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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

# **ETSI**

European Telecommunications Standards Institute

## **ETSI Secretariat**

**Postal address:** F-06921 Sophia Antipolis CEDEX - FRANCE **Office address:** 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE **X.400:** c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

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

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6.2.2.16.2 Inopportune behaviour
7 Compliance
History

## Foreword

This 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 Public Enquiry 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: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 4: Protocol
- 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].

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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

- 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
  - Valid behaviour
  - Inopportune behaviour
- Network
  - DL state 1

• DL state 8.0

- · 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 (TSS)

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- 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 (TSS)

## 6 Test purposes

## 6.1 Introduction

For each test requirement, a Test Purpose (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).

Identifier: <suite><side>_<category><state< th=""><th>gory&gt;<s< th=""><th>tate&gt;_<group>_<n></n></group></th></s<></th></state<></category></side></suite>			gory> <s< th=""><th>tate&gt;_<group>_<n></n></group></th></s<>	tate>_ <group>_<n></n></group>
<suite></suite>	=	suite	L2N =	layer 2 user layer 2 network layer 2 combined (user and network)
<category></category>	=	procedure category	L D	Layer management Data control
<state></state>	=	data link entity state	e.g.:	70, 4, 81, etc.
<group></group>	=	group	one ch V: I: S: T: C:	aracter representing group reference according to TSS: Valid stimulus Inopportune stimulus Syntactically stimulus timers counters
<n></n>	=	sequential number	(1-99)	

Table 1: TP identifier naming convention scheme

## 6.1.2 Source of test purpose definition

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

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## 6.1.3 Test purpose 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	<ld>tifier&gt; tab</ld>	see table 1			
	<paragraph base="" ets="" in="" number=""> tab</paragraph>	subclause 5.3.1, 2.1, table II 1			
	<reference base="" ets="" in="" state="" table="" to="" transition=""> [opt.]</reference>	table D.1/2-1 (see note 2)			
	<reference 300="" 313="" case="" i-ets="" test="" to=""> or new TC</reference>	TC11001 (see note 3)			
Stimulus	Ensure that the IUT in the				
	DL entity state	(see note 4)			
	<trigger> see below for message structure</trigger>	receiving a XXXX frame			
	or <goal></goal>	to request a			
Reaction	<action></action>	transmits, does, etc.			
	if the action is sending				
	see below for frame structure				
	<next action="">, etc.</next>				
	and enters state				
	and/or and remains in the same state(s)				
	or and enters state <state></state>				
Message	<frame type=""/>	UI, I, SABME, etc.			
structure	frame containing a				
	a) a <field name=""></field>	TEI, C/R, INFO, P/F, N(R), etc.			
	field name with				
	<pre><coding field="" of="" the=""> and back to a)</coding></pre>				
NOTE 1:	Text in italics will not appear in TPs and text between <> i	s 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 I				
	modified by ETS 300 402-2 [3] (e.g. "Table D.1/2-3" refers	to the state transition table D.1,			
NOTE 3:	sheet 2, line 3). These references to I-ETS 300 313 helped in developing this ETS and are of a purely				
NOTE 3.	informative nature.	unis Ero anu are or a purery			
NOTE 4:		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 t	he 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. The criteria applied included 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 Test purposes 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

### subclause 5.3.2, table D.1/1-1 L2U L10 V 1

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

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

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

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.

A random function can be used to generate the Ai value between 0 and 63. NOTE 2:

### L2U L10 V 5 subclause 5.3.4

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

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

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

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.

A random function can be used to generate the Ai value between 64 and 126. NOTE 5:

TC11003

## TC11005

TC11006

## TC11007

TC11008

# TC11004

## TC11001

## Draft prETS 300 402-6: January 1996 L2U L10 V 9 subclause 5.3.2

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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

## 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

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.

A random function can be used to generate the Ai value between 64 and 126. NOTE 1:

## L2U L10 I 2 subclause 3.3

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

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.

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

## L2U L10 I 4 subclause 3.3

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

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

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

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)

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)

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.

## TC11010

## TC11011

## TC11014

TC11015

TC11016

TC11013

## TC11017

## TC11018

## TC11022

## new TC

## new TC

## L2U L10 S 3 subclause 2.9 b)

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)

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)

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)

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)

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

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

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

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

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

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

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.

## TC11028

## TC11029

## TC11024

## new TC

## TC13007

## new TC

TC11026

new TC

new TC

# new TC

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## L2U L30 V 2 subclause 5.3.2

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

Ensure that the IUT, in the state 3, on receipt of an UI frame containing an Identity denied message with Ai = 127,

transmits no frame and remains in the same state.

## L2U\_L30\_V\_4 subclause 5.3.2

## Ensure that the IUT, in the state 3, 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 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

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.

## subclause 5.3.3.2 L2U L30 V 6

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

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

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

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

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

Ensure that the IUT, in the state 3, 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 1: A random function can be used to generate the TEI value between 0 and 126.

## L2U\_L30\_I\_2 subclause 3.3

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.

## TC13004

TC13005

TC13006

# TC13017

TC13011

## new TC

TC13008

new TC

## TC13001

TC13002

## TC13018

TC13019

TC13020

TC13021

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

L2U L30 I 3

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.

subclause 3.3

A random function can be used to generate the TEI value between 0 and 126. NOTE 4:

## L2U\_L30\_I\_5 subclause 3.3

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

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.

A random function can be used to generate the TEI value between 0 and 126. NOTE 6:

## L2U L30 I 7 subclause 3.3

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

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

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.

127 is not allowed in the Ai field of an Identity assigned message. NOTE 2:

## L2U L30 S 3 subclause 5.3.2

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)

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)

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)

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.

# new TC

## new TC

new TC

## TC13025

# new TC

## new TC

new TC

## L2U L30 S 7 subclause 2.9 c)

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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)

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)

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)

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

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

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

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

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

Ensure that the IUT, in the state 3, on receipt of an UI frame with a TEI value = 127, containing an Info 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

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

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.

## new TC

## new TC

new TC

# TC13034

## TC13035

## new TC

# new TC

## new TC

## new TC

# TC13029

### 6.2.1.1.3 DL state 4

### 6.2.1.1.3.1 Valid behaviour

### L2U\_L40\_V\_1 subclause 5.3.2

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

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

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

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

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

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

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

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

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

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.

## TC14005

TC14005

TC14004

## TC14016

TC14015

## TC14002

# TC14004

## TC14018

TC14001

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### subclause 5.3.4 L2U L40 V 11

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

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).

## subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-7 L2U L40 I 2

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

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.

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

## subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 L2U L40 I 5

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

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.

TC14017

TC24008

TC24007

TC24007

TC14011, TC14014

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## L2U L40 I 7 subclause 3.3.4

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.

A function can be used to generate a TEI value not currently assigned. NOTE 6:

## L2U L40 I 8 subclause 3.3.4

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

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

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.

A function can be used to generate a TEI value not currently assigned. NOTE 9:

## L2U\_L40\_I\_11 subclause 3.3.4

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

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

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)

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)

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)

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.

## TC14034

new TC

new TC

## TC14028

TC14029

TC14030

## new TC

TC14027

TC14026

## L2U L40 S 4 subclause 2.9 c)

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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)

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)

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)

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

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

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

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

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

Ensure that the IUT, in the state 4, on receipt of an UI frame with a TEI value = 127, containing an Info 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

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.

## TC14036

## TC14038

## new TC

new TC

## new TC

## new TC

new TC

new TC

new TC

### 6.2.1.1.3.5 Counters

### L2U L40 C 1 subclause 5.3.5.2, 5.3.4

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.

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

### L2U L40 C 2 subclause 5.3.5.2, 5.3.4

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

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

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

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

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

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

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.

## TC15002

TC15002

## TC15005

new TC

## new TC

new TC

# TC15001

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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.

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

### L2U L50 I 3 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9

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

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

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

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

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

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.

## TC16001

## TC16002

## TC25031

TC25031

TC25011

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## L2U\_L60\_V\_4 subclause 5.3.4

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

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

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

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

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

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.

## TC16002

TC16005

## new TC

TC26010

new TC

new TC

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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

## 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

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

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

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

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

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.

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

## L2U L70 I 2 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.2/2-7

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).

## TC17002

TC17002

TC17005

TC24031

## new TC

# TC17001

### L2U L70 I 3 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.2/2-7

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

### L2U L70 I 4 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.2/2-8

TC24032

TC24032

TC24031

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

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

### Valid behaviour 6.2.1.1.7.1

L2U L80 V 1 subclause 5.3.4

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

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

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

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

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.

TC18001

## TC18002

TC18002

## TC18005

## 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

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

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

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

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

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.

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

### L2N L10 V 2 subclause 5.3.2

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

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

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.

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

### L2N L10 I 3 subclause 3.3

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

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

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

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 | 7 subclause 3.3

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.

new TC

new TC

# new TC

## new TC

new TC

## new TC

## new TC

# new TC

new TC

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### L2N L10 I 8 subclause 3.3

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.

A random function can be used to generate the TEI value between 0 and 126. NOTE 8:

## 6.2.1.2.1.3 Syntactically invalid behaviour

## L2N L10 S 1 subclause 5.3.2

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

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)

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)

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)

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)

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)

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)

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)

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

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.

new TC

new TC

new TC

new TC

new TC

new TC

## new TC

new TC

## new TC

# new TC

new TC

## L2N L10 S 11 subclause 3.3.1

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

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

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

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

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

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

### subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-7 TC224006 L2N\_L40\_I\_1

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 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 | 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 an UI frame 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 | 3 subclause 5.3.3

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.

TC131012

TC114002

TC114002

## TC124005

# new TC

new TC

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## L2N L40 I 4

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

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

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.

A function can be used to generate an automatic TEI value currently not assigned. NOTE 2:

## L2N L40 I 7 subclause 3.3.4

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

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

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

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.

A function can be used to generate an automatic TEI value currently not assigned. NOTE 6:

## L2N L40 I 11 subclause 3.3.4

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

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.

A random function can be used to generate the Ai value between 64 and 126 and the NOTE 1: Ri value between 0 and 65535.

## L2N L40 S 2 subclause 5.3.2

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.

## subclause 5.3.5.2

# new TC

new TC

## new TC

TC134018

TC134019

## new TC

new TC

new TC

new TC

new TC

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

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.

## subclause 2.9 a) L2N\_L40\_S\_4

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)

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)

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)

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)

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)

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

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

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

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.

## TC134021

TC134020

TC134023

new TC

## TC134029

## new TC

new TC

# new TC

new TC

## 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

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

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

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

Ensure that the IUT, in the state 4, on receipt of an UI frame with own TEI value, containing an Info field with a length exceeding N201,

transmits no frame and remains in the same state.

## 6.2.1.2.2.4 Timers

## subclause 5.3.5.2 L2N L40 T 1

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.

## L2N L40 T 2 subclause 5.3.5.2, 5.3.4

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 Inopportune behaviour

## L2N L50 I 1 subclause 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9

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 remove message and enters the state 1; or

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

## 6.2.1.2.3.2 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.

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# TC134027

new TC

new TC

# TC114003

# TC225011

TC114004

new TC

## 6.2.1.2.4 DL state 6.0

## 6.2.1.2.4.1 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 an UI frame 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.

## 6.2.1.2.4.2 Counters

## L2N\_L60\_C\_1 subclause 5.5.1.3, table II.1, table D.1/9-2

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 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 an UI frame 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 an UI frame 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 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 an UI frame containing an Identity remove message and enters the state 1; or
 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 an UI frame 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.

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## 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

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

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

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

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 | 1 subclause 5.5.1.2, table D.1/2-3

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

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.

### subclause 5.5.4, table D.1/2-5 L2C D40 I 3

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.

### subclause 5.5.4, table D.1/2-6 L2C D40 I 4

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.

## subclause 5.5.4, table D.1/2-10 L2C D40 I 5

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

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

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 | 8 subclause 5.5.4, table D.1/3-4

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.

## new TC

new TC

new TC

TC24001

## new TC

TC24002

## TC24005

TC24006

TC24009

## TC24003

## new TC

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L2C_D40_I_9subclause 5.5.4, table D.1/4-1TC24010Ensure 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.TC24010
L2C_D40_I_10subclause 5.5.4, table D.1/4-4TC24011Ensure 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.TC24011
L2C_D40_I_11subclause 5.5.4, table D.1/5-1TC24014Ensure 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.TC24014
L2C_D40_I_12subclause 5.5.4, table D.1/5-4TC24015Ensure 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.TC24015
L2C_D40_I_13subclause 5.5.4, table D.1/6-1TC24012Ensure 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.TC24012
L2C_D40_I_14subclause 5.5.4, table D.1/6-4TC24013Ensure 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.TC24013
L2C_D40_I_15subclause 5.5.4, table D.1/7-1TC24016Ensure that the IUT in state 4, on receipt of an I frame with P = 1 which contains a layer 3 RELEASEmessage, 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.       new TC
L2C_D40_S_2subclause 2.9 b)new TCEnsure 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_3subclause 2.9 c)new TCEnsure that the IUT in state 4, on receipt of a DISC frame with P = 1 which does not consist of an integralnumber of octets,transmits no frame and remains in the same state.
L2C_D40_S_4subclause 2.9 d)TC24025Ensure 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.TC24025
L2C_D40_S_5subclause 2.9 e)new TCEnsure 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.new TC
L2C_D40_S_6subclause 2.9 f)new TCEnsure that the IUT in state 4, on receipt of a DISC frame with P = 1 which contains a SAPI value not

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.

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### L2C D40 S 7 subclause 3.3.1

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.

### subclause 3.3.2 L2C\_D40\_S\_9

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.

### subclauses 3.6.1, 5.8.5, table D.1/10 L2C D40 S 10

Ensure that the IUT in state 4, on receipt of an undefined frame (unnumbered frame with an unknown control field octet),

transmits no frame and remains in the same state.

### L2C D40 S 11 subclauses 3.6.4, 5.8.5, table D.1/10

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_1subclause 5.5.1.2, table D.1/2-7Ensure that the IUT in state 5.0, on receipt of an UA frame with F = 1, enters state 7.0.	TC25001
L2C_D50_V_2 subclause 5.5.1.2, table D.1/2-10 Ensure that the IUT in state 5.0, on receipt of a DM frame with F = 1, enters state 4.	TC25002
L2C_D50_V_3 subclauses 5, 5.8.6, table D.1/3-1 Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 1 rejecting frame, transmits no frame and remains in the same state.	<b>TC25004</b> a SABME
6.2.2.2.2 Inopportune behaviour	
L2C_D50_I_1subclause 5.5.5.1, table D.1/2-1Ensure 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.	TC25007
L2C_D50_I_2subclause 5.5.5.1, table D.1/2-3Ensure 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.	TC25008
L2C_D50_I_3subclause 5.5.5.2, table D.1/2-5Ensure 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.	TC25009
L2C_D50_I_4subclause 5.5.5.2, table D.1/2-6Ensure 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.	TC25010

# new TC

# new TC

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L2C_D50_I_5subclauses 5.3.4.2, 5.8.7, table 9, table II.1, table D.1/2-11TEnsure 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.T	rc25012
L2C_D50_I_6 subclause 5, 5.8.6, table D.1/3-3 T 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.	rc25020
L2C_D50_I_7 subclauses 5, 5.8.6, table D.1/3-4 T 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.	rc25021
L2C_D50_I_8 subclauses 5, 5.8.6, table D.1/3-5 T 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.	<b>FC25022</b> me,
<b>L2C_D50_I_9</b> subclauses 5, 5.8.6, table D.1/3-6 T Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 1 rejecting response frame,	r <b>C25023</b> a RNR
transmits no frame and remains in the same state.	
L2C_D50_I_10subclause -, table D.1/4-1TEnsure 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.T	rc25013
L2C_D50_I_11subclause 5.8.7, table 9, table D.1/4-2TEnsure 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.T	rC25014
L2C_D50_I_12subclause -, table D.1/5-1TEnsure 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.T	rC25017
L2C_D50_I_13subclause 5.8.7, table 9, table D.1/5-4TEnsure 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.T	Г <b>С</b> 25018
L2C_D50_I_14subclause -, table D.1/6-1TEnsure 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.T	rC25015
L2C_D50_I_15subclause 5.8.7, table 9, table D.1/6-4TEnsure 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.T	rC25016
L2C_D50_I_16subclause -, table D.1/7-1TEnsure 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.T	rC25019
6.2.2.3 Syntactically invalid	
L2C_D50_S_1subclause 5.8.5, table D.1/10-2TEnsure that the IUT in state 5.0, on receipt of a DISC frame with P = 1 containing an information fix transmits no frame and remains in the same state.T	<b>FC25025</b> eld,
L2C_D50_S_2 subclause 5.8.5, table D.1/10-5 T Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 0 which con- information field, transmits no frame and remains in the same state.	TC25027 Itains an

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subclause 5.8.5, table D.1/10-6 L2C D50 S 3 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

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

Ensure that the IUT in state 5.0, on receipt of an undefined 3 octet frame, transmits no frame and remains in the same state.

### L2C D50 S 6 subclause 5.8.4

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

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

6.2.2.3 DL state 5.1

### Valid behaviour 6.2.2.3.1

### subclause 5.7, table D.1/2-7 L2C D51 V 1

Ensure that the IUT in state 5.1, having one I frame in gueue 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

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

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

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.

# TC25026

TC25028

TC25024

# TC25029

# TC25101

# TC25102

# TC26001

# TC26003

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6.2.2.4.2 Inopportune behaviour	
L2C_D60_I_1subclause 5.5.5.2, table D.1/2-1Ensure 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.	TC26008
L2C_D60_I_2subclause 5.5.5.2, table D.1/2-3Ensure 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.	TC26009
L2C_D60_I_3subclause 5.5.5.1, table D.1/2-5Ensure 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.	TC26006
L2C_D60_I_4subclause 5.5.5.1, table D.1/2-6Ensure 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.	TC26007
L2C_D60_I_5 subclause 5.8.7, table 9, table II.1, table D.1/2-11 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.	TC26011
L2C_D60_I_6 subclauses 5, 5.8.6, table D.1/3-3 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.	TC26019
L2C_D60_I_7subclauses 5, 5.8.6, table D.1/3-4Ensure 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.	TC26020
L2C_D60_I_8 subclauses 5, 5.8.6, table D.1/3-5 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.	<b>TC26021</b> ne,
L2C_D60_I_9 subclauses 5, 5.8.6, table D.1/3-6 Ensure that the IUT in state 6, on receipt of a FRMR response frame with F = 1 rejecting a RNR frame, transmits no frame and remains in the same state.	TC26022 response
	TC26012
L2C_D60_I_11 subclause 5.8.7, table 9, table D.1/4-4 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.	TC26013
L2C_D60_I_12 subclause -, table D.1/5-1 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.	TC26016
L2C_D60_I_13 subclause 5.8.7, table 9, table D.1/5-4 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.	TC26017
L2C_D60_I_14subclause -, table D.1/6-1Ensure 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.	TC26014
L2C_D60_I_15 subclause 5.8.7, table 9, table D.1/6-4 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.	TC26015

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### L2C D60 I 16 subclause -, table D.1/7-1

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

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

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

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

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

- Ensure that the IUT in state 6, on receipt of an undefined 3 octet frame, transmits no frame and remains in the same state.
- L2C D60 S 6 subclause 5.8.4

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

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

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

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

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.

# TC26024

# TC26026

TC26025

TC26023

# TC26027

# TC26028

TC26005

# new TC

# new TC

# TC27005

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### L2C D70 V 4 subclause 5.2.2, table D.2/1-7

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

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

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

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

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

Ensure that the IUT in state 7.0, having I frames gueued 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

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.

An I frame will be received as soon as the IUT is able to send it. NOTE 4:

### L2C D70 V 11 subclause 5.6.4, table D.2/5-6

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

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.

An I frame will be received as soon as the IUT is able to send it. NOTE 6:

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

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

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.

new TC

# TC27080

TC27006

TC27007

# TC27016

new TC

TC27012

new TC

# TC27009

# TC27010

# L2C\_D70\_V\_16 subclause 5.6.5, table D.2/6-3

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

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

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

# 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

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

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

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

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 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

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

### 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 others state 5.1

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

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.

# TC27022

# new TC

# TC27023

### new TC

# TC27013

# TC27033

# TC27024

new TC

# TC27008

TC27002

TC27003

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           Ensure that the IUT in state 7.0, on receipt of a FRMR response frame with F = 1 rejecting an I frame mits 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 frame.	
L2C_D70_I_10subclauses 5.7.1, 5.8.6, table D.2/3-6Ensure that the IUT in state 7.0, on receipt of a FRMR response frame with F = 1 rejecting a RR 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 frame.	
L2C_D70_I_11subclause 5.6.3, table D.2/4-4Ensure 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.	TC27034
L2C_D70_I_12subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-13Ensure 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 a state 5.1.	TC27037 nd enters
L2C_D70_I_13 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-14 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.	TC27040
L2C_D70_I_14subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-15Ensure 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.	TC27046
L2C_D70_I_15subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-16Ensure 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.	TC27043
L2C_D70_I_16subclauses 5.6.4, 5.7.1, 5.8.2, 5.8.5, table D.2/5-9Ensure 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 a 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 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.	TC27042
L2C_D70_I_18subclauses 5.6.4, 5.7.1, 5.8.2, 5.8.5, table D.2/5-11Ensure 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.	TC27048
L2C_D70_I_19 subclauses 5.6.4, 5.7.1, 5.8.2, 5.8.5, table D.2/5-12 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.	TC27045
<b>L2C_D70_I_20</b> subclause 5.6.5, table D.2/6-4 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.	TC27035
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_22subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-10TC27041Ensure 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.TC27041
L2C_D70_I_23subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-11TC27047Ensure 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.TC27047
L2C_D70_I_24subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-12TC27044Ensure 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.TC27044
L2C_D70_I_25subclauses 3.6.7, 5.8.1, table D.2/7-3TC27027Ensure 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.TC27027
L2C_D70_I_26subclauses 3.6.7, 5.8.1, table D.2/7-4TC27028Ensure 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.TC27028
L2C_D70_I_27subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/8-5TC27025Ensure 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_28subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/8-6TC27026Ensure 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.TC27026
L2C_D70_I_29subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-7TC27029Ensure 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_30subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-8TC27030Ensure 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.TC27030
6.2.2.5.3 Syntactically invalid
L2C_D70_S_1subclause 5.8.5, table D.2/10-2TC27055Ensure 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.TC27055
L2C_D70_S_2subclause 5.8.5, table D.2/10-5TC27057Ensure 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

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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

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

Ensure that the IUT in state 7.0, on receipt of an undefined 3 octet frame, transmits a SABME frame with P = 1 and enters state 5.1.

### L2C D70 S 7 subclause 5.8.5, table D.2/10-8

Ensure that the IUT in state 7.0, on receipt of an undefined 4 octet frame, transmits a SABME frame with P = 1 and enters state 5.1.

### L2C D70 S 8 subclauses 2.9, 5.8.4

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 9 subclauses 2.9. 5.8.4

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 10 subclauses 2.9, 5.8.4

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.

### DL state 7.0 with outstanding I frames 6.2.2.6

### 6.2.2.6.1 Valid behaviour

### L2C\_D70OI V 1 subclause 5.6.3.2. table D.2/4-3

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 D700I V 2 subclause 5.6.3.2, table D.2/4-5

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.

### subclause 5.6.3.2, table D.2/4-6 L2C D700I V 3

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 D700I V 4 subclause 5.6.3.2, table D.2/4-7

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 D700I V 5 subclause 5.6.4 a), table D.2/5-5

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.

# TC27059

# TC27079

# TC27058

# TC27077

# TC27060

TC27075

# TC27064

TC27061

# TC27051

TC27052

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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

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

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

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

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

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

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

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.

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

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

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.

# TC27074

TC27067

TC27066

# TC27071

TC27070

# TC27062

# TC27065

# TC27063

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### L2C\_D70OI\_I\_3 subclause 5.6.5, table D.2/6-8

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

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

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

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

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.

NOTE 2: To test the duration of timer T200 is also part of this test.

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

# L2C\_D70\_T\_3 subclauses 5.6.3.2, 5.6.7, table D.2/9-1

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.

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

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

# L2C\_D70\_T\_4 subclauses 5.6.3.2, 5.6.7, table D.2/9-1

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.

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

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

# TC27069

TC27073

# TC27072

# new TC

new TC

TC27078

new TC

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# L2C\_D70\_T\_5 subclauses 5.6.3.2, 5.6.7, table D.2/9-1

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.

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

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

# L2C\_D70\_T\_6 subclauses 5.6.3.2, 5.6.7, table D.2/9-1

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.

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

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

# L2C\_D70\_T\_7 subclauses 5.6.3.2, 5.6.7, table D.2/9-1

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.

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

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

# L2C\_D70\_T\_8 subclauses 5.9.8, 5.10.3, table D.2/9-3

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.

NOTE 8: To test the duration of timer T203 is also part of this test.

Selection: IUT supports the data link layer monitor function, PICS MCu 5.5, TMu 3.

# 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

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

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

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

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.

new TC

TC27101

TC27102

TC27103

TC27104

### new TC

new TC

new TC

# 6.2.2.8 DL state 7.4

6.2.2.8.1	Valid behaviour	
Ensure that the IL	<b>subclause 5.5.3.2, table D.2/2-5</b> JT in state 7.4, on receipt of a DISC frame with $P = 1$ , e I queue, transmits an UA frame with $F = 1$ and enters state 4.	TC27408
Ensure that the IL	<b>subclause 5.6.5, table D.2/4-1</b> JT in state 7.4, on receipt of a RR command frame with $P = 1$ , RR response frame with $F = 1$ and enters state 7.0.	TC27412
Ensure that the IL	<b>subclause 5.6.5, table D.2/4-3</b> JT in state 7.4, on receipt of a RR response frame with $F = 0$ , o frame and enters state 7.0.	TC27413
Ensure that the IL I frame with $P = 0$	subclauses 5.6.1, 5.6.5, table D.2/4-3 JT in state 7.4, having received a RNR response frame with $F = 1$ and subs , on receipt of a RR response frame with $F = 0$ , ne corresponding I frame and enters state 7.0. The I frame should contain a layer 3 message to the IUT requesting a re	
	I frame should be received during peer busy condition.	
Ensure that the IL	subclauses 5.6.4, 5.6.5, table D.2/5-5 JT in state 7.4, on receipt of a REJ command frame with $P = 1$ , RR response frame with $F = 1$ and enters state 7.0.	TC27405
Ensure that the IL	subclauses 5.6.4, 5.6.5, table D.2/5-6 JT in state 7.4, on receipt of a REJ command frame with $P = 0$ , o frame and enters state 7.0.	TC27406
Ensure that the IL	subclauses 5.6.4, 5.6.5, table D.2/5-7 JT in state 7.4, on receipt of a REJ response frame with F = 0, o frame and enters state 7.0.	TC27407
Ensure that the IL	<b>subclause 5.6.5, table D.2/6-1</b> JT in state 7.4, on receipt of a RNR command frame with $P = 1$ , RR response frame with $F = 1$ and remains in the same state.	TC27414
Ensure that the IL	<b>subclause 5.6.5, table D.2/6-2</b> JT in state 7.4, on receipt of a RNR command frame with $P = 0$ , o frame and remains in the same state.	TC27415
	<b>subclause 5.6.5, table D.2/6-3</b> JT in state 7.4, on receipt of a RNR response frame with $F = 0$ , o frame and remains in the same state.	TC27416
	subclauses 5.6.5, 5.6.3.2, table D.2/7-1 JT in state 7.4, on receipt of an I frame with $P = 1$ , RR response frame with $F = 1$ and remains in the same state. The I frame should contain a layer 3 message to the IUT requesting a respo	TC27403
	subclauses 5.6.1, 5.6.5, table D.2/7-2 JT in state 7.4, on receipt of an I frame with $P = 0$ , RR response frame with $F = 0$ and remains in state 7.4.	TC28406
transmits a	subclauses 5.6.1, 5.6.5, table D.2/7-2 JT in state 7.4, on receipt of an I frame with $P = 0$ , RR response frame with $F = 0$ and remains in the same state.	TC27404

NOTE 3: The I frame should contain a layer 3 message to the IUT requesting a response.

# Page 52 Draft prETS 300 402-6: January 1996 6.2.2.8.2 Inopportune behaviour L2C\_D74\_I\_1 subclause 5.7.1, table D.2/2-1 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

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

# 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

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

# 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

# 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

# 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

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

# 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.

# TC27435

TC27418

TC27419

TC27409

TC27429

TC27444

TC27432

TC27441

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 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.	TC27440
L2C_D74_I_16 subclause 5.6.5, table D.2/6-4 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.	TC27430
L2C_D74_I_17subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-9Ensure 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 state 5.1.	
L2C_D74_I_18 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-10 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.	<b>TC27436</b> ,
L2C_D74_I_19 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-11 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.	TC27442
L2C_D74_I_20 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-12 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.	TC27439
L2C_D74_I_21subclauses 3.6.7, 5.8.1, table D.2/7-3Ensure 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.	TC27423
L2C_D74_I_22subclauses 3.6.7, 5.8.1, table D.2/7-4Ensure 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.	TC27424
L2C_D74_I_23 subclause 5.7.1, 5.8.2, 5.8.5, table D.2/8-5 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 state 5.1.	TC27421 nd enters
L2C_D74_I_24 subclause 5.7.1, 5.8.2, 5.8.5, table D.2/8-6 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.	TC27422
L2C_D74_I_25 subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-7 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 state 5.1.	TC27425 nd enters
L2C_D74_I_26 subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-8 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 at state 5.1.	TC27426 nd enters
6.2.2.8.3 Syntactically invalid	
L2C_D74_S_1 subclause 5.8.5, table D.2/10-2 Ensure that the IUT in state 7.4, on receipt of a DISC frame with P = 1 which contains an information transmits a SABME frame with P = 1 and enters state 5.1.	TC27446 tion field,

### L2C\_D74\_S\_2 subclause 5.8.5, table D.2/10-5

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.

# TC27448

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### subclause 5.8.5, table D.2/10-6 L2C D74 S 3

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

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

Ensure that the IUT in state 7.4, on receipt of an undefined 4 octet 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 D740I V 1 subclause 5.6.4 a), table D.2/5-5

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.

An I frame will be received as soon as the IUT is able to send it. NOTE 1:

### L2C D740I V 2 subclause 5.6.4 a), table D.2/5-6

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 D740I 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 D740I V 4 subclause 5.6.5. table D.2/6-5

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 D740I V 5 subclause 5.6.5, table D.2/6-6

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 D740I V 6 subclause 5.6.5, table D.2/6-7

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.

# TC27460

TC27459

TC27461

TC27456

# TC27455

# TC27447

TC27445

### L2C D740I\_V\_7 subclause 5.6.3.2, table D.2/7-5

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.

### subclause 5.6.3.2, table D.2/7-6 L2C D740I V 8

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 D740I I 1 subclause 5.6.4 a), table D.2/5-8

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 D740I I 2 subclause 5.6.5, table D.2/6-8

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 D740I I 3 subclause 5.8.1, table D.2/7-7

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 D740I I 4 subclause 5.8.1, table D.2/7-8

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

### subclause 5.6.7, table D.2/9-1 L2C D74 T 1

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

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

### L2C D74 T 2 subclause 5.6.7, table D.2/9-1

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.

To test the duration of timer T200 is also part of this test. NOTE 2:

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

### TC27464

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# TC27463

# TC27458

TC27462

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# L2C\_D74\_T\_3 subclause 5.6.7, table D.2/9-1

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.

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

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

# L2C\_D74\_T\_4 subclause 5.6.7, table D.2/9-1

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.

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

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

# L2C\_D74\_T\_5 subclause 5.6.5, table D.2/9-1

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.

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

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

# L2C\_D74\_T\_6 subclause 5.6.5, table D.2/9-1

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.

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

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

# L2C\_D74\_T\_7 subclause 5.6.5, table D.2/9-1

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.

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

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

# L2C\_D74\_T\_8 subclause 5.6.5, table D.2/9-1

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.

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

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

# L2C\_D74\_T\_9 subclause 5.6.5, table D.2/9-1

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

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.

# new TC

# TC27454

new TC

new TC

new TC

# TC27453

TC27417

new TC

# 6.2.2.10 DL state 7.5

# 6.2.2.10.1 Valid behaviour

L2C_D75_V_1subclauses 5.8.1, 5.6.2, table D.2/7-1Ensure 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.	TC27501	
L2C_D75_V_2subclauses 5.8.1, 5.6.2, table D.2/7-2Ensure 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.	TC27502	
6.2.2.10.2 Inopportune behaviour		
L2C_D75_I_1subclause 5.8.1, table D.2/7-3Ensure 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.	TC27503	
L2C_D75_I_2 subclause 5.8.1, table D.2/7-4 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.	TC27504	
6.2.2.11 DL state 8.0		
6.2.2.11.1 Valid behaviour		
L2C_D80_V_1subclause 5.5.3.2, table D.3/2-5Ensure 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.	TC28003	
L2C_D80_V_2subclause 5.5.3.2, table D.3/2-6Ensure 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.	TC28004	
L2C_D80_V_3subclause 5.6.3, table D.3/4-4TC27015Ensure 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 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.	TC28029	
L2C_D80_V_5subclause 5.6.4, table D.3/5-4Ensure that the IUT in state 8.0, having transmitted an I frame with $P = 0$ , on receipt of a REJframe 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.	TC28005 response	
<b>L2C_D80_V_6</b> subclause 5.6.4, table D.3/5-4 Ensure that the IUT in state 8.0, having transmitted an I frame with $P = 0$ , on receipt of a REJ frame with $F = 1$ , transmits a RR response frame with $F = 1$ , subsequently transmits the corresponding I free 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

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.

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L2C_D80_V_8subclause 5.6.5, table D.3/6-4ToEnsure that the IUT in state 8.0, having transmitted an I frame with $P = 0$ , on receipt of a RNR reframe with $F = 1$ , transmits no frame and enters state 7.4.	<b>C28006</b> esponse
6.2.2.11.2 Inopportune behaviour	
L2C_D80_I_1subclauses 5.7.1, 5.7.2, table D.3/2-1ToEnsure 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.To	C28007
L2C_D80_I_2subclauses 5.7.1, 5.7.2, table D.3/2-3ToEnsure 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.To	C28008
L2C_D80_I_3subclause 5.8.7, table 9, table D.3/2-9ToEnsure 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.To	C28009
L2C_D80_I_4subclauses 5.7.1, 5.8.7, table 9, table D.3/2-10ToEnsure 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.To	C28010
L2C_D80_I_5       subclauses 5.7.1, 5.8.6, table D.3/3-5       To         Ensure that the IUT in state 8.0, on receipt of a FRMR response frame with F = 1 rejecting an I fram 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 reframe.	
L2C_D80_I_6subclauses 5.6.3, 5.6.7, table D.3/4-1ToEnsure 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.To	C28021
L2C_D80_I_7subclauses 5.6.3, 5.6.7, table D.3/4-2ToEnsure 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.To	C28024
L2C_D80_I_8subclause 5.8.7, table 9, table D.3/4-3ToEnsure 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.To	C28027
L2C_D80_I_9subclauses 5.6.3, 5.6.7, table D.3/4-4ToEnsure that the IUT in state 8.0, having received I frames containing layer 3 messages requeres ponse, on receipt of a RR response frame with $F = 1$ , transmits an I frame with $P = 0$ and enters state 7.0.To	C28012 esting a
L2C_D80_I_10subclauses 5.8.2, 5.8.5, table D.3/4-5ToEnsure 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 state 5.1.To	<b>C28030</b> d enters
L2C_D80_I_11subclauses 5.8.2, 5.8.5, table D.3/4-6ToEnsure 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.To	C28033
L2C_D80_I_12subclauses 5.8.2, 5.8.5, table D.3/4-7ToEnsure 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.To	C28039
L2C_D80_I_13subclauses 5.8.2, 5.8.5, table D.3/4-8ToEnsure 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.To	C28036

<b>L2C_D80_I_15</b> subclause 5.6.4, table D.3/5-2 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.	TC28026
L2C_D80_I_16 subclauses 5.8.2, 5.8.5, table D.3/5-5 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 state 5.1.	
L2C_D80_I_17 subclauses 5.8.2, 5.8.5, table D.3/5-6 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.	<b>TC28035</b> ),
L2C_D80_I_18 subclauses 5.8.2, 5.8.5, table D.3/5-7 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.	<b>TC28041</b>
L2C_D80_I_19 subclauses 5.8.2, 5.8.5, table D.3/5-8 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.	<b>TC28038</b>
<b>L2C_D80_I_20</b> subclause 5.6.5, table D.3/6-2 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.	TC28025
<b>L2C_D80_I_21</b> subclause 5.6.5, table D.3/6-3 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.	TC28028
L2C_D80_I_22subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-5Ensure that the IUT in state 8.0, on receipt of a RNR command frame with P = 1 and invalid N(F transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 state 5.1.	
L2C_D80_I_23 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-6 Ensure that the IUT in state 8.0, on receipt of a RNR command frame with P = 0 and invalid N(F transmits a SABME frame with P = 1 and enters state 5.1.	<b>TC28034</b> २),
L2C_D80_I_24 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-7 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.	<b>TC28040</b> ),
L2C_D80_I_25 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-8 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.	<b>TC28037</b> ),
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.

An I frame with P = 1 and N(R) = V(A)+1 is accepted as acknowledgement. NOTE 2:

### L2C\_D80\_I\_14 subclause 5.6.4, table D.3/5-1 Ensure that the IUT in state 8.0, having transmitted an I frame with P = 0, on receipt of a REJ command

transmits a RR response frame with F = 1 and remains in the same state.

frame with P = 1,

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TC28023

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<b>L2C_D80_I_27</b> subclause 5.6.3.2, table D.3/7-2 ne Ensure that the IUT in state 8.0, having transmitted an I frame with $P = 0$ , on receipt of an I frame $P = 0$ .	ew TC e with
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_28subclauses 5.6.2.1, 5.8.1, table D.3/7-3TC2Ensure 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.TC2	28015
L2C_D80_I_29subclauses 5.6.2.2, 5.8.1, table D.3/7-4TC2Ensure 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.TC2	28016
L2C_D80_I_30subclauses 5.6.2.1, 5.7.1, 5.8.2, 5.8.5, table D.3/8-5TC2Ensure 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 e state 5.1.TC2	28013 enters
L2C_D80_I_31subclauses 5.6.2.2, 5.7.1, 5.8.2, 5.8.5, table D.3/8-6TC2Ensure 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.TC2	28014
L2C_D80_I_32subclauses 5.6.2.1, 5.7.1, 5.8.2, 5.8.5, table D.3/8-7TC2Ensure 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 e state 5.1.TC2	28017 enters
L2C_D80_I_33subclauses 5.6.2.2, 5.7.1, 5.8.2, 5.8.5, table D.3/8-8TC2Ensure 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 e state 5.1.TC2	28018 enters
C. O. O. 44. 0	

### 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

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

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

Ensure that the IUT in state 8.0, on receipt of an undefined 4 octet frame,

transmits a SABME frame with P = 1 and enters state 5.1.

# TC28047

TC28043

### L2C\_D80\_S\_6 subclauses 2.9, 5.8.4

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

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

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

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

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

Ensure that the IUT in state 8.0, on expiry of timer T200,

transmits RR command frames with  $\mathsf{P}=\mathsf{1}$  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

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

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.

### TC28048

# TC28049

TC28050

TC28052

# TC28051

new TC

# new TC

# new TC

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6.2.2.13 DL state 8.1			
6.2.2.13.1 Valid behaviour			
<b>L2C_D81_V_1</b> subclauses 5.8.1, 5.6.2, table D.3/7-1 <b>TC2810</b> Ensure that the IUT in state 8.1, on receipt of an I frame with P = 1 and correct send and receiv sequence numbers, transmits a RR response frame with F = 1 and enters state 8.0.			
<b>L2C_D81_V_2</b> subclauses 5.8.1, 5.6.2, table D.3/7-2 <b>TC2810</b> 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       TC2810         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.       TC2810	3		
L2C_D81_I_2subclause 5.8.1, table D.3/7-8TC2810Ensure 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.TC2810	4		
6.2.2.14 DL state 8.4			
6.2.2.14.1 Valid behaviour			
L2C_D84_V_1subclause 5.5.3.2, table D.3/2-5TC2840Ensure 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.TC2840	2		
L2C_D84_V_2subclause 5.5.3.2, table D.3/2-6TC2840Ensure 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.TC2840	3		
L2C_D84_V_3subclause 5.6.5, table D.3/4-4TC2840Ensure 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.TC2840	5		
L2C_D84_V_4subclauses 5.6.1, 5.6.5, table D.3/4-4new TeEnsure 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.new Te	С		
L2C_D84_V_5subclauses 5.6.4, 5.6.5, table D.3/5-4TC2840Ensure 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.TC2840	7		
6.2.2.14.2 Inopportune behaviour			
L2C_D84_I_1subclause 5.7.1, table D.3/2-1TC2840Ensure 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.TC2840	8		
L2C_D84_I_2subclause 5.7.1, table D.3/2-3TC2840Ensure 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.TC2840	9		

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L2C_D84_I_3subclause 5.8.7, table 9, table D.3/2-9TEnsure 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 5.1T	Г <b>С</b> 28410
L2C_D84_I_4subclause 5.8.7, table 9, table D.3/2-10TEnsure 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 5.1T	Г <b>С</b> 28411
L2C_D84_I_5subclauses 5.6.5, 5.7.1, 5.8.6, table D.3/3-5TEnsure that the IUT in state 8.4, on receipt of a FRMR response frame with F = 1 rejecting an I fra transmits a SABME frame with P = 1 and enters state 5.1.T	<b>FC28443</b> me,
L2C_D84_I_6subclauses 5.6.3, 5.6.7, table D.3/4-1TEnsure 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.T	rC28422
L2C_D84_I_7subclauses 5.6.3, 5.6.7, table D.3/4-2TEnsure 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.T	rC28425
L2C_D84_I_8subclauses 5.6.3, 5.6.7, table D.3/4-3TEnsure 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.T	rC28428
L2C_D84_I_9subclauses 5.8.2, 5.8.5, table D.3/4-5TEnsure 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 an state 5.1.T	r <b>C28431</b> d enters
L2C_D84_I_10subclauses 5.8.2, 5.8.5, table D.3/4-6TEnsure 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.T	rC28434
L2C_D84_I_11subclauses 5.8.2, 5.8.5, table D.3/4-7TEnsure 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.T	rC28440
L2C_D84_I_12subclauses 5.8.2, 5.8.5, table D.3/4-8TEnsure 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.T	rC28437
L2C_D84_I_13subclause 5.6.4, table D.3/5-1TEnsure 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.T	Г <b>С</b> 28424
L2C_D84_I_14subclause 5.6.4, table D.3/5-2TEnsure 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.T	Г <b>С</b> 28427
L2C_D84_I_15subclause 5.6.4, table D.3/5-3TEnsure 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.T	rC28430
L2C_D84_I_16       subclauses 5.8.2, 5.8.5, table D.3/5-5       T         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 state 5.1.       T	r <b>C28433</b> d enters
L2C_D84_I_17subclauses 5.8.2, 5.8.5, table D.3/5-6TEnsure 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.T	rC28436

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L2C_D84_I_18 subclauses 5.8.2, 5.8.5, table D.3/5-7 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.	, <b>TC28442</b>
L2C_D84_I_19 subclauses 5.8.2, 5.8.5, table D.3/5-8 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.	, <b>TC28439</b>
L2C_D84_I_20subclause 5.6.5, table D.3/6-1Ensure 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.	TC28423
L2C_D84_I_21subclause 5.6.5, table D.3/6-2Ensure 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.	TC28426
L2C_D84_I_22 subclause 5.6.5, table D.3/6-3 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.	TC28429
L2C_D84_I_23 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-5 Ensure that the IUT in state 8.4, on receipt of a RNR command frame with P = 1 and invalid N(F transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 a state 5.1.	
L2C_D84_I_24subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-6Ensure 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.	<b>TC28435</b> २),
L2C_D84_I_25 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-7 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.	<b>TC28441</b> ),
L2C_D84_I_26 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-8 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.	<b>TC28438</b> ),
L2C_D84_I_27 subclause 5.6.3.2, table D.3/7-1 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.	TC28412
L2C_D84_I_28subclause 5.6.3.2, table D.3/7-2Ensure 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.	TC28413
L2C_D84_I_29 subclauses 5.6.2.1, 5.8.1, table D.3/7-3 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.	TC28416
L2C_D84_I_30subclauses 5.6.2.2, 5.8.1, table D.3/7-4Ensure 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.	TC28417
L2C_D84_I_31 subclauses 5.6.2.1, 5.7.1, 5.8.2, 5.8.5, table D.3/8-5 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 a state 5.1.	TC28414 and enters
<b>L2C_D84_I_32</b> subclauses 5.6.2.2, 5.7.1, 5.8.2, 5.8.5, table D.3/8-6 Ensure that the IUT in state 8.4, on receipt of an I frame with P = 0 and invalid N(R),	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.

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### L2C D84 | 33 subclauses 5.6.2.1, 5.7.1, 5.8.2, 5.8.5, table D.3/8-7

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 | 34 subclauses 5.6.2.2, 5.7.1, 5.8.2, 5.8.5, table D.3/8-8

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

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

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

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

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

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

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 D840I V 1 subclause 5.6.3.2. table D.3/7-5

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 D840I V 2 subclause 5.6.3.2, table D.3/7-6

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.

TC28451

# TC28447

# TC28448

# TC28449

# TC28450

TC28445

TC28418

TC28419

TC28446

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### 6.2.2.15.2 **Inopportune behaviour**

### L2C D840I I 1 subclauses 5.6.3, 5.6.7, table D.3/4-4

# 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 D840I I 2 subclause 5.8.1, table D.3/7-7

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 D840I I 3 subclause 5.8.1, table D.3/7-8

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

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. To test the duration of timer T200 is also part of this test. NOTE 1:

### L2C D84 T 2 subclause 5.6.5. table D.3/9-2

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.

To test the duration of timer T200 is also part of this test. NOTE 2:

### 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 TC28502 subclauses 5.8.1, 5.6.2, table D.3/8-2 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.

### subclause 5.8.1, table D.3/8-4 L2C D85 I 2

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.

# new TC

# TC28453

TC28452

TC27411

new TC

# 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.

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# History

Document history					
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