure that the IUT, in the state 1, having a TEI value available, on receipt of an UI frame containing an Identity request message with Ai = 127,

transmits an UI frame containing an Identity assigned message with, Ai = automatic TEI value, Ri = the Ri value previously received, and enters the state 4.

NOTE 1: A random function can be used to generate the Ri value between 0 and 65535.

L2N_L10_V_2 subclause 5.3.2 new TC

Ensure that the IUT, in the state 1, having no TEI value available, on receipt of an UI frame containing an Identity request message with Ai = 127,

transmits an UI frame containing an Identity denied message with, Ai = 127, Ri = the Ri value previously received, and remains in the same state.

NOTE 2: A random function can be used to generate the Ri value between 0 and 65535.

6.2.1.2.1.2 Inopportune behaviour

L2N_L10_I_1 subclause 3.3 new TC

Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity verify message with Ai $\neq$ 127,

transmits no frame and remains in the same state.

NOTE 1: A random function can be used to generate the TEI value between 0 and 126.

L2N_L10_I_2 subclause 3.3 new TC

Ensure that the IUT, in the state 1, on receipt of an UI frame with a TEI value $\neq$ 127, containing a layer 3 message requesting a response,

transmits no frame and remains in the same state.

NOTE 2: A random function can be used to generate the Ai value between 64 and 126.

L2N_L10_I_3 subclause 3.3 new TC

Ensure that the IUT, in the state 1, on receipt of a SABME frame with P = 1,

transmits no frame and remains in the same state.

NOTE 3: A random function can be used to generate the TEI value between 0 and 126.

L2N_L10_I_4 subclause 3.3 new TC
Ensure that the IUT, in the state 1, on receipt of a DISC frame with P = 1,
transmits no frame and remains in the same state.
NOTE 4: A random function can be used to generate the TEI value between 0 and 126.

L2N_L10_I_5 subclause 3.3 new TC
Ensure that the IUT, in the state 1, on receipt of a DM frame with F = 1,
transmits no frame and remains in the same state.
NOTE 5: A random function can be used to generate the TEI value between 0 and 126.

L2N_L10_I_6 subclause 3.3 new TC
Ensure that the IUT, in the state 1, on receipt of an UA frame with F = 1,
transmits no frame and remains in the same state.
NOTE 6: A random function can be used to generate the TEI value between 0 and 126.

L2N_L10_I_7 subclause 3.3 new TC
Ensure that the IUT, in the state 1, on receipt of a RR command frame with P = 1,
transmits no frame and remains in the same state.
NOTE 7: A random function can be used to generate the TEI value between 0 and 126.

L2N_L10_I_8 subclause 3.3 new TC
Ensure that the IUT, in the state 1, on receipt of an I frame with P = 1, containing a layer 3 message,
transmits no frame and remains in the same state.
NOTE 8: A random function can be used to generate the TEI value between 0 and 126.

6.2.1.2.1.3 Syntactically invalid behaviour

L2N_L10_S_1 subclause 5.3.2 new TC
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity request message with Ai = automatic TEI value,
transmits an UI frame containing an Identity denied message with Ai = the Ai value previously received, Ri = the Ri value previously received, and remains in the same state.
NOTE 1: A random function can be used to generate the Ai value between 64 and 126 and the Ri value between 0 and 65535.

L2N_L10_S_2 subclause 5.3.2 new TC
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity request message with Ai = non automatic TEI value,
transmits no frame and remains in the same state.
NOTE 2: A random function can be used to generate the Ai value between 0 and 63 and the Ri value between 0 and 65535.

L2N_L10_S_3 subclause 2.9 a) new TC
Ensure that the IUT, in the state 1, on receipt of an UI frame, containing an Identity request message with Ai = 127, without closing flag,
transmits no frame and remains in the same state.

L2N_L10_S_4 subclause 2.9 b) new TC
Ensure that the IUT, in the state 1, on receipt of a frame containing 4 octets between flags (without control field octet),
transmits no frame and remains in the same state.

L2N_L10_S_5 subclause 2.9 b) new TC
Ensure that the IUT, in the state 1, on receipt of a RR frame containing 5 octets between flags (without the second control field octet),
transmits no frame and remains in the same state.

L2N_L10_S_6 subclause 2.9 c) new TC
Ensure that the IUT, in the state 1, on receipt of an UI frame, containing an Identity request message with Ai = 127, which does not consist of an integral number of octets,
transmits no frame and remains in the same state.

L2N_L10_S_7 subclause 2.9 d) **new TC**
Ensure that the IUT, in the state 1, on receipt of an UI frame, containing an Identity request message with Ai = 127, with a FCS error,
transmits no frame and remains in the same state.

L2N_L10_S_8 subclause 2.9 e) **new TC**
Ensure that the IUT, in the state 1, on receipt of an UI frame with a single octet address field, containing an Identity request message with Ai = 127,
transmits no frame and remains in the same state.

L2N_L10_S_9 subclause 2.9 f) **new TC**
Ensure that the IUT, in the state 1, on receipt of an UI frame, with a SAPI not supported and TEI = 127,
transmits no frame and remains in the same state.

L2N_L10_S_10 subclause 3.3.2 **new TC**
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity request message with Ai = 127 with an erroneous C/R bit value,
transmits no frame and remains in the same state.

L2N_L10_S_11 subclause 3.3.1 **new TC**
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity request message with Ai = 127 with an erroneous EA bit value in the first address field octet,
transmits no frame and remains in the same state.

L2N_L10_S_12 subclause 3.3.1 **new TC**
Ensure that the IUT, in the state 1, on receipt of an UI frame containing an Identity request message with Ai = 127 with an erroneous EA bit value in the second address field octet,
transmits no frame and remains in the same state.

L2N_L10_S_13 subclauses 3.6.1, 5.8.5 **TC131012**
Ensure that the IUT, in the state 1, on receipt of an undefined frame,
transmits no frame and remains in the same state.

6.2.1.2.2 DL state 4

6.2.1.2.2.1 Valid behaviour

L2N_L40_V_1 subclause 5.3.2 **TC114001**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = 127,
transmits an UI frame containing an Identity assigned message with, Ai = automatic TEI value, Ri = the Ri value previously received, remains in the state 4 for the first TEI and enters the state 4 for the second TEI.
NOTE: A random function can be used to generate the Ri value between 0 and 65535.

L2N_L40_V_2 subclause 5.3.5.2 **TC114002**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity verify message with Ai = own TEI value,
transmits an UI frame containing an Identity check request message and remains in the same state.
Selection: IUT supports TEI identity verify procedures. PICS: MCn 3.4.

L2N_L40_V_3 subclause 5.3.5.2 **TC114002**
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity verify message with Ai = own TEI value,
transmits no frame and remains in the same state.
Selection: IUT does not support TEI identity verify procedures. PICS: NOT MCn 3.4.

6.2.1.2.2.2 Inopportune behaviour

L2N_L40_I_1 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-7 TC224006
Ensure that the IUT, in the state 4, on receipt of an unsolicited UA frame with F = 1 (MDL error C),
transmits two UI frames in succession containing an Identity remove message and enters the state 1;
or
transmits an UI frame containing an Identity check request message and remains in the same state.

L2N_L40_I_2 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 TC224007
Ensure that the IUT, in the state 4, on receipt of an unsolicited UA frame with F = 0 (MDL error D),
transmits two UI frames in succession containing an Identity remove message and enters the state 1;
or
transmits an UI frame containing an Identity check request message and remains in the same state.

L2N_L40_I_3 subclause 5.3.3 TC124005
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an unsolicited Identity check response message,
transmits no frame and remains in the same state.

L2N_L40_I_4 subclause 3.3.4 new TC
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity verify message with Ai = other TEI value,
transmits no frame and remains in the same state.

L2N_L40_I_5 subclause 3.3.4 new TC
Ensure that the IUT, in the state 4, on receipt of an UI frame, with an automatic TEI value currently not assigned, containing a layer 3 message requesting a response,
transmits no frame and remains in the same state.
NOTE 1: A function can be used to generate an automatic TEI value currently not assigned.

L2N_L40_I_6 subclause 3.3.4 new TC
Ensure that the IUT, in the state 4, on receipt of a SABME frame, with an automatic TEI value currently not assigned, with P = 1,
transmits no frame and remains in the same state.
NOTE 2: A function can be used to generate an automatic TEI value currently not assigned.

L2N_L40_I_7 subclause 3.3.4 new TC
Ensure that the IUT, in the state 4, on receipt of a DISC frame, with an automatic TEI value currently not assigned, with P = 1,
transmits no frame and remains in the same state.
NOTE 3: A function can be used to generate an automatic TEI value currently not assigned.

L2N_L40_I_8 subclause 3.3.4 new TC
Ensure that the IUT, in the state 4, on receipt of a DM frame, with an automatic TEI value currently not assigned, with F = 1,
transmits no frame and remains in the same state.
NOTE 4: A function can be used to generate an automatic TEI value currently not assigned.

L2N_L40_I_9 subclause 3.3.4 new TC
Ensure that the IUT, in the state 4, on receipt of an UA frame, with an automatic TEI value currently not assigned, with F = 1,
transmits no frame and remains in the same state.
NOTE 5: A function can be used to generate an automatic TEI value currently not assigned.

L2N_L40_I_10 subclause 3.3.4 new TC
Ensure that the IUT, in the state 4, on receipt of a RR command frame, with an automatic TEI value currently not assigned, with P = 1,
transmits no frame and remains in the same state.
NOTE 6: A function can be used to generate an automatic TEI value currently not assigned.

L2N_L40_I_11 subclause 3.3.4 new TC
Ensure that the IUT, in the state 4, on receipt of an I frame, with an automatic TEI value currently not assigned, with P = 1, containing a layer 3 message,
transmits no frame and remains in the same state.
NOTE 7: A function can be used to generate an automatic TEI value currently not assigned.

6.2.1.2.2.3 Syntactically invalid behaviour

L2N_L40_S_1 subclause 5.3.2 TC134018
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = automatic TEI value,
transmits an UI frame containing an Identity denied message with Ai = the Ai value previously received, Ri = the Ri value previously received, and remains in the same state.
NOTE 1: A random function can be used to generate the Ai value between 64 and 126 and the Ri value between 0 and 65535.

L2N_L40_S_2 subclause 5.3.2 TC134019
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = non automatic TEI value,
transmits no frame and remains in the same state.
NOTE 2: A random function can be used to generate the Ai value between 0 and 63 and the Ri value between 0 and 65535.

L2N_L40_S_3 subclause 5.3.5.2 TC124006
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity verify message with Ai = 127,
transmits no frame and remains in the same state.

L2N_L40_S_4 subclause 2.9 a) new TC
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = 127, without closing flag,
transmits no frame and remains in the same state.

L2N_L40_S_5 subclause 2.9 b) new TC
Ensure that the IUT, in the state 4, on receipt of a frame containing 4 octets between flags (without control field octet),
transmits no frame and remains in the same state.

L2N_L40_S_6 subclause 2.9 b) new TC
Ensure that the IUT, in the state 4, on receipt of a RR frame containing 5 octets between flags (without the second control field octet),
transmits no frame and remains in the same state.

L2N_L40_S_7 subclause 2.9 c) new TC
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = 127, which does not consist of an integral number of octets,
transmits no frame and remains in the same state.

L2N_L40_S_8 subclause 2.9 d) TC134029
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = 127, with a FCS error,
transmits no frame and remains in the same state.

L2N_L40_S_9 subclause 2.9 e) new TC
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = 127 with a single octet address field,
transmits no frame and remains in the same state.

L2N_L40_S_10 subclause 2.9 f) new TC
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = 127, with a SAPI not supported,
transmits no frame and remains in the same state.

L2N_L40_S_11 subclause 3.3.2 TC134020
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = 127 an erroneous C/R bit value,
transmits no frame and remains in the same state.

L2N_L40_S_12 subclause 3.3.1 TC134021
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = 127 with an erroneous EA bit value in the first address field octet,
transmits no frame and remains in the same state.

L2N_L40_S_13 subclause 3.3.1 TC134023
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = 127 with an erroneous EA bit value in the second address field octet,
transmits no frame and remains in the same state.

L2N_L40_S_14 subclause 3.3.2 TC134026
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity verify message with Ai = 127 an erroneous C/R bit value,
transmits no frame and remains in the same state.

L2N_L40_S_15 subclause 3.3.1 TC134027
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity verify message with Ai = 127 with an erroneous EA bit value in the first address field octet,
transmits no frame and remains in the same state.

L2N_L40_S_16 subclause 3.3.1 TC134028
Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity verify message with Ai = 127 with an erroneous EA bit value in the second address field octet,
transmits no frame and remains in the same state.

L2N_L40_S_17 subclauses 3.6.1, 5.8.5 new TC
Ensure that the IUT, in the state 4, on receipt of an undefined frame,
transmits no frame and remains in the same state.

L2N_L40_S_18 subclauses 5.8.5, 5.9.3 new TC
Ensure that the IUT, in the state 4, on receipt of an UI frame with own TEI value, containing an information field with a length exceeding N201,
transmits no frame and remains in the same state.

6.2.1.2.2.4 Timers

L2N_L40_T_1 subclause 5.3.5.2 TC114003
Ensure that the IUT, in the state 4, having transmitted an UI frame containing an Identity check request message, on expiry of the timer T201,
transmits an second UI frame containing an Identity check request message and remains in the same state.

6.2.1.2.2.5 Counter

L2N_L40_C_1 subclause 5.3.5.2, 5.3.4 TC114004
Ensure that the IUT, in the state 4, having transmitted 2 times an UI frame containing an Identity check request message, on expiry of the timer T201,
transmits no frame and enters the state 1.

6.2.1.2.3 DL state 5.0

6.2.1.2.3.1 Valid behaviour

L2N_L50_V_1 subclause 5.3.5.2 ***New***

Ensure that the IUT, in the state 5, on receipt of an UI frame containing an Identity verify message with Ai = own TEI value,

transmits an UI frame containing an Identity check request message and remains in the same state.

Selection: IUT supports TEI identity verify procedures. PICS: MCn 3.4.

6.2.1.2.3.2 Inopportune behaviour

L2N_L50_I_1 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 **TC225011**

Ensure that the IUT, in the state 5.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),

transmits two UI frames in succession containing an Identity remove message and enters the state 1;

or

transmits an UI frame containing an Identity check request message and remains in the same state.

6.2.1.2.3.3 Counters

L2N_L50_C_1 subclause 5.5.1.3, table II.1, table D.1/9-2 **TC215005**

Ensure that the IUT in state 5.0, having retransmitted N200 times SABME frames with P = 1 (MDL error G), on expiry of timer T200,

transmits an UI frame containing an Identity check request message and enters state 4.

6.2.1.2.4 DL state 6.0

6.2.1.2.4.1 Valid behaviour

L2N_L60_V_1 subclause 5.3.5.2 ***New***

Ensure that the IUT, in the state 6, on receipt of an UI frame containing an Identity verify message with Ai = own TEI value,

transmits an UI frame containing an Identity check request message and remains in the same state.

Selection: IUT supports TEI identity verify procedures. PICS: MCn 3.4.

6.2.1.2.4.2 Inopportune behaviour

L2N_L60_I_1 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 **TC226010**

Ensure that the IUT, in the state 6.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),

transmits two UI frames in succession containing an Identity remove message and enters the state 1;

or

transmits an UI frame containing an Identity check request message and remains in the same state.

6.2.1.2.4.3 Counters

L2N_L60_C_1 subclause 5.5.1.3, table II.1, table D.1/9-2 **new TC**

Ensure that the IUT in state 5.0, having retransmitted N200 times DISC frames with P = 1 (MDL error H), on expiry of timer T200,

transmits an UI frame containing an Identity check request message and enters state 4.

6.2.1.2.5 DL state 7.0

6.2.1.2.5.1 Valid behaviour

L2N_L70_V_1 subclause 5.3.5.2 ***New***

Ensure that the IUT, in the state 7, on receipt of an UI frame containing an Identity verify message with Ai = own TEI value,

transmits an UI frame containing an Identity check request message and remains in the same state.

Selection: IUT supports TEI identity verify procedures. PICS: MCn 3.4.

6.2.1.2.5.2 Inopportune behaviour

L2N_L70_I_1 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.2/2-7 **TC227052**

Ensure that the IUT, in the state 7.0, on receipt of an unsolicited UA frame with F = 1 (MDL error C),

transmits two UI frames in succession containing an Identity remove message and enters the state 1;

or

transmits an UI frame containing an Identity check request message and remains in the same state.

L2N_L70_I_2 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.2/2-8 **TC227053**

Ensure that the IUT, in the state 7.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),

transmits two UI frames in succession containing an Identity remove message and enters the state 1;

or

transmits an UI frame containing an Identity check request message and remains in the same state.

6.2.1.2.6 DL state 8.0

6.2.1.2.6.1 Valid behaviour

L2N_L60_V_1 subclause 5.3.5.2 ***New***

Ensure that the IUT, in the state 8, on receipt of an UI frame containing an Identity verify message with Ai = own TEI value,

transmits an UI frame containing an Identity check request message and remains in the same state.

Selection: IUT supports TEI identity verify procedures. PICS: MCn 3.4.

6.2.1.2.6.2 Inopportune behaviour

L2N_L80_I_1 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.3/2-7 **TC228049**

Ensure that the IUT, in the state 8.0, on receipt of an unsolicited UA frame with F = 1 (MDL error C),

transmits two UI frames in succession containing an Identity remove message and enters the state 1;

or

transmits an UI frame containing an Identity check request message and remains in the same state.

L2N_L80_I_2 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.3/2-8 **TC228050**

Ensure that the IUT, in the state 8.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D),

transmits two UI frames in succession containing an Identity remove message and enters the state 1;

or

transmits an UI frame containing an Identity check request message and remains in the same state.

6.2.2 Data control

6.2.2.1 DL state 4

6.2.2.1.1 Valid behaviour

L2C_D40_V_1 subclause 5.5.1.2, table D.1/1-1 new TC
Ensure that the IUT in state 4, having been requested to establish the data link,
transmits a SABME frame with P = 1 and enters state 5.0.
Selection: IUT supports the self initiated establishment procedures, PICS: MCu 5.1.1.

L2C_D40_V_2 subclause 5.2.2, table D.1/1-7 new TC
Ensure that the IUT in state 4, having been requested to transmit unacknowledged information,
transmits an UI frame with P = 0 and remains in the same state.
Selection: IUT supports the unacknowledged information transfer service, PICS: MCu 2.2.

L2C_D40_V_3 subclause 5.5.1.2, table D.1/2-1 TC24001
Ensure that the IUT in state 4, on receipt of a SABME frame with P = 1 and being able to enter state 7.0,
transmits an UA frame with F = 1 and enters state 7.0.

L2C_D40_V_4 subclause 5.5.1.2, table D.1/2-2 new TC
Ensure that the IUT in state 4, on receipt of a SABME frame with P = 1 and being unable to enter state 7.0,
transmits a DM frame with F = 1 and remains in the same state.

6.2.2.1.2 Inopportune behaviour

L2C_D40_I_1 subclause 5.5.1.2, table D.1/2-3 TC24002
Ensure that the IUT in state 4, on receipt of a SABME frame with P = 0 and being able to enter state 7.0,
transmits an UA frame with F = 0 and enters state 7.0.

L2C_D40_I_2 subclause 5.5.1.2, table D.1/2-4 new TC
Ensure that the IUT in state 4, on receipt of a SABME frame with P = 0 and being unable to enter state 7.0,
transmits a DM frame with F = 0 and remains in the same state.

L2C_D40_I_3 subclause 5.5.4, table D.1/2-5 TC24005
Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1,
transmits a DM frame with F = 1 and remains in the same state.

L2C_D40_I_4 subclause 5.5.4, table D.1/2-6 TC24006
Ensure that the IUT in state 4, on receipt of a DISC frame with P = 0,
transmits a DM frame with F = 0 and remains in the same state.

L2C_D40_I_5 subclause 5.5.4, table D.1/2-10 TC24009
Ensure that the IUT in state 4, on receipt of a DM frame with F = 1,
transmits no frame and remains in the same state.

L2C_D40_I_6 subclause 5.5.4, table D.1/2-11 TC24003
Ensure that the IUT in state 4, on receipt of a DM frame with F = 0 and being able to enter state 7.0,
transmits a SABME frame with P = 1 and enters state 5.0.

L2C_D40_I_7 subclause 5.5.4, table D.1/2-12 new TC
Ensure that the IUT in state 4, on receipt of a DM frame with F = 0 and being unable to enter state 7.0,
transmits no frame and remains in the same state.

L2C_D40_I_8 subclause 5.5.4, table D.1/3-4 TC24018
Ensure that the IUT in state 4, on receipt of a FRMR response frame with F = 1 rejecting DM,
transmits no frame and remains in the same state.

L2C_D40_I_9 subclause 5.5.4, table D.1/4-1 TC24010
Ensure that the IUT in state 4, on receipt of a RR command frame with P = 1,
transmits no frame and remains in the same state.

L2C_D40_I_10 subclause 5.5.4, table D.1/4-4 TC24011
Ensure that the IUT in state 4, on receipt of a RR response frame with F = 1,
transmits no frame and remains in the same state.

L2C_D40_I_11 subclause 5.5.4, table D.1/5-1 TC24014
Ensure that the IUT in state 4, on receipt of a REJ command frame with P = 1,
transmits no frame and remains in the same state.

L2C_D40_I_12 subclause 5.5.4, table D.1/5-4 TC24015
Ensure that the IUT in state 4, on receipt of a REJ response frame with F = 1,
transmits no frame and remains in the same state.

L2C_D40_I_13 subclause 5.5.4, table D.1/6-1 TC24012
Ensure that the IUT in state 4, on receipt of a RNR command frame with P = 1,
transmits no frame and remains in the same state.

L2C_D40_I_14 subclause 5.5.4, table D.1/6-4 TC24013
Ensure that the IUT in state 4, on receipt of a RNR response frame with F = 1,
transmits no frame and remains in the same state.

L2C_D40_I_15 subclause 5.5.4, table D.1/7-1 TC24016
Ensure that the IUT in state 4, on receipt of an I frame with P = 1 which contains a layer 3 RELEASE message,
transmits no frame and remains in the same state.

6.2.2.1.3 Syntactically invalid

L2C_D40_S_1 subclause 2.9 a) new TC
Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 without closing flag,
transmits no frame and remains in the same state.

L2C_D40_S_2 subclause 2.9 b) new TC
Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which is too short (without control field octet),
transmits no frame and remains in the same state.

L2C_D40_S_3 subclause 2.9 c) new TC
Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which does not consist of an integral number of octets,
transmits no frame and remains in the same state.

L2C_D40_S_4 subclause 2.9 d) TC24025
Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which contains a frame check sequence error,
transmits no frame and remains in the same state.

L2C_D40_S_5 subclause 2.9 e) new TC
Ensure that the IUT in state 4, on receipt of a too short DISC frame with P = 1 which contains a single octet address field,
transmits no frame and remains in the same state.

L2C_D40_S_6 subclause 2.9 f) new TC
Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which contains a SAPI value not supported,
transmits no frame and remains in the same state.
Selection: IUT does not support SAPu 1 OR SAPu 2 OR SAPu 3.

L2C_D40_S_7 subclause 3.3.1 new TC
Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which contains an erroneous Address field extension bit value in the first address field octet,
transmits no frame and remains in the same state.

L2C_D40_S_8 subclause 3.3.1 new TC
Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which contains an erroneous Address field extension bit value in the second address field octet,
transmits no frame and remains in the same state.

L2C_D40_S_9 subclause 3.3.2 TC24019
Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which contains an erroneous Command/response field bit value,
transmits no frame and remains in the same state.

L2C_D40_S_10 subclauses 3.6.1, 5.8.5, table D.1/10 new TC
Ensure that the IUT in state 4, on receipt of an undefined frame,
transmits no frame and remains in the same state.

L2C_D40_S_11 subclauses 3.6.4, 5.8.5, table D.1/10 TC24022
Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which contains an information field = '00'O (unnumbered frame with incorrect length),
transmits no frame and remains in the same state.

6.2.2.2 DL state 5.0

Selection: IUT supports the self initiated establishment procedures, PICS: MCu 5.1.1.

6.2.2.2.1 Valid behaviour

L2C_D50_V_1 subclause 5.5.1.2, table D.1/2-7 TC25001
Ensure that the IUT in state 5.0, on receipt of an UA frame with F = 1,
enters state 7.0.

L2C_D50_V_2 subclause 5.5.1.2, table D.1/2-10 TC25002
Ensure that the IUT in state 5.0, on receipt of a DM frame with F = 1,
enters state 4.

L2C_D50_V_3 subclauses 5, 5.8.6, table D.1/3-1 TC25004
Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 1 rejecting a SABME frame,
transmits no frame and remains in the same state.

6.2.2.2.2 Inopportune behaviour

L2C_D50_I_1 subclause 5.5.5.1, table D.1/2-1 TC25007
Ensure that the IUT in state 5.0, on receipt of a SABME frame with P = 1,
transmits an UA frame with F = 1 and remains in the same state.

L2C_D50_I_2 subclause 5.5.5.1, table D.1/2-3 TC25008
Ensure that the IUT in state 5.0, on receipt of a SABME frame with P = 0,
transmits an UA frame with F = 0 and remains in the same state.

L2C_D50_I_3 subclause 5.5.5.2, table D.1/2-5 TC25009
Ensure that the IUT in state 5.0, on receipt of a DISC frame with P = 1,
transmits an DM frame with F = 1 and remains in the same state.

L2C_D50_I_4 subclause 5.5.5.2, table D.1/2-6 TC25010
Ensure that the IUT in state 5.0, on receipt of a DISC frame with P = 0,
transmits an DM frame with F = 0 and remains in the same state.

L2C_D50_I_5 subclauses 5.3.4.2, 5.8.7, table 9, table II.1, table D.1/2-11 TC25012
Ensure that the IUT in state 5.0, on receipt of an unsolicited DM frame with F = 0,
transmits no frame and remains in the same state.

L2C_D50_I_6 subclause 5, 5.8.6, table D.1/3-3 TC25020
Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 1 rejecting UA,
transmits no frame and remains in the same state.

L2C_D50_I_7 subclauses 5, 5.8.6, table D.1/3-4 TC25021
Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 1 rejecting DM,
transmits no frame and remains in the same state.

L2C_D50_I_8 subclauses 5, 5.8.6, table D.1/3-5 TC25022
Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 1 rejecting an I frame,
transmits no frame and remains in the same state.

L2C_D50_I_9 subclauses 5, 5.8.6, table D.1/3-6 TC25023
Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 1 rejecting a RNR response frame,
transmits no frame and remains in the same state.

L2C_D50_I_10 subclause -, table D.1/4-1 TC25013
Ensure that the IUT in state 5.0, on receipt of a RR command frame with P = 1,
transmits no frame and remains in the same state.

L2C_D50_I_11 subclause 5.8.7, table 9, table D.1/4-2 TC25014
Ensure that the IUT in state 5.0, on receipt of a RR response frame with F = 1,
transmits no frame and remains in the same state.

L2C_D50_I_12 subclause -, table D.1/5-1 TC25017
Ensure that the IUT in state 5.0, on receipt of a REJ command frame with P = 1,
transmits no frame and remains in the same state.

L2C_D50_I_13 subclause 5.8.7, table 9, table D.1/5-4 TC25018
Ensure that the IUT in state 5.0, on receipt of a REJ response frame with F = 1,
transmits no frame and remains in the same state.

L2C_D50_I_14 subclause -, table D.1/6-1 TC25015
Ensure that the IUT in state 5.0, on receipt of a RNR command frame with P = 1,
transmits no frame and remains in the same state.

L2C_D50_I_15 subclause 5.8.7, table 9, table D.1/6-4 TC25016
Ensure that the IUT in state 5.0, on receipt of a RNR response frame with F = 1,
transmits no frame and remains in the same state.

L2C_D50_I_16 subclause -, table D.1/7-1 TC25019
Ensure that the IUT in state 5.0, on receipt of an I frame with P = 0,
transmits no frame and remains in the same state.

6.2.2.2.3 Syntactically invalid

L2C_D50_S_1 subclause 5.8.5, table D.1/10-2 TC25025
Ensure that the IUT in state 5.0, on receipt of a DISC frame with P = 1 containing an information field,
transmits no frame and remains in the same state.

L2C_D50_S_2 subclause 5.8.5, table D.1/10-5 TC25027
Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 0 which contains an information field,
transmits no frame and remains in the same state.

L2C_D50_S_3 subclause 5.8.5, table D.1/10-6 TC25026
Ensure that the IUT in state 5.0, on receipt of a RR command frame with P = 1 which contains an information field,
transmits no frame and remains in the same state.

L2C_D50_S_4 subclause 5.8.5, table D.1/10-7 TC25024
Ensure that the IUT in state 5.0, on receipt of an I frame with an information field which exceeds N201 octets,
transmits no frame and remains in the same state.

L2C_D50_S_5 subclause 5.8.5, table D.1/10-8 TC25028
Ensure that the IUT in state 5.0, on receipt of an undefined frame,
transmits no frame and remains in the same state.

L2C_D50_S_6 subclause 5.8.4 TC25029
Ensure that the IUT in state 5.0, on receipt of an I frame with P = 0 which contains a frame check sequence error,
transmits no frame and remains in the same state.

6.2.2.2.4 Timers

L2C_D50_T_1 subclause 5.5.1.3, table D.1/9-1 TC25030
Ensure that the IUT in state 5.0, on expiry of timer T200,
transmits a SABME frame with P = 1 and remains in the same state.
NOTE: To test the duration of timer T200 is also part of this test.

6.2.2.3 DL state 5.1

6.2.2.3.1 Valid behaviour

L2C_D51_V_1 subclause 5.7, table D.1/2-7 TC25101
Ensure that the IUT in state 5.1, having one I frame in queue and no I frame is unacknowledged, on receipt of an UA frame with F = 1,
transmits the I frame with P = 0 and enters state 7.0.

L2C_D51_V_2 subclause 5.7, table D.1/2-8 TC25102
Ensure that the IUT in state 5.1, having one I frame in queue and one I frame is unacknowledged, on receipt of an UA frame with F = 1,
transmits no frame and enters state 7.0.

6.2.2.4 DL state 6.0

6.2.2.4.1 Valid behaviour

Selection: IUT supports the self initiated termination of multiple frame operation, PICS: MCu 5.2.1.

L2C_D60_V_1 subclause 5.5.3.2, table D.1/2-7 TC26002
Ensure that the IUT in state 6, on receipt of a UA frame with F = 1,
transmits no frame and enters state 4.

L2C_D60_V_2 subclause 5.5.3.2, table D.1/2-10 TC26001
Ensure that the IUT in state 6, on receipt of a DM frame with F = 1,
transmits no frame and enters state 4.

L2C_D60_V_3 subclauses 5, 5.8.6, table D.1/3-2 TC26003
Ensure that the IUT in state 6, on receipt of a FRMR response frame with F = 1 rejecting a DISC frame,
transmits no frame and remains in the same state.

6.2.2.4.2 Inopportune behaviour

L2C_D60_I_1 **subclause 5.5.5.2, table D.1/2-1** **TC26008**
Ensure that the IUT in state 6, on receipt of a SABME frame with P = 1,
transmits a DM frame with F = 1 and remains in the same state.

L2C_D60_I_2 **subclause 5.5.5.2, table D.1/2-3** **TC26009**
Ensure that the IUT in state 6, on receipt of a SABME frame with P = 0,
transmits a DM frame with F = 0 and remains in the same state.

L2C_D60_I_3 **subclause 5.5.5.1, table D.1/2-5** **TC26006**
Ensure that the IUT in state 6, on receipt of a DISC frame with P = 1,
transmits an UA frame with F = 1 and remains in the same state.

L2C_D60_I_4 **subclause 5.5.5.1, table D.1/2-6** **TC26007**
Ensure that the IUT in state 6, on receipt of a DISC frame with P = 0,
transmits an UA frame with F = 0 and remains in the same state.

L2C_D60_I_5 **subclause 5.8.7, table 9, table II.1, table D.1/2-11** **TC26011**
Ensure that the IUT in state 6, on receipt of an unsolicited DM frame with F = 0,
transmits no frame and remains in the same state.

L2C_D60_I_6 **subclauses 5, 5.8.6, table D.1/3-3** **TC26019**
Ensure that the IUT in state 6, on receipt of a FRMR response frame with F = 1 rejecting UA,
transmits no frame and remains in the same state.

L2C_D60_I_7 **subclauses 5, 5.8.6, table D.1/3-4** **TC26020**
Ensure that the IUT in state 6, on receipt of a FRMR response frame with F = 1 rejecting DM,
transmits no frame and remains in the same state.

L2C_D60_I_8 **subclauses 5, 5.8.6, table D.1/3-5** **TC26021**
Ensure that the IUT in state 6, on receipt of a FRMR response frame with F = 1 rejecting an I frame,
transmits no frame and remains in the same state.

L2C_D60_I_9 **subclauses 5, 5.8.6, table D.1/3-6** **TC26022**
Ensure that the IUT in state 6, on receipt of a FRMR response frame with F = 1 rejecting a RNR response frame,
transmits no frame and remains in the same state.

L2C_D60_I_10 **subclause -, table D.1/4-1** **TC26012**
Ensure that the IUT in state 6, on receipt of a RR command frame with P = 1,
transmits no frame and remains in the same state.

L2C_D60_I_11 **subclause 5.8.7, table 9, table D.1/4-4** **TC26013**
Ensure that the IUT in state 6, on receipt of a RR response frame with F = 1,
transmits no frame and remains in the same state.

L2C_D60_I_12 **subclause -, table D.1/5-1** **TC26016**
Ensure that the IUT in state 6, on receipt of a REJ command frame with P = 1,
transmits no frame and remains in the same state.

L2C_D60_I_13 **subclause 5.8.7, table 9, table D.1/5-4** **TC26017**
Ensure that the IUT in state 6, on receipt of a REJ response frame with F = 1,
transmits no frame and remains in the same state.

L2C_D60_I_14 **subclause -, table D.1/6-1** **TC26014**
Ensure that the IUT in state 6, on receipt of a RNR command frame with P = 1,
transmits no frame and remains in the same state.

L2C_D60_I_15 **subclause 5.8.7, table 9, table D.1/6-4** **TC26015**
Ensure that the IUT in state 6, on receipt of a RNR response frame with F = 1,
transmits no frame and remains in the same state.

L2C_D60_I_16 subclause -, table D.1/7-1 TC26018
Ensure that the IUT in state 6, on receipt of an I frame with P = 0,
transmits no frame and remains in the same state.

6.2.2.4.3 Syntactically invalid

L2C_D60_S_1 subclause 5.8.5, table D.1/10 TC26024
Ensure that the IUT in state 6, on receipt of a DISC frame with P = 1 containing an information field,
transmits no frame and remains in the same state.

L2C_D60_S_2 subclause 5.8.5, table D.1/10 TC26026
Ensure that the IUT in state 6, on receipt of a FRMR response frame with F = 0 which contains an information field,
transmits no frame and remains in the same state.

L2C_D60_S_3 subclause 5.8.5, table D.1/10 TC26025
Ensure that the IUT in state 6, on receipt of a RR command frame with P = 1 which contains an information field,
transmits no frame and remains in the same state.

L2C_D60_S_4 subclause 5.8.5, table D.1/10 TC26023
Ensure that the IUT in state 6, on receipt of an I frame with an information field which exceeds N201 octets,
transmits no frame and remains in the same state.

L2C_D60_S_5 subclause 5.8.5, table D.1/10 TC26027
Ensure that the IUT in state 6, on receipt of an undefined frame,
transmits no frame and remains in the same state.

L2C_D60_S_6 subclause 5.8.4 TC26028
Ensure that the IUT in state 6, on receipt of an I frame with P = 0 which contains a frame check sequence error,
transmits no frame and remains in the same state.

6.2.2.4.4 Timers

L2C_D60_T_1 subclause 5.5.3.3, table D.1/9-1 TC26005
Ensure that the IUT in state 6, on expiry of timer T200,
transmits a DISC frame with P = 1 and remains in the same state.
NOTE: To test the duration of timer T200 is also part of this test.

6.2.2.5 DL state 7.0

6.2.2.5.1 Valid behaviour

L2C_D70_V_1 subclause 5.7.1, table D.2/1-1 new TC
Ensure that the IUT in state 7.0, to request the establishment of the multiple frame operation,
discards the I queue, transmits a SABME frame with P = 1 and enters state 5.0.
Selection: IUT supports the self initiated establishment of multiple frame operation, PICS: MCu 5.1.1.

L2C_D70_V_2 subclause 5.5.3.2, table D.2/1-2 new TC
Ensure that the IUT in state 7.0, to request the release of the multiple frame operation,
discards the I queue, transmits a DISC frame with P = 1 and enters state 6.
Selection: IUT supports the self initiated termination of multiple frame operation, PICS: MCu 5.2.1.

L2C_D70_V_3 subclause 5.61, table D.2/1-4 TC27005
Ensure that the IUT in state 7.0, having been requested to send an I frame,
transmits an I frame with P = 0 and remains in the same state.
NOTE 1: The sending of an I frame can be provoked by sending a layer 3 message to the IUT requesting a response.

L2C_D70_V_4 subclause 5.2.2, table D.2/1-7 new TC

Ensure that the IUT in state 7.0, having been requested to send an UI frame,
transmits an UI frame with P = 0 and remains in the same state.

Selection: IUT supports the unacknowledged information transfer service, PICS: MCu 2, NOT (MCu 1.1 OR MCu 1.4.

NOTE 2: May be possible only for the network.

L2C_D70_V_5 subclause 5.5.3.2, table D.2/2-5 TC27012

Ensure that the IUT in state 7.0, on receipt of a DISC frame with P = 1,
discards the I queue, transmits an UA frame with F = 1 and enters state 4.

L2C_D70_V_6 subclause 3.6.5, table D.2/2-11 new TC

Ensure that the IUT in state 7.0, on receipt of an UI frame with current TEI and layer 3 content,
transmits no frame and remains in the same state.

L2C_D70_V_7 subclause 3.6.6, table D.2/4-1 TC27016

Ensure that the IUT in state 7.0, having stopped timer T200, on receipt of a RR command frame with P = 1,
transmits a RR response frame with F = 1 and remains in the same state.
NOTE 3: RR with P = 1 sent after T203 expiry on the tester side.

L2C_D70_V_8 subclause 5.6.3, table D.2/4-2 TC27017

Ensure that the IUT in state 7.0, on receipt of a RR command frame with P = 0,
transmits no frame and remains in state 7.0.

L2C_D70_V_9 subclause 5.6.1, table D.2 new TC

Ensure that the IUT in state 7.0, having I frames queued up, on receipt of a RR response frame with F = 1,
transmits the I frames not exceeding the maximum number of outstanding I frames k.

L2C_D70_V_10 subclause 5.6.4, table D.2/5-5 TC27009

Ensure that the IUT in state 7.0, having transmitted an I frame with P = 0, on receipt of a REJ command frame with P = 1,
transmits a RR response frame with F = 1, subsequently transmits the corresponding I frame and remains in the same state.
NOTE 4: An I frame will be received as soon as the IUT is able to send it.

L2C_D70_V_11 subclause 5.6.4, table D.2/5-6 TC27010

Ensure that the IUT in state 7.0, having transmitted an I frame with P = 0, on receipt of a REJ command frame with P = 0,
transmits the corresponding I frame and remains in the same state.
NOTE 5: An I frame will be received as soon as the IUT is able to send it.

L2C_D70_V_12 subclause 5.6.4, table D.2/5-7 TC27080

Ensure that the IUT in state 7.0, having transmitted an I frame with P = 0, on receipt of a REJ response frame with F = 0,
transmits the corresponding I frame and remains in the same state.
NOTE 6: An I frame will be received as soon as the IUT is able to send it.

L2C_D70_ V_13 subclause 5.6.4, table D.2/5-8 TC27036

Ensure that the IUT in state 7.0, on receipt of a REJ response frame with F = 1,
transmits the corresponding I frame and remains in the same state.

L2C_D70_V_14 subclause 5.6.5, table D.2/6-1 TC27006

Ensure that the IUT in state 7.0, on receipt of a RNR command frame with P = 1,
transmits a RR response frame with F = 1 and enters state 7.4.

L2C_D70_V_15 subclause 5.6.5, table D.2/6-2 TC27007

Ensure that the IUT in state 7.0, on receipt of a RNR command frame with P = 0,
transmits no frame and enters state 7.4.

L2C_D70_V_16 subclause 5.6.5, table D.2/6-3 TC27008
Ensure that the IUT in state 7.0, on receipt of a RNR response frame with F = 0,
transmits no frame and enters state 7.4.

L2C_D70_V_17 subclause 5.6.3.2, table D.2/7-1 TC27002
Ensure that the IUT in state 7.0, having transmitted an I frame with P = 0, on receipt of an I frame with P = 1,
transmits a RR response frame with F = 1 and remains in the same state.
NOTE 7: An I frame with P = 1 and N(R) = V(A)+1 is accepted as acknowledgement.

L2C_D70_V_18 subclauses 3.5.2.1, 5.6.2, 5.6.3.2, table D.2/7-2 TC27003
Ensure that the IUT in state 7.0, receiving continuously I frames with P = 0 and N(S) sequentially numbered from 0 through 127,
transmits a RR response with F = 0 and remains in the same state;
or
transmits an I frame with P = 0 as response to each I frame and remains in the same state.

L2C_D70_V_19 subclause 5.6.3.2, table D.2/7-2 TC27004
Ensure that the IUT in state 7.0, having transmitted an I frame with P = 0, on receipt of an I frame with P = 0,
transmits a RR response frame with F = 0 and remains in the same state.;
or
transmits an I frame with P = 0 as acknowledgement and remains in the same state.
NOTE 8: An I frame with P = 1 and N(R) = V(A)+1 is accepted as acknowledgement.

6.2.2.5.2 Inopportune behaviour

L2C_D70_I_1 subclauses 5.7.1, 5.7.2, table D.2/2-1 TC27022
Ensure that the IUT in state 7.0, on receipt of a SABME frame with P = 1,
transmits an UA frame with F = 1 and remains in the same state.

L2C_D70_I_2 subclauses 5.7.1, 5.7.2, table D.2/2-2 new TC
Ensure that the IUT in state 7.0, having transmitted an I frame, on receipt of a SABME frame with P = 1,
discards the I queue, transmits an UA frame with F = 1 and remains in the same state.
NOTE 1: the sending of a layer 3 message can be provoked by sending a layer 3 message to the IUT requesting a response.

L2C_D70_I_3 subclauses 5.7.1, 5.7.2, table D.2/2-3 TC27023
Ensure that the IUT in state 7.0, on receipt of a SABME frame with P = 0,
transmits an UA frame with F = 0 and remains in the same state.

L2C_D70_I_4 subclauses 5.7.1, 5.7.2, table D.2/2-4 new TC
Ensure that the IUT in state 7.0, having transmitted an I frame, on receipt of a SABME frame with P = 0,
discards the I queue, transmits an UA frame with F = 0 and remains in the same state.
NOTE 2: the sending of a layer 3 message can be provoked by sending a layer 3 message to the IUT requesting a response.

L2C_D70_I_5 subclause 5.5.3.2, table D.2/2-6 TC27013
Ensure that the IUT in state 7.0, on receipt of a DISC frame with P = 0,
transmits an UA frame with F = 0 and enters state 4.

L2C_D70_I_6 subclause 5.8.7, table 9, table D.2/2-9 TC27033
Ensure that the IUT in state 7.0, on receipt of an unsolicited DM frame with F = 1,
transmits no frame and remains in the same state.

L2C_D70_I_7 subclauses 5.7.1, 5.8.7, table 9, table D.2/2-10 TC27024
Ensure that the IUT in state 7.0, on receipt of an unsolicited DM frame with F = 0,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_8 subclauses 5.7.1, 5.8.6, table D.2/3-3 new TC
Ensure that the IUT in state 7.0, on receipt of a FRMR response frame with F = 1 rejecting an UA frame,
transmits a SABME frame with P = 1 and enters state 5.1.
NOTE 3: The IUT should have sent an UA frame before having received the FRMR

L2C_D70_I_9 subclauses 5.7.1, 5.8.6, table D.2/3-5 TC27049
Ensure that the IUT in state 7.0, on receipt of a FRMR response frame with F = 1 rejecting an I frame,
transmits a SABME frame with P = 1 and enters state 5.1.
NOTE 4: The IUT should have sent an I frame before having received the FRMR response frame.

L2C_D70_I_10 subclauses 5.7.1, 5.8.6, table D.2/3-6 new TC
Ensure that the IUT in state 7.0, on receipt of a FRMR response frame with F = 1 rejecting a RR frame,
transmits a SABME frame with P = 1 and enters state 5.1.
NOTE 5: The IUT should have sent a RR frame before having received the FRMR response frame.

L2C_D70_I_11 subclause 5.6.3, table D.2/4-4 TC27034
Ensure that the IUT in state 7.0, on receipt of a RR response frame with F = 1,
transmits no frame and remains in the same state.

L2C_D70_I_12 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-13 TC27037
Ensure that the IUT in state 7.0, on receipt of a RR command frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_13 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-14 TC27040
Ensure that the IUT in state 7.0, on receipt of a RR command frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_14 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-15 TC27046
Ensure that the IUT in state 7.0, on receipt of a RR response frame with F = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_15 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-16 TC27043
Ensure that the IUT in state 7.0, on receipt of a RR response frame with F = 1 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_16 subclauses 5.6.4, 5.7.1, 5.8.2, 5.8.5, table D.2/5-9 TC27039
Ensure that the IUT in state 7.0, on receipt of a REJ command frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_17 subclauses 5.6.4, 5.7.1, 5.8.2, 5.8.5, table D.2/5-10 TC27042
Ensure that the IUT in state 7.0, on receipt of a REJ command frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_18 subclauses 5.6.4, 5.7.1, 5.8.2, 5.8.5, table D.2/5-11 TC27048
Ensure that the IUT in state 7.0, on receipt of a REJ response frame with F = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_19 subclauses 5.6.4, 5.7.1, 5.8.2, 5.8.5, table D.2/5-12 TC27045
Ensure that the IUT in state 7.0, on receipt of a REJ response frame with F = 1 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_20 subclause 5.6.5, table D.2/6-4 TC27035
Ensure that the IUT in state 7.0, on receipt of a RNR response frame with F = 1,
transmits no frame and enters state 7.4.

L2C_D70_I_21 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-9 TC27038
Ensure that the IUT in state 7.0, on receipt of a RNR command frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_22 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-10 TC27041
Ensure that the IUT in state 7.0, on receipt of a RNR command frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_23 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-11 TC27047
Ensure that the IUT in state 7.0, on receipt of a RNR response frame with F = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_24 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-12 TC27044
Ensure that the IUT in state 7.0, on receipt of a RNR response frame with F = 1 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_25 subclauses 3.6.7, 5.8.1, table D.2/7-3 TC27027
Ensure that the IUT in state 7.0, on receipt of an I frame with P = 1 and invalid N(S),
transmits a REJ response frame with F = 1 and enters state 7.1.

L2C_D70_I_26 subclauses 3.6.7, 5.8.1, table D.2/7-4 TC27028
Ensure that the IUT in state 7.0, on receipt of an I frame with P = 0 and invalid N(S),
transmits a REJ response frame with F = 0 and enters state 7.1.

L2C_D70_I_27 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/8-5 TC27025
Ensure that the IUT in state 7.0, on receipt of an I frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_28 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/8-6 TC27026
Ensure that the IUT in state 7.0, on receipt of an I frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_29 subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-7 TC27029
Ensure that the IUT in state 7.0, on receipt of an I frame with P = 1 and invalid N(R) and N(S),
transmits a REJ response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_30 subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-8 TC27030
Ensure that the IUT in state 7.0, on receipt of an I frame with P = 0 and invalid N(R) and N(S),
transmits a REJ response frame with F = 0, subsequently a SABME frame with P = 1 and enters state 5.1.

6.2.2.5.3 Syntactically invalid

L2C_D70_S_1 subclause 5.8.5, table D.2/10-2 TC27055
Ensure that the IUT in state 7.0, on receipt of a DISC frame with P = 1 containing an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_S_2 subclause 5.8.5, table D.2/10-5 TC27057
Ensure that the IUT in state 7.0, on receipt of a FRMR response frame with F = 0 which contains an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_S_3 subclause 5.8.5, table D.2/10-6 TC27056
Ensure that the IUT in state 7.0, on receipt of a RR command frame with P = 1 which contains an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_S_4 subclauses 5.8.5, 5.9, table D.2/10-7 TC27054
Ensure that the IUT in state 7.0, on receipt of an I frame with an information field which exceeds N201 octets,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_S_5 subclause 3.3.2 TC27051
Ensure that the IUT in state 7.0, on receipt of an I frame which contains a Command/response field bit incorrectly set indicating a response frame type,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_S_6 subclause 5.8.5, table D.2/10-8 TC27053
Ensure that the IUT in state 7.0, on receipt of an undefined frame,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_S_7 subclauses 2.9, 5.8.4 TC27079
Ensure that the IUT in state 7.0, having transmitted an I frame which is already acknowledged, on receipt of an invalid frame (modulo 8 RR command frame with P = 1),
transmits no frame and remains in the same state.

L2C_D70_S_8 subclauses 2.9, 5.8.4 TC27058
Ensure that the IUT in state 7.0, on receipt of an I frame with P = 0 which contains a frame check sequence error,
transmits no frame and remains in the same state.

L2C_D70_S_9 subclauses 2.9, 5.8.4 TC27077
Ensure that the IUT in state 7.0, having transmitted a RR response frame with F = 1, on receipt of an I frame with P = 0 which contains a frame check sequence error,
transmits no frame and remains in the same state.

6.2.2.6 DL state 7.0 with outstanding I frames

6.2.2.6.1 Valid behaviour

L2C_D70OI_V_1 subclause 5.6.3.2, table D.2/4-3 TC27075
Ensure that the IUT in state 7.0, having transmitted two I frames, on receipt of a RR response frame with F = 0,
transmits no frame and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D70OI_V_2 subclause 5.6.3.2, table D.2/4-5 TC27060
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a RR command frame with P = 1 which does not acknowledge the last transmitted I frame,
transmits a RR response frame with F = 1 and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D70OI_V_3 subclause 5.6.3.2, table D.2/4-6 TC27059
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a RR command frame with P = 0 which does not acknowledge the last transmitted I frame,
transmits no frame and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D70OI_V_4 subclause 5.6.3.2, table D.2/4-7 TC27061
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a RR response frame with F = 0 which does not acknowledge the last transmitted I frame,
transmits no frame and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D70OI_V_5 subclause 5.6.4 a), table D.2/5-5 TC27064
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a REJ command frame with P = 1,
transmits a RR response frame with F = 1, subsequently the rejected I frames and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 1: An I frame will be received as soon as the IUT is able to send it.

L2C_D70OI_V_6 subclause 5.6.4 a), table D.2/5-6 TC27063
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a REJ command frame with P = 0,
transmits the rejected I frames and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 2: An I frame will be received as soon as the IUT is able to send it.

L2C_D70OI_V_7 subclause 5.6.4 a), table D.2/5-7 **TC27074**
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a REJ response frame with F = 0,
transmits the rejected I frames and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 3: An I frame will be received as soon as the IUT is able to send it.

L2C_D70OI_V_8 subclause 5.6.5, table D.2/6-5 **TC27067**
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a RNR command frame with P = 1 which does not acknowledge the last transmitted I frame,
transmits a RR response frame with F = 1 and enters state 7.4.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D70OI_V_9 subclause 5.6.5, table D.2/6-6 **TC27066**
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a RNR command frame with P = 0 which does not acknowledge the last transmitted I frame,
transmits no frame and enters state 7.4.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D70OI_V_10 subclause 5.6.5, table D.2/6-7 **TC27068**
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a RNR response frame with F = 0 which does not acknowledge the last transmitted I frame,
transmits no frame and enters state 7.4.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D70OI_V_11 subclause 5.6.3.2, table D.2/7-5 **TC27071**
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 1 which does not acknowledge the last transmitted I frame,
transmits a RR response frame with F = 1 and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D70OI_V_12 subclause 5.6.3.2, table D.2/7-6 **TC27070**
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 0 which does not acknowledge the last transmitted I frame,
transmits a RR response frame with F = 0 and remains in the same state.
or
transmits an I frame with P = 0 as acknowledgement and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

6.2.2.6.2 Inopportune behaviour

L2C_D70OI_I_1 subclause 5.6.3.2, table D.2/4-8 **TC27062**
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a RR response frame with F = 1 which does not acknowledge the last transmitted I frame,
transmits no frame and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D70OI_I_2 subclause 5.6.4 a), table D.2/5-8 **TC27065**
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a REJ response frame with F = 1,
transmits the rejected I frames and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE: An I frame will be received as soon as the IUT is able to send it.

L2C_D70OI_I_3 subclause 5.6.5, table D.2/6-8 **TC27069**
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a RNR response frame with F = 1 which does not acknowledge the last transmitted I frame,
transmits no frame and enters state 7.4.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D70OI_I_4 subclause 5.8.1, table D.2/7-7 TC27073
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 1 and invalid N(S) which does not acknowledge the last transmitted I frame,
transmits a REJ response frame with F = 1 and enters state 7.1.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D70OI_I_5 subclause 5.8.1, table D.2/7-8 TC27072
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 0 and invalid N(S) which does not acknowledge the last transmitted I frame,
transmits a REJ response frame with F = 0 and enters state 7.1.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

6.2.2.6.3 Timers

L2C_D70_T_1 subclause 5.6.7, table D.2/9-1 TC27078
Ensure that the IUT in state 7.0, having transmitted an I frame with P = 0, on expiry of timer T200,
transmits a RR command frame with P = 1 and enters state 8.0;
or
transmits an I frame with P = 1 and enters state 8.0.
NOTE 1: Simulation of RR frame loss. To test the duration of timer T200 is also part of this test.

L2C_D70_T_2 subclauses 5.6.3.2, 5.6.7, table D.2/9-1 new TC
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged and an I frame with P = 1 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,
transmits a RR command frame with P = 1 and enters state 8.0;
or
transmits an I frame with P = 1 and enters state 8.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 2: To test the duration of timer T200 is also part of this test.

L2C_D70_T_3 subclauses 5.6.3.2, 5.6.7, table D.2/9-1 new TC
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged and an I frame with P = 0 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,
transmits a RR command frame with P = 1 and enters state 8.0;
or
transmits an I frame with P = 1 and enters state 8.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 3: To test the duration of timer T200 is also part of this test.

L2C_D70_T_4 subclauses 5.6.3.2, 5.6.7, table D.2/9-1 new TC
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged and a RR command frame with P = 1 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200
transmits a RR command frame with P = 1 and enters state 8.0;
or
transmits an I frame with P = 1 and enters state 8.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 4: To test the duration of timer T200 is also part of this test.

L2C_D70_T_5 subclauses 5.6.3.2, 5.6.7, table D.2/9-1 new TC
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged and a RR command frame with P = 0 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200
transmits a RR command frame with P = 1 and enters state 8.0;
or
transmits an I frame with P = 1 and enters state 8.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 5: To test the duration of timer T200 is also part of this test.

L2C_D70_T_6 subclauses 5.6.3.2, 5.6.7, table D.2/9-1 new TC
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged and a RR response frame with F = 0 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200
transmits a RR command frame with P = 1 and enters state 8.0;
or
transmits an I frame with P = 1 and enters state 8.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 6: To test the duration of timer T200 is also part of this test.

L2C_D70_T_7 subclauses 5.6.3.2, 5.6.7, table D.2/9-1 new TC
Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged and a RR response frame with F = 1 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200
transmits a RR command frame with P = 1 and enters state 8.0;
or
transmits an I frame with P = 1 and enters state 8.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 7: To test the duration of timer T200 is also part of this test.

L2C_D70_T_8 subclauses 5.9.8, 5.10.3, table D.2/9-3 new TC
Ensure that the IUT in state 7.0, on expiry of timer T203,
transmits a RR command frame with P = 1 and enters state 8.0.
Selection: IUT supports the data link layer monitor function, PICS MCu 5.5, TMu 3.
NOTE 8: To test the duration of timer T203 is also part of this test.

6.2.2.7 DL state 7.1

6.2.2.7.1 Valid behaviour

L2C_D71_V_1 subclauses 5.8.1, 5.6.2, table D.2/7-1 TC27101
Ensure that the IUT in state 7.1, on receipt of an I frame with P = 1 and correct send and receive sequence numbers,
transmits a RR response frame with F = 1 and enters state 7.0.

L2C_D71_V_2 subclauses 5.8.1, 5.6.2, table D.2/7-2 TC27102
Ensure that the IUT in state 7.1, on receipt of an I frame with P = 0 and correct send and receive sequence numbers,
transmits a RR response frame with F = 0 and enters state 7.0.
or
transmits an I frame with P = 0 as acknowledgement and enters state 7.0.

6.2.2.7.2 Inopportune behaviour

L2C_D71_I_1 subclause 5.8.1, table D.2/7-3 TC27103
Ensure that the IUT in state 7.1, on receipt of an I frame with P = 1 and invalid N(S),
transmits a RR response frame with F = 1 and remains in the same state.

L2C_D71_I_2 subclause 5.8.1, table D.2/7-4 TC27104
Ensure that the IUT in state 7.1, on receipt of an I frame with P = 0 and invalid N(S),
transmits no frame and remains in the same state.

6.2.2.8 DL state 7.4

6.2.2.8.1 Valid behaviour

L2C_D74_V_1 subclause 5.5.3.2, table D.2/2-5 TC27408
Ensure that the IUT in state 7.4, on receipt of a DISC frame with P = 1,
discards the I queue, transmits an UA frame with F = 1 and enters state 4.

L2C_D74_V_2 subclause 5.6.5, table D.2/4-1 TC27412
Ensure that the IUT in state 7.4, on receipt of a RR command frame with P = 1,
transmits a RR response frame with F = 1 and enters state 7.0.

L2C_D74_V_3 subclause 5.6.5, table D.2/4-3 TC27413
Ensure that the IUT in state 7.4, on receipt of a RR response frame with F = 0,
transmits no frame and enters state 7.0.

L2C_D74_V_4 subclauses 5.6.1, 5.6.5, table D.2/4-3 TC27467
Ensure that the IUT in state 7.4, having received a RNR response frame with F = 1 and subsequently an I frame with P = 0, on receipt of a RR response frame with F = 0,
transmits the corresponding I frame and enters state 7.0.
NOTE 1: The I frame should contain a layer 3 message to the IUT requesting a response. No I frame should be received during peer busy condition.

L2C_D74_V_5 subclauses 5.6.4, 5.6.5, table D.2/5-5 TC27405
Ensure that the IUT in state 7.4, on receipt of a REJ command frame with P = 1,
transmits a RR response frame with F = 1 and enters state 7.0.

L2C_D74_V_6 subclauses 5.6.4, 5.6.5, table D.2/5-6 TC27406
Ensure that the IUT in state 7.4, on receipt of a REJ command frame with P = 0,
transmits no frame and enters state 7.0.

L2C_D74_V_7 subclauses 5.6.4, 5.6.5, table D.2/5-7 TC27407
Ensure that the IUT in state 7.4, on receipt of a REJ response frame with F = 0,
transmits no frame and enters state 7.0.

L2C_D74_V_8 subclause 5.6.5, table D.2/6-1 TC27414
Ensure that the IUT in state 7.4, on receipt of a RNR command frame with P = 1,
transmits a RR response frame with F = 1 and remains in the same state.

L2C_D74_V_9 subclause 5.6.5, table D.2/6-2 TC27415
Ensure that the IUT in state 7.4, on receipt of a RNR command frame with P = 0,
transmits no frame and remains in the same state.

L2C_D74_V_10 subclause 5.6.5, table D.2/6-3 TC27416
Ensure that the IUT in state 7.4, on receipt of a RNR response frame with F = 0,
transmits no frame and remains in the same state.

L2C_D74_V_11 subclauses 5.6.5, 5.6.3.2, table D.2/7-1 TC27403
Ensure that the IUT in state 7.4, on receipt of an I frame with P = 1,
transmits a RR response frame with F = 1 and remains in the same state.
NOTE 2: The I frame should contain a layer 3 message to the IUT requesting a response.

L2C_D74_V_12 subclauses 5.6.1, 5.6.5, table D.2/7-2 TC28406
Ensure that the IUT in state 7.4, on receipt of an I frame with P = 0,
transmits a RR response frame with F = 0 and remains in state 7.4.

L2C_D74_V_13 subclauses 5.6.1, 5.6.5, table D.2/7-2 TC27404
Ensure that the IUT in state 7.4, on receipt of an I frame with P = 0,
transmits a RR response frame with F = 0 and remains in the same state.
NOTE 3: The I frame should contain a layer 3 message to the IUT requesting a response.

6.2.2.8.2 Inopportune behaviour

L2C_D74_I_1 subclause 5.7.1, table D.2/2-1 TC27418
Ensure that the IUT in state 7.4, on receipt of a SABME frame with P = 1,
transmits an UA frame with F = 1 and enters state 7.0.

L2C_D74_I_2 subclause 5.7.1, table D.2/2-3 TC27419
Ensure that the IUT in state 7.4, on receipt of a SABME frame with P = 0,
transmits an UA frame with F = 0 and enters state 7.0.

L2C_D74_I_3 subclause 5.5.3.2, table D.2/2-6 TC27409
Ensure that the IUT in state 7.4, on receipt of a DISC frame with P = 0,
discards the I queue, transmits an UA frame with F = 0 and enters state 4.

L2C_D74_I_4 subclause 5.8.7, table 9, table D.2/2-9 TC27429
Ensure that the IUT in state 7.4, on receipt of an unsolicited DM frame with F = 1,
transmits no frame and remains in the same state.

L2C_D74_I_5 subclauses 5.7.1, 5.8.7, table 9, table D.2/2-10 TC27420
Ensure that the IUT in state 7.4, on receipt of an unsolicited DM frame with F = 0,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_6 subclause 5.6.5, 5.7.1, 5.8.6, table D.2/3-5 TC27444
Ensure that the IUT in state 7.4, on receipt of a FRMR response frame with F = 1 rejecting an I frame,
transmits a SABME frame with P = 1 and enters state 5.1.
NOTE: The IUT should have sent an I frame before having received the FRMR response frame.

L2C_D74_I_7 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/4-13 TC27432
Ensure that the IUT in state 7.4, on receipt of a RR command frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_8 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/4-14 TC27435
Ensure that the IUT in state 7.4, on receipt of a RR command frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_9 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/4-15 TC27441
Ensure that the IUT in state 7.4, on receipt of a RR response frame with F = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_10 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/4-16 TC27438
Ensure that the IUT in state 7.4, on receipt of a RR response frame with F = 1 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_11 subclauses 5.6.5, 5.6.4, table D.2/5-8 TC27431
Ensure that the IUT in state 7.4, on receipt of a REJ response frame with F = 1,
transmits the corresponding I frame and enters state 7.0.

L2C_D74_I_12 subclauses 5.6.4, 5.6.5, 5.7.1, 5.8.2, 5.8.5, table D.2/5-9 TC27434
Ensure that the IUT in state 7.4, on receipt of a REJ command frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_13 subclauses 5.6.4, 5.6.5, 5.7.1, 5.8.2, 5.8.5, table D.2/5-10 TC27437
Ensure that the IUT in state 7.4, on receipt of a REJ command frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_14 subclauses 5.6.4, 5.6.5, 5.7.1, 5.8.2, 5.8.5, table D.2/5-11 TC27443
Ensure that the IUT in state 7.4, on receipt of a REJ response frame with F = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_15 subclauses 5.6.4, 5.6.5, 5.7.1, 5.8.2, 5.8.5, table D.2/5-12 TC27440
Ensure that the IUT in state 7.4, on receipt of a REJ response frame with F = 1 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_16 subclause 5.6.5, table D.2/6-4 TC27430
Ensure that the IUT in state 7.4, on receipt of a RNR response frame with F = 1,
transmits no frame and remains in the same state.

L2C_D74_I_17 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-9 TC27433
Ensure that the IUT in state 7.4, on receipt of a RNR command frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_18 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-10 TC27436
Ensure that the IUT in state 7.4, on receipt of a RNR command frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_19 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-11 TC27442
Ensure that the IUT in state 7.4, on receipt of a RNR response frame with F = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_20 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-12 TC27439
Ensure that the IUT in state 7.4, on receipt of a RNR response frame with F = 1 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_21 subclauses 3.6.7, 5.8.1, table D.2/7-3 TC27423
Ensure that the IUT in state 7.4, on receipt of an I frame with P = 1 and invalid N(S),
transmits a REJ response frame with F = 1 and enters state 7.5.

L2C_D74_I_22 subclauses 3.6.7, 5.8.1, table D.2/7-4 TC27424
Ensure that the IUT in state 7.4, on receipt of an I frame with P = 0 and invalid N(S),
transmits a REJ response frame with F = 0 and enters state 7.5.

L2C_D74_I_23 subclause 5.7.1, 5.8.2, 5.8.5, table D.2/8-5 TC27421
Ensure that the IUT in state 7.4, on receipt of an I frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_24 subclause 5.7.1, 5.8.2, 5.8.5, table D.2/8-6 TC27422
Ensure that the IUT in state 7.4, on receipt of an I frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_25 subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-7 TC27425
Ensure that the IUT in state 7.4, on receipt of an I frame with P = 1 and invalid N(R) and N(S),
transmits a REJ response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D74_I_26 subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-8 TC27426
Ensure that the IUT in state 7.4, on receipt of an I frame with P = 0 and invalid N(R) and N(S),
transmits a REJ response frame with F = 0, subsequently a SABME frame with P = 1 and enters state 5.1.

6.2.2.8.3 Syntactically invalid

L2C_D74_S_1 subclause 5.8.5, table D.2/10-2 TC27446
Ensure that the IUT in state 7.4, on receipt of a DISC frame with P = 1 which contains an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_S_2 subclause 5.8.5, table D.2/10-5 TC27448
Ensure that the IUT in state 7.4, on receipt of a FRMR response frame with F = 0 which contains an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_S_3 subclause 5.8.5, table D.2/10-6 TC27447
Ensure that the IUT in state 7.4, on receipt of a RR command frame with P = 1 which contains an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_S_4 subclauses 5.8.5, 5.9, table D.2/10-7 TC27445
Ensure that the IUT in state 7.4, on receipt of an I frame with an information field which exceeds N201 octets,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_S_5 subclause 5.8.5, table D.2/10-8 TC27449
Ensure that the IUT in state 7.4, on receipt of an undefined frame,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_S_6 subclause 2.9, 5.8.5 TC27450
Ensure that the IUT in state 7.4, on receipt of an I frame with P = 0 which contains a frame check sequence error,
transmits no frame and remains in the same state.

6.2.2.9 DL state 7.4 with outstanding I frames

6.2.2.9.1 Valid behaviour

L2C_D74OI_V_1 subclause 5.6.4 a), table D.2/5-5 TC27456
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a REJ command frame with P = 1,
transmits a RR response frame with F = 1, subsequently the rejected I frames and enters state 7.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 1: An I frame will be received as soon as the IUT is able to send it.

L2C_D74OI_V_2 subclause 5.6.4 a), table D.2/5-6 TC27455
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a REJ command frame with P = 0,
transmits the rejected I frames and enters state 7.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 2: An I frame will be received as soon as the IUT is able to send it.

L2C_D74OI_V_3 subclause 5.6.4 a), table D.2/5-7 TC27457
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a REJ response frame with F = 0,
transmits the rejected I frames and enters state 7.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 3: An I frame will be received as soon as the IUT is able to send it.

L2C_D74OI_V_4 subclause 5.6.5, table D.2/6-5 TC27460
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a RNR command frame with P = 1 which does not acknowledge the last transmitted I frame,
transmits a RR response frame with F = 1 and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D74OI_V_5 subclause 5.6.5, table D.2/6-6 TC27459
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a RNR command frame with P = 0 which does not acknowledge the last transmitted I frame,
transmits no frame and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D74OI_V_6 subclause 5.6.5, table D.2/6-7 TC27461
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a RNR response frame with F = 0 which does not acknowledge the last transmitted I frame,
transmits no frame and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D74OI_V_7 subclause 5.6.3.2, table D.2/7-5 TC27464
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 1 which does not acknowledge the last transmitted I frame,
transmits a RR response frame with F = 1 and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D74OI_V_8 subclause 5.6.3.2, table D.2/7-6 TC27463
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 0 which does not acknowledge the last transmitted I frame,
transmits a RR response frame with F = 0 and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

6.2.2.9.2 Inopportune behaviour

L2C_D74OI_I_1 subclause 5.6.4 a), table D.2/5-8 TC27458
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a REJ response frame with F = 1,
transmits the rejected I frames and enters state 7.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE: An I frame will be received as soon as the IUT is able to send it.

L2C_D74OI_I_2 subclause 5.6.5, table D.2/6-8 TC27462
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a RNR response frame with F = 1 which does not acknowledge the last transmitted I frame,
transmits no frame and remain in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D74OI_I_3 subclause 5.8.1, table D.2/7-7 TC27466
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 1 and invalid N(S) which does not acknowledge the last transmitted I frame,
transmits a REJ response frame with F = 1 and enters state 7.5.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D74OI_I_4 subclause 5.8.1, table D.2/7-8 TC27465
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 0 and invalid N(S) which does not acknowledge the last transmitted I frame,
transmits a REJ response frame with F = 0 and enters state 7.5.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

6.2.2.9.3 Timers

L2C_D74_T_1 subclause 5.6.7, table D.2/9-1 TC27452
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged and a RR command frame with P = 1 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,
transmits a RR command frame with P = 1 and enters state 8.0;
or
transmits an I frame with P = 1 and enters state 8.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 1: To test the duration of timer T200 is also part of this test.

L2C_D74_T_2 subclause 5.6.7, table D.2/9-1 TC27451
Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged and a RR command frame with P = 0 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,
transmits a RR command frame with P = 1 and enters state 8.0;
or
transmits an I frame with P = 1 and enters state 8.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.
NOTE 2: To test the duration of timer T200 is also part of this test.

L2C_D74_T_3 subclause 5.6.7, table D.2/9-1 TC27453

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged and a RR response frame with F = 0 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,

transmits a RR command frame with P = 1 and enters state 8.0;

or

transmits an I frame with P = 1 and enters state 8.0.

Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

NOTE 3: To test the duration of timer T200 is also part of this test.

L2C_D74_T_4 subclause 5.6.7, table D.2/9-1 TC27454

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged and a RR response frame with F = 1 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,

transmits a RR command frame with P = 1 and enters state 8.0;

or

transmits an I frame with P = 1 and enters state 8.0.

Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

NOTE 4: To test the duration of timer T200 is also part of this test.

L2C_D74_T_5 subclause 5.6.5, table D.2/9-1 new TC

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged and a RNR command frame with P = 1 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,

transmits a RR command frame with P = 1 and enters state 8.4.

Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

NOTE 5: To test the duration of timer T200 is also part of this test.

L2C_D74_T_6 subclause 5.6.5, table D.2/9-1 new TC

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged and a RNR command frame with P = 0 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200

transmits a RR command frame with P = 1 and enters state 8.4.

Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

NOTE 6: To test the duration of timer T200 is also part of this test.

L2C_D74_T_7 subclause 5.6.5, table D.2/9-1 new TC

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged and a RNR response frame with F = 0 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,

transmits a RR command frame with P = 1 and enters state 8.4.

Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

NOTE 7: To test the duration of timer T200 is also part of this test.

L2C_D74_T_8 subclause 5.6.5, table D.2/9-1 new TC

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged and a RNR response frame with F = 1 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,

transmits a RR command frame with P = 1 and enters state 8.4.

Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

NOTE 8: To test the duration of timer T200 is also part of this test.

L2C_D74_T_9 subclause 5.6.5, table D.2/9-1 new TC

Ensure that the IUT in state 7.4, on expiry of timer T200,

transmits a RR command frame with P = 1 and enters state 8.4.

NOTE 9: To test the duration of timer T200 is also part of this test.

L2C_D74_T_10 subclause 5.6.5, table D.2/9-1 TC27417

Ensure that the IUT in state 7.4, on expiry of timer T200,

transmits a RR command frame with P = 1 and enters state 8.4.

NOTE 10: To test the duration of timer T200 is also part of this test.

6.2.2.10 DL state 7.5

6.2.2.10.1 Valid behaviour

L2C_D75_V_1 subclauses 5.8.1, 5.6.2, table D.2/7-1 TC27501
Ensure that the IUT in state 7.5, on receipt of an I frame with P = 1,
transmits a RR response frame with F = 1 and enters state 7.4.

L2C_D75_V_2 subclauses 5.8.1, 5.6.2, table D.2/7-2 TC27502
Ensure that the IUT in state 7.5, on receipt of an I frame with P = 0,
transmits a RR response frame with F = 0 and enters state 7.4.

6.2.2.10.2 Inopportune behaviour

L2C_D75_I_1 subclause 5.8.1, table D.2/7-3 TC27503
Ensure that the IUT in state 7.5, on receipt of an I frame with P = 1 and invalid N(S),
transmits a RR response frame with F = 1 and remains in the same state.

L2C_D75_I_2 subclause 5.8.1, table D.2/7-4 TC27504
Ensure that the IUT in state 7.5, on receipt of an I frame with P = 0 and invalid N(S),
transmits no frame and remains in the same state.

6.2.2.11 DL state 8.0

6.2.2.11.1 Valid behaviour

L2C_D80_V_1 subclause 5.5.3.2, table D.3/2-5 TC28003
Ensure that the IUT in state 8.0, on receipt of a DISC frame with P = 1,
discards the I queue, transmits an UA frame with F = 1 and enters state 4.

L2C_D80_V_2 subclause 5.5.3.2, table D.3/2-6 TC28004
Ensure that the IUT in state 8.0, on receipt of a DISC frame with P = 0,
discards the I queue, transmits an UA frame with F = 0 and enters state 4.

L2C_D80_V_3 subclause 5.6.3, table D.3/4-4 TC27015
Ensure that the IUT in state 8.0, having transmitted a RR command frame with P = 1 or an I frame with P = 1, on receipt of a RR response frame with F = 1 which does not acknowledge the last transmitted I frame,
transmits an I frame with P = 0, and enters state 7.0.
NOTE 1: Simulation of I frame loss.

L2C_D80_V_4 subclause 5.6.4, table D.3/5-3 TC28029
Ensure that the IUT in state 8.0, on receipt of a REJ response frame with F = 0,
transmits no frame and remains in the same state.

L2C_D80_V_5 subclause 5.6.4, table D.3/5-4 TC28005
Ensure that the IUT in state 8.0, having transmitted an I frame with P = 0, on receipt of a REJ response frame with F = 1,
transmits the corresponding I frame and enters state 7.0.
NOTE 2: An I frame will be received as soon as the IUT is able to send it.

L2C_D80_V_6 subclause 5.6.4, table D.3/5-4 TC28053
Ensure that the IUT in state 8.0, having transmitted an I frame with P = 0, on receipt of a REJ response frame with F = 1,
transmits a RR response frame with F = 1, subsequently transmits the corresponding I frame and enters state 7.0.
NOTE 3: An I frame will be received as soon as the IUT is able to send it.

L2C_D80_V_7 subclause 5.6.5, table D.3/6-1 TC28022
Ensure that the IUT in state 8.0, on receipt of a RNR command frame with P = 1,
transmits a RR response frame with F = 1 and enters state 8.4.

L2C_D80_V_8 subclause 5.6.5, table D.3/6-4 TC28006
Ensure that the IUT in state 8.0, having transmitted an I frame with P = 0, on receipt of a RNR response frame with F = 1,
transmits no frame and enters state 7.4.

6.2.2.11.2 Inopportune behaviour

L2C_D80_I_1 subclauses 5.7.1, 5.7.2, table D.3/2-1 TC28007
Ensure that the IUT in state 8.0, on receipt of a SABME frame with P = 1,
transmits an UA frame with F = 1 and enters state 7.0.

L2C_D80_I_2 subclauses 5.7.1, 5.7.2, table D.3/2-3 TC28008
Ensure that the IUT in state 8.0, on receipt of a SABME frame with P = 0,
transmits an UA frame with F = 0 and enters state 7.0.

L2C_D80_I_3 subclause 5.8.7, table 9, table D.3/2-9 TC28009
Ensure that the IUT in state 8.0, on receipt of a DM frame with F = 1,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_4 subclauses 5.7.1, 5.8.7, table 9, table D.3/2-10 TC28010
Ensure that the IUT in state 8.0, on receipt of an unsolicited DM frame with F = 0,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_5 subclauses 5.7.1, 5.8.6, table D.3/3-5 TC28042
Ensure that the IUT in state 8.0, on receipt of a FRMR response frame with F = 1 rejecting an I frame,
transmits a SABME frame with P = 1 and enters state 5.1.
NOTE 1: The IUT should have sent an I frame before having received the FRMR response frame.

L2C_D80_I_6 subclauses 5.6.3, 5.6.7, table D.3/4-1 TC28021
Ensure that the IUT in state 8.0, on receipt of a RR command frame with P = 1,
transmits a RR response frame with F = 1 and remains in the same state.

L2C_D80_I_7 subclauses 5.6.3, 5.6.7, table D.3/4-2 TC28024
Ensure that the IUT in state 8.0, on receipt of a RR command frame with P = 0,
transmits no frame and remains in the same state.

L2C_D80_I_8 subclause 5.8.7, table 9, table D.3/4-3 TC28027
Ensure that the IUT in state 8.0, on receipt of a RR response frame with F = 0,
transmits no frame and remains in the same state.

L2C_D80_I_9 subclauses 5.6.3, 5.6.7, table D.3/4-4 TC28012
Ensure that the IUT in state 8.0, having received I frames containing layer 3 messages requesting a response, on receipt of a RR response frame with F = 1,
transmits an I frame with P = 0 and enters state 7.0.

L2C_D80_I_10 subclauses 5.8.2, 5.8.5, table D.3/4-5 TC28030
Ensure that the IUT in state 8.0, on receipt of a RR command frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_11 subclauses 5.8.2, 5.8.5, table D.3/4-6 TC28033
Ensure that the IUT in state 8.0, on receipt of a RR command frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_12 subclauses 5.8.2, 5.8.5, table D.3/4-7 TC28039
Ensure that the IUT in state 8.0, on receipt of a RR response frame with F = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_13 subclauses 5.8.2, 5.8.5, table D.3/4-8 TC28036
Ensure that the IUT in state 8.0, on receipt of a RR response frame with F = 1 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_14 subclause 5.6.4, table D.3/5-1 TC28023
Ensure that the IUT in state 8.0, having transmitted an I frame with P = 0, on receipt of a REJ command frame with P = 1,
transmits a RR response frame with F = 1 and remains in the same state.

L2C_D80_I_15 subclause 5.6.4, table D.3/5-2 TC28026
Ensure that the IUT in state 8.0, on receipt of a REJ command frame with P = 0,
transmits no frame and remains in the same state.

L2C_D80_I_16 subclauses 5.8.2, 5.8.5, table D.3/5-5 TC28032
Ensure that the IUT in state 8.0, on receipt of a REJ command frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_17 subclauses 5.8.2, 5.8.5, table D.3/5-6 TC28035
Ensure that the IUT in state 8.0, on receipt of a REJ command frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_18 subclauses 5.8.2, 5.8.5, table D.3/5-7 TC28041
Ensure that the IUT in state 8.0, on receipt of a REJ response frame with F = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_19 subclauses 5.8.2, 5.8.5, table D.3/5-8 TC28038
Ensure that the IUT in state 8.0, on receipt of a REJ response frame with F = 1 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_20 subclause 5.6.5, table D.3/6-2 TC28025
Ensure that the IUT in state 8.0, on receipt of a RNR command frame with P = 0,
transmits no frame and enters state 8.4.

L2C_D80_I_21 subclause 5.6.5, table D.3/6-3 TC28028
Ensure that the IUT in state 8.0, on receipt of a RNR response frame with F = 0,
transmits no frame and enters state 8.4.

L2C_D80_I_22 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-5 TC28031
Ensure that the IUT in state 8.0, on receipt of a RNR command frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_23 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-6 TC28034
Ensure that the IUT in state 8.0, on receipt of a RNR command frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_24 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-7 TC28040
Ensure that the IUT in state 8.0, on receipt of a RNR response frame with F = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_25 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-8 TC28037
Ensure that the IUT in state 8.0, on receipt of a RNR response frame with F = 1 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_26 subclause 5.6.3.2, table D.3/7-1 TC28011
Ensure that the IUT in state 8.0, having transmitted an I frame with P = 0, on receipt of an I frame with P = 1,
transmits a RR response frame with F = 1 and remains in the same state.
NOTE 2: An I frame with P = 1 and N(R) = V(A)+1 is accepted as acknowledgement.

L2C_D80_I_27 subclause 5.6.3.2, table D.3/7-2 new TC
Ensure that the IUT in state 8.0, having transmitted an I frame with P = 0, on receipt of an I frame with P = 0,
transmits a RR response frame with F = 0 and remains in the same state;
or
transmits an I frame with P = 0 as acknowledgement and remains in the same state.
NOTE 3: An I frame with P = 0 and N(R) = V(A)+1 is accepted as acknowledgement.

L2C_D80_I_28 subclauses 5.6.2.1, 5.8.1, table D.3/7-3 TC28015
Ensure that the IUT in state 8.0, on receipt of an I frame with P = 1 and invalid N(S),
transmits a REJ response frame with F = 1 and enters state 8.1.

L2C_D80_I_29 subclauses 5.6.2.2, 5.8.1, table D.3/7-4 TC28016
Ensure that the IUT in state 8.0, on receipt of an I frame with P = 0 and invalid N(S),
transmits a REJ response frame with F = 0 and enters state 8.1.

L2C_D80_I_30 subclauses 5.6.2.1, 5.7.1, 5.8.2, 5.8.5, table D.3/8-5 TC28013
Ensure that the IUT in state 8.0, on receipt of an I frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_31 subclauses 5.6.2.2, 5.7.1, 5.8.2, 5.8.5, table D.3/8-6 TC28014
Ensure that the IUT in state 8.0, on receipt of an I frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_32 subclauses 5.6.2.1, 5.7.1, 5.8.2, 5.8.5, table D.3/8-7 TC28017
Ensure that the IUT in state 8.0, on receipt of an I frame with P = 1 and invalid N(R) and N(S),
transmits a REJ response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_33 subclauses 5.6.2.2, 5.7.1, 5.8.2, 5.8.5, table D.3/8-8 TC28018
Ensure that the IUT in state 8.0, on receipt of an I frame with P = 0 and invalid N(R) and N(S),
transmits a REJ response frame with F = 0, subsequently a SABME frame with P = 1 and enters state 5.1.

6.2.2.11.3 Syntactically invalid

L2C_D80_S_1 subclause 5.8.5, table D.3/10-2 TC28044
Ensure that the IUT in state 8.0, on receipt of a DISC frame with P = 1 which contains an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_S_2 subclause 5.8.5, table D.3/10-5 TC28046
Ensure that the IUT in state 8.0, on receipt of a FRMR response frame with F = 0 which contains an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_S_3 subclause 5.8.5, table D.3/10-6 TC28045
Ensure that the IUT in state 8.0, on receipt of a RR command frame with P = 1 which contains an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_S_4 subclause 5.8.5, table D.3/10-7 TC28043
Ensure that the IUT in state 8.0, on receipt of an I frame with an information field which exceeds N201 octets,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_S_5 subclause 5.8.5, table D.3/10-8 TC28047
Ensure that the IUT in state 8.0, on receipt of an undefined frame,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D80_S_6 subclauses 2.9, 5.8.4 TC28048
Ensure that the IUT in state 8.0, on receipt of an I frame with P = 0 which contains a frame check sequence error,
transmits no frame and remains in the same state.

6.2.2.12 DL state 8.0 with outstanding I frames

6.2.2.12.1 Valid behaviour

L2C_D80OI_V_1 subclause 5.6.3.2, table D.3/7-5 TC28050
Ensure that the IUT in state 8.0, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 1 which does not acknowledge the last transmitted I frame,
transmits a RR response frame with F = 1 and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D80OI_V_2 subclause 5.6.3.2, table D.3/7-6 TC28049
Ensure that the IUT in state 8.0, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 0 which does not acknowledge the last transmitted I frame,
transmits a RR response frame with F = 0 as acknowledgement and remains in the same state;
or
transmits an I frame with P = 0 as acknowledgement and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

6.2.2.12.2 Inopportune behaviour

L2C_D80OI_I_1 subclause 5.8.1, table D.3/7-7 TC28052
Ensure that the IUT in state 8.0, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 1 and invalid N(S) which does not acknowledge the last transmitted I frame,
transmits a REJ response frame with F = 1 and enters state 8.1.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D80OI_I_2 subclause 5.8.1, table D.3/7-8 TC28051
Ensure that the IUT in state 8.0, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 0 and invalid N(S) which does not acknowledge the last transmitted I frame,
transmits a REJ response frame with F = 0 and enters state 8.1.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

6.2.2.12.3 Timers

L2C_D80_T_1 subclause 5.6.5, table D.3/9-1 new TC
Ensure that the IUT in state 8.0, on expiry of timer T200,
transmits RR command frames with P = 1 and remains in the same state;
or
transmits I frames with P = 1 and remains in the same state.
NOTE 1: To test the duration of timer T200 is also part of this test.

L2C_D80_T_2 subclause 5.6.5, table D.3/9-2 new TC
Ensure that the IUT in state 8.0, on expiry of timer T200,
transmits RR command frames with P = 1 and remains in the same state.
NOTE 2: To test the duration of timer T200 is also part of this test.

6.2.2.12.4 Counters

L2C_D80_C_1 subclause 5.6.7, table D.3/9-3 new TC
Ensure that the IUT in state 8.0, having transmitted N200 times RR command frames with P = 1 or I frames with P = 1,
transmits a SABME frame with P = 1 and enters state 5.1.

6.2.2.13 DL state 8.1

6.2.2.13.1 Valid behaviour

L2C_D81_V_1 subclauses 5.8.1, 5.6.2, table D.3/7-1 TC28101
Ensure that the IUT in state 8.1, on receipt of an I frame with P = 1 and correct send and receive sequence numbers,
transmits a RR response frame with F = 1 and enters state 8.0.

L2C_D81_V_2 subclauses 5.8.1, 5.6.2, table D.3/7-2 TC28102
Ensure that the IUT in state 8.1, on receipt of an I frame with P = 0 and correct send and receive sequence numbers,
transmits a RR response frame with F = 0 as acknowledgement and enters state 8.0;
or
transmits an I frame with P = 0 as acknowledgement and enters state 8.0.

6.2.2.13.2 Inopportune behaviour

L2C_D81_I_1 subclause 5.8.1, table D.3/7-7 TC28103
Ensure that the IUT in state 8.1, on receipt of an I frame with P = 1 and invalid N(S),
transmits a RR response frame with F = 1 and remains in the same state.

L2C_D81_I_2 subclause 5.8.1, table D.3/7-8 TC28104
Ensure that the IUT in state 8.1, on receipt of an I frame with P = 0 and invalid N(S),
transmits no frame and remains in the same state.

6.2.2.14 DL state 8.4

6.2.2.14.1 Valid behaviour

L2C_D84_V_1 subclause 5.5.3.2, table D.3/2-5 TC28402
Ensure that the IUT in state 8.4, on receipt of a DISC frame with P = 1,
discards the I queue, transmits an UA frame with F = 1 and enters state 4.

L2C_D84_V_2 subclause 5.5.3.2, table D.3/2-6 TC28403
Ensure that the IUT in state 8.4, on receipt of a DISC frame with P = 0,
discards the I queue, transmits an UA frame with F = 0 and enters state 4.

L2C_D84_V_3 subclause 5.6.5, table D.3/4-4 TC28405
Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 1,
transmits no frame and enters state 7.0.

L2C_D84_V_4 subclauses 5.6.1, 5.6.5, table D.3/4-4 new TC
Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 1,
transmits the corresponding I frame and enters state 7.0.
NOTE 3: No I frame should be received during peer busy condition.

L2C_D84_V_5 subclauses 5.6.4, 5.6.5, table D.3/5-4 TC28407
Ensure that the IUT in state 8.4, on receipt of a REJ response frame with F = 1,
transmits no frame and enters state 7.0.

6.2.2.14.2 Inopportune behaviour

L2C_D84_I_1 subclause 5.7.1, table D.3/2-1 TC28408
Ensure that the IUT in state 8.4, on receipt of a SABME frame with P = 1,
transmits an UA frame with F = 1 and enters state 7.0.

L2C_D84_I_2 subclause 5.7.1, table D.3/2-3 TC28409
Ensure that the IUT in state 8.4, on receipt of a SABME frame with P = 0,
transmits an UA frame with F = 1 and enters state 7.0.

L2C_D84_I_3 subclause 5.8.7, table 9, table D.3/2-9 TC28410
Ensure that the IUT in state 8.4, on receipt of a DM frame with F = 1,
transmits a SABME frame with P = 1 and enters state 5.1

L2C_D84_I_4 subclause 5.8.7, table 9, table D.3/2-10 TC28411
Ensure that the IUT in state 8.4, on receipt of an unsolicited DM frame with F = 0,
transmits a SABME frame with P = 1 and enters state 5.1

L2C_D84_I_5 subclauses 5.6.5, 5.7.1, 5.8.6, table D.3/3-5 TC28443
Ensure that the IUT in state 8.4, on receipt of a FRMR response frame with F = 1 rejecting an I frame,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_6 subclauses 5.6.3, 5.6.7, table D.3/4-1 TC28422
Ensure that the IUT in state 8.4, on receipt of a RR command frame with P = 1,
transmits a RR response frame with F = 1 and enters state 8.0.

L2C_D84_I_7 subclauses 5.6.3, 5.6.7, table D.3/4-2 TC28425
Ensure that the IUT in state 8.4, on receipt of a RR command frame with P = 0,
transmits no frame and enters state 8.0.

L2C_D84_I_8 subclauses 5.6.3, 5.6.7, table D.3/4-3 TC28428
Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 0,
transmits no frame and enters state 8.0.

L2C_D84_I_9 subclauses 5.8.2, 5.8.5, table D.3/4-5 TC28431
Ensure that the IUT in state 8.4, on receipt of a RR command frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_10 subclauses 5.8.2, 5.8.5, table D.3/4-6 TC28434
Ensure that the IUT in state 8.4, on receipt of a RR command frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_11 subclauses 5.8.2, 5.8.5, table D.3/4-7 TC28440
Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_12 subclauses 5.8.2, 5.8.5, table D.3/4-8 TC28437
Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 1 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_13 subclause 5.6.4, table D.3/5-1 TC28424
Ensure that the IUT in state 8.4, on receipt of a REJ command frame with P = 1,
transmits a RR response frame with F = 1 and enters state 8.0.

L2C_D84_I_14 subclause 5.6.4, table D.3/5-2 TC28427
Ensure that the IUT in state 8.4, on receipt of a REJ command frame with P = 0,
transmits no frame and enters state 8.0.

L2C_D84_I_15 subclause 5.6.4, table D.3/5-3 TC28430
Ensure that the IUT in state 8.4, on receipt of a REJ response frame with F = 0,
transmits no frame and enters state 8.0.

L2C_D84_I_16 subclauses 5.8.2, 5.8.5, table D.3/5-5 TC28433
Ensure that the IUT in state 8.4, on receipt of a REJ command frame with P = 1 and invalid N(R),
transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_17 subclauses 5.8.2, 5.8.5, table D.3/5-6 TC28436
Ensure that the IUT in state 8.4, on receipt of a REJ command frame with P = 0 and invalid N(R),
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_18 subclauses 5.8.2, 5.8.5, table D.3/5-7 TC28442
Ensure that the IUT in state 8.4, on receipt of a REJ response frame with F = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_19 subclauses 5.8.2, 5.8.5, table D.3/5-8 TC28439
Ensure that the IUT in state 8.4, on receipt of a REJ response frame with F = 1 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_20 subclause 5.6.5, table D.3/6-1 TC28423
Ensure that the IUT in state 8.4, on receipt of a RNR command frame with P = 1, transmits a RR response frame with F = 1 and remains in the same state.

L2C_D84_I_21 subclause 5.6.5, table D.3/6-2 TC28426
Ensure that the IUT in state 8.4, on receipt of a RNR command frame with P = 0, transmits no frame and remains in the same state.

L2C_D84_I_22 subclause 5.6.5, table D.3/6-3 TC28429
Ensure that the IUT in state 8.4, on receipt of a RNR response frame with F = 0, transmits no frame and remains in the same state.

L2C_D84_I_23 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-5 TC28432
Ensure that the IUT in state 8.4, on receipt of a RNR command frame with P = 1 and invalid N(R), transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_24 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-6 TC28435
Ensure that the IUT in state 8.4, on receipt of a RNR command frame with P = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_25 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-7 TC28441
Ensure that the IUT in state 8.4, on receipt of a RNR response frame with F = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_26 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-8 TC28438
Ensure that the IUT in state 8.4, on receipt of a RNR response frame with F = 1 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_27 subclause 5.6.3.2, table D.3/7-1 TC28412
Ensure that the IUT in state 8.4, on receipt of an I frame with P = 1, transmits a RR response frame with F = 1 and remains in the same state.

L2C_D84_I_28 subclause 5.6.3.2, table D.3/7-2 TC28413
Ensure that the IUT in state 8.4, on receipt of an I frame with P = 0, transmits a RR response frame with F = 0 and remains in the same state.

L2C_D84_I_29 subclauses 5.6.2.1, 5.8.1, table D.3/7-3 TC28416
Ensure that the IUT in state 8.4, on receipt of an I frame with P = 1 and invalid N(S), transmits a REJ response frame with F = 1 and enters state 8.5.

L2C_D84_I_30 subclauses 5.6.2.2, 5.8.1, table D.3/7-4 TC28417
Ensure that the IUT in state 8.4, on receipt of an I frame with P = 0 and invalid N(S), transmits a REJ response frame with F = 0 and enters state 8.5.

L2C_D84_I_31 subclauses 5.6.2.1, 5.7.1, 5.8.2, 5.8.5, table D.3/8-5 TC28414
Ensure that the IUT in state 8.4, on receipt of an I frame with P = 1 and invalid N(R), transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_32 subclauses 5.6.2.2, 5.7.1, 5.8.2, 5.8.5, table D.3/8-6 TC28415
Ensure that the IUT in state 8.4, on receipt of an I frame with P = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_33 subclauses 5.6.2.1, 5.7.1, 5.8.2, 5.8.5, table D.3/8-7 TC28418
Ensure that the IUT in state 8.4, on receipt of an I frame with P = 1 and invalid N(R) and N(S),
transmits a REJ response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D84_I_34 subclauses 5.6.2.2, 5.7.1, 5.8.2, 5.8.5, table D.3/8-8 TC28419
Ensure that the IUT in state 8.4, on receipt of an I frame with P = 0 and invalid N(R) and N(S),
transmits a REJ response frame with F = 0, subsequently a SABME frame with P = 1 and enters state 5.1.

6.2.2.14.3 Syntactically invalid

L2C_D84_S_1 subclause 5.8.5, table D.3/10-2 TC28445
Ensure that the IUT in state 8.4, on receipt of a DISC frame with P = 1 which contains an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_S_2 subclause 5.8.5, table D.3/10-5 TC28447
Ensure that the IUT in state 8.4, on receipt of a FRMR response frame with F = 0 which contains an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_S_3 subclause 5.8.5, table D.3/10-6 TC28446
Ensure that the IUT in state 8.4, on receipt of a RR command frame with P = 1 which contains an information field,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_S_4 subclause 5.8.5, table D.3/10-7 TC28444
Ensure that the IUT in state 8.4, on receipt of an I frame with an information field which exceeds N201 octets,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_S_5 subclause 5.8.5, table D.3/10-8 TC28448
Ensure that the IUT in state 8.4, on receipt of an undefined 4 octet frame,
transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D84_S_6 subclauses 2.9, 5.8.4 TC28449
Ensure that the IUT in state 8.4, on receipt of an I frame with P = 0 which contains a frame check sequence error,
transmits no frame and remains in the same state.

6.2.2.15 DL state 8.4 with outstanding I frames

6.2.2.15.1 Valid behaviour

L2C_D84OI_V_1 subclause 5.6.3.2, table D.3/7-5 TC28451
Ensure that the IUT in state 8.4, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 1 which does not acknowledge the last transmitted I frame,
transmits a RR response frame with F = 1 and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D84OI_V_2 subclause 5.6.3.2, table D.3/7-6 TC28450
Ensure that the IUT in state 8.4, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 0 which does not acknowledge the last transmitted I frame,
transmits a RR response frame with F = 0 and remains in the same state.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

6.2.2.15.2 Inopportune behaviour

L2C_D84OI_I_1 subclauses 5.6.3, 5.6.7, table D.3/4-4 new TC
Ensure that the IUT in state 8.4, having transmitted I frames which are still unacknowledged, on receipt of a RR response frame with F = 1,
transmits the corresponding I frame and enters state 7.0.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D84OI_I_2 subclause 5.8.1, table D.3/7-7 TC28453
Ensure that the IUT in state 8.4, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 1 and invalid N(S) which does not acknowledge the last transmitted I frame,
transmits a REJ response frame with F = 1 and enters state 8.5.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

L2C_D84OI_I_3 subclause 5.8.1, table D.3/7-8 TC28452
Ensure that the IUT in state 8.4, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 0 and invalid N(S) which does not acknowledge the last transmitted I frame,
transmits a REJ response frame with F = 0 and enters state 8.5.
Selection: IUT is of type of implementation primary rate access, PICS: R 6.2.

6.2.2.15.3 Timers

L2C_D84_T_1 subclause 5.6.5, table D.3/9-1 TC27411
Ensure that the IUT in state 8.4, on expiry of timer T200,
transmits RR command frames with P = 1 and remains in the same state.
NOTE 1: To test the duration of timer T200 is also part of this test.

L2C_D84_T_2 subclause 5.6.5, table D.3/9-2 new TC
Ensure that the IUT in state 8.4, on expiry of timer T200,
transmits RR command frames with P = 1 and remains in the same state.
NOTE 2: To test the duration of timer T200 is also part of this test.

6.2.2.15.4 Counters

L2C_D84_C_1 subclauses 5.6.5, 5.6.7, table D.3/9-3 new TC
Ensure that the IUT in state 8.4, having retransmitted N200 times RR command frames with P = 1 or I frames with P = 1,
transmits a SABME frame with P = 1 and enters state 5.1.

6.2.2.16 DL state 8.5

6.2.2.16.1 Valid behaviour

L2C_D85_V_1 subclauses 5.8.1, 5.6.2, table D.3/8-1 TC28501
Ensure that the IUT in state 8.5, on receipt of an I frame with P = 1,
transmits a RR response frame with F = 1 and enters state 8.4.

L2C_D85_V_2 subclauses 5.8.1, 5.6.2, table D.3/8-2 TC28502
Ensure that the IUT in state 8.5, on receipt of an I frame with P = 0,
transmits a RR response frame with F = 0 and enters state 8.4.

6.2.2.16.2 Inopportune behaviour

L2C_D85_I_1 subclause 5.8.1, table D.3/8-3 TC28503
Ensure that the IUT in state 8.5, on receipt of an I frame with P = 1 and invalid N(S),
transmits a RR response frame with F = 1 and remains in the same state.

L2C_D85_I_2 subclause 5.8.1, table D.3/8-4 TC28504
Ensure that the IUT in state 8.5, on receipt of an I frame with P = 0 and invalid N(S),
transmits no frame and remains in the same state.

7 Compliance

An ATS which complies with this TSS&TP specification shall:

a) consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 6;

b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 5;

c) use the same naming conventions for the test groups and test cases;

d) maintain the relationship specified in clause 6 between the test groups and TPs and the entries in the PICS proforma to be used for test case deselection;

e) comply with ISO/IEC 9646-2 [4].

In the case of a) or b) above, a subset shall be used only where a particular Abstract Test Method (ATM) makes some TPs untestable. All testable TPs from clause 6 shall be included in a compliant ATS.

8 Requirements for a comprehensive testing service

As a minimum the Remote test method, as specified in ISO/IEC 9646-2 [4], shall be used by any organization claiming to provide a comprehensive testing service for user equipment claiming conformance to ETS 300 402-2 [1].

History

Document history			
January 1996	Public Enquiry	PE 99:	1996-01-01 to 1996-04-26
October 1996	Vote	V 113:	1996-10-21 to 1996-12-13