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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 4 92 94 42 00 - Fax: +33 4 93 65 47 16

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

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".

Transposition dates				
Date of adoption:	20 December 1996			
Date of latest announcement of this ETS (doa):	30 April 1997			
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 October 1997			
Date of withdrawal of any conflicting National Standard (dow):	31 October 1997			

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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 ETS.

2 Normative references

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

[1]	ETS 300 402-2 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".
[2]	ETS 300 402-4 (1996): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 4: Protocol Implementation Conformance statement (PICS) proforma for the general protocol".
[3]	ISO/IEC 9646-1: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".
[4]	ISO/IEC 9646-2: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 2: Abstract Test Suite Specification".
[5]	ISO/IEC 9646-3: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 3: The Tree and Tabular Combined Notation".
[6]	ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".
[7]	ITU-T Recommendation I.411 (1993): "ISDN user network interfaces - reference configurations".

3 Definitions

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

3.1 Definitions related to conformance testing

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

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

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

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

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

5 Test Suite Structure (TSS)

- Layer management
 - User
 - DL state 1
- Valid behaviour
- Syntactically invalid
- DL state 3
- Valid behaviour
- Syntactically invalid
- Timers
- Counters
- DL state 4Valid behaviour
 - Inopportune behaviour
 - Syntactically invalid
 - Timers
- DL state 5.0
 - Valid behaviour
 - Inopportune behaviour
 - Counters
- DL state 6.0
 - Valid behaviour
 - Inopportune behaviour
 - Counters
- DL state 7.0
 - Valid behaviour
 - Inopportune behaviour
- DL state 8.0Valid behaviour
 - Inopportune behaviour
- Network
 - DL state 1
 - Valid behaviour
 - Inopportune behaviour
 - Syntactically invalid
 - DL state 4
- Valid behaviour
- Inopportune behaviour
- Syntactically invalid
- Timers
- DL state 5.0
- Inopportune behaviourCounters
- 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 behaviourDL state 3
 - Valid behaviour
 - DL state 4
- Valid behaviour
- Inopportune behaviour
- Syntactically invalid
- Figure 1 (sheet 1 of 2): Test suite structure

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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

6 Test Purposes (TP)

6.1 Introduction

For each test requirement, a TP is defined.

6.1.1 Test purpose naming convention

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

Identifier: <suite><side>_<categ< th=""><th>gory><s< th=""><th colspan="5">jory><state>_<group>_<n></n></group></state></th></s<></th></categ<></side></suite>			gory> <s< th=""><th colspan="5">jory><state>_<group>_<n></n></group></state></th></s<>	jory> <state>_<group>_<n></n></group></state>				
<suite></suite>	=	suite	L2 = layer 2					
<side></side>	=	side	U = us N = ne C = co	-				
<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 TP definition

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

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6.1.3 TP structure

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

Table	2:	Structure	of	а	single	TΡ
-------	----	-----------	----	---	--------	----

TP part	Text	Example				
Header	<identifier> tab</identifier>	see table 1				
	<subclause 300="" 402-2="" base="" ets="" in="" number=""> tab</subclause>	subclause 5.3.1				
	<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=""></dl>	(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) <field name=""></field>	TEI, C/R, INFO, P/F, N(R), etc.				
	field with					
	<coding field="" of="" the=""> and back to a)</coding>					
NOTE 1:	Text in italics will not appear in TPs and text between <>	is filled in for each TP and may				
	differ from one TP to the next.					
NOTE 2:	All references to state transition tables are to annex D of ITU Recommendation Q.921 as modified by ETS 300 402-2 [1] (e.g. "Table D.1/2-3" refers to the state transition table D.1,					
		to the state transition table D.1,				
	sheet 2, line 3).	this FTC and are at a number				
NOTE 3:	These references to I-ETS 300 313 helped in developing this ETS and are of a purely informative nature.					
NOTE 4:	The DL entity state by the start of the test case is the one corresponding to the test group (e.g. in group L70, all the test cases shall be executed from the state 7.0).					

6.1.4 Test strategy

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

- only the requirements from the point of view of the T or coincident S and T reference point are considered;
- whether or not a test case can be built from the TP is not considered;
- as a consequence of the test method used, all information units shall be expressed in term of Protocol Data Units (PDUs). The use of primitives is considered to be not acceptable.

6.2 TPs for DSS1 layer 2

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

6.2.1 Layer Management

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

6.2.1.1 User

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

6.2.1.1.1 DL state 1

6.2.1.1.1.1 Valid behaviour

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.

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

L2U L10 V 5 subclause 5.3.4

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.

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

TC11005

TC11001

TC11002

TC11004

TC11008

TC11003

TC11006

L2U_L10_V_9 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 = 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.

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

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.

transmits no frame and remains in the same state.

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

L2U_L10_I_4 subclause 3.3

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.

TC11022

TC11010

TC11011

TC11014

TC11013

TC11015

TC11016

TC11017

j.

TC11018

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.

subclause 2.9 d) L2U L10 S 5

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

TC11026

new TC

new TC

new TC

new TC

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subclause 5.3.2 L2U L30 V 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 Ri = own Ri value and with Ai = 127.

transmits no frame and enters the state 1.

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 Ri = other Ri value and with Ai = automatic TEI value,

transmits no frame and remains in the same state.

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

L2U_L30_V_5 subclause 5.3.3.2

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.

A random function can be used to generate the Ai value between 64 and 126. NOTE 3:

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.

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

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.

TC13003

TC13004

TC13005

TC13006

TC13011

TC13017

new TC

TC13008

new TC

TC13001

L2U L30 I 3 subclause 3.3

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

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.

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.

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

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.

A non-automatic TEI value is not allowed in the Ai field of an Identity assigned NOTE 1: 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

TC13025

new TC

new TC

new TC

new TC

TC13021

TC13018

TC13019

TC13020

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 information field with a length exceeding N201,

transmits no frame and remains in the same state.

6.2.1.1.2.3 Timers

L2U L30 T 1 subclause 5.3.2.1

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

subclause 5.3.2.1 L2U L30 C 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

TC13033

TC13034

TC13035

new TC

new TC

new TC

new TC

6.2.1.1.3 DL state 4

6.2.1.1.3.1 Valid behaviour

subclause 5.3.2 L2U L40 V 1

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.

subclause 5.3.2 L2U L40 V 3

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.

TC14016

TC14015

TC14002

TC14003

TC14004

TC14005

TC14005

TC14004

TC14018

L2U_L40_V_11 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 = other TEI value,

transmits no frame and remains in the same state.

6.2.1.1.3.2 Inopportune behaviour

L2U_L40_I_1 subclauses 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;

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

Selection: SCu 1.2 AND MCu 3.1.1.

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

L2U_L40_I_2 subclauses 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 an UI frame containing an Identity request message and enters the state 1;

or

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 subclauses 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 subclauses 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 TC24008

Ensure that the IUT, in the state 4, on receipt of an unsolicited UA frame with F = 0 (MDL error D), transmits an UI frame containing an Identity request message and enters the state 1;

or

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

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

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

L2U_L40_I_5 subclauses 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9

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.

TC14010

TC14011, TC14014

TC24007

TC24007

TC24008

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.

A function can be used to generate a TEI value not currently assigned. NOTE 7:

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

TC14026

TC14025

TC14027

TC14028

TC14029

TC14030

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 information field with a length exceeding N201,

transmits no frame and remains in the same state.

6.2.1.1.3.4 Timers

L2U_L40_T_1 subclause 5.3.5.2

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

TC14037

TC14038

new TC

new TC

new TC

new TC

new TC

new TC

6.2.1.1.3.5 Counters

L2U L40 C 1 subclauses 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.

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

L2U L40 C 2 subclauses 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.

new TC

TC15002

TC15005

TC15002

new TC

TC15001

6.2.1.1.4.2 Inopportune behaviour

L2U L50 I 1 subclauses 5.3.2, 5.3.4

new TC

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

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

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

Selection: SCu 1.2 AND MCu 3.1.1.

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

L2U_L50_I_2 subclauses 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 request message and enters the state 1;

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

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

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

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

TC25011

TC25031

TC25031

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

subclause 5.3.4 L2U L60 V 1

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.

TC16001

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.

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 subclauses 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 subclauses 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 subclauses 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9

TC26010

Ensure that the IUT, in the state 6.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D), transmits no frame and enters the state 1;

or

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

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

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

TC16002

TC16001

TC16005

TC16002

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.

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.

TC17005

new TC

TC17001

TC17002

TC17002

TC17001

6.2.1.1.6.2 Inopportune behaviour

L2U_L70_I_1 subclauses 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.

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

L2U_L70_I_2 subclauses 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).

L2U_L70_I_3 subclauses 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.
- NOTE 3: The unsolicited UA frame will provoke a TEI removal procedure (duplicate TEI value assignment).

L2U_L70_I_4 subclauses 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 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 subclauses 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

6.2.1.1.7.1 Valid behaviour

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.

TC18001

new TC

TC24031

TC24031

TC24032

subclause 5.3.4 L2U L80 V 2

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.

subclause 5.3.4 L2U L80 V 3

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.

6.2.1.1.7.2 Inopportune behaviour

L2U L80 I 1 subclauses 5.3.2, 5.3.4

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 subclauses 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).

subclauses 5.3.4, 5.5.4, 5.8.8, table II.1, table D.3/2-7 L2U_L80_I_3

- 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).

TC18001

TC18002

TC18002

TC18005

new TC

TC28019

TC28020

L2U L80 I 4 subclauses 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 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 subclauses 5.3.4, 5.5.4, 5.8.8, table II.1, table D.3/2-8 TC28020

Ensure that the IUT, in the state 8.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D), transmits no frame and enters the state 1;

or

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

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

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

6.2.1.2 Network

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

6.2.1.2.1 DL state 1

6.2.1.2.1.1 Valid behaviour

L2N_L10_V_1 subclause 5.3.2

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

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

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

L2N_L10_V_2 subclause 5.3.2

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 $Ai \neq 127$,

transmits no frame and remains in the same state.

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

L2N_L10_I_2 subclause 3.3

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

transmits no frame and remains in the same state.

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

L2N_L10_I_3 subclause 3.3

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.

new TC

new TC

new TC

new TC

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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 4:

L2N L10 | 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 I 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.

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.

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

6.2.1.2.1.3 Syntactically invalid behaviour

L2N_L10_S_1 subclause 5.3.2

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.

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

subclause 3.3 L2N L10 I 4

new TC

new TC

new TC

new TC

new TC

new TC

new TC

new TC

new TC

new TC

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.

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.

TC114002

new TC

TC131012

TC114001

TC114002

new TC

new TC

new TC

new TC age with

6.2.1.2.2.2 Inopportune behaviour

subclauses 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-7 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 two UI frames in succession containing an Identity remove message and enters the state 1:

or

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

subclauses 5.3.4, 5.5.4, 5.8.8, table II.1, table D.1/2-9 TC224007 L2N_L40_I_2

Ensure that the IUT, in the state 4, on receipt of an unsolicited UA frame with F = 0 (MDL error D), transmits two UI frames in succession containing an Identity remove message and enters the state 1:

or

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

L2N L40 I 3 subclause 5.3.3

Ensure that the IUT, in the state 4, on receipt of an UI frame containing an unsolicited Identity check response message,

transmits no frame and remains in the same state.

L2N L40 I 4 subclause 3.3.4

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.

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

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.

A function can be used to generate an automatic TEI value currently not assigned. NOTE 4:

subclause 3.3.4 L2N L40 I 9

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.

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

new TC

new TC

new TC

new TC

TC124005

TC224006

new TC

new TC

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.

A function can be used to generate an automatic TEI value currently not assigned. NOTE 7:

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.

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

L2N L40 S 2 subclause 5.3.2

Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity request message with Ai = non automatic TEI value,

transmits no frame and remains in the same state.

NOTE 2: A random function can be used to generate the Ai value between 0 and 63 and the Ri value between 0 and 65535.

L2N L40 S 3 subclause 5.3.5.2

Ensure that the IUT, in the state 4, on receipt of an UI frame containing an Identity verify message with Ai = 127,

transmits no frame and remains in the same state.

L2N_L40_S_4 subclause 2.9 a)

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.

subclause 2.9 c) L2N_L40_S_7

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.

TC134018

new TC

new TC

new TC

TC134029

new TC

new TC

new TC

new TC

TC124006

L2N L40 S 11 subclause 3.3.2

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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.

L2N_L40_S_14 subclause 3.3.2

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 information field with a length exceeding N201,

transmits no frame and remains in the same state.

6.2.1.2.2.4 Timers

L2N L40 T 1 subclause 5.3.5.2

Ensure that the IUT, in the state 4, having transmitted an UI frame containing an Identity check request message, on expiry of the timer T201,

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

6.2.1.2.2.5 Counter

L2N L40 C 1 subclauses 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.

TC134020

TC134023

TC134026

TC134027

TC134028

new TC

new TC

TC114004

TC114003

6.2.1.2.3 DL state 5.0

6.2.1.2.3.1 Valid behaviour

L2N_L50_V_1 subclause 5.3.5.2

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

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

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

6.2.1.2.3.2 Inopportune behaviour

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

Ensure that the IUT, in the state 5.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D), transmits two UI frames in succession containing an Identity remove message and enters the state 1;

or

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

6.2.1.2.3.3 Counters

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

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

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

6.2.1.2.4 DL state 6.0

6.2.1.2.4.1 Valid behaviour

L2N_L60_V_1 subclause 5.3.5.2

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

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

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

6.2.1.2.4.2 Inopportune behaviour

L2N_L60_I_1 subclauses 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 two UI frames in succession containing an Identity remove message and enters the state 1;

or

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

6.2.1.2.4.3 Counters

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

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.

New

TC215005

New

new TC

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6.2.1.2.5 DL state 7.0

6.2.1.2.5.1 Valid behaviour

L2N_L70_V_1 subclause 5.3.5.2

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

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

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

6.2.1.2.5.2 Inopportune behaviour

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

Ensure that the IUT, in the state 7.0, on receipt of an unsolicited UA frame with F = 1 (MDL error C), transmits two UI frames in succession containing an Identity remove message and enters the state 1;

or

or

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

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

Ensure that the IUT, in the state 7.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D), transmits two UI frames in succession containing an Identity remove message and enters the state 1;

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

6.2.1.2.6 DL state 8.0

6.2.1.2.6.1 Valid behaviour

L2N_L60_V_1 subclause 5.3.5.2

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

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

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

6.2.1.2.6.2 Inopportune behaviour

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

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

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

or

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

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

Ensure that the IUT, in the state 8.0, on receipt of an unsolicited UA frame with F = 0 (MDL error D), transmits two UI frames in succession containing an Identity remove message and enters the state 1:

or

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

New

New

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

TC24001 Ensure that the IUT in state 4, on receipt of a SABME frame with P = 1 and being able to enter state 7.0, transmits an UA frame with F = 1 and enters state 7.0.

L2C D40 V 4 subclause 5.5.1.2, table D.1/2-2

new TC Ensure that the IUT in state 4, on receipt of a SABME frame with P = 1 and being unable to enter state 7.0,

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

6.2.2.1.2 Inopportune behaviour

L2C D40 I 1 subclause 5.5.1.2, table D.1/2-3

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.

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

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.

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

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 | 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.

subclause 5.5.4, table D.1/3-4 L2C D40 | 8

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

TC24002

new TC

TC24005

TC24006

TC24009

TC24003

new TC

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L2C_D40_I_9 subclause 5.5.4, table D.1/4-1 Ensure that the IUT in state 4, on receipt of a RR command frame with P = 1, transmits no frame and remains in the same state.	TC24010
L2C_D40_I_10 subclause 5.5.4, table D.1/4-4 Ensure that the IUT in state 4, on receipt of a RR response frame with F = 1, transmits no frame and remains in the same state.	TC24011
L2C_D40_I_11 subclause 5.5.4, table D.1/5-1 Ensure that the IUT in state 4, on receipt of a REJ command frame with P = 1, transmits no frame and remains in the same state.	TC24014
L2C_D40_I_12 subclause 5.5.4, table D.1/5-4 Ensure that the IUT in state 4, on receipt of a REJ response frame with F = 1, transmits no frame and remains in the same state.	TC24015
L2C_D40_I_13 subclause 5.5.4, table D.1/6-1 Ensure that the IUT in state 4, on receipt of a RNR command frame with P = 1, transmits no frame and remains in the same state.	TC24012
L2C_D40_I_14 subclause 5.5.4, table D.1/6-4 Ensure that the IUT in state 4, on receipt of a RNR response frame with F = 1, transmits no frame and remains in the same state.	TC24013
L2C_D40_I_15 subclause 5.5.4, table D.1/7-1 Ensure that the IUT in state 4, on receipt of an I frame with P = 1 which contains a layer 3 message, transmits no frame and remains in the same state.	TC24016 RELEASE
6.2.2.1.3 Syntactically invalid	
L2C_D40_S_1 subclause 2.9 a) 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_2 subclause 2.9 b) Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which is too short (with field octet), transmits no frame and remains in the same state.	new TC out control
L2C_D40_S_3 subclause 2.9 c) Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which does not consist of a number of octets, transmits no frame and remains in the same state.	new TC an integral
L2C_D40_S_4 subclause 2.9 d) Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which contains a fra	TC24025 ame check

Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which contains a frame check sequence error,

transmits no frame and remains in the same state.

L2C_D40_S_5 subclause 2.9 e)

new TC Ensure that the IUT in state 4, on receipt of a too short DISC frame with P = 1 which contains a single octet address field,

transmits no frame and remains in the same state.

L2C_D40_S_6 subclause 2.9 f)

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.

new TC

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

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

L2C D40 S 9 subclause 3.3.2

Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which contains an erroneous Command/response field bit value,

transmits no frame and remains in the same state.

L2C_D40_S_10 subclauses 3.6.1, 5.8.5, table D.1/10

Ensure that the IUT in state 4, on receipt of an undefined frame, transmits no frame and remains in the same state.

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

Ensure that the IUT in state 4, on receipt of a DISC frame with P = 1 which contains an information field = '00'O (unnumbered frame with incorrect length),

transmits no frame and remains in the same state.

6.2.2.2 DL state 5.0

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

6.2.2.2.1 Valid behaviour

L2C D50 V 1 subclause 5.5.1.2, table D.1/2-7

Ensure that the IUT in state 5.0, on receipt of an UA frame with F = 1, enters state 7.0.

L2C D50 V 2 subclause 5.5.1.2, table D.1/2-10

Ensure that the IUT in state 5.0, on receipt of a DM frame with F = 1, enters state 4.

L2C D50 V 3 subclauses 5, 5.8.6, table D.1/3-1 TC25004 Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 1 rejecting a SABME frame.

transmits no frame and remains in the same state.

6.2.2.2.2 Inopportune behaviour

L2C_D50_I_1 subclause 5.5.5.1, table D.1/2-1 Ensure that the IUT in state 5.0, on receipt of a SABME frame with P = 1, transmits an UA frame with F = 1 and remains in the same state.	TC25007
L2C_D50_I_2 subclause 5.5.5.1, table D.1/2-3 Ensure that the IUT in state 5.0, on receipt of a SABME frame with P = 0, transmits an UA frame with F = 0 and remains in the same state.	TC25008
L2C_D50_I_3 subclause 5.5.5.2, table D.1/2-5 Ensure that the IUT in state 5.0, on receipt of a DISC frame with P = 1, transmits an DM frame with F = 1 and remains in the same state.	TC25009
L2C_D50_I_4 subclause 5.5.5.2, table D.1/2-6 Ensure that the IUT in state 5.0, on receipt of a DISC frame with P = 0,	TC25010

transmits an DM frame with F = 0 and remains in the same state.

new TC

new TC

TC24019

new TC

TC24022

TC25001

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L2C_D50_I_5subclauses 5.3.4.2, 5.8.7, table 9, table II.1, table D.1/2-11TC2Ensure 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.TC2	5012
L2C_D50_I_6subclauses 5, 5.8.6, table D.1/3-3TC2Ensure 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.TC2	5020
L2C_D50_I_7subclauses 5, 5.8.6, table D.1/3-4TC2Ensure 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.TC2	5021
L2C_D50_I_8subclauses 5, 5.8.6, table D.1/3-5TC2Ensure 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.TC2	5022
L2C_D50_I_9 subclauses 5, 5.8.6, table D.1/3-6 TC28 Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 1 rejecting a l response frame, transmits no frame and remains in the same state.	5023 RNR
	5013
L2C_D50_I_11subclause 5.8.7, table 9, table D.1/4-2TC2Ensure 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.TC2	5014
L2C_D50_I_12subclause -, table D.1/5-1TC2Ensure 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.TC2	5017
L2C_D50_I_13subclause 5.8.7, table 9, table D.1/5-4TC2Ensure 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.TC2	5018
L2C_D50_I_14subclause -, table D.1/6-1TC2Ensure 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.TC2	5015
L2C_D50_I_15subclause 5.8.7, table 9, table D.1/6-4TC2Ensure 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.TC2	5016
L2C_D50_I_16subclause -, table D.1/7-1TC2Ensure 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.TC2	5019
6.2.2.3 Syntactically invalid	
L2C_D50_S_1subclause 5.8.5, table D.1/10-2TC2Ensure that the IUT in state 5.0, on receipt of a DISC frame with P = 1 containing an information field, transmits no frame and remains in the same state.TC2	5025
L2C_D50_S_2 subclause 5.8.5, table D.1/10-5 TC29 Ensure that the IUT in state 5.0, on receipt of a FRMR response frame with F = 0 which contain information field,	5027 is an

transmits no frame and remains in the same state.

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L2C D50_S_3 subclause 5.8.5, table D.1/10-6

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.

subclause 5.8.5, table D.1/10-8 L2C D50 S 5

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

L2C D50 S 6 subclause 5.8.4

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

6.2.2.3.1 Valid behaviour

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

Ensure that the IUT in state 5.1, having one I frame in queue and no I frame is unacknowledged, on receipt of an UA frame with F = 1,

transmits the I frame with P = 0 and enters state 7.0.

L2C D51 V 2 subclause 5.7, table D.1/2-8

Ensure that the IUT in state 5.1, having one I frame in gueue and one I frame is unacknowledged, on receipt of an UA frame with F = 1,

transmits no frame and enters state 7.0.

DL state 6.0 6.2.2.4

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 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.

TC26001

TC26003

TC26002

TC25026

TC25024

TC25028

TC25029

TC25101

TC25102

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6.2.2.4.2	Inopportune behaviour	
Ensure that the IU	subclause 5.5.5.2, table D.1/2-1 IT in state 6, on receipt of a SABME frame with $P = 1$, DM frame with $F = 1$ and remains in the same state.	TC26008
Ensure that the IU	subclause 5.5.5.2, table D.1/2-3 IT in state 6, on receipt of a SABME frame with $P = 0$, DM frame with $F = 0$ and remains in the same state.	TC26009
Ensure that the IU	subclause 5.5.5.1, table D.1/2-5 IT in state 6, on receipt of a DISC frame with $P = 1$, n UA frame with $F = 1$ and remains in the same state.	TC26006
Ensure that the IU	subclause 5.5.5.1, table D.1/2-6 IT in state 6, on receipt of a DISC frame with $P = 0$, n UA frame with $F = 0$ and remains in the same state.	TC26007
Ensure that the IU	subclause 5.8.7, table 9, table II.1, table D.1/2-11 IT in state 6, on receipt of an unsolicited DM frame with $F = 0$, o frame and remains in the same state.	TC26011
Ensure that the IU	subclauses 5, 5.8.6, table D.1/3-3 IT in state 6, on receipt of a FRMR response frame with $F = 1$ rejecting UA, o frame and remains in the same state.	TC26019
Ensure that the IU	subclauses 5, 5.8.6, table D.1/3-4 IT in state 6, on receipt of a FRMR response frame with $F = 1$ rejecting DM, o frame and remains in the same state.	TC26020
Ensure that the IU	subclauses 5, 5.8.6, table D.1/3-5 IT in state 6, on receipt of a FRMR response frame with $F = 1$ rejecting an I fra o frame and remains in the same state.	TC26021 ime,
	subclauses 5, 5.8.6, table D.1/3-6 JT in state 6, on receipt of a FRMR response frame with F = 1 rejecting a RNF	TC26022 R response
transmits no	o frame and remains in the same state.	
Ensure that the IU	subclause -, table D.1/4-1 IT in state 6, on receipt of a RR command frame with $P = 1$, o frame and remains in the same state.	TC26012
	subclause 5.8.7, table 9, table D.1/4-4 IT in state 6, on receipt of a RR response frame with F = 1, o frame and remains in the same state.	TC26013
	subclause -, table D.1/5-1 IT in state 6, on receipt of a REJ command frame with $P = 1$, o frame and remains in the same state.	TC26016
Ensure that the IU	subclause 5.8.7, table 9, table D.1/5-4 IT in state 6, on receipt of a REJ response frame with $F = 1$, o frame and remains in the same state.	TC26017
	subclause -, table D.1/6-1 IT in state 6, on receipt of a RNR command frame with P = 1, o frame and remains in the same state.	TC26014
Ensure that the IU	subclause 5.8.7, table 9, table D.1/6-4 IT in state 6, on receipt of a RNR response frame with $F = 1$, o frame and remains in the same state.	TC26015

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 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

TC26018

TC26026

TC26025

TC26023

TC26027

TC26028

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 queued up, on receipt of a RR response frame with F = 1,

transmits the I frames not exceeding the maximum number of outstanding I frames k.

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

Ensure that the IUT in state 7.0, having transmitted an I frame with P = 0, on receipt of a REJ command frame with P = 1,

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

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

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

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.

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

L2C_D70_ V_13 subclause 5.6.4, table D.2/5-8	TC27036
Ensure that the IUT in state 7.0, on receipt of a REJ response frame with $F = 1$,	
transmits the corresponding I frame and remains in the same state.	
L2C_D70_V_14 subclause 5.6.5, table D.2/6-1	TC27006

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

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

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.

TC27009

TC27000

TC27010

TC27080

TC27007

TC27012

new TC

new TC

TC27016

TC27017

new TC

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.

An I frame with P = 1 and N(R) = V(A)+1 is accepted as acknowledgement. NOTE 7:

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. An I frame with P = 1 and N(R) = V(A)+1 is accepted as acknowledgement. NOTE 8:

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 | 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.

subclauses 5.7.1, 5.7.2, table D.2/2-4 L2C D70 I 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. the sending of a layer 3 message can be provoked by sending a layer 3 message to NOTE 2:

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.

subclause 5.8.7, table 9, table D.2/2-9 L2C D70 | 6

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 | 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 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. NOTE 3: The IUT should have sent an UA frame before having received the FRMR

TC27008

TC27002

TC27003

TC27004

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TC27022

TC27023

new TC

TC27013

TC27033

new TC

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

NOTE 4: The IUT should have sent an I frame before having received the FRMR response frame.

L2C_D70_I_10 subclauses 5.7.1, 5.8.6, table D.2/3-6

Ensure that the IUT in state 7.0, on receipt of a FRMR response frame with F = 1 rejecting a RR frame, transmits a SABME frame with P = 1 and enters state 5.1.

NOTE 5: The IUT should have sent a RR frame before having received the FRMR response frame.

L2C_D70_I_11 subclause 5.6.3, table D.2/4-4

Ensure that the IUT in state 7.0, on receipt of a RR response frame with F = 1, transmits no frame and remains in the same state.

L2C_D70_I_12 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-13

Ensure that the IUT in state 7.0, on receipt of a RR command frame with P = 1 and invalid N(R), transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_13 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-14

Ensure that the IUT in state 7.0, on receipt of a RR command frame with P = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_14 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-15

Ensure that the IUT in state 7.0, on receipt of a RR response frame with F = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_15 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/4-16

Ensure that the IUT in state 7.0, on receipt of a RR response frame with F = 1 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_16 subclauses 5.6.4, 5.7.1, 5.8.2, 5.8.5, table D.2/5-9

Ensure that the IUT in state 7.0, on receipt of a REJ command frame with P = 1 and invalid N(R), transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_17 subclauses 5.6.4, 5.7.1, 5.8.2, 5.8.5, table D.2/5-10

Ensure that the IUT in state 7.0, on receipt of a REJ command frame with P = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_18 subclauses 5.6.4, 5.7.1, 5.8.2, 5.8.5, table D.2/5-11

Ensure that the IUT in state 7.0, on receipt of a REJ response frame with F = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_19 subclauses 5.6.4, 5.7.1, 5.8.2, 5.8.5, table D.2/5-12

Ensure that the IUT in state 7.0, on receipt of a REJ response frame with F = 1 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_20 subclause 5.6.5, table D.2/6-4 Ensure that the IUT in state 7.0, on receipt of a RNR response frame with F = 1,

transmits no frame and enters state 7.4.

L2C_D70_I_21 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-9

Ensure that the IUT in state 7.0, on receipt of a RNR command frame with P = 1 and invalid N(R), transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D70_I_22 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-10

Ensure that the IUT in state 7.0, on receipt of a RNR command frame with P = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

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TC27034

TC27037

TC27040

TC27046

TC27043

TC27039

TC27048

TC27042

TC27045

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TC27035

sure 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.	1021041
C_D70_I_24 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-12 sure 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
C_D70_I_25 subclauses 3.6.7, 5.8.1, table D.2/7-3 sure 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
C_D70_I_26 subclauses 3.6.7, 5.8.1, table D.2/7-4 sure 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
C_D70_I_27 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/8-5 sure 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 a state 5.1.	TC27025 nd enters
C_D70_I_28 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/8-6 sure 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
C_D70_I_29 subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-7 sure 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 a state 5.1.	TC27029 nd enters
C_D70_I_30 subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-8 sure that the IUT in state 7.0, on receipt of an I frame with $P = 0$ and invalid N(R) and N(S),	TC27030

subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-11

F transmits a REJ response frame with F = 0, subsequently a SABME frame with P = 1 and enters state 5.1.

6.2.2.5.3 Syntactically invalid

L2C D70 I 23

L2C D70 S 1 subclause 5.8.5, table D.2/10-2

Ensure that the IUT in state 7.0, on receipt of a DISC frame with P = 1 containing an information field, transmits a SABME frame with P = 1 and enters state 5.1.

L2C D70 S 2 subclause 5.8.5, table D.2/10-5

Ensure that the IUT in state 7.0, on receipt of a FRMR response frame with F = 0 which contains an information field.

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

L2C_D70_S_3 subclause 5.8.5, table D.2/10-6

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

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.

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subclause 5.8.5, table D.2/10-8 L2C D70 S 6

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

L2C D70 S 7 subclauses 2.9, 5.8.4

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

L2C_D70_S_8 subclauses 2.9, 5.8.4

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.

subclauses 2.9, 5.8.4 L2C D70 S 9

Ensure that the IUT in state 7.0, having transmitted a RR response frame with F = 1, on receipt of an I frame with P = 0 which contains a frame check sequence error,

transmits no frame and remains in the same state.

6.2.2.6 DL state 7.0 with outstanding I frames

6.2.2.6.1 Valid behaviour

L2C_D70OI_V_1 subclause 5.6.3.2, table D.2/4-3

Ensure that the IUT in state 7.0, having transmitted two I frames, on receipt of a RR response frame with F = 0,

transmits no frame and remains in the same state.

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

L2C D70OI V 2 subclause 5.6.3.2, table D.2/4-5

Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a RR command frame with P = 1 which does not acknowledge the last transmitted I frame,

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

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

L2C D70OI V 3 subclause 5.6.3.2, table D.2/4-6

Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged, on receipt of a RR command frame with P = 0 which does not acknowledge the last transmitted I frame,

transmits no frame and remains in the same state.

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

L2C_D70OI_V_4 subclause 5.6.3.2, table D.2/4-7

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.

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

L2C D700I 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.

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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 D700I 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 D700I 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. or

transmits an I frame with P = 0 as acknowledgement and remains in the same state.

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

6.2.2.6.2 Inopportune behaviour

L2C D700I 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.

L2C D700I 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.

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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.

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

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

L2C_D70_T_3 subclauses 5.6.3.2, 5.6.7, table D.2/9-1

Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged and an I frame with P = 0 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,

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

or

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

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

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

L2C_D70_T_4 subclauses 5.6.3.2, 5.6.7, table D.2/9-1

Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged and a RR command frame with P = 1 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,

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

or

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

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

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

L2C_D70_T_5 subclauses 5.6.3.2, 5.6.7, table D.2/9-1

Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged and a RR command frame with P = 0 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,

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

or

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

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

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

TC27072

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new TC

new TC

new TC

new TC

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.

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

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

L2C_D70_T_7 subclauses 5.6.3.2, 5.6.7, table D.2/9-1

Ensure that the IUT in state 7.0, having transmitted I frames which are still unacknowledged and a RR response frame with F = 1 was received which does not acknowledge the last transmitted I frame, on expiry of timer T200,

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

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

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

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

L2C_D70_T_8 subclauses 5.9.8, 5.10.3, table D.2/9-3

Ensure that the IUT in state 7.0, on expiry of timer T203,

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

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

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

6.2.2.7 DL state 7.1

6.2.2.7.1 Valid behaviour

L2C_D71_V_1 subclauses 5.8.1, 5.6.2, table D.2/7-1

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.

6.2.2.8 DL state 7.4

6.2.2.8.1 Valid behaviour

L2C_D74_V_1 subclause 5.5.3.2, table D.2/2-5

Ensure that the IUT in state 7.4, on receipt of a DISC frame with P = 1, discards the I queue, transmits an UA frame with F = 1 and enters state 4.

new TC

new TC

new TC

TC27101

TC27102

TC27104

TC27408

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L2C_D74_V_2 subclause 5.6.5, table D.2/4-1 Ensure that the IUT in state 7.4, on receipt of a RR command frame with P = 1, transmits a RR response frame with F = 1 and enters state 7.0.	TC27412
L2C_D74_V_3 subclause 5.6.5, table D.2/4-3 Ensure that the IUT in state 7.4, on receipt of a RR response frame with F = 0, transmits no frame and enters state 7.0.	TC27413
L2C_D74_V_4subclauses 5.6.1, 5.6.5, table D.2/4-3Ensure that the IUT in state 7.4, having received a RNR response frame with F = 1 and subseI frame with P = 0, on receipt of a RR response frame with F = 0, transmits the corresponding I frame and enters state 7.0. NOTE 1: The I frame should contain a layer 3 message to the IUT requesting a res I frame should be received during peer busy condition.	
L2C_D74_V_5 subclauses 5.6.4, 5.6.5, table D.2/5-5 Ensure that the IUT in state 7.4, on receipt of a REJ command frame with P = 1, transmits a RR response frame with F = 1 and enters state 7.0.	TC27405
L2C_D74_V_6 subclauses 5.6.4, 5.6.5, table D.2/5-6 Ensure that the IUT in state 7.4, on receipt of a REJ command frame with P = 0, transmits no frame and enters state 7.0.	TC27406
L2C_D74_V_7 subclauses 5.6.4, 5.6.5, table D.2/5-7 Ensure that the IUT in state 7.4, on receipt of a REJ response frame with F = 0, transmits no frame and enters state 7.0.	TC27407
L2C_D74_V_8 subclause 5.6.5, table D.2/6-1 Ensure that the IUT in state 7.4, on receipt of a RNR command frame with P = 1, transmits a RR response frame with F = 1 and remains in the same state.	TC27414
L2C_D74_V_9 subclause 5.6.5, table D.2/6-2 Ensure that the IUT in state 7.4, on receipt of a RNR command frame with P = 0, transmits no frame and remains in the same state.	TC27415
L2C_D74_V_10 subclause 5.6.5, table D.2/6-3 Ensure that the IUT in state 7.4, on receipt of a RNR response frame with F = 0, transmits no frame and remains in the same state.	TC27416
L2C_D74_V_11subclauses 5.6.5, 5.6.3.2, table D.2/7-1Ensure that the IUT in state 7.4, on receipt of an I frame with P = 1, transmits a RR response frame with F = 1 and remains in the same state. NOTE 2: The I frame should contain a layer 3 message to the IUT requesting a response	TC27403
L2C_D74_V_12 subclauses 5.6.1, 5.6.5, table D.2/7-2 Ensure that the IUT in state 7.4, on receipt of an I frame with $P = 0$, transmits a RR response frame with $F = 0$ and remains in state 7.4.	TC28406
 L2C_D74_V_13 subclauses 5.6.1, 5.6.5, table D.2/7-2 Ensure that the IUT in state 7.4, on receipt of an I frame with P = 0, transmits a RR response frame with F = 0 and remains in the same state. NOTE 3: The I frame should contain a layer 3 message to the IUT requesting a response 	TC27404
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.	TC27418
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.	TC27419

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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.	TC27409
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.	TC27429
L2C_D74_I_5 subclauses 5.7.1, 5.8.7, table 9, table D.2/2-10 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.	TC27420
 L2C_D74_I_6 subclauses 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 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 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 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.	TC27435
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.	TC27441
L2C_D74_I_10 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/4-16 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.	TC27438
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.	TC27431
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 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 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 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.	TC27437),
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 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.	, TC27443
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

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subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-9 L2C D74 I 17 TC27433 Ensure that the IUT in state 7.4, on receipt of a RNR command frame with P = 1 and invalid N(R), transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1. L2C D74 I 18 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-10 TC27436 Ensure that the IUT in state 7.4, on receipt of a RNR command frame with P = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. L2C D74 I 19 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-11 TC27442 Ensure that the IUT in state 7.4, on receipt of a RNR response frame with F = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. L2C D74 I 20 subclauses 5.6.5, 5.8.2, 5.8.5, table D.2/6-12 TC27439 Ensure that the IUT in state 7.4, on receipt of a RNR response frame with F = 1 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. L2C D74 I 21 subclauses 3.6.7, 5.8.1, table D.2/7-3 TC27423 Ensure that the IUT in state 7.4, on receipt of an I frame with P = 1 and invalid N(S). transmits a REJ response frame with F = 1 and enters state 7.5. L2C D74 I 22 subclauses 3.6.7, 5.8.1, table D.2/7-4 TC27424 Ensure that the IUT in state 7.4, on receipt of an I frame with P = 0 and invalid N(S), transmits a REJ response frame with F = 0 and enters state 7.5. L2C D74 I 23 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/8-5 TC27421 Ensure that the IUT in state 7.4, on receipt of an I frame with P = 1 and invalid N(R), transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1. L2C D74 I 24 subclauses 5.7.1, 5.8.2, 5.8.5, table D.2/8-6 TC27422 Ensure that the IUT in state 7.4, on receipt of an I frame with P = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. L2C_D74_I_25 subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-7 TC27425 Ensure that the IUT in state 7.4, on receipt of an I frame with P = 1 and invalid N(R) and N(S), transmits a REJ response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1. L2C D74 I 26 subclauses 3.6.7, 5.8.1, 5.8.2, 5.8.5, table D.2/8-8 TC27426 Ensure that the IUT in state 7.4, on receipt of an I frame with P = 0 and invalid N(R) and N(S), transmits a REJ response frame with F = 0, subsequently a SABME frame with P = 1 and enters state 5.1. 6.2.2.8.3 Syntactically invalid L2C D74 S 1 subclause 5.8.5, table D.2/10-2 TC27446 Ensure that the IUT in state 7.4, on receipt of a DISC frame with P = 1 which contains an information field, transmits a SABME frame with P = 1 and enters state 5.1.

L2C_D74_S_2 subclause 5.8.5, table D.2/10-5

Ensure that the IUT in state 7.4, on receipt of a FRMR response frame with F = 0 which contains an information field,

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

L2C_D74_S_3 subclause 5.8.5, table D.2/10-6

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.

TC27447

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 frame,

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

L2C_D74_S_6 subclauses 2.9, 5.8.5

Ensure that the IUT in state 7.4, on receipt of an I frame with P = 0 which contains a frame check sequence error,

transmits no frame and remains in the same state.

6.2.2.9 DL state 7.4 with outstanding I frames

6.2.2.9.1 Valid behaviour

L2C D74OI V 1 subclause 5.6.4 a), table D.2/5-5

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a REJ command frame with P = 1,

transmits a RR response frame with F = 1, subsequently the rejected I frames and enters state 7.0.

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

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

L2C_D74OI_V_2 subclause 5.6.4 a), table D.2/5-6

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a REJ command frame with P = 0,

transmits the rejected I frames and enters state 7.0.

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

NOTE 2: An I frame will be received as soon as the IUT is able to send it.

L2C D74OI V 3 subclause 5.6.4 a), table D.2/5-7

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a REJ response frame with F = 0,

transmits the rejected I frames and enters state 7.0.

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

NOTE 3: An I frame will be received as soon as the IUT is able to send it.

L2C_D74OI_V_4 subclause 5.6.5, table D.2/6-5

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

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

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

L2C D74OI V 5 subclause 5.6.5, table D.2/6-6

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a RNR command frame with P = 0 which does not acknowledge the last transmitted I frame, transmits no frame and remains in the same state.

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

L2C_D74OI_V_6 subclause 5.6.5, table D.2/6-7

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

transmits no frame and remains in the same state.

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

L2C_D74OI_V_7 subclause 5.6.3.2, table D.2/7-5

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.

TC27459

TC27455

TC27460

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TC27445

TC27449

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L2C_D74OI_V_8 subclause 5.6.3.2, table D.2/7-6

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 0 which does not acknowledge the last transmitted I frame,

transmits a RR response frame with F = 0 and remains in the same state.

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

6.2.2.9.2 Inopportune behaviour

L2C_D74OI_I_1 subclause 5.6.4 a), table D.2/5-8

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of a REJ response frame with F = 1,

transmits the rejected I frames and enters state 7.0.

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

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

L2C_D74OI_I_2 subclause 5.6.5, table D.2/6-8

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

transmits no frame and remain in the same state.

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

L2C_D74OI_I_3 subclause 5.8.1, table D.2/7-7

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 1 and invalid N(S) which does not acknowledge the last transmitted I frame, transmits a REJ response frame with F = 1 and enters state 7.5.

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

L2C_D74OI_I_4 subclause 5.8.1, table D.2/7-8

Ensure that the IUT in state 7.4, having transmitted I frames which are still unacknowledged, on receipt of an I frame with P = 0 and invalid N(S) which does not acknowledge the last transmitted I frame, transmits a REJ response frame with F = 0 and enters state 7.5.

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

6.2.2.9.3 Timers

L2C_D74_T_1 subclause 5.6.7, table D.2/9-1

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

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

or

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

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

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

L2C_D74_T_2 subclause 5.6.7, table D.2/9-1

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

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

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

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

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

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TC27451

TC27463

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.

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

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

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.

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

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

subclause 5.6.5, table D.2/9-1 L2C D74 T 5

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

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

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

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

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

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

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

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

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

L2C D74 T 7 subclause 5.6.5, table D.2/9-1

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

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

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

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

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.

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

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

L2C D74 T 9 subclause 5.6.5. table D.2/9-1

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

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6.2.2.10 DL state 7.5 6.2.2.10.1 Valid behaviour L2C D75 V 1 subclauses 5.8.1, 5.6.2, table D.2/7-1 TC27501 Ensure that the IUT in state 7.5, on receipt of an I frame with P = 1, transmits a RR response frame with F = 1 and enters state 7.4. L2C D75 V 2 subclauses 5.8.1, 5.6.2, table D.2/7-2 TC27502 Ensure that the IUT in state 7.5, on receipt of an I frame with P = 0, transmits a RR response frame with F = 0 and enters state 7.4. 6.2.2.10.2 Inopportune behaviour L2C D75 I 1 subclause 5.8.1, table D.2/7-3 TC27503 Ensure that the IUT in state 7.5, on receipt of an I frame with P = 1 and invalid N(S), transmits a RR response frame with F = 1 and remains in the same state. L2C D75 I 2 subclause 5.8.1, table D.2/7-4 TC27504 Ensure that the IUT in state 7.5, on receipt of an I frame with P = 0 and invalid N(S), transmits no frame and remains in the same state. 6.2.2.11 DL state 8.0 6.2.2.11.1 Valid behaviour L2C_D80_V_1 subclause 5.5.3.2, table D.3/2-5 TC28003 Ensure that the IUT in state 8.0, on receipt of a DISC frame with P = 1, discards the I queue, transmits an UA frame with F = 1 and enters state 4. L2C D80 V 2 subclause 5.5.3.2. table D.3/2-6 TC28004 Ensure that the IUT in state 8.0, on receipt of a DISC frame with P = 0, discards the I queue, transmits an UA frame with F = 0 and enters state 4. L2C_D80_V_3 subclause 5.6.3, table D.3/4-4 TC27015 Ensure that the IUT in state 8.0, having transmitted a RR command frame with P = 1 or an I frame with P = 1, on receipt of a RR response frame with F = 1 which does not acknowledge the last transmitted I frame, transmits an I frame with P = 0, and enters state 7.0. Simulation of I frame loss. NOTE 1: L2C_D80_V_4 subclause 5.6.4, table D.3/5-3 TC28029 Ensure that the IUT in state 8.0, on receipt of a REJ response frame with F = 0, transmits no frame and remains in the same state. L2C D80 V 5 subclause 5.6.4, table D.3/5-4 TC28005 Ensure that the IUT in state 8.0, having transmitted an I frame with P = 0, on receipt of a REJ response frame with F = 1,

transmits the corresponding I frame and enters state 7.0.

NOTE 2: An I frame will be received as soon as the IUT is able to send it.

L2C_D80_V_6 subclause 5.6.4, table D.3/5-4

Ensure that the IUT in state 8.0, having transmitted an I frame with P = 0, on receipt of a REJ response frame with F = 1,

transmits a RR response frame with F = 1, subsequently transmits the corresponding I frame and enters state 7.0.

An I frame will be received as soon as the IUT is able to send it. NOTE 3:

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.3/6-4Ensure that the IUT in state 8.0, having transmitted an I frame with $P = 0$, on receipt of a RNRframe with $F = 1$, transmits no frame and enters state 7.4.	TC28006 R response
6.2.2.11.2 Inopportune behaviour	
L2C_D80_I_1 subclauses 5.7.1, 5.7.2, table D.3/2-1 Ensure that the IUT in state 8.0, on receipt of a SABME frame with P = 1, transmits an UA frame with F = 1 and enters state 7.0.	TC28007
L2C_D80_I_2 subclauses 5.7.1, 5.7.2, table D.3/2-3 Ensure that the IUT in state 8.0, on receipt of a SABME frame with P = 0, transmits an UA frame with F = 0 and enters state 7.0.	TC28008
L2C_D80_I_3 subclause 5.8.7, table 9, table D.3/2-9 Ensure that the IUT in state 8.0, on receipt of a DM frame with F = 1, transmits a SABME frame with P = 1 and enters state 5.1.	TC28009
L2C_D80_I_4 subclauses 5.7.1, 5.8.7, table 9, table D.3/2-10 Ensure that the IUT in state 8.0, on receipt of an unsolicited DM frame with F = 0, transmits a SABME frame with P = 1 and enters state 5.1.	TC28010
 L2C_D80_I_5 subclauses 5.7.1, 5.8.6, table D.3/3-5 Ensure that the IUT in state 8.0, on receipt of a FRMR response frame with F = 1 rejecting an I f 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 	
frame.	response
L2C_D80_I_6 subclauses 5.6.3, 5.6.7, table D.3/4-1 Ensure that the IUT in state 8.0, on receipt of a RR command frame with P = 1, transmits a RR response frame with F = 1 and remains in the same state.	TC28021
L2C_D80_I_7 subclauses 5.6.3, 5.6.7, table D.3/4-2 Ensure that the IUT in state 8.0, on receipt of a RR command frame with P = 0, transmits no frame and remains in the same state.	TC28024
L2C_D80_I_8 subclause 5.8.7, table 9, table D.3/4-3 Ensure that the IUT in state 8.0, on receipt of a RR response frame with F = 0, transmits no frame and remains in the same state.	TC28027
L2C_D80_I_9 subclauses 5.6.3, 5.6.7, table D.3/4-4 Ensure that the IUT in state 8.0, having received I frames containing layer 3 messages represented on the response, on receipt of a RR response frame with $F = 1$, transmits an I frame with $P = 0$ and enters state 7.0.	TC28012 questing a
L2C_D80_I_10 subclauses 5.8.2, 5.8.5, table D.3/4-5 Ensure that the IUT in state 8.0, on receipt of a RR command frame with P = 1 and invalid N(R), transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 a state 5.1.	
L2C_D80_I_11 subclauses 5.8.2, 5.8.5, table D.3/4-6 Ensure that the IUT in state 8.0, on receipt of a RR command frame with P = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.	TC28033
L2C_D80_I_12 subclauses 5.8.2, 5.8.5, table D.3/4-7 Ensure that the IUT in state 8.0, on receipt of a RR response frame with F = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.	TC28039
L2C_D80_I_13 subclauses 5.8.2, 5.8.5, table D.3/4-8 Ensure that the IUT in state 8.0, on receipt of a RR response frame with F = 1 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1	TC28036

re that the IUT in state 8.0, on receipt of a RR response frame with F transmits a SABME frame with P = 1 and enters state 5.1.

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L2C_D80_I_15subclause 5.6.4, table D.3/5-2TC28026Ensure 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_16subclauses 5.8.2, 5.8.5, table D.3/5-5TC28032Ensure that the IUT in state 8.0, on receipt of a REJ command frame with $P = 1$ and invalid N(R), transmits a RR response frame with $F = 1$, subsequently a SABME frame with $P = 1$ and enters state 5.1.
L2C_D80_I_17subclauses 5.8.2, 5.8.5, table D.3/5-6TC28035Ensure 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.TC28035
L2C_D80_I_18subclauses 5.8.2, 5.8.5, table D.3/5-7TC28041Ensure 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.TC28041
L2C_D80_I_19subclauses 5.8.2, 5.8.5, table D.3/5-8TC28038Ensure 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.TC28038
L2C_D80_I_20subclause 5.6.5, table D.3/6-2TC28025Ensure 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
L2C_D80_I_21subclause 5.6.5, table D.3/6-3TC28028Ensure 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.3/6-5TC28031Ensure that the IUT in state 8.0, on receipt of a RNR command frame with P = 1 and invalid N(R), transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.
L2C_D80_I_23subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-6TC28034Ensure that the IUT in state 8.0, on receipt of a RNR command frame with P = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.TC28034
L2C_D80_I_24subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-7TC28040Ensure 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.TC28040
L2C_D80_I_25subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-8TC28037Ensure 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.TC28037
L2C_D80_I_26subclause 5.6.3.2, table D.3/7-1TC28011Ensure that the IUT in state 8.0, having transmitted an I frame with $P = 0$, on receipt of an I frame with $P = 1$

frame with P = 1,

P = 1,

subclause 5.6.4, table D.3/5-1 L2C_D80_I_14

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

Ensure that the IUT in state 8.0, having transmitted an I frame with P = 0, on receipt of a REJ command

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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:

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- 8037

Ensure that the IUT in state 8.0, having transmitted an I frame with $P = 0$, on receipt of an I f $P = 0$,	frame 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_28 subclauses 5.6.2.1, 5.8.1, table D.3/7-3 Ensure that the IUT in state 8.0, on receipt of an I frame with P = 1 and invalid N(S), transmits a REJ response frame with F = 1 and enters state 8.1.	TC28015
L2C_D80_I_29 subclauses 5.6.2.2, 5.8.1, table D.3/7-4 Ensure that the IUT in state 8.0, on receipt of an I frame with P = 0 and invalid N(S), transmits a REJ response frame with F = 0 and enters state 8.1.	TC28016

L2C D80 I 30 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 8.0, 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.

subclauses 5.6.2.2, 5.7.1, 5.8.2, 5.8.5, table D.3/8-6 L2C D80 I 31

Ensure that the IUT in state 8.0, on receipt of an I frame with P = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1.

L2C D80_I_32 subclauses 5.6.2.1, 5.7.1, 5.8.2, 5.8.5, table D.3/8-7

subclause 5.6.3.2, table D.3/7-2

Ensure that the IUT in state 8.0, on receipt of an I frame with P = 1 and invalid N(R) and N(S), transmits a REJ response frame with F = 1, subsequently a SABME frame with P = 1 and enters state 5.1.

L2C_D80_I_33 subclauses 5.6.2.2, 5.7.1, 5.8.2, 5.8.5, table D.3/8-8

Ensure that the IUT in state 8.0, on receipt of an I frame with P = 0 and invalid N(R) and N(S), transmits a REJ response frame with F = 0, subsequently a SABME frame with P = 1 and enters state 5.1.

6.2.2.11.3 Syntactically invalid

L2C D80 I 27

L2C D80 S 1 subclause 5.8.5, table D.3/10-2

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

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

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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 P = 1 and remains in the same state; or transmits I frames with P = 1 and remains in the same state.

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

L2C_D80_T_2 subclause 5.6.5, table D.3/9-2

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.

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6.2.2.13 DL state 8.1

6.2.2.13.1 Valid behaviour

subclauses 5.8.1, 5.6.2, table D.3/7-1 L2C D81 V 1

Ensure that the IUT in state 8.1, on receipt of an I frame with P = 1 and correct send and receive sequence numbers,

transmits a RR response frame with F = 1 and enters state 8.0.

L2C D81 V 2 subclauses 5.8.1, 5.6.2, table D.3/7-2

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 | 1 subclause 5.8.1. table D.3/7-7 TC28103 Ensure that the IUT in state 8.1, on receipt of an I frame with P = 1 and invalid N(S), transmits a RR response frame with F = 1 and remains in the same state. L2C_D81_I_2 subclause 5.8.1, table D.3/7-8 TC28104 Ensure that the IUT in state 8.1, on receipt of an I frame with P = 0 and invalid N(S), transmits no frame and remains in the same state. 6.2.2.14 DL state 8.4 6.2.2.14.1 Valid behaviour L2C D84 V 1 subclause 5.5.3.2, table D.3/2-5 TC28402 Ensure that the IUT in state 8.4. on receipt of a DISC frame with P = 1. discards the I queue, transmits an UA frame with F = 1 and enters state 4. L2C D84 V 2 subclause 5.5.3.2, table D.3/2-6 TC28403 Ensure that the IUT in state 8.4, on receipt of a DISC frame with P = 0, discards the I queue, transmits an UA frame with F = 0 and enters state 4. L2C D84 V 3 subclause 5.6.5, table D.3/4-4 TC28405 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 1, transmits no frame and enters state 7.0. L2C D84 V 4 subclauses 5.6.1, 5.6.5, table D.3/4-4 new TC Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 1, transmits the corresponding I frame and enters state 7.0. NOTE 3: No I frame should be received during peer busy condition. L2C D84 V 5 subclauses 5.6.4, 5.6.5, table D.3/5-4 TC28407 Ensure that the IUT in state 8.4, on receipt of a REJ response frame with F = 1, transmits no frame and enters state 7.0. 6.2.2.14.2 Inopportune behaviour L2C D84 I 1 subclause 5.7.1, table D.3/2-1 TC28408 Ensure that the IUT in state 8.4, on receipt of a SABME frame with P = 1, transmits an UA frame with F = 1 and enters state 7.0. L2C D84 I 2 TC28409 subclause 5.7.1, table D.3/2-3

Ensure that the IUT in state 8.4, on receipt of a SABME frame with P = 0, transmits an UA frame with F = 1 and enters state 7.0.

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L2C_D84_I_3 subclause 5.8.7, table 9, table D.3/2-9 Ensure that the IUT in state 8.4, on receipt of a DM frame with F = 1, transmits a SABME frame with P = 1 and enters state 5.1	TC28410
L2C_D84_I_4 subclause 5.8.7, table 9, table D.3/2-10 Ensure that the IUT in state 8.4, on receipt of an unsolicited DM frame with F = 0, transmits a SABME frame with P = 1 and enters state 5.1	TC28411
L2C_D84_I_5 subclauses 5.6.5, 5.7.1, 5.8.6, table D.3/3-5 Ensure that the IUT in state 8.4, on receipt of a FRMR response frame with F = 1 rejecting an I transmits a SABME frame with P = 1 and enters state 5.1.	TC28443 frame,
L2C_D84_I_6 subclauses 5.6.3, 5.6.7, table D.3/4-1 Ensure that the IUT in state 8.4, on receipt of a RR command frame with P = 1, transmits a RR response frame with F = 1 and enters state 8.0.	TC28422
L2C_D84_I_7 subclauses 5.6.3, 5.6.7, table D.3/4-2 Ensure that the IUT in state 8.4, on receipt of a RR command frame with P = 0, transmits no frame and enters state 8.0.	TC28425
L2C_D84_I_8 subclauses 5.6.3, 5.6.7, table D.3/4-3 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 0, transmits no frame and enters state 8.0.	TC28428
L2C_D84_I_9 subclauses 5.8.2, 5.8.5, table D.3/4-5 Ensure that the IUT in state 8.4, on receipt of a RR command frame with P = 1 and invalid N(R) transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 state 5.1.	
L2C_D84_I_10 subclauses 5.8.2, 5.8.5, table D.3/4-6 Ensure that the IUT in state 8.4, on receipt of a RR command frame with P = 0 and invalid N(R) transmits a SABME frame with P = 1 and enters state 5.1.	TC28434
transmits a SADME frame with $P = 1$ and enters state 5.1.	,
 L2C_D84_I_11 subclauses 5.8.2, 5.8.5, table D.3/4-7 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. 	TC28440
L2C_D84_I_11 subclauses 5.8.2, 5.8.5, table D.3/4-7 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 0 and invalid N(R),	TC28440 TC28437
 L2C_D84_I_11 subclauses 5.8.2, 5.8.5, table D.3/4-7 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. L2C_D84_I_12 subclauses 5.8.2, 5.8.5, table D.3/4-8 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 1 and invalid N(R), 	TC28440 TC28437
 L2C_D84_I_11 subclauses 5.8.2, 5.8.5, table D.3/4-7 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. L2C_D84_I_12 subclauses 5.8.2, 5.8.5, table D.3/4-8 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 1 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. L2C_D84_I_13 subclause 5.6.4, table D.3/5-1 Ensure that the IUT in state 8.4, on receipt of a REJ command frame with P = 1, 	TC28440 TC28437
 L2C_D84_I_11 subclauses 5.8.2, 5.8.5, table D.3/4-7 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. L2C_D84_I_12 subclauses 5.8.2, 5.8.5, table D.3/4-8 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 1 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. L2C_D84_I_13 subclause 5.6.4, table D.3/5-1 Ensure that the IUT in state 8.4, on receipt of a REJ command frame with P = 1, transmits a RR response frame with F = 1 and enters state 8.0. L2C_D84_I_14 subclause 5.6.4, table D.3/5-2 Ensure that the IUT in state 8.4, on receipt of a REJ command frame with P = 0, 	TC28440 TC28437 TC28424
 L2C_D84_I_11 subclauses 5.8.2, 5.8.5, table D.3/4-7 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 0 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. L2C_D84_I_12 subclauses 5.8.2, 5.8.5, table D.3/4-8 Ensure that the IUT in state 8.4, on receipt of a RR response frame with F = 1 and invalid N(R), transmits a SABME frame with P = 1 and enters state 5.1. L2C_D84_I_13 subclause 5.6.4, table D.3/5-1 Ensure that the IUT in state 8.4, on receipt of a REJ command frame with P = 1, transmits a RR response frame with F = 1 and enters state 8.0. L2C_D84_I_14 subclause 5.6.4, table D.3/5-2 Ensure that the IUT in state 8.4, on receipt of a REJ command frame with P = 0, transmits no frame and enters state 8.0. L2C_D84_I_15 subclause 5.6.4, table D.3/5-3 Ensure that the IUT in state 8.4, on receipt of a REJ response frame with F = 0, 	TC28440 TC28437 TC28424 TC28427 TC28420 TC28430

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

L2C_D84_I_18 subclauses 5.8.2, 5.8.5, table D.3/5-7 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.	TC28442
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.	TC28439
L2C_D84_I_20 subclause 5.6.5, table D.3/6-1 Ensure that the IUT in state 8.4, on receipt of a RNR command frame with P = 1, transmits a RR response frame with F = 1 and remains in the same state.	TC28423
L2C_D84_I_21 subclause 5.6.5, table D.3/6-2 Ensure that the IUT in state 8.4, on receipt of a RNR command frame with P = 0, transmits no frame and remains in the same state.	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(R transmits a RR response frame with F = 1, subsequently a SABME frame with P = 1 a state 5.1.	
L2C_D84_I_24 subclauses 5.6.5, 5.8.2, 5.8.5, table D.3/6-6 Ensure that the IUT in state 8.4, on receipt of a RNR command frame with P = 0 and invalid N(R transmits a SABME frame with P = 1 and enters state 5.1.	TC28435),
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.	TC28441 ,
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.	TC28438
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_30 subclauses 5.6.2.2, 5.8.1, table D.3/7-4 Ensure that the IUT in state 8.4, on receipt of an I frame with P = 0 and invalid N(S), transmits a REJ response frame with F = 0 and enters state 8.5.	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
L2C_D84_I_32 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), transmits a SABME frame with P = 1 and enters state 5.1.	TC28415

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

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.

subclause 5.8.5, table D.3/10-6 L2C D84 S 3

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_D84OI_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 D84OI 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.

TC28445

TC28448

TC28446

TC28450

TC28418

TC28444

TC28449

TC28451

TC28419

6.2.2.15.2 Inopportune behaviour

L2C D84OI 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_D84OI_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 D84OI 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

Ensure that the IUT in state 8.4, having retransmitted N200 times RR command frames with P = 1 or I frames with P = 1,

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

6.2.2.16 DL state 8.5

6.2.2.16.1 Valid behaviour

L2C D85 V 1 subclauses 5.8.1, 5.6.2, table D.3/8-1 TC28501 Ensure that the IUT in state 8.5, on receipt of an I frame with P = 1, transmits a RR response frame with F = 1 and enters state 8.4. L2C D85 V 2 subclauses 5.8.1, 5.6.2, table D.3/8-2 TC28502 Ensure that the IUT in state 8.5, on receipt of an I frame with P = 0, transmits a RR response frame with F = 0 and enters state 8.4. 6.2.2.16.2 Inopportune behaviour L2C D85 | 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 TC28504 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

TC28452

TC28453

TC27411

new TC

new TC

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7 Compliance

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

- a) consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 6;
- b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 5;
- c) use the same naming conventions for the test groups and test cases;
- d) maintain the relationship specified in clause 6 between the test groups and TPs and the entries in the PICS proforma to be used for test case deselection;
- e) comply with ISO/IEC 9646-2 [4].

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

8 Requirements for a comprehensive testing service

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

History

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