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Information technology — Telecommunications and information exchange between systems — X.25 DTE conformance testing —

Part 3:

Packet layer conformance test suite

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Test de conformité X.25 DTE —*

Partie 3: Suite d'essais de conformité pour la couche paquet



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Contents

	Page
1 Scope	1
2 Normative references	1
3 Definitions	2
3.1 Reference model definitions	2
3.2 Conformance testing definitions	2
3.3 X.25-DTE conformance testing definitions	2
3.4 Additional definitions	2
3.4.1 proper packet	2
3.4.2 improper packet	2
3.4.3 inopportune packet	2
4 Abbreviations	2
5 Conformance	3
6 Test suite information	3
6.1 Packet layer test suite structure	3
6.2 Packet layer initialization	3
6.3 DTE-initiated actions	5
6.4 Timer definitions	5
6.5 Cause codes and diagnostic codes	6
6.6 Data transfer states	6
6.7 Other user data fields	7
6.8 Transient states	7
6.9 Relationship of PICS to test suite	7
6.10 Relationship of PIXIT to test suite	7
6.11 Test case selection	7
6.12 PIXIT proforma	7
6.13 Acceptable unexpected responses	19
6.14 Implicit send	20
6.15 Basic interconnection tests	20
7 TTCN abstract test suite	21
7.1 Test suite overview	21
7.2 Test case index	23
7.3 Test step index	42
7.4 ASN.1 type definitions	46

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7.5 Test suite parameter declarations	61
7.6 Test case selection expression definitions	71
7.7 Test suite constant declarations	74
7.8 Test suite variable declarations	74
7.9 Test case variable declarations	74
7.10 PCO declarations	75
7.11 Timer declarations	75
7.12 ASN.1 ASP type definitions	76
7.13 ASN.1 PDU type definitions	77
7.14 ASN.1 type constraint declarations	83
7.15 ASN.1 ASP constraint declarations	93
7.16 ASN.1 PDU constraint declarations	94
7.17 Verification of packet layer ready state R1	166
7.18 Verification of DTE restart request state R2	181
7.19 Verification of DXE restart indication state R3	200
7.20 Verification of packet ready state P1	232
7.21 Verification of call request state P2	242
7.22 Verification of DXE incoming call state P3	253
7.23 Verification of data transfer state P4	264
7.24 Verification of call collision state P5	271
7.25 Verification of clear request state P6	282
7.26 Verification of DXE clear indication state P7	291
7.27 Verification of flow control ready state D1	304
7.28 Verification of DTE reset request state D2	314
7.29 Verification of DXE reset indication state D3	320
7.30 Verification of DTE interrupt ready state I1	329
7.31 Verification of DTE interrupt sent state I2	331
7.32 Verification of DXE interrupt ready state J1	333
7.33 Verification of DXE interrupt sent state J2	335
7.34 Verification of DXE receive ready state F1	337
7.35 Verification of DXE receive not ready state F1	342
7.36 Verification of DTE receive ready state G1	347
7.37 Data transfer test cases	353
7.38 Verification of DTE timers	357
7.39 Addressing test cases	365
7.40 Verification of DTE optional facilities	367
7.41 Verification of the registration procedures	380
7.42 Multiple assignment LCI test cases	387
7.43 Verification of DTE/DTE procedures	389
7.44 Preambles	393
7.45 Postambles	401
7.46 Common sub-trees	405
7.47 Local sub-trees	426
 Annex A (informative) - Conformance Testing Summary Matrix	 446

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development on International Standards through technical committees established by the respective organization to deal with particular fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 8882-3 was prepared by Joint Technical Committee ISO/IEC JTC1, *Information technology, Subcommittee SC 6, Telecommunications and information exchange between systems*.

This second edition cancels and replaces the first edition (ISO/IEC 8882-3:1991), which has been technically revised.

ISO/IEC 8882 consists of the following parts, under the general title *Information technology -- Telecommunications and information exchange between systems -- X.25 DTE conformance testing*:

- Part 1 : *General principles*
- Part 2 : *Data link layer conformance test suite*
- Part 3 : *Packet layer conformance test suite*

Annex A of this part of ISO/IEC 8882 is for information only.

Introduction

This part of ISO/IEC 8882 specifies a set of tests to evaluate Data Terminal Equipment (DTE) conformance to International Standards ISO/IEC 7776 (X.25 LAPB) and/or ISO/IEC 8208 (X.25 Packet Layer). ISO/IEC 7776 and ISO/IEC 8208 allow for a DTE to interface with a Data Circuit-Terminating Equipment (DCE) conforming to CCITT Recommendation X.25 or to another DTE conforming to ISO/IEC 7776 and/or ISO/IEC 8208. ISO/IEC 8208 also allows for connection to Local Area Networks.

CCITT Recommendation X.25 (1980) and X.25 (1984) are written from the perspective of a DCE and therefore do not explicitly specify the DTE operation. However, recommended operation of DTEs is included by implication because of the need to communicate with X.25 DCEs. Tests within this part of ISO/IEC 8882 pertaining to X.25 (1980) and X.25 (1984) are based on the DTE operational characteristics implied by CCITT X.25.

This part of ISO/IEC 8882 presents the packet layer aspects for evaluating conformance to ISO/IEC 8208 and follows the procedures and guidelines defined in ISO/IEC 9646.

Where it is claimed that X.25 is used to provide the OSI Network Layer Service, the conformance tests as defined in this part of ISO/IEC 8882 can be used to verify the implementation of the necessary protocol elements.

The test suite is presented in an abstract form by means of the test case notation TTCN, as defined in ISO/IEC 9646-3. This is an abstract set of tests. Not every test applies to every public network or every type of DTE.

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Information technology — Telecommunications and information exchange between systems — X.25 DTE conformance testing —

Part 3:

Packet layer conformance test suite

1 Scope

This part of ISO/IEC 8882 specifies a set of abstract tests for verifying that the implementation of X.25 protocols, for use by Data Terminal Equipment (DTE), conform to the requirements of International Standards that specify those protocols.

This part of ISO/IEC 8882

- a) specifies a PIXIT proforma;
- b) describes the relationship of the PICS to the test suite;
- c) describes the relationship of the PIXIT to the test suite;
- d) specifies a set of abstract tests using TTCN Graphical notation.

This part of ISO/IEC 8882 defines the testing of a DTE operating at the packet layer designed to access a public or private packet-switched network conforming to CCITT Recommendation X.25 (1980, 1984) or another DTE conforming to ISO/IEC 8208. The specification of test cases in executable/machine processable TTCN is outside the scope of this part of ISO/IEC 8882.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 8882. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 8882 are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards, and ITU-T maintains published editions of its current Recommendations.

ISO/IEC 7498-1: 1994, *Information technology -- Open Systems Interconnection -- Basic Reference Model: The Basic Model* (See also CCITT Recommendation X.200).

ISO/IEC 7776: 1995, *Information technology -- Telecommunications and information exchange systems -- High-level data link control procedures -- Description of the X.25 LAPB-compatible DTE data link procedures*.

ISO/IEC 8208: 1990, *Information technology -- Data communications -- X.25 Packet Layer Protocol for Data Terminal Equipment*.

ISO/IEC 8208/Amd.1: 1990, *Information technology -- Data communications -- X.25 Packet Layer Protocol for Data Terminal Equipment -- Amendment 1: Alternative Logical Channel Identifier Assignment*.

ISO/IEC 8208/Amd. 3: 1991, *Information technology -- Data communications -- X.25 Packet Layer Protocol for Data Terminal Equipment -- Amendment 3: Conformance requirements*.

ISO/IEC 8824: 1990, *Information technology -- Open Systems Interconnection -- Specification of Abstract Syntax Notation One (ASN.1)* (See also CCITT Recommendation X.680).

ISO/IEC 8882-1: 1993, *Information technology -- Telecommunications and information exchange between systems -- X.25-DTE conformance testing -- Part 1: General principles*.

ISO/IEC 8886: 1992, *Information technology -- Telecommunications and information exchange between systems -- Data link service definition for Open Systems Interconnection*.

ISO/IEC 9646-1: 1994, *Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 1: General concepts*. (See also CCITT Recommendation X.290).

ISO/IEC 9646-2: 1994, *Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 2: Abstract Test Suite specification*. (See also CCITT Recommendation X.291).

ISO/IEC 9646-3: 1992, *Information technology -- Open Systems Interconnection -- Conformance testing meth-*

odology and framework -- Part 3: The Tree and Tabular Combined Notation (TTCN).

ISO/IEC 9646-4: 1994, *Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 4: Test realization*. (See also CCITT Recommendation X.293).

ISO/IEC 9646-5: 1994, *Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 5: Requirements on test laboratories and clients for the conformance assessment process*. (See also CCITT Recommendation X.294).

CCITT Recommendation X.25 (1980), *Interface Between Data Terminating Equipment (DTE) and Data Circuit-Terminating Equipment (DCE) for Terminals Operating in the Packet Mode on the Public Data Networks*.

CCITT Recommendation X.25 (1984), *Interface Between Data Terminating Equipment (DTE) and Data Circuit-Terminating Equipment (DCE) for terminals operating in the Packet Mode on the Public Data Networks by Dedicated Circuit*.

CCITT Recommendation X.25 (1988), *Interface Between Data Terminal Equipment (DTE) and Data Circuit-Terminating Equipment (DCE) for terminals operating in the Packet Mode and connected to Public Data Networks by Dedicated Circuit, CCITT Blue Book*.

3 Definitions

3.1 Reference model definitions

This part of ISO/IEC 8882 makes use of the following term defined in ISO/IEC 7498-1.

(N)-protocol-data-unit (N-PDU)

3.2 Conformance testing definitions

This part of ISO/IEC 8882 makes use of the following terms defined in ISO/IEC 9646.

- a) Abstract Test Suite
- b) Conforming System or Implementation
- c) Conformance Test Suite
- d) Conformance Testing
- e) Executable Test Suite
- f) Postamble
- g) Preamble

- h) Protocol Implementation Conformance Statement
- i) Protocol Implementation eXtra Information for Testing
- j) Test Group
- k) Test Step
- l) Test Suite

3.3 X.25-DTE conformance testing definitions

This part of ISO/IEC 8882 makes use of the following terms defined in ISO/IEC 8882-1.

- a) Improper PDU
- b) Inopportune PDU
- c) Proper PDU
- d) Test Subgroup
- e) Test Selection
- f) Tester
- g) Transient States

3.4 Additional definitions

For the purposes of this part of ISO/IEC 8882, the following definitions apply.

3.4.1 proper packet : A packet that is a proper PDU.

3.4.2 improper packet : A packet that is an improper PDU.

3.4.3 inopportune packet : A packet that is an inopportune PDU.

4 Abbreviations

The following abbreviations are used in this part of ISO/IEC 8882:

ADX	Address
ASP	Abstract Service Primitive
ATS	Abstract Test Suite
ETS	Executable Test Suite
FAC	Facility
IUT	Implementation Under Test
LCI	Logical Channel Identifier
LEN	Length
PCO	Point of Control and Observation
PDU	Protocol Data Unit

PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
PKT	Packet
PLG	Packet Layer Group
RX	Receive
TST	Tester
TX	Transmit
UDF	User Data Field

5 Conformance

The test realizer shall comply with the requirements of ISO/IEC 9646-4. In particular, these concern the realization of an ETS based on the ATS. Test laboratories running conformance test services for this abstract test suite shall comply with ISO/IEC 9646-5.

6 Test suite information

6.1 Packet layer test suite structure

The packet layer tests are grouped as shown in Table 1.

Table 1. Packet layer test groups			
Test group #	Packet layer test groups	Test group #	Packet layer test groups
1	r1 - Packet Layer Ready State	15	i2 - DTE Interrupt Sent State
2	r2 - DTE Restart Request State	16	j1 - DXE Interrupt Ready State
3	r3 - DXE Restart Indication State	17	j2 - DXE Interrupt Sent State
4	p1 - Ready State	18	f1 - DXE Receive Ready State
5	p2 - DTE Call Request State	19	f2 - DXE Receive Not Ready State
6	p3 - DXE Incoming Call State	20	g1 - DTE Receive Ready State
7	p4 - Data Transfer State	21	g2 - DTE Receive Not Ready (*)
8	p5 - Call Collision State	22	Data Transfer
9	p6 - DTE Clear Request State	23	Timer Tests
10	p7 - DXE Clear Indication State	24	Address
11	d1 - Flow Control Ready State	25	Facility
12	d2 - DTE Reset Request State	26	Registration
13	d3 - DXE Reset Indication State	27	Multiple Logical Channel Assignment
14	i1 - DTE Interrupt Ready State	28	DTE/DTE Tests NOTE - (*) This group has been deleted but the number has been retained for consistency.

For each test group that tests a packet layer state (PLG1 through PLG28), the test cases specified are categorized into the following three subgroups.

- Subgroup 1 contains test cases in which the Tester transmits a proper test packet, these test cases are identified with a one hundred series test case identifier xx_1xx.
- Subgroup 2 contains test cases in which the Tester transmits an improper test packet, these test cases are identified with a two hundred series test case identifier xx_2xx.
- Subgroup 3 contains test cases in which the Tester transmits an inopportune test packet,

these test cases are identified with a three hundred series test case identifier xx_3xx.

6.2 Packet layer initialization

In accordance with ISO/IEC 8208 Section 3.10, the DTE must transmit a Restart Request whenever link layer initialization has completed. However, DTEs developed in conformance with the 1980 and 1984 versions of Recommendation X.25 are not required to send a Restart Request at this time. To accommodate both DTE implementations, the Tester initiates the restart procedure upon completion of link layer initialization.

The Tester will accept either a Restart Confirmation or a Restart Request as a valid response to its Restart Indication, as shown below in example EG_001. Packet layer initialization always occurs once at the start of a test session. State initialization, on the other hand, is performed many times during a test session as part of each test case. Packet layer initialization will also occur as part of state initialization when the previously executed test case results in a Fail or Inconclusive verdict, or the previously executed test case is part of PLG 1, 2, 3, 26 or in test groups in which the Restart procedure is executed as part of state initialization (PLG 1, 2, 3 and 26).

The following are examples of initialization of ISO/IEC 8208 over ISO/IEC 7776 (LAPB). Any other examples of initialization sequences using other underlying protocols are not shown, but may be appropriate. For example, normal state initialization steps in state r1 (PLG 1) are as shown in Table 2.

For those DTEs which disconnect the link upon receipt of a Restart Indication (or transmittal of a Restart Request) the state initialization steps include link layer initialization as shown in Table 3.

Table 2. Test Case Dynamic Behavior					
Test Step Name : EG_001 Group : Example Test Step / Packet Layer Initialization Objective : An example test step illustrating Packet Layer Initialization Default : Comments :					
Nr	Label	Behavior Description	Constraints Ref	Verdict	Comments
1		! Restart_Indication START TD	STRT_DCE		1
2		? Restart_Confirmation CANCEL TD	STRTC		
3		? Restart_Request CANCEL TD	STRT_DTEA		
4		? TIMEOUT TD		FAIL	4
5		? OTHERWISE CANCEL TD		FAIL	
Detailed Comments: 1 The Restart Indication is sent upon successful initialization of the Data Link Layer 4 TD expired					

Table 3. Test Case Dynamic Behavior					
Test Step Name : EG_002 Group : Example Test Step / Packet Layer Initialization / Link Layer Initialization Objective : An example test step illustrating Packet Layer Initialization that includes Data Link Layer Initialization Default : Comments : a) L is the PCO at the Tester (Packet Layer) to Link Layer interface. : b) D is the PCO at the Link Layer to Physical interface. : c) This example uses the Multi-layer testing method, the Packet Layer Test Suite only uses the Remote Single-layer test method.					
Nr	Label	Behavior Description	Constraints Ref	Verdict	Comments
1		EG_002 [L,D]			
2		L! Restart_Indication START TD	STRT_DCE		
3		L? Restart_Confirmation START TD	STRTC		
4		D? Disconnect CANCEL TD	DISC_1		4
5		+ LINK_INIT			
6		L? TIMEOUT TD			6
7		L? Restart_Request START TD	STRT_DTEA		
8		D? Disconnect CANCEL TD	DISC_1		
9		+ LINK_INIT			
10		L? TIMEOUT TD		FAIL	
11		L? TIMEOUT TD		FAIL	
12		L? OTHERWISE CANCEL TD		FAIL	
13		LINK_INIT			
14		D! UA	UA_DCE		14
15		D? SABM	SABM_1		15
16		D! UA	UA_DCE		14
17		L! Restart_Indication START TD	STRT_DCE		
18		L? Restart_Confirmation CANCEL TD	STRTC		
19		L? Restart_Request CANCEL TD	STRT_DTEA		
20		L? TIMEOUT TD		FAIL	
21		L? OTHERWISE CANCEL TD		FAIL	
Detailed Comments: 4 Wait for DISC 6 TD expired 14 Send UA 15 Wait for SABM					

6.3 DTE-initiated actions

DTE-initiated actions specified by the test suite are handled using the Implicit Send mechanism defined in ISO/IEC 9646-3. The ability of the IUT to perform these actions, and its ability to execute the tests containing the actions, is determined by the information provided in the PIXIT and the PICS.

TS

the time required by the IUT to resume testing after completion of the Reset procedure. The duration is provided in PIXIT question 1.18c and contained in the test suite parameter TS_DELAY;

TD

the time that the Tester waits before determining that the IUT will not respond to a Tester stimulus. For example, how long the Tester should wait before assuming that the IUT has either discarded or failed to respond to the stimulus. TD must be less than all other timers specific to ISO/IEC 8208, i.e. T20 through T28. The duration is calculated by the formula contained in the PIXIT question 1.23 ($TD = 2 * TD_RESPONSE + MAX(TO_R3, TO_P3, TO_P7, TO_D3, TO_J2)$) and contained in the test suite parameter TD_WAIT_TIME;

6.4 Timer definitions

This part of ISO/IEC 8882 defines the following timers:

- TR** the time required by the IUT to resume testing after completion of the Restart procedure. The duration is provided in PIXIT question 1.18a and contained in the test suite parameter TR_DELAY;
- TC** the time required by the IUT to resume testing after completion of the Clear procedure. The duration is provided in PIXIT question 1.18b and contained in the test suite parameter TC_DELAY;

TD_RESP	the maximum time that the tester should wait for an immediate response from the IUT to a tester stimulus. The duration is provided in PIXIT question 1.20 and contained in TD_RESPONSE;
TDEL	is a tolerance used in testing timers T20 - T28 of the base standard. The duration is provided in PIXIT question 1.21 and contained in the test suite parameter TDELTA. The duration considers the round trip transit delay between the Tester and IUT, and the time necessary for an IUT to respond to a received packet or timer expiry;
TO_R3	is the minimum time that the IUT remains in state R3. The duration is provided in PIXIT question 1.22 and contained in TO_DELAY_R3_MIN;
TO_P3	is the minimum time that the IUT remains in state P3. The duration is provided in PIXIT question 1.22 and contained in TO_DELAY_P3_MIN;
TO_P7	is the minimum time that the IUT remains in state P7. The duration is provided in PIXIT question 1.22 and contained in TO_DELAY_P7_MIN;
TO_D3	is the minimum time that the IUT remains in state D3. The duration is provided in PIXIT question 1.22 and contained in TO_DELAY_D3_MIN;
TO_J2	is the minimum time that the IUT remains in state J2. The duration is provided in PIXIT question 1.22 and contained in TO_DELAY_J2_MIN.

6.5 Cause codes and diagnostic codes

ISO/IEC 8208 requires the cause code to be 0 or 128 and the diagnostic code to be present in the Restart, Clear or Reset packet. Use of cause code 0 designates the use of standard diagnostic codes as specified in ISO/IEC 8208, figure 14-B. Use of cause code 128 designates the use of DTE-specific diagnostic codes.

CCITT X.25 (1984) requires the cause code in the Restart, Clear, or Reset Request packets to be either 0 or a value in the range of 128 through 255. The diagnostic code field is not mandatory in the basic format of these request packets. However, when the extended format is used, the diagnostic code field shall be present.

CCITT X.25 (1980) requires the cause code field in the Restart, Clear, or Reset Request packet to be set to 0. The diagnostic code field is not mandatory in the request packets.

Any one of several diagnostic codes may be generated by the IUT, on a per test case basis, especially where multiple error conditions are present in the same packet. In such instances any one of the possible diagnostic codes shall be accepted.

The test cases allow for the use of multiple diagnostic codes by DTEs. In the case where the DTE implements specific diagnostic codes it is recommended that these codes be in accordance with Tables 31-36 in ISO/IEC 8208.

6.6 Data transfer states

A limited set of data transfer tests (PLG20 and PLG22) are included in this test suite to verify the IUT's ability to perform the following:

- send and/or receive valid data packets;
- manage window rotation;
- detect improper data packets, and react accordingly;
- observe the remote busy condition.

In order to facilitate the exchange of data packets during these tests, the IUT provider shall specify the contents of the data packet user data field (UDF) for the Tester. The UDF values are supplied by the IUT provider in the PIXIT.

The following items should be considered when completing the PIXIT:

- a) The UDF content in data packets received by the Tester will not be verified. Consequently, the information is not requested in the PIXIT.
Note: Receive-only IUTs are not expected to send data packets during data transfer tests.
- b) The start of data transfer (i.e. Tester or IUT transmits first) is based on the response in the PIXIT.
- c) Depending on the test being performed, the full list of UDFs specified in the PIXIT may not be sent. Exchange of data packets containing UDFs specified in the list may terminate at any point. Subsequent tests will start with the entry in the UDF list that is specified in the PIXIT (i.e. first entry or next entry).
- d) If UDF contents are specified in the PIXIT, they will be sent (in sequence) whenever a data packet must be sent, or in response to data packets received from the IUT.

Note: Q-bit, D-bit and M-bit settings in these data packets are based on information provided in the PIXIT. Receive Ready (RR) packets may also be sent by the Tester and the IUT.

- e) It is also assumed that the IUT can send consecutive data packets as required for window rota-

tion tests. The Tester will only send Receive Ready (RR) packets during these tests.

6.7 Other user data fields

When necessary, the content of user data fields in the Call setup, Clearing and Interrupt packets shall be provided to the Tester by the IUT provider in order to successfully execute the Packet Layer Test Suite. In this case, the IUT requires the Tester to transmit user data fields in accordance with higher layer protocols which are operating above the packet layer.

6.8 Transient states

It is recognized that for those DTEs that process packets sequentially, certain states are not observable. Specifically, the testing of the DTE during the DXE defined states (for example, r3 - RESTART INDICATION, p3 - INCOMING CALL, p7 - CLEAR INDICATION, and d3 - RESET INDICATION) may end up in the testing of some other states (p1 - Packet Layer Ready, p4 - Data Transfer, d1 - Flow Control Ready). For example, to test the response to an error (r3) state, the Tester would send a RESTART INDICATION, immediately followed by the error packet. The Tester is expecting the DTE to discard the error packet, then send a RESTART REQUEST in response. However, the DTE generally responds immediately to the RESTART INDICATION with a RESTART CONFIRMATION and processes the next packet from the packet layer state r1. This test suite contains tests for these transient states only if they are observable. They are observable and testable if the minimum duration of the state is at least twice TD_RESPONSE.

6.9 Relationship of PICS to test suite

The Protocol Implementation Conformance Statement (PICS) defines the capabilities and options which have been implemented by the IUT, and also any features not implemented. The PICS shall be provided by the IUT, and its function is to ensure that the IUT implementation will be tested for conformance against only relevant requirements. The PICS proforma is defined in ISO/IEC 8208/Amd. 3.

6.10 Relationship of PIXIT to test suite

The PIXIT consists of a list of questions developed to obtain the characteristics of the IUT which are necessary to successfully execute the conformance test suite.

6.11 Test case selection

Test case selection is performed using Boolean equations consisting of PICS and PIXIT parameters. Selection is performed at the test group level first, then at the test case level.

6.12 PIXIT proforma

Information supplied by the IUT provider in Table 4 will be used to configure the Tester to execute the conformance test suite. Questions pertaining to function(s) not supported by the IUT should be ignored, since tests requiring the information will be eliminated from the conformance test suite by the PICS. It may be necessary to complete more than one PIXIT in order to represent the various configuration options of a specific IUT.

An uppercase mnemonic enclosed in parenthesis i.e. (IUT_TX) indicates the Test Suite Parameter that maps to this PIXIT question. Values supplied in the PIXIT will be directly mapped into the Test Suite via their associated Test Suite Parameter, therefore all supplied values must be in valid TTCN notation. A field that may contain any valid value based on the protocol specification is indicated by use of a ? in the PIXIT answer. A field which may or may not be present is indicated by an * and a field which is never present is indicated by a -. Refer to the Test Suite Parameter table for the declared type (INTEGER, BITSTRING, HEXSTRING) of each test suite parameter.

Table 4 (Page 1 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma			
Item	IUT Type	Values	Comments
1.1	Indicate the protocol to be tested, by answering the all of the following:		
1.1a	ISO 8208 (ISO)	☐ Yes ☐ No	
1.1b	CCITT X.25 1984 (CCITT_84)	☐ Yes ☐ No	
1.1c	CCITT X.25 1980 (CCITT_80)	☐ Yes ☐ No	
1.2	State whether the IUT is capable of sending data and/or receiving data.		
1.2a	sending (IUT_TX)	☐ Yes ☐ No	
1.2b	receiving (IUT_RX)	☐ Yes ☐ No	
Item	Logical Channel Configuration	Values	Comments
1.3	Range of PVC Logical Channel Identifier(s) (must be less than or equal to PICS item LC7)		
1.3a	Lowest PVC (LPV)	Value:	
1.3b	Highest PVC (HPV)	Value:	
1.4	Range of SVC Logical Channel Identifier(s) (must be within the ranges specified in the PICS items LC1 through LC6)		
1.4a.a	Lowest One-way incoming (LIC)	Value:	Note 1
1.4a.b	Highest One-way incoming (HIC)	Value:	Note 1
1.4b.a	Lowest One-way outgoing (LOC)	Value:	Note 1
1.4b.b	Highest One-way outgoing (HOC)	Value:	Note 1
1.4c.a	Lowest Two-way (LTC)	Value:	Note 1
1.4c.b	Highest Two-way (HTC)	Value:	Note 1
1.5	Indicate a logical channel to be used by the Tester for Incoming Calls (to the IUT) or PVCs. (LCI_UNDER_TEST)	Value:	Note 9
1.6	Indicate a logical channel to be used for logical channel unassigned testing. (LUC)	Value:	
1.7	How many Incoming virtual calls can be supported at the same time using the information in PIXIT question 1.4 and PIXIT question 2.2a? (SIM_CALL_IN)	Value:	
1.8	How many Outgoing virtual calls can be supported at the same time using the information in PIXIT question 1.4 and PIXIT question 2.3a? (SIM_CALL_OUT)	Value:	
Item	Flow Control Information	Values	Comments
1.9	Window sizes		
1.9a	Indicate the default window size to be used during test execution. This value is used for both transmit and receive windows (must be in range of PICS items V2s and V2r). (DEF_WIN_SZ)	Value:	
1.9b.a	Indicate a transmit nonstandard default window size to be used during test execution. (NS_DEF_WIN_SZ_TX)	Value:	
1.9b.b	Indicate a receive nonstandard default window size to be used during test execution. (NS_DEF_WIN_SZ_RX)	Value:	
1.9c	Provide the integer value of the nonstandard default window size given in 1.9b above. (NS_DEF_WIN_SZ_NUM)	Value:	
1.10	Packet sizes		
1.10a	Indicate a transmit nonstandard default packet size to be used during test execution. (NS_DEF_PKT_SZ_TX)	Value:	
1.10b	Indicate a receive nonstandard default packet size to be used during test execution. (NS_DEF_PKT_SZ_RX)	Value:	
1.11	Indicate maximum flow control packet size. (MAX_PKT_SZ)	Value:	
1.12	Indicate the modulo to be used for testing. (SEQ_MODULO)	☐ 8 ☐ 128	

Table 4 (Page 2 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma			
Item	IUT Behavior Information	Values	Comments
1.13	Does the IUT re-initialize at the Data Link Layer upon execution of an unexpected Restart procedure? (DISC_AT_DL)	☐ Yes ☐ No	
1.14	Does the IUT require a one for one exchange of Data packets when transmitting a window or more of data? (REPLY_REQUIRED)	☐ Yes ☐ No	
1.15	Will the IUT send the first data packet? (FIRST_DATA_FROM_IUT)	☐ Yes ☐ No	
1.16	Will the IUT send more data packets than its send window size? (MORE_DATA)	☐ Yes ☐ No	
1.17	Will the IUT send at least three data packets more than its modulo size? (THREE_MORE)	☐ Yes ☐ No	
Item	Timer Information	Values	Comments
1.18	State the time required by the IUT to resume testing after completion of the following procedures (in milli-seconds):		
1.18a	Restart (TR_DELAY)	Value:	Note 3
1.18b	Clear (TC_DELAY)	Value:	Note 3
1.18c	Reset (TS_DELAY)	Value:	Note 3
1.19	Enter the values used by the IUT for the following timers:		
1.19a	(T20)	Value:	Note 3
1.19b	(T21)	Value:	Note 3
1.19c	(T22)	Value:	Note 3
1.19d	(T23)	Value:	Note 3
1.19e	(T24)	Value:	Note 3
1.19f	(T25)	Value:	Note 3
1.19g	(T26)	Value:	Note 3
1.19h	(T27)	Value:	Note 3
1.19i	(T28)	Value:	Note 3
1.20	State the maximum time the tester should wait for an immediate response for the IUT to a tester stimulus, see clause 6.4. (TD_RESPONSE)	Value:	Note 3
1.21	State the delta value to be added to timers used by the Tester, see clause 6.4. (TDELTA)	Value:	Note 3
1.22	For R3, P3, D3, P7, J2 give the minimum and time that the IUT remains in these states.		
1.22a	R3 (TO_DELAY_R3_MIN)	Value:	Note 3,7
1.22b	R3 (TO_DELAY_R3_MAX)	Value:	Note 3,7
1.22c	P3 (TO_DELAY_P3_MIN)	Value:	Note 3,7
1.22d	P3 (TO_DELAY_P3_MAX)	Value:	Note 3,7
1.22e	D3 (TO_DELAY_D3_MIN)	Value:	Note 3,7
1.22f	D3 (TO_DELAY_D3_MAX)	Value:	Note 3,7
1.22g	P7 (TO_DELAY_P7_MIN)	Value:	Note 3,7
1.22h	P7 (TO_DELAY_P7_MAX)	Value:	Note 3,7
1.22i	J2 (TO_DELAY_J2_MIN)	Value:	Note 3,7
1.22j	J2 (TO_DELAY_J2_MAX)	Value:	Note 3,7
1.23	The time that the tester will use in most cases when waiting for a response from the IUT should be a function of the following formula: $TD_WAIT_TIME = 2 * TD_RESPONSE + \text{the maximum value of } (TO_DELAY_R3_MAX, TO_DELAY_P3_MAX, TO_DELAY_D3_MAX, TO_DELAY_P7_MAX, TO_DELAY_J2_MAX)$	Value:	Note 3

Table 4 (Page 3 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma

Item	Call Setup Information	Values	Comments
2.1a	Is the Calling DTE address in an Incoming Call packet verified? (CALLING_VER)	☐ Yes ☐ No	
2.1b	If 2.1a yes, indicate an unacceptable address and address length which can be sent by the Tester.		
2.1b.a	(TST_ADDR_INV)	Value:	
2.1b.b	(TST_ADDR_INVL)	Value:	
2.1c	Is the Called DTE address in an Incoming Call packet verified? (CALLED_VER)	☐ Yes ☐ No	
2.1d	If 2.1c is yes, indicate an unacceptable address and address length which can be sent by the Tester.		
2.1d.a	(IUT_ADDR_INV)	Value:	
2.1d.b	(IUT_ADDR_INVL)	Value:	
2.2	For each of the following packets indicate the value of the field and its length expected by the IUT.		
2.2a	Incoming Call		
2.2a.a	Calling Address (TST_ADDR1)	Value:	
2.2a.b	Called Address (IUT_ADDR1)	Value:	
2.2a.c	Calling Address length (TST_ADDR1_L)	Value:	
2.2a.d	Called Address length (IUT_ADDR1_L)	Value:	
2.2b	Call Connected		
2.2b.a	Calling Address (TST_ADDR2)	Value:	Note 4
2.2b.b	Called Address (IUT_ADDR2)	Value:	Note 4
2.2b.c	Calling Address length (TST_ADDR2_L)	Value:	
2.2b.d	Called Address length (IUT_ADDR2_L)	Value:	
2.3	For each of the following packets indicate the value of the field transmitted by the IUT.		
2.3a	Call Request		
2.3a.a	Calling Address (IUT_ADDR5)	Value:	
2.3a.b	Called Address (TST_ADDR5)	Value:	
2.3a.c	Calling Address length (IUT_ADDR5_L)	Value:	
2.3a.d	Called Address length (TST_ADDR5_L)	Value:	
2.3b	Call Accepted		
2.3b.a	Calling Address (IUT_ADDR6)	Value:	Note 4
2.3b.b	Called Address (TST_ADDR6)	Value:	Note 4
2.3b.c	Calling Address length (IUT_ADDR6_L)	Value:	
2.3b.d	Called Address length (TST_ADDR6_L)	Value:	
2.4	Specify a maximum length address supported by the IUT.		
2.4a	(IUT_ADDR_MAX)	Value:	
2.4b	(IUT_ADDR_MAXL)	Value:	
2.5	Indicate the address and facilities and lengths to be used in the CCITT-Specified DTE facility for called and calling address extension.		
2.5a	The address and length for the Address Field contained in the Incoming Call packet only:		
2.5a.a	Calling Address (TST_AF)	Value:	
2.5a.b	Called Address (IUT_AF)	Value:	
2.5a.c	Calling Address length (TST_AF_L)	Value:	

Table 4 (Page 4 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma			
2.5a.d	Called Address length (IUT_AF_L)	Value:	
2.5b	The facility length and contents of the Address Extension Facility Parameter, including the use of address extension octet contained in the Incoming Call packet only; Note: The F_NONX25 string of facilities includes; facility marker '000F'H, facility code 'CB'H, calling address length, calling address, facility code 'C9'H, called address length, and called address.		
2.5b.a	(F_NONX25)	Value:	
2.5b.b	(F_NONX25_L)	Value:	
2.5c	The facility length and contents of the Address Extension Facility Parameter, including the use of address extension octet, contained in the Call Accept packet used in response to the Incoming Call packet; Note: The F_AE string of facilities includes; facility marker '000F'H, facility code 'C9'H, called address length, and called address.		
2.5c.a	(F_AE)	Value:	
2.5c.b	(F_AE_L)	Value:	
Item	Facilities Information	Values	Comments
2.6a	Is the fast select facility always used? (FAST_SELECT) Note: If yes, the fast select facility must be included in the answers to question 2.7.	☐ Yes ☐ No	
2.6b	Does the IUT require more than one facility to be present in an Incoming Call packet?	☐ Yes ☐ No	Note 8
2.6c	Does the IUT transmit more than one facility in a Call Request packet?	☐ Yes ☐ No	Note 8
2.6d	Provide a string of 110 octets of facility information to be sent to the IUT. (FACS_110)	Value:	Note 10
2.7	Provide the facilities, facility length and user data to be used in each of the following packets.		
2.7a	Incoming Call packet received by the IUT		
2.7a.a	(CALL_IND_F)	Value:	Note 10
2.7a.b	(CALL_IND_FL)	Value:	
2.7a.c	(CALL_IND_UD)	Value:	
2.7b	Call Request packet transmitted by the IUT		
2.7b.a	(CALL_REQ_F)	Value:	Note 10
2.7b.b	(CALL_REQ_FL)	Value:	
2.7b.c	(CALL_REQ_UD)	Value:	
2.7c	Call Connected packet received by the IUT		
2.7c.a	(CALL_CON_F)	Value:	Note 10
2.7c.b	(CALL_CON_FL)	Value:	
2.7c.c	(CALL_CON_UD)	Value:	
2.7d	Call Accept packet transmitted by the IUT		
2.7d.a	(CALL_ACC_F)	Value:	Note 10
2.7d.b	(CALL_ACC_FL)	Value:	
2.7d.c	(CALL_ACC_UD)	Value:	
2.7e	Clear Indication packet received by the IUT		
2.7e.a	(CLR_IND_F)	Value:	Note 10
2.7e.b	(CLR_IND_FL)	Value:	
2.7e.c	(CLR_IND_UD)	Value:	
2.7f	Clear Request packet transmitted by the IUT		

Table 4 (Page 5 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma

2.7f.a	(CLR_REQ_F)	Value:	Note 10
2.7f.b	(CLR_REQ_FL)	Value:	
2.7f.c	(CLR_REQ_UD)	Value:	
2.7g	Clear Confirmation packet received by the IUT		
2.7g.a	(CLC_RX_F)	Value:	Note 10
2.7g.b	(CLC_RX_FL)	Value:	
2.7h	Clear Confirmation packet transmitted by the IUT		
2.7h.a	(CLC_TX_F)	Value:	Note 10
2.7h.b	(CLC_TX_FL)	Value:	
2.8a	Provide a number to be used for Basic CUG? (BCUG_NUM)	Value:	
2.8b	Provide a number to be used for extended CUG? (ECUG_NUM)	Value:	
2.8c	Provide a number to be used for bilateral CUG? (BICUG_NUM)	Value:	
2.9	Indicate the default throughput class.		
2.9a	(DEF_THRUPT_CALLED)	Value:	
2.9b	(DEF_THRUPT_CALLING)	Value:	
2.10	Indicate a throughput class that is different from the default throughput class.		
2.10a	(THRUPT_CALLING)	Value:	
2.10b	(THRUPT_CALLED)	Value:	
2.11	Indicate the Transit Delay value to be used.		
2.11a	First octet (TRNS_DELAY_1)	Value:	
2.11b	Second octet (TRNS_DELAY_2)	Value:	
2.12	Provide the Network User Identification facility length and facilities.		
2.12a	(F_NUI)	Value:	
2.12b	(F_NUI_L)	Value:	
Item	Data Packet Information	Values	Comments
2.13	Specify the Q, D-bit, and M-Bit settings and data contents of the first nine data packets which the IUT will receive (default settings for Q, D and M-bits are 0, a ? in the entry indicates that any user data is acceptable). If possible at least one data packet should contain the full size of data.		
2.13a	First Data Packet		
2.13a.a	Q = (Q_UD_0)	Value:	
2.13a.b	D = (D_UD_0)	Value:	
2.13a.c	M = (M_UD_0)	Value:	
2.13a.d	User data field (UD_0)	Value:	
2.13b	Second Data Packet		
2.13b.a	Q = (Q_UD_1)	Value:	
2.13b.b	D = (D_UD_1)	Value:	
2.13b.c	M = (M_UD_1)	Value:	
2.13b.d	User data field (UD_1)	Value:	
2.13c	Third Data Packet		
2.13c.a	Q = (Q_UD_2)	Value:	
2.13c.b	D = (D_UD_2)	Value:	
2.13c.c	M = (M_UD_2)	Value:	

Table 4 (Page 6 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma

2.13c.d	User data field (UD_2)	Value:	
2.13d	Fourth Data Packet		
2.13d.a	Q = (Q_UD_3)	Value:	
2.13d.b	D = (D_UD_3)	Value:	
2.13d.c	M = (M_UD_3)	Value:	
2.13d.d	User data field (UD_3)	Value:	
2.13e	Fifth Data Packet		
2.13e.a	Q = (Q_UD_4)	Value:	
2.13e.b	D = (D_UD_4)	Value:	
2.13e.c	M = (M_UD_4)	Value:	
2.13e.d	User data field (UD_4)	Value:	
2.13f	Sixth Data Packet		
2.13f.a	Q = (Q_UD_5)	Value:	
2.13f.b	D = (D_UD_5)	Value:	
2.13f.c	M = (M_UD_5)	Value:	
2.13f.d	User data field (UD_5)	Value:	
2.13g	Seventh Data Packet		
2.13g.a	Q = (Q_UD_6)	Value:	
2.13g.b	D = (D_UD_6)	Value:	
2.13g.c	M = (M_UD_6)	Value:	
2.13g.d	User data field (UD_6)	Value:	
2.13h	Eighth Data Packet		
2.13h.a	Q = (Q_UD_7)	Value:	
2.13h.b	D = (D_UD_7)	Value:	
2.13h.c	M = (M_UD_7)	Value:	
2.13h.d	User data field (UD_7)	Value:	
2.13i	Ninth Data Packet		
2.13i.a	Q = (Q_UD_8)	Value:	
2.13i.b	D = (D_UD_8)	Value:	
2.13i.c	M = (M_UD_8)	Value:	
2.13i.d	User data field (UD_8)	Value:	
2.13j	Ninth Data Packet		
2.13j.a	Q = (Q_UD_U)	Value:	
2.13j.b	D = (D_UD_U)	Value:	
2.13j.c	M = (M_UD_U)	Value:	
2.13j.d	User data field (UD_U)	Value:	
2.13k	Specify user data field UD_U_UD1 (UD_U plus UD1)	Value:	
2.14	Specify a sequence of Data packets not greater than nine that contains a change of Q-bit value, where the change generates an error when received by the IUT, and data content that can be received by the IUT (default settings for D and M-bits is 0, a ? in the entry indicates that any user data is acceptable).		
2.14a	First Data Packet		
2.14a.a	Q = (Q_UDQ_0)	Value:	
2.14a.b	D = (D_UDQ_0)	Value:	

Table 4 (Page 7 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma			
2.14a.c	M = (M_UDQ_0)	Value:	
2.14a.d	User data field (UDQ_0)	Value:	
2.14b	Second Data Packet		
2.14b.a	Q = (Q_UDQ_1)	Value:	
2.14b.b	D = (D_UDQ_1)	Value:	
2.14b.c	M = (M_UDQ_1)	Value:	
2.14b.d	User data field (UDQ_1)	Value:	
2.14c	Third Data Packet		
2.14c.a	Q = (Q_UDQ_2)	Value:	
2.14c.b	D = (D_UDQ_2)	Value:	
2.14c.c	M = (M_UDQ_2)	Value:	
2.14c.d	User data field (UDQ_2)	Value:	
2.14d	Fourth Data Packet		
2.14d.a	Q = (Q_UDQ_3)	Value:	
2.14d.b	D = (D_UDQ_3)	Value:	
2.14d.c	M = (M_UDQ_3)	Value:	
2.14d.d	User data field (UDQ_3)	Value:	
2.14e	Fifth Data Packet		
2.14e.a	Q = (Q_UDQ_4)	Value:	
2.14e.b	D = (D_UDQ_4)	Value:	
2.14e.c	M = (M_UDQ_4)	Value:	
2.14e.d	User data field (UDQ_4)	Value:	
2.14f	Sixth Data Packet		
2.14f.a	Q = (Q_UDQ_5)	Value:	
2.14f.b	D = (D_UDQ_5)	Value:	
2.14f.c	M = (M_UDQ_5)	Value:	
2.14f.d	User data field (UDQ_5)	Value:	
2.14g	Seventh Data Packet		
2.14g.a	Q = (Q_UDQ_6)	Value:	
2.14g.b	D = (D_UDQ_6)	Value:	
2.14g.c	M = (M_UDQ_6)	Value:	
2.14g.d	User data field (UDQ_6)	Value:	
2.14h	Eighth Data Packet		
2.14h.a	Q = (Q_UDQ_7)	Value:	
2.14h.b	D = (D_UDQ_7)	Value:	
2.14h.c	M = (M_UDQ_7)	Value:	
2.14h.d	User data field (UDQ_7)	Value:	
2.14i	Ninth Data Packet		
2.14i.a	Q = (Q_UDQ_8)	Value:	
2.14i.b	D = (D_UDQ_8)	Value:	
2.14i.c	M = (M_UDQ_8)	Value:	
2.14i.d	User data field (UDQ_8)	Value:	

Table 4 (Page 8 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma

2.15	Specify a sequence of Data packets no greater than nine that contains a change of Q - bit value, where the change is acceptable to the IUT, and data content that can be received by the IUT (default settings for D and M-bits is 0, a ? in the entry indicates that any user data is acceptable).		
2.15a	First Data Packet		
2.15a.a	Q = (Q_UDQA_0)	Value:	
2.15a.b	D = (D_UDQA_0)	Value:	
2.15a.c	M = (M_UDQA_0)	Value:	
2.15a.d	User data field (UDQA_0)	Value:	
2.15b	Second Data Packet		
2.15b.a	Q = (Q_UDQA_1)	Value:	
2.15b.b	D = (D_UDQA_1)	Value:	
2.15b.c	M = (M_UDQA_1)	Value:	
2.15b.d	User data field (UDQA_1)	Value:	
2.15c	Third Data Packet		
2.15c.a	Q = (Q_UDQA_2)	Value:	
2.15c.b	D = (D_UDQA_2)	Value:	
2.15c.c	M = (M_UDQA_2)	Value:	
2.15c.d	User data field (UDQA_2)	Value:	
2.15d	Fourth Data Packet		
2.15d.a	Q = (Q_UDQA_3)	Value:	
2.15d.b	D = (D_UDQA_3)	Value:	
2.15d.c	M = (M_UDQA_3)	Value:	
2.15d.d	User data field (UDQA_3)	Value:	
2.15e	Fifth Data Packet		
2.15e.a	Q = (Q_UDQA_4)	Value:	
2.15e.b	D = (D_UDQA_4)	Value:	
2.15e.c	M = (M_UDQA_4)	Value:	
2.15e.d	User data field (UDQA_4)	Value:	
2.15f	Sixth Data Packet		
2.15f.a	Q = (Q_UDQA_5)	Value:	
2.15f.b	D = (D_UDQA_5)	Value:	
2.15f.c	M = (M_UDQA_5)	Value:	
2.15f.d	User data field (UDQA_5)	Value:	
2.15g	Seventh Data Packet		
2.15g.a	Q = (Q_UDQA_6)	Value:	
2.15g.b	D = (D_UDQA_6)	Value:	
2.15g.c	M = (M_UDQA_6)	Value:	
2.15g.d	User data field (UDQA_6)	Value:	
2.15h	Eighth Data Packet		
2.15h.a	Q = (Q_UDQA_7)	Value:	
2.15h.b	D = (D_UDQA_7)	Value:	
2.15h.c	M = (M_UDQA_7)	Value:	
2.15h.d	User data field (UDQA_7)	Value:	
2.15i	Ninth Data Packet		

Table 4 (Page 9 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma

2.15i.a	Q = (Q_UDQA_8)	Value:	
2.15i.b	D = (D_UDQA_8)	Value:	
2.15i.c	M = (M_UDQA_8)	Value:	
2.15i.d	User data field (UDQA_8)	Value:	
2.16	Specify a sequence of Data packets no greater than nine after which a packet with an empty data field may be processed by the IUT (default settings for Q, D and M- bits are 0, a ? in the entry indicates that any user data is acceptable.		
2.16a	First Data Packet		
2.16a.a	Q = (Q_UDE_0)	Value:	
2.16a.b	D = (D_UDE_0)	Value:	
2.16a.c	M = (M_UDE_0)	Value:	
2.16a.d	User data field (UDE_0)	Value:	
2.16b	Second Data Packet		
2.16b.a	Q = (Q_UDE_1)	Value:	
2.16b.b	D = (D_UDE_1)	Value:	
2.16b.c	M = (M_UDE_1)	Value:	
2.16b.d	User data field (UDE_1)	Value:	
2.16c	Third Data Packet		
2.16c.a	Q = (Q_UDE_2)	Value:	
2.16c.b	D = (D_UDE_2)	Value:	
2.16c.c	M = (M_UDE_2)	Value:	
2.16c.d	User data field (UDE_2)	Value:	
2.16d	Fourth Data Packet		
2.16d.a	Q = (Q_UDE_3)	Value:	
2.16d.b	D = (D_UDE_3)	Value:	
2.16d.c	M = (M_UDE_3)	Value:	
2.16d.d	User data field (UDE_3)	Value:	
2.16e	Fifth Data Packet		
2.16e.a	Q = (Q_UDE_4)	Value:	
2.16e.b	D = (D_UDE_4)	Value:	
2.16e.c	M = (M_UDE_4)	Value:	
2.16e.d	User data field (UDE_4)	Value:	
2.16f	Sixth Data Packet		
2.16f.a	Q = (Q_UDE_5)	Value:	
2.16f.b	D = (D_UDE_5)	Value:	
2.16f.c	M = (M_UDE_5)	Value:	
2.16f.d	User data field (UDE_5)	Value:	
2.16g	Seventh Data Packet		
2.16g.a	Q = (Q_UDE_6)	Value:	
2.16g.b	D = (D_UDE_6)	Value:	
2.16g.c	M = (M_UDE_6)	Value:	
2.16g.d	User data field (UDE_6)	Value:	
2.16h	Eighth Data Packet		
2.16h.a	Q = (Q_UDE_7)	Value:	

Table 4 (Page 10 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma

2.16h.b	D = (D_UDE_7)	Value:	
2.16h.c	M = (M_UDE_7)	Value:	
2.16h.d	User data field (UDE_7)	Value:	
2.16i	Ninth Data Packet		
2.16i.a	Q = (Q_UDE_8)	Value:	
2.16i.b	D = (D_UDE_8)	Value:	
2.16i.c	M = (M_UDE_8)	Value:	
2.16i.d	User data field (UDE_8)	Value:	
2.17	Specify a sequence of Data packets no greater than nine that contains a change of M-bit value and data content that can be received by the IUT (default setting for D and Q-bits are 0, a ? in the entry indicates that any user data is acceptable).		
2.17a	First Data Packet		
2.17a.a	Q = (Q_UDM_0)	Value:	
2.17a.b	D = (D_UDM_0)	Value:	
2.17a.c	M = (M_UDM_0)	Value:	
2.17a.d	User data field (UDM_0)	Value:	
2.17b	Second Data Packet		
2.17b.a	Q = (Q_UDM_1)	Value:	
2.17b.b	D = (D_UDM_1)	Value:	
2.17b.c	M = (M_UDM_1)	Value:	
2.17b.d	User data field (UDM_1)	Value:	
2.17c	Third Data Packet		
2.17c.a	Q = (Q_UDM_2)	Value:	
2.17c.b	D = (D_UDM_2)	Value:	
2.17c.c	M = (M_UDM_2)	Value:	
2.17c.d	User data field (UDM_2)	Value:	
2.17d	Fourth Data Packet		
2.17d.a	Q = (Q_UDM_3)	Value:	
2.17d.b	D = (D_UDM_3)	Value:	
2.17d.c	M = (M_UDM_3)	Value:	
2.17d.d	User data field (UDM_3)	Value:	
2.17e	Fifth Data Packet		
2.17e.a	Q = (Q_UDM_4)	Value:	
2.17e.b	D = (D_UDM_4)	Value:	
2.17e.c	M = (M_UDM_4)	Value:	
2.17e.d	User data field (UDM_4)	Value:	
2.17f	Sixth Data Packet		
2.17f.a	Q = (Q_UDM_5)	Value:	
2.17f.b	D = (D_UDM_5)	Value:	
2.17f.c	M = (M_UDM_5)	Value:	
2.17f.d	User data field (UDM_5)	Value:	
2.17g	Seventh Data Packet		
2.17g.a	Q = (Q_UDM_6)	Value:	
2.17g.b	D = (D_UDM_6)	Value:	

Table 4 (Page 11 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma			
2.17g.c	M = (M_UDM_6)	Value:	
2.17g.d	User data field (UDM_6)	Value:	
2.17h	Eighth Data Packet		
2.17h.a	Q = (Q_UDM_7)	Value:	
2.17h.b	D = (D_UDM_7)	Value:	
2.17h.c	M = (M_UDM_7)	Value:	
2.17h.d	User data field (UDM_7)	Value:	
2.17i	Ninth Data Packet		
2.17i.a	Q = (Q_UDM_8)	Value:	
2.17i.b	D = (D_UDM_8)	Value:	
2.17i.c	M = (M_UDM_8)	Value:	
2.17i.d	User data field (UDE_8)	Value:	
2.18	Specify a partially full data packet with M - bit set which would otherwise (M-bit = 0) be acceptable to the IUT.		
2.18a	Q = (Q_UDMP)	Value:	
2.18b	D = (D_UDMP)	Value:	
2.18c	M = (M_UDMP)	Value:	
2.18d	User data field (UDMP)	Value:	
2.19	Specify the user data to be carried where the Tester is required to send a specific number of data octets in order to test the IUT (a '?' in the entry indicates that any user data is acceptable).		
2.19a	1 octet (UD1)	Value:	
2.19b	3 octets (UD3)	Value:	
2.19c	16 octets (UD16)	Value:	
2.19d	17 octets (UD17)	Value:	
2.19e	32 octets (UD32)	Value:	
2.19f	110 octets (UD110)	Value:	
2.19g	128 octets (UD129)	Value:	
2.19h	129 octets (UD129)	Value:	
2.19i	UDNS (UDNS)	Value:	Note 6
Item	Miscellaneous Information	Values	Comments
2.20	Provide Interrupt User Data (one octet for X.25 1980 and up to 32 octets for X.25 1984 and ISO 8208) to be carried in Interrupt packets:		
2.20a	IUT transmits (Tester receives) (UD_I_IUT)	Value:	
2.20b	IUT receives (Tester transmits) (UD_I_TST)	Value:	
2.21	Registration Request/Confirmation Packets		Note 8
2.22	Implicit Sends		
	Indicate whether the IUT can or cannot support on demand the following Implicit Sends used in this Test Suite.		
2.22a	<IUT! CALL> Call Request	☐ Yes ☐ No	
2.22b	<IUT! DATA> Data	☐ Yes ☐ No	
2.22c	<IUT! INT> Interrupt	☐ Yes ☐ No	
2.22d	<IUT! RESTARTC> Restart Confirm	☐ Yes ☐ No	
2.22e	<IUT! RESTART> Restart	☐ Yes ☐ No	
2.22f	<IUT! REG> Registration	☐ Yes ☐ No	

Table 4 (Page 12 of 12). Protocol Implementation eXtra Information for Testing (PIXIT) Proforma

2.22g	Where operator action is required for Implicit Send events, specify the maximum time required for the operator to complete the requested action. (IMP_TO)	Value:	
Item	Data Link Primitives	Values	Comments
2.23	Does the IUT support abstract service primitives as defined in ISO/IEC 8886? (ASP_SUPP) If 2.23 is yes, enter values for the following:	☐ Yes ☐ No	
2.23a	(DL_CALLED_ADDR_BT)	Value:	
2.23b	(DL_CALLED_ADDR_DEF)	Value:	
2.23c	(DL_CALLING_ADDG_BT)	Value:	
2.23d	(DL_CALLING_ADDG_DEF)	Value:	
2.23e	(DL_DLCNR_PS_BT)	Value:	
2.23f	(DL_DLCNR_PS_DEF)	Value:	
2.23g	(DL_DLCNC_PS_BT)	Value:	
2.23h	(DL_DLCNC_PS_DEF)	Value:	
2.23i	(DL_ORIGIN_BT)	Value:	
2.23j	(DL_ORIGIN_DEF)	Value:	
2.23k	(DL_QOS_BT)	Value:	
2.23l	(DL_QOS_DEF)	Value:	
2.23m	(DL_REASON_BT)	Value:	
2.23n	(DL_REASON_DEF)	Value:	
2.23o	(DL_RESP_ADDR_BT)	Value:	
2.23p	(DL_RESP_ADDR_DEF)	Value:	
Notes: - Specify a logical channel combination which will permit both Incoming Call and Call Request functions to be tested (preferably one two-way VC), if applicable. - Value should be indicated in hexadecimal. - All times are to be given in seconds, except where noted. - The IUT will indicate here whether it accepts that the contents of this field could be different from what was expected, as a consequence of the use of the CLAMN facility. - UD_U is a universally repeatable data packet and will be used in test cases where more than nine data packets are required to be transmitted by the Tester (see test case PL22_105 as an example). - A packet containing the number of octets equal to that of the Nonstandard Default packet size, see PIXIT 1.10. - When TO_DELAY_xx_MIN is not greater than or equal to twice the value of TD_RESPONSE (PIXIT 1.20) the applicable transient state is not testable. - All tests for facilities contained in PLG 25 and PLG 26 test for each facility independently where other facilities are not present. If a combination of facilities is required by the IUT the facility test cases for those facilities will be de-selected from PLG 25 and PLG 26. - If a value is not provided a logical channel will be assigned by selecting the lowest channel in the first available logical channel group chosen in the following order: Incoming, Two-way, PVC. - The facility information provided must be syntactically correct and acceptable to the IUT.			

6.13 Acceptable unexpected responses

In some test cases, particularly in the data transfer state (p4/d1), unexpected packets may be received from the IUT which do not affect the outcome of the test case. Such unexpected packets shall be accepted by the test system without consequence to the IUT.

Table 5 identifies those packets which the test system shall accept depending on the state of the interfaces as perceived by the IUT. Note that RESTART REQUEST, CLEAR REQUEST, and RESET REQUEST, which may be sent at any time by the IUT are not considered to be allowable unexpected responses during data transfer tests. Also note that when the IUT is in state P1, where a Call Request may be sent at anytime, an unsolicited Call Request is not considered to be an acceptable unexpected response. This

is because it is highly unlikely, for reasons of timing, that the unsolicited Call Request would arrive at a time when the tester would consider it as a correct response to a previously issued implicit send request (IUTICALL), see ISO/IEC 9646-5. Similarly, a REJECT packet requesting packet retransmission is not accepted as an allowable unexpected response.

The logical channel under test is derived from the PIXIT. All packets received on logical channels other

than the one being tested shall be discarded by the tester, regardless of their syntactic validity. This does not apply to packets received on logical channel 0.

In a DTE/DTE environment where the IUT is acting as a DCE, diagnostic packets received by the Tester on logical channel 0 indicating timer timeouts shall be ignored.

Table 5. Acceptable unexpected responses								
Packet received from the IUT (on LCN under test)	State of the interface as perceived by the IUT							
	d1	i1	i2	j1	j2	f1	f2	g1
DATA	x	x	x	x	x	x		x
INTERRUPT	x	x		x	x	x	x	x
RECEIVE READY	x	x	x	x	x	x	x	x
RECEIVE NOT READY	x	x	x	x	x	x	x	x

6.14 Implicit send

The use of the Implicit Send mechanism may be realized through either manual operator intervention or automated procedures. PIXIT question 2.22 lists the Implicit Sends used in this test suite.

6.15 Basic interconnection tests

A set of Basic Interconnection Tests (BITs) may be used to determine the interoperability between the Test Laboratory and the Implementation Under Test prior to running the full test suite, reference ISO/IEC 9646-1, 6.1.2. When these BITs are used they shall be selected from the following list shown in Table 6. This selection is based on answers given in the PICS and PIXIT proformas and the corresponding test selection Boolean equations.

Table 6. Basic interconnection tests	
Test case identifier	Test purposes
P1_101	Verify the IUT accepts a Restart Indication in R1
P2_101	Verify the R2 to R1 transition via Restart Indication
P2_102	Verify the R2 to R1 transition via Restart Confirmation
P4_101	Verify the IUT accepts a valid Incoming Call received in state P1
P5_103	Verify the IUT accepts a Call Connected packet while in P2
P9_106	Verify the IUT accepts a valid Clear Confirmation received in state P6
P11_101	Verify the IUT accepts a Reset Indication received in state D1
P11_102	Verify the IUT can accept Data in state D1
P12_102	Verify the IUT is in state D1 after receiving a Reset Confirmation while in state D2

7 TTCN abstract test suite

7.1 Test suite overview

Table 7 (Page 1 of 2). Test Suite Structure			
Suite Name : ISO/IEC 8882-3 Standards Ref : ISO/IEC 8208 : 1990 PICS Ref : ISO/IEC 8208 : 1990 / Amendment 3 PIXIT Ref : ISO/IEC 8882-3 Test Method(s) : Remote Single Layer Comments :			
Test Group Reference	Selection Ref	Test Group Objective	Page Nr
R1/	NODISC	Verification of Packet Layer Ready state R1.	
R1/R1_Proper/		Proper packets	166
R1/R1_Improper/		Improper packets	167
R1/R1_Inopportune/	NODISC	Inopportune packets	180
R2/		Verification of DTE Restart Request state R2.	
R2/R2_Proper/		Proper packets	181
R2/R2_Improper/	STATE_R3	Improper packets	182
R2/R2_Inopportune/		Inopportune packets	195
R3/		Verification of DXE Restart Indication state R3.	
R3/R3_Proper/	STATE_R3	Proper packets	200
R3/R3_Improper/		Improper packets	200
R3/R3_Inopportune/		Inopportune packets	219
P1/	VS	Verification of Packet Ready state P1.	
P1/P1_Proper/		Proper packets	232
P1/P1_Improper/		Improper packets	234
P1/P1_Inopportune/	CALLOUT	Inopportune packets	239
P2/		Verification of DTE Call Request state P2.	
P2/P2_Proper/		Proper packets	242
P2/P2_Improper/	INCALL	Improper packets	245
P2/P2_Inopportune/		Inopportune packets	250
P3/		Verification of DXE Incoming Call state P3.	
P3/P3_Proper/	STATE_P4	Proper packets	253
P3/P3_Improper/		Improper packets	255
P3/P3_Inopportune/		Inopportune packets	260
P4/	STATE_P4	Verification of Data Transfer state P4.	
P4/P4_Proper/		Proper packets	264
P4/P4_Improper/	STATE_P5	Improper packets	266
P4/P4_Inopportune/		Inopportune packets	269
P5/		Verification of Call Collision state P5.	
P5/P5_Proper/	STATE_P5	Proper packets	271
P5/P5_Improper/		Improper packets	273
P5/P5_Inopportune/		Inopportune packets	278
P6/	STATE_P6	Verification of DTE Clear Request state P6.	
P6/P6_Proper/		Proper packets	282
P6/P6_Improper/		Improper packets	284
P6/P6_Inopportune/	STATE_P7	Inopportune packets	287
P7/		Verification of DXE Clear Indication state P7.	
P7/P7_Improper/		Improper packets	291
P7/P7_Inopportune/	STATE_D1	Inopportune packets	296
D1/		Verification of Flow Control Ready state D1.	
D1/D1_Proper/		Proper packets	304
D1/D1_Improper/	STATE_D2	Improper packets	305
D1/D1_Inopportune/		Inopportune packets	312
D2/		Verification of DTE Reset Request state D2.	
D2/D2_Proper/	STATE_D2	Proper packets	314
D2/D2_Improper/		Improper packets	314
D2/D2_Inopportune/		Inopportune packets	317
D3/	STATE_D3	Verification of DXE Reset Indication D3.	
D3/D3_Improper/		Improper packets	320
D3/D3_Inopportune/		Inopportune packets	324
I1/	STATE_D1	Verification of DTE Interrupt Ready state I1.	
I1/I1_Improper/		Improper packets	329
I1/I1_Inopportune/		Inopportune packets	330
I2/	STATE_I2	Verification of DTE Interrupt Sent state I2.	
I2/I2_Proper/		Proper packets	331
I2/I2_Improper/		Improper packets	332
J1/	STATE_J1	Verification of DTE Interrupt Ready state J1.	
J1/J1_Proper/		Proper packets	333
J1/J1_Improper/		Improper packets	333
J2/	STATE_J2	Verification of DTE Interrupt Sent state J2.	

Table 7 (Page 2 of 2). Test Suite Structure

Suite Name : ISO/IEC 8882-3 Standards Ref : ISO/IEC 8208 : 1990 PICS Ref : ISO/IEC 8208 : 1990 / Amendment 3 PIXIT Ref : ISO/IEC 8882-3 Test Method(s) : Remote Single Layer Comments :			
Test Group Reference	Selection Ref	Test Group Objective	Page Nr
J2/J2_Improper/	STATE_D1	Improper packets	335
J2/J2_Inopportune/		Inopportune packets	336
F1/		Verification of DTE Receive Ready state F1.	
F1/F1_Proper/	STATE_D1	Proper packets	337
F1/F1_Improper/		Improper packets	338
F1/F1_Inopportune/		Inopportune packets	340
F2/	STATE_D1	Verification of DXE Receive Not Ready state F2.	
F2/F2_Proper/		Proper packets	342
F2/F2_Improper/		Improper packets	343
F2/F2_Inopportune/	RD	Inopportune packets	345
G1/		Verification of DTE Receive Ready state G1.	
G1/G1_Proper/		Proper packets	347
G1/G1_Improper/	SD	Improper packets	348
G1/G1_Inopportune/		Inopportune packets	350
DATA_TRANSFER/		Data transfer tests cases.	
DATA_TRANSFER/DATA_TRANSFER_Proper/	SD	Proper packets	353
DATA_TRANSFER/DATA_TRANSFER_Improper/		Improper packets	355
TIMER/		Verification of DTE Timers.	
TIMER/TIMER_Proper/	S2	Proper packets	357
ADDRESS/		Addressing test cases.	
ADDRESS/ADDRESS_Proper/		Proper packets	365
ADDRESS/ADDRESS_Improper/	VS	Improper packets	366
FACILITY/		Verification of DTE optional facilities.	
FACILITY/FACILITY_Proper/		Proper packets	367
FACILITY/FACILITY_Improper/	REG	Improper packets	374
REGISTRATION/		Verification of the Registration procedures.	
REGISTRATION/REGISTRATION_Proper/		Proper packets	380
MULTIPLE_LCI/	VS	Logical Channel Identifier Assignment test cases.	
MULTIPLE_LCI/MULTIPLE_LCI_Proper/		Proper packets	387
DTE_TO_DTE/		Verification of DTE/DTE procedures.	
DTE_TO_DTE/DTE_TO_DTE_Proper/	DTEDTE	Proper packets	389

7.2 Test case index

Table 8 (Page 1 of 19). Test Case Index				
Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
R1/R1_Proper/	P1_101	ASP_SUPPORT	Verify the IUT accepts a Restart Indication in R1.	166
R1/R1_Proper/	P1_102		Verify the IUT does not respond to a Diagnostic packet received in state R1.	166
R1/R1_Proper/	P1_103		Verify the IUT initiates the Restart procedure after the Data Link Layer initialization procedure is completed.	167
R1/R1_Improper/	P1_201A		Verify the IUT discards an Incoming Call with LCI=0 while in state R1.	167
R1/R1_Improper/	P1_201B		Verify the IUT discards a Call Connected packet on LCI=0 while in state R1.	168
R1/R1_Improper/	P1_201C		Verify the IUT discards a Clear Indication packet on LCI=0 while in state R1.	168
R1/R1_Improper/	P1_201D		Verify the IUT discards a Clear Confirmation packet on LCI=0 while in state R1.	169
R1/R1_Improper/	P1_201E		Verify the IUT discards a Data packet on LCI=0 while in state R1.	169
R1/R1_Improper/	P1_201F		Verify the IUT discards an Interrupt packet on LCI=0 while in state R1.	170
R1/R1_Improper/	P1_201G		Verify the IUT discards an Interrupt Confirmation packet on LCI=0 while in state R1.	170
R1/R1_Improper/	P1_201H		Verify the IUT discards a Receive Ready (RR) packet on LCI=0 while in state R1.	171
R1/R1_Improper/	P1_201I		Verify the IUT discards a Receive Not Ready (RNR) packet on LCI=0 while in state R1.	171
R1/R1_Improper/	P1_201J		Verify the IUT discards a Reset Indication packet on LCI=0 while in state R1.	172
R1/R1_Improper/	P1_201K		Verify the IUT discards a Reset Confirmation packet on LCI=0 while in state R1.	172
R1/R1_Improper/	P1_201L		Verify the IUT discards a Reject packet on LCI=0 while in state R1.	173
R1/R1_Improper/	P1_202	NOTCCITT	Verify the IUT discards or restarts a too short Restart Indication (no cause code or diagnostic fields) packet received in state R1.	173
R1/R1_Improper/	P1_203		Verify the IUT discards or restarts a too long Restart Indication (one octet after the Diagnostic field) received in state R1.	174
R1/R1_Improper/	P1_204		Verify the IUT discards or restarts a too long Restart Confirmation (one octet appended to the end of the packet) received in state R1.	174
R1/R1_Improper/	P1_206		Verify the IUT discards a Diagnostic packet with an assigned LCN not equal to zero received in state R1.	175
R1/R1_Improper/	P1_207		Verify the IUT discards a too short Diagnostic packet (no diagnostic or explanation fields) received in state R1.	175
R1/R1_Improper/	P1_208		Verify the IUT discards a too long Diagnostic packet (explanation field of three octets plus one appended octet) received in state R1.	175
R1/R1_Improper/	P1_209		Verify the IUT discards packet of length one octet received in state R1.	176
R1/R1_Improper/	P1_210		Verify the IUT discards Restart Indications with an invalid GFI received in state R1.	176

Table 8 (Page 2 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
R1/R1_Improper/	P1_211A		Verify the IUT discards a Incoming Call with unassigned LCI received in state R1.	176
R1/R1_Improper/	P1_211B		Verify the IUT discards a Call Connected packet with unassigned LCI received in state R1.	177
R1/R1_Improper/	P1_211C		Verify the IUT discards a Clear Indication with unassigned LCI received in state R1.	177
R1/R1_Improper/	P1_211D		Verify the IUT discards a Clear Confirmation with unassigned LCI received in state R1.	177
R1/R1_Improper/	P1_211E		Verify the IUT discards a Data packet with unassigned LCI received in state R1.	178
R1/R1_Improper/	P1_211F		Verify the IUT discards an Interrupt packet with unassigned LCI received in state R1.	178
R1/R1_Improper/	P1_211G		Verify the IUT discards an Interrupt Confirmation with unassigned LCI received in state R1.	178
R1/R1_Improper/	P1_211H		Verify the IUT discards a Receive Ready (RR) with unassigned LCI received in state R1.	179
R1/R1_Improper/	P1_211I		Verify the IUT discards a Receive Not Ready (RNR) with unassigned LCI received in state R1.	179
R1/R1_Improper/	P1_211J		Verify the IUT discards a Reset Indication with unassigned LCI received in state R1.	179
R1/R1_Improper/	P1_211K		Verify the IUT discards a Reset Confirmation with unassigned LCI received in state R1.	180
R1/R1_Improper/	P1_211L		Verify the IUT discards a Reject packet with unassigned LCI received in state R1.	180
R1/R1_Inopportune/	P1_301		Verify the IUT restarts a Restart Confirmation with the correct diagnostic code received in state R1.	180
R2/R2_Proper/	P2_101		Verify the R2 to R1 transition via Restart Indication.	181
R2/R2_Proper/	P2_102		Verify the R2 to R1 transition via Restart Confirmation.	181
R2/R2_Proper/	P2_103		Verify the IUT does not respond to a Diagnostic packet received in state R2.	181
R2/R2_Improper/	P2_201		Verify the IUT discards a packet of length two octets received in state R2.	182
R2/R2_Improper/	P2_202A		Verify the IUT discards an Incoming Call with LCI=0 received in state R2.	182
R2/R2_Improper/	P2_202B		Verify the IUT discards a Call Connected packet with LCI=0 received in state R2.	182
R2/R2_Improper/	P2_202C		Verify the IUT discards a Clear Indication with LCI=0 received in state R2.	183
R2/R2_Improper/	P2_202D		Verify the IUT discards a Clear Confirmation with LCI=0 received in state R2.	183
R2/R2_Improper/	P2_202E		Verify the IUT discards a Data packet with LCI=0 received in state R2.	183
R2/R2_Improper/	P2_202F		Verify the IUT discards an Interrupt packet with LCI=0 received in state R2.	184
R2/R2_Improper/	P2_202G		Verify the IUT discards an Interrupt Confirmation with LCI=0 received in state R2.	184
R2/R2_Improper/	P2_202H		Verify the IUT discards a Receive Ready (RR) with LCI=0 received in state R2.	184
R2/R2_Improper/	P2_202I		Verify the IUT discards a Receive Not Ready (RNR) with LCI=0 received in state R2.	185

Table 8 (Page 3 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
R2/R2_Improper/	P2_202J		Verify the IUT discards a Reset Indication with LCI=0 received in state R2.	185
R2/R2_Improper/	P2_202K		Verify the IUT discards a Reset Confirmation with LCI=0 received in state R2.	185
R2/R2_Improper/	P2_202L		Verify the IUT discards a Reject packet with LCI=0 received in state R2.	186
R2/R2_Improper/	P2_203A		Verify the IUT discards an unidentified packet on logical channel zero received in state R2.	186
R2/R2_Improper/	P2_203B		Verify the IUT discards an unidentified packet on a valid logical channel received in state R2.	186
R2/R2_Improper/	P2_203C		Verify the IUT discards an unidentified packet on an unassigned logical channel received in state R2.	187
R2/R2_Improper/	P2_204		Verify the IUT discards a Restart Indication with LCI not equal to zero received in state R2.	187
R2/R2_Improper/	P2_205		Verify the IUT discards a Restart Confirmation with LCI not equal to zero received in state R2.	187
R2/R2_Improper/	P2_206		Verify the IUT restarts a too short Restart Indication received in state R2.	188
R2/R2_Improper/	P2_207		Verify the IUT restarts a too long Restart Indication received in state R2.	188
R2/R2_Improper/	P2_208		Verify the IUT restarts a too long Restart Confirmation received in state R2.	189
R2/R2_Improper/	P2_210	NOTCCITT	Verify the IUT does not respond to a Diagnostic packet on an assigned LCI not equal to zero received in state R2.	189
R2/R2_Improper/	P2_211	NOTCCITT	Verify the IUT discards a too short Diagnostic packet (no Diagnostic code or Explanation fields) received in state R2.	189
R2/R2_Improper/	P2_212	NOTCCITT	Verify the IUT discards a too long Diagnostic packet (explanation field of three octets plus one appended octet) received in state R2.	190
R2/R2_Improper/	P2_213		Verify the IUT discards a too short packet (length of one octet) received in state R2.	190
R2/R2_Improper/	P2_214		Verify the IUT discards a Restart Indications with an invalid GFI received in state R2.	190
R2/R2_Improper/	P2_215A		Verify the IUT discards an Incoming Call on an unassigned LCI received in state R2.	191
R2/R2_Improper/	P2_215B		Verify the IUT discards a Call connected packet on an unassigned LCI received in state R2.	191
R2/R2_Improper/	P2_215C		Verify the IUT discards a Clear Indication on an unassigned LCI received in state R2.	191
R2/R2_Improper/	P2_215D		Verify the IUT discards a Clear Confirmation on an unassigned LCI received in state R2.	192
R2/R2_Improper/	P2_215E		Verify the IUT discards a Data packet on an unassigned LCI received in state R2.	192
R2/R2_Improper/	P2_215F		Verify the IUT discards a Interrupt packet on an unassigned LCI received in state R2.	192
R2/R2_Improper/	P2_215G		Verify the IUT discards an Interrupt Confirmation on an unassigned LCI received in state R2.	193

Table 8 (Page 4 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
R2/R2_Improper/	P2_215H		Verify the IUT discards a Receive Ready (RR) on an unassigned LCI received in state R2.	193
R2/R2_Improper/	P2_215I		Verify the IUT discards a Receive Not Ready (RNR) on an unassigned LCI received in state R2.	193
R2/R2_Improper/	P2_215J		Verify the IUT discards a Reset Indication on an unassigned LCI received in state R2.	194
R2/R2_Improper/	P2_215K		Verify the IUT discards a Reset Confirmation on an unassigned LCI received in state R2.	194
R2/R2_Improper/	P2_215L		Verify the IUT discards a Reject packet on an unassigned LCI received in state R2.	194
R2/R2_Improper/	P2_215M		Verify the IUT discards a Restart Indication on an unassigned LCI received in state R2.	195
R2/R2_Improper/	P2_215N		Verify the IUT discards a Restart Confirmation on an unassigned LCI received in state R2.	195
R2/R2_Inopportune/	P2_301A		Verify the IUT discards an Incoming Call received in state R2.	195
R2/R2_Inopportune/	P2_301B		Verify the IUT discards a Call Connected packet received in state R2.	196
R2/R2_Inopportune/	P2_301C		Verify the IUT discards a Clear Indication received in state R2.	196
R2/R2_Inopportune/	P2_301D		Verify the IUT discards a Clear Confirmation received in state R2.	196
R2/R2_Inopportune/	P2_301E		Verify the IUT discards a Data packet received in state R2.	197
R2/R2_Inopportune/	P2_301F		Verify the IUT discards an Interrupt received in state R2.	197
R2/R2_Inopportune/	P2_301G		Verify the IUT discards an Interrupt Confirmation received in state R2.	197
R2/R2_Inopportune/	P2_301H		Verify the IUT discards a Receive Ready (RR) received in state R2.	198
R2/R2_Inopportune/	P2_301I		Verify the IUT discards a Receive Not Ready (RNR) received in state R2.	198
R2/R2_Inopportune/	P2_301J		Verify the IUT discards a Reset Indication received in state R2.	198
R2/R2_Inopportune/	P2_301K		Verify the IUT discards a Reset Confirmation received in state R2.	199
R2/R2_Inopportune/	P2_301L		Verify the IUT discards a Reject packet received in state R2.	199
R3/R3_Proper/	P3_101		Verify the IUT accepts a valid Diagnostic packet received in state R3.	200
R3/R3_Improper/	P3_201		Verify the IUT restarts or discards a packet of length two octets received in state R3.	200
R3/R3_Improper/	P3_202A		Verify the IUT discards an Incoming Call with LCI=0 received state in R3.	201
R3/R3_Improper/	P3_202B		Verify the IUT discards a Call Connected packet with LCI=0 received state in R3.	201
R3/R3_Improper/	P3_202C		Verify the IUT discards a Clear Indication with LCI=0 received state in R3.	201
R3/R3_Improper/	P3_202D		Verify the IUT discards a Clear Confirmation with LCI=0 received state in R3.	202
R3/R3_Improper/	P3_202E		Verify the IUT discards a Data packet with LCI=0 received state in R3.	202

Table 8 (Page 5 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
R3/R3_Improper/	P3_202F		Verify the IUT discards an Interrupt packet with LCI=0 received state in R3.	202
R3/R3_Improper/	P3_202G		Verify the IUT discards an Interrupt Confirmation with LCI=0 received state in R3.	203
R3/R3_Improper/	P3_202H		Verify the IUT discards a Receive Ready (RR) with LCI=0 received state in R3.	203
R3/R3_Improper/	P3_202I		Verify the IUT discards a Receive Not Ready (RNR) packet with LCI=0 received state in R3.	203
R3/R3_Improper/	P3_202J		Verify the IUT discards a Reset Indication with LCI=0 received state in R3.	204
R3/R3_Improper/	P3_202K		Verify the IUT discards a Reset Confirmation with LCI=0 received state in R3.	204
R3/R3_Improper/	P3_202L		Verify the IUT discards a Reject packet with LCI=0 received state in R3.	204
R3/R3_Improper/	P3_203A		Verify the IUT restarts or discards an unidentified packet on logical channel zero received in state R3.	205
R3/R3_Improper/	P3_203B		Verify the IUT restarts or discards an unidentified packet on a valid logical channel received in state R3.	206
R3/R3_Improper/	P3_203C		Verify the IUT restarts or discards an unidentified packet on an unassigned logical channel received in state R3.	207
R3/R3_Improper/	P3_204	NOTCCITT	Verify IUT restarts a Restart Indication with an assigned LCI not equal to zero, received in state R3.	207
R3/R3_Improper/	P3_205	NOTCCITT	Verify IUT restarts a Restart Confirmation with an assigned LCI not equal to zero, received in state R3.	208
R3/R3_Improper/	P3_206		Verify the IUT restarts or discards a too short Restart Indication received in state R3.	208
R3/R3_Improper/	P3_207		Verify the IUT restarts or discards a too long Restart Indication received in state R3.	209
R3/R3_Improper/	P3_208		Verify the IUT restarts or discards a too long Restart Confirmation received in state R3.	210
R3/R3_Improper/	P3_210	NOTCCITT	Verify the IUT discards a Diagnostic packet with an assigned LCI not equal to zero received in state R3.	210
R3/R3_Improper/	P3_211	NOTCCITT	Verify the IUT discards a too short Diagnostic packet received in state R3.	211
R3/R3_Improper/	P3_212	NOTCCITT	Verify the IUT discards a too long Diagnostic packet received in state R3.	211
R3/R3_Improper/	P3_213		Verify the IUT discards a too short Diagnostic packet received in state R3.	211
R3/R3_Improper/	P3_214		Verify the IUT discards Restart Indications with an invalid GFI received in state R3.	212
R3/R3_Improper/	P3_215A		Verify the IUT discards an Incoming Call on an unassigned logical channel received in state R3.	212
R3/R3_Improper/	P3_215B		Verify the IUT discards an Call Connected on an unassigned logical channel received in state R3.	213
R3/R3_Improper/	P3_215C		Verify the IUT discards a Clear Indication on an unassigned logical channel received in state R3.	213

Table 8 (Page 6 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
R3/R3_Improper/	P3_215D		Verify the IUT discards an Clear Confirmation on an unassigned logical channel received in state R3.	214
R3/R3_Improper/	P3_215E		Verify the IUT discards an Data packet on an unassigned logical channel received in state R3.	214
R3/R3_Improper/	P3_215F		Verify the IUT discards an Interrupt on an unassigned logical channel received in state R3.	215
R3/R3_Improper/	P3_215G		Verify the IUT discards an Interrupt Confirmation on an unassigned logical channel received in state R3.	215
R3/R3_Improper/	P3_215H		Verify the IUT discards a Receive Ready (RR) on an unassigned logical channel received in state R3.	216
R3/R3_Improper/	P3_215I		Verify the IUT discards a Receive Not Ready (RNR) on an unassigned logical channel received in state R3.	216
R3/R3_Improper/	P3_215J		Verify the IUT discards a Reset Indication on an unassigned logical channel received in state R3.	217
R3/R3_Improper/	P3_215K		Verify the IUT discards a Reset Confirmation on an unassigned logical channel received in state R3.	217
R3/R3_Improper/	P3_215L		Verify the IUT discards a Reject on an unassigned logical channel received in state R3.	218
R3/R3_Improper/	P3_215M		Verify the IUT discards a Restart on an unassigned logical channel received in state R3.	218
R3/R3_Improper/	P3_215N		Verify the IUT discards a Restart Confirmation on an unassigned logical channel received in state R3.	219
R3/R3_Inopportune/	P3_301		Verify the IUT discards a Restart Indication received in state R3.	219
R3/R3_Inopportune/	P3_302		Verify the IUT restarts a Restart Confirmation received in state R3.	220
R3/R3_Inopportune/	P3_303A		Verify the IUT restarts an Incoming Call received in state R3.	220
R3/R3_Inopportune/	P3_303B		Verify the IUT restarts a Call Connected packet received in state R3.	221
R3/R3_Inopportune/	P3_303C		Verify the IUT restarts a Clear Indication received in state R3.	222
R3/R3_Inopportune/	P3_303D		Verify the IUT restarts a Clear Confirmation received in state R3.	223
R3/R3_Inopportune/	P3_303E		Verify the IUT restarts a Data packet received in state R3.	224
R3/R3_Inopportune/	P3_303F		Verify the IUT restarts an Interrupt packet received in state R3.	225
R3/R3_Inopportune/	P3_303G		Verify the IUT restarts an Interrupt Confirmation received in state R3.	226
R3/R3_Inopportune/	P3_303H		Verify the IUT restarts a Receive Ready (RR) received in state R3.	227
R3/R3_Inopportune/	P3_303I		Verify the IUT restarts a Receive Not Ready (RNR) received in state R3.	228
R3/R3_Inopportune/	P3_303J		Verify the IUT restarts a Reset Indication received in state R3.	229
R3/R3_Inopportune/	P3_303K		Verify the IUT restarts a Reset Confirmation received in state R3.	230

Table 8 (Page 7 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
R3/R3_Inopportune/	P3_303L		Verify the IUT restarts a Reject packet received in state R3.	231
P1/P1_Proper/	P4_101	INCACC	Verify the IUT accepts a valid Incoming Call received in state P1.	232
P1/P1_Proper/	P4_103		Verify that the IUT confirms a CLEAR with cause '01'H received in state P1.	232
P1/P1_Proper/	P4_104		Verify that the IUT confirms a CLEAR with cause '05'H received in state P1.	232
P1/P1_Proper/	P4_105		Verify that the IUT confirms a CLEAR with cause '11'H received in state P1.	233
P1/P1_Proper/	P4_106		Verify that the IUT confirms a CLEAR with cause '13'H received in state P1.	233
P1/P1_Proper/	P4_107		Verify that the IUT confirms a CLEAR with cause '21'H received in state P1.	234
P1/P1_Improper/	P4_201		Verify the IUT clears a packet of length two octets received in state P1.	234
P1/P1_Improper/	P4_202		Verify that the IUT clears a packet of unidentified type in state P1.	235
P1/P1_Improper/	P4_203		Verify that the IUT clears a Restart packet with an assigned LCI not equal to zero received in state P1.	235
P1/P1_Improper/	P4_204		Verify that the IUT clears a Restart Confirm packet received on an assigned LCI not equal to zero while in state P1.	236
P1/P1_Improper/	P4_205	S2	Verify that the IUT clears a too short Incoming Call packet received in state P1.	236
P1/P1_Improper/	P4_206	INCACC	Verify the IUT clears a too long Incoming Call packet (user data field of 17 or 129 octets) while in state P1.	237
P1/P1_Improper/	P4_207		Verify the IUT clears a too long Call Connected packet (user data field of 1 or 129 octets) while in state P1.	237
P1/P1_Improper/	P4_208		Verify that the IUT clears a too short Clear Indication packet (no cause code or diagnostic code fields) while in state P1.	237
P1/P1_Improper/	P4_209		Verify that the IUT clears a too long Clear Indication packet while in state P1.	238
P1/P1_Improper/	P4_210		Verify that the IUT clears a too long Clear Confirmation packet (110 octets appended to the end of the packet) while in state P1.	238
P1/P1_Inopportune/	P4_301		Verify the IUT clears a Call Connected packet received in state P1.	239
P1/P1_Inopportune/	P4_302		Verify the IUT clears a Clear Confirm packet received in state P1.	239
P1/P1_Inopportune/	P4_305		Verify the IUT clears an Interrupt Confirmation packet received in state P1.	239
P1/P1_Inopportune/	P4_306		Verify the IUT clears a Receive Ready packet received in state P1.	240
P1/P1_Inopportune/	P4_307		Verify the IUT clears a Receive Not Ready packet received in state P1.	240
P1/P1_Inopportune/	P4_308		Verify the IUT clears a Reset Indication packet received in state P1.	240
P1/P1_Inopportune/	P4_309		Verify the IUT clears a Reset Confirmation packet received in state P1.	241
P1/P1_Inopportune/	P4_310		Verify the IUT clears an Interrupt packet received in state P1.	241
P2/P2_Proper/	P5_101	S2	Verify the IUT correctly handles an Incoming Call received in state P2.	242

Table 8 (Page 8 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
P2/P2_Proper/	P5_103		Verify the IUT accepts a Call Connected packet while in state P2.	242
P2/P2_Proper/	P5_104		Verify the IUT confirms a Clear with cause code of '01'H received in state P2.	242
P2/P2_Proper/	P5_105		Verify the IUT confirms a Clear with cause code of '05'H received in state P2.	243
P2/P2_Proper/	P5_106		Verify the IUT confirms a Clear with cause code of '11' H received in state P2.	243
P2/P2_Proper/	P5_107		Verify the IUT confirms a Clear with cause code of '13'H received in state P2.	244
P2/P2_Proper/	P5_108		Verify the IUT confirms a Clear with cause code of '21'H received in state P2.	244
P2/P2_Improper/	P5_201		Verify the IUT clears a packet of length two octets received in state P2.	245
P2/P2_Improper/	P5_202		Verify the IUT clears a packet with an undefined PTI field received in state P2.	245
P2/P2_Improper/	P5_203		Verify the IUT clears a Restart Indication with LCI < > 0 received in state P2.	246
P2/P2_Improper/	P5_204		Verify the IUT clears a Restart Confirmation with LCI < > 0 received in state P2.	246
P2/P2_Improper/	P5_205	S2	Verify the IUT clears or discards a too short Incoming Call received in state P2.	247
P2/P2_Improper/	P5_206	S2	Verify the IUT clears or discards a too long Incoming Call packet (user data field of 17 or 129 octets) received in state P2.	247
P2/P2_Improper/	P5_207		Verify the IUT clears a too long Call Connected packet (user data field of 1 or 129 octets) received in state P2.	248
P2/P2_Improper/	P5_208		Verify the IUT clears a too short Clear Indication packet (no cause code or diagnostic code) received in state P2.	248
P2/P2_Improper/	P5_209		Verify the IUT clears a too long Clear Indication packet received in state P2.	249
P2/P2_Improper/	P5_210		Verify the IUT clears a too long Clear Confirmation packet received in state P2.	249
P2/P2_Inopportune/	P5_301		Verify the IUT clears a Clear Confirmation packet with valid Logical Channel Identifier while in state P2.	250
P2/P2_Inopportune/	P5_302		Verify the IUT clears a Data packet with valid Logical Channel Identifier while in state P2.	250
P2/P2_Inopportune/	P5_303		Verify the IUT clears an Interrupt packet with valid Logical Channel Identifier while in state P2.	250
P2/P2_Inopportune/	P5_304		Verify the IUT clears an Interrupt Confirmation packet with valid Logical Channel Identifier while in state P2.	251
P2/P2_Inopportune/	P5_305		Verify the IUT clears an RR packet with valid Logical Channel Identifier while in state P2.	251
P2/P2_Inopportune/	P5_306		Verify the IUT clears an RNR packet with valid Logical Channel Identifier while in state P2.	251
P2/P2_Inopportune/	P5_307		Verify the IUT clears an Reset packet with valid Logical Channel Identifier while in state P2.	252
P2/P2_Inopportune/	P5_308		Verify the IUT clears an Reset Confirm packet with valid Logical Channel Identifier while in state P2.	252

Table 8 (Page 9 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
P3/P3_Proper/	P6_101		Verify the IUT confirms a Clear with cause '01'H received in state P3.	253
P3/P3_Proper/	P6_102		Verify the IUT confirms a Clear with cause '05'H received in state P3.	253
P3/P3_Proper/	P6_103		Verify the IUT confirms a Clear with cause '11'H received in state P3.	254
P3/P3_Proper/	P6_104		Verify the IUT confirms a Clear with cause '13'H received in state P3.	254
P3/P3_Proper/	P6_105		Verify the IUT confirms a Clear with cause '21'H received in state P3.	255
P3/P3_Improper/	P6_201		Verify the IUT clears a too short packet with length two octets received in state P3.	255
P3/P3_Improper/	P6_202		Verify the IUT clears a packet of undefined type received in state P3.	256
P3/P3_Improper/	P6_203		Verify the IUT clears a Restart packet on an assigned LCI not equal to zero received in state P3.	256
P3/P3_Improper/	P6_204		Verify the IUT clears a Restart Confirmation packet on an assigned LCI not equal to zero received in state P3.	257
P3/P3_Improper/	P6_205		Verify the IUT clears a too short Incoming Call packet received in state P3.	257
P3/P3_Improper/	P6_206		Verify the IUT clears a too long Incoming Call packet (user data field of 17 or 129 octets) received in state P3.	258
P3/P3_Improper/	P6_207		Verify the IUT clears a too long Call Connected packet (user data field of 1 or 129 octets) received in state P3.	258
P3/P3_Improper/	P6_208		Verify the IUT clears a too short Clear Indication packet (no cause code or diagnostic code fields) received in state P3.	259
P3/P3_Improper/	P6_209		Verify the IUT clears a too long Clear Indication packet received in state P3.	259
P3/P3_Improper/	P6_210		Verify the IUT clears a too long Clear Confirmation packet (110 octets appended to the end of the packet) received in state P3.	260
P3/P3_Inopportune/	P6_301		Verify the IUT clears an Incoming Call received in state P3.	260
P3/P3_Inopportune/	P6_303		Verify the IUT clears a Call Connected packet received in state P3.	261
P3/P3_Inopportune/	P6_304		Verify the IUT clears a Clear Confirmation packet received in state P3.	261
P3/P3_Inopportune/	P6_305		Verify the IUT clears a Data packet received in state P3.	261
P3/P3_Inopportune/	P6_306		Verify the IUT clears an Interrupt packet received in state P3.	262
P3/P3_Inopportune/	P6_307		Verify the IUT clears an Interrupt Confirm received in state P3.	262
P3/P3_Inopportune/	P6_308		Verify the IUT clears an RR packet received in state P3.	262
P3/P3_Inopportune/	P6_309		Verify the IUT clears an RNR packet received in state P3.	263
P3/P3_Inopportune/	P6_310		Verify the IUT clears a Reset Indication received in state P3.	263
P3/P3_Inopportune/	P6_311		Verify the IUT clears a Reset Confirmation received in state P3.	263
P4/P4_Proper/	P7_101		Verify the IUT acknowledges a Clear with cause code '01'H received in state P4.	264

Table 8 (Page 10 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
P4/P4_Proper/	P7_102		Verify the IUT acknowledges a Clear with cause code '05'H received in state P4.	264
P4/P4_Proper/	P7_103		Verify the IUT acknowledges a Clear with cause code '11'H received in state P4.	265
P4/P4_Proper/	P7_104		Verify the IUT acknowledges a Clear with cause code '13'H received in state P4.	265
P4/P4_Proper/	P7_105		Verify the IUT acknowledges a Clear with cause code '21'H received in state P4.	266
P4/P4_Improper/	P7_201		Verify the IUT clears a too short Incoming Call packet received in state P4.	266
P4/P4_Improper/	P7_202		Verify the IUT clears a too long Incoming Call packet (user data field of 17 or 129 octets) received in state P4.	267
P4/P4_Improper/	P7_203		Verify the IUT clears a too long Call Connected packet (user data field of 1 or 129 octets) received in state P4.	267
P4/P4_Improper/	P7_204		Verify the IUT clears a too short Clear Indication packet (no cause code or diagnostic code fields) received in state P4.	268
P4/P4_Improper/	P7_205		Verify the IUT clears a too long Clear Indication packet received in state P4.	268
P4/P4_Improper/	P7_206		Verify the IUT clears a too long Clear Confirmation packet (110 octets appended to the end of the packet) received in state P4.	269
P4/P4_Inopportune/	P7_301		Verify the IUT clears an Incoming Call packet received in state P4.	269
P4/P4_Inopportune/	P7_303		Verify the IUT clears a Call Connected packet received in state P4.	270
P4/P4_Inopportune/	P7_304		Verify the IUT clears a Clear Confirmation packet received in state P4.	270
P5/P5_Proper/	P8_101		Verify P5 to P4 transition using a Call Connected packet.	271
P5/P5_Proper/	P8_102		Verify the IUT confirms a Clear with cause '01'H received in state P5.	271
P5/P5_Proper/	P8_103		Verify the IUT confirms a Clear with cause '05'H received in state P5.	272
P5/P5_Proper/	P8_104		Verify the IUT confirms a Clear with cause '11'H received in state P5.	272
P5/P5_Proper/	P8_105		Verify the IUT confirms a Clear with cause '13'H received in state P5.	272
P5/P5_Proper/	P8_106		Verify the IUT confirms a Clear with cause '21'H received in state P5.	273
P5/P5_Improper/	P8_201		Verify the IUT clears a too short packet (PTI field is NIL) received in state P5.	273
P5/P5_Improper/	P8_202		Verify the IUT clears a packet of undefined type (PTI equal '0D'H) received in state P5.	274
P5/P5_Improper/	P8_203		Verify the IUT clears a Restart packet on an assigned LCI not equal to zero received in state P5.	274
P5/P5_Improper/	P8_204		Verify the IUT clears a Restart Confirmation packet on an assigned LCI not equal to zero received in state P5.	275
P5/P5_Improper/	P8_205		Verify the IUT clears a too short Incoming Call packet (no called address field) received in state P5.	275
P5/P5_Improper/	P8_206		Verify the IUT clears or discards a too long Incoming Call packet (user data field of 17 or 129 octets) received in state P5.	276

Table 8 (Page 11 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
P5/P5_Improper/	P8_207		Verify the IUT clears a too long Call Connected packet (user data field of 1 or 129 octets) received in state P5.	276
P5/P5_Improper/	P8_208		Verify the IUT clears a too short Clear Indication packet (no cause or diagnostic code fields) received in state P5.	277
P5/P5_Improper/	P8_209		Verify the IUT clears a too long Clear Indication packet received in state P5.	277
P5/P5_Improper/	P8_210		Verify the IUT clears a too long Clear Confirmation packet (1 or 110 octets appended to the end of the packet) received in state P5.	278
P5/P5_Inopportune/	P8_301		Verify the IUT clears an Incoming Call packet received in state P5.	278
P5/P5_Inopportune/	P8_303		Verify the IUT clears a Clear Confirmation received in state P5.	278
P5/P5_Inopportune/	P8_304		Verify the IUT clears a Data packet received in state P5.	279
P5/P5_Inopportune/	P8_305		Verify the IUT clears an Interrupt packet received in state P5.	279
P5/P5_Inopportune/	P8_306		Verify the IUT clears an Interrupt Confirmation packet received in state P5.	279
P5/P5_Inopportune/	P8_307		Verify the IUT clears a Receive Ready (RR) packet received in state P5.	280
P5/P5_Inopportune/	P8_308		Verify the IUT clears a Receive Not Ready (RNR) packet received in state P5.	280
P5/P5_Inopportune/	P8_309		Verify the IUT clears a Reset Indication packet received in state P5.	280
P5/P5_Inopportune/	P8_310		Verify the IUT clears a Reset Confirmation packet received in state P5.	281
P6/P6_Proper/	P9_101		Verify the IUT accepts a clear with cause code '01'H received in state P6.	282
P6/P6_Proper/	P9_102		Verify the IUT accepts a clear with cause code '05'H received in state P6.	282
P6/P6_Proper/	P9_103		Verify the IUT accepts a clear with cause code '11'H received in state P6.	282
P6/P6_Proper/	P9_104		Verify the IUT accepts a clear with cause code '13'H received in state P6.	283
P6/P6_Proper/	P9_105		Verify the IUT accepts a clear with cause code '21'H received in state P6.	283
P6/P6_Proper/	P9_106		Verify the IUT accepts a valid Clear Confirmation received in state P6.	283
P6/P6_Improper/	P9_201		Verify the IUT discards a too short (two octets) received in state P6.	284
P6/P6_Improper/	P9_202		Verify the IUT discards an unidentifiable packet received in state P6.	284
P6/P6_Improper/	P9_203		Verify the IUT discards Restart (LCI < > zero) received in state P6.	284
P6/P6_Improper/	P9_204		Verify the IUT discards a Restart Confirmation (LCI < > zero) received in state P6.	285
P6/P6_Improper/	P9_205		Verify the IUT discards a too short Incoming Call (no called address field) received in state P6.	285
P6/P6_Improper/	P9_206		Verify the IUT discards a too long Incoming Call packet (user data field of 17 or 129 octets) received in state P6.	285

Table 8 (Page 12 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
P6/P6_Improper/	P9_207		Verify the IUT discards a too long Call Connect packet (user data field of 1 or 129 octets) received in state P6.	286
P6/P6_Improper/	P9_208		Verify the IUT clears a too short Clear Indication packet (no cause code or diagnostic code fields) received in state P6.	286
P6/P6_Improper/	P9_209		Verify the IUT clears a too long Clear Indication packet (user data field of 129 octets) received in state P6.	287
P6/P6_Improper/	P9_210		Verify the IUT clears a too long Clear Confirmation (110 octets appended to the end of the packet) received in state P6.	287
P6/P6_Inopportune/	P9_301		Verify the IUT discards an Incoming Call packet received in state P6.	287
P6/P6_Inopportune/	P9_303		Verify the IUT discards a Call Connected received in state P6.	288
P6/P6_Inopportune/	P9_304		Verify the IUT discards a Data packet received in state P6.	288
P6/P6_Inopportune/	P9_305		Verify the IUT discards an Interrupt packet received in state P6.	288
P6/P6_Inopportune/	P9_306		Verify the IUT discards an Interrupt Confirm received in state P6.	289
P6/P6_Inopportune/	P9_307		Verify the IUT discards a RR packet received in state P6.	289
P6/P6_Inopportune/	P9_308		Verify the IUT discards a RNR packet received in state P6.	289
P6/P6_Inopportune/	P9_309		Verify the IUT discards a Reset packet received in state P6.	290
P6/P6_Inopportune/	P9_310		Verify the IUT discards a Reset Confirmation received in state P6.	290
P7/P7_Improper/	P10_201		Verify the IUT clears a too short packet (two octets) received in state P7.	291
P7/P7_Improper/	P10_202		Verify the IUT clears an unidentifiable packet received in state P7.	291
P7/P7_Improper/	P10_203		Verify the IUT clears a Restart Indication (LCI < > zero) received in state P7.	292
P7/P7_Improper/	P10_204		Verify the IUT clears a Restart Confirmation (LCI < > zero) received in state P7.	292
P7/P7_Improper/	P10_205		Verify the IUT in state P7 clears a too short Incoming Call (no called address field) received in state P7.	293
P7/P7_Improper/	P10_206		Verify the IUT clears a too long Incoming Call (user data field of 17 or 129 octets) received in state P7.	293
P7/P7_Improper/	P10_207		Verify the IUT clears a too long Call Connected packet (user data field of 1 or 129 octets) received in state P7.	294
P7/P7_Improper/	P10_208		Verify the IUT discards a too short Clear Indication packet (no cause or diagnostic fields) received in state P7.	294
P7/P7_Improper/	P10_209		Verify the IUT discards a too long Clear Indication packet (user data field of 129 octets) received in state P7.	295
P7/P7_Improper/	P10_210		Verify the IUT clears a too long Clear Confirmation packet (110 octets appended) received in state P7.	295
P7/P7_Inopportune/	P10_301		Verify the IUT clears an Incoming Call received in state P7.	296

Table 8 (Page 13 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
P7/P7_Inopportune/	P10_303	RCV_DATA RCV_DATA_AND_RESET	Verify the IUT clears a Call Connected packet received in state P7.	296
P7/P7_Inopportune/	P10_304		Verify the IUT discards a Clear Indication with cause '01'H received in state P7.	297
P7/P7_Inopportune/	P10_305		Verify the IUT discards a Clear Indication with cause '05'H received in state P7.	297
P7/P7_Inopportune/	P10_306		Verify the IUT discards a Clear Indication with cause '11'H received in state P7.	298
P7/P7_Inopportune/	P10_307		Verify the IUT discards a Clear Indication with cause '13'H received in state P7.	298
P7/P7_Inopportune/	P10_308		Verify the IUT discards a Clear Indication with cause '21'H received in state P7.	299
P7/P7_Inopportune/	P10_309		Verify the IUT clears a Clear Confirm packet received in state P7.	299
P7/P7_Inopportune/	P10_310		Verify the IUT clears a Data packet received in state P7.	300
P7/P7_Inopportune/	P10_311		Verify the IUT clears an Interrupt packet received in state P7.	300
P7/P7_Inopportune/	P10_312		Verify the IUT clears an Interrupt Confirmation received in state P7.	301
P7/P7_Inopportune/	P10_313		Verify the IUT clears an RR packet received in state P7.	301
P7/P7_Inopportune/	P10_314		Verify the IUT clears RNR packet received in state P7.	302
P7/P7_Inopportune/	P10_315		Verify the IUT clears a Reset packet received in state P7.	302
P7/P7_Inopportune/	P10_316		Verify the IUT clears a Reset Confirmation packet received in state P7.	303
D1/D1_Proper/	P11_101		Verify the IUT can accept a Reset Indication received in state D1.	304
D1/D1_Proper/	P11_102	RCV_DATA RCV_DATA_AND_RESET	Verify the IUT can accept Data in state D1.	304
D1/D1_Proper/	P11_103		Verify the IUT can accept Data after a Reset/Reset Confirmation exchange in state D1.	305
D1/D1_Improper/	P11_201		Verify the IUT resets a too short packet (two octets) received in state D1.	305
D1/D1_Improper/	P11_202		Verify the IUT resets an unidentifiable packet (PTI field equals '0D'H) received in state D1.	306
D1/D1_Improper/	P11_203		Verify the IUT resets a Restart Indication with an assigned LCI not equal to zero received in state D1.	307
D1/D1_Improper/	P11_204		Verify the IUT resets a Restart Confirmation packet with an assigned LCI not equal to zero received in state D1.	308
D1/D1_Improper/	P11_205		Verify the IUT resets a too short Reset Indication (Diagnostic field is NIL) received in state D1.	309
D1/D1_Improper/	P11_206		Verify the IUT resets a too long Reset Indication (one octet appended) received in state D1.	310
D1/D1_Improper/	P11_207		Verify the IUT resets a too long Reset Confirmation packet (one octet appended) received in state D1.	311
D1/D1_Inopportune/	P11_301		Verify the IUT resets a Reset Confirmation received in state D1.	312
D1/D1_Inopportune/	P11_302		Verify the IUT resets an Incoming Call packet received on a PVC in state D1.	313
		SUPPORT_PVC		

Table 8 (Page 14 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
D1/D1_Inopportune/	P11_303	SUPPORT_PVC	Verify the IUT resets a Clear Indication received on a PVC in state D1.	313
D2/D2_Proper/	P12_101	SUPPORT_VC_OR_PVC	Verify the IUT changes to state D1 when a Reset Indication is received in state D2.	314
D2/D2_Proper/	P12_102	SUPPORT_VC_OR_PVC	Verify the IUT is in state D1 after receiving a Reset Confirmation while in state D2.	314
D2/D2_Improper/	P12_201	SUPPORT_VC_OR_PVC	Verify the IUT discards a too short packet (two octets) received in state D2.	314
D2/D2_Improper/	P12_202	SUPPORT_VC_OR_PVC	Verify the IUT discards an unidentifiable packet (PTI = '0D'H) received in state D2.	315
D2/D2_Improper/	P12_203	SUPPORT_VC_OR_PVC	Verify the IUT discards a Restart with an assigned LCI not equal to zero received in state D2.	315
D2/D2_Improper/	P12_204	SUPPORT_VC_OR_PVC	Verify the IUT discards a Restart Confirmation with an assigned LCI not equal to zero received in state D2.	315
D2/D2_Improper/	P12_205	SUPPORT_VC_OR_PVC	Verify the IUT resets a too short Reset Indication received in state D2.	316
D2/D2_Improper/	P12_206	SUPPORT_VC_OR_PVC	Verify the IUT resets a too long Reset Indication (one octet appended) received in state D2.	316
D2/D2_Improper/	P12_207	SUPPORT_VC_OR_PVC	Verify the IUT resets long Reset Confirmation packet (one octet appended) received in state D2.	317
D2/D2_Inopportune/	P12_301	SUPPORT_VC_OR_PVC	Verify the IUT discards an Interrupt packet received in state D2.	317
D2/D2_Inopportune/	P12_302	SUPPORT_VC_OR_PVC	Verify the IUT discards an Interrupt Confirmation packet received in state D2.	318
D2/D2_Inopportune/	P12_303	SUPPORT_VC_OR_PVC	Verify the IUT discards a Data packet received in state D2.	318
D2/D2_Inopportune/	P12_304	SUPPORT_VC_OR_PVC	Verify the IUT discards an RR packet received in D2.	318
D2/D2_Inopportune/	P12_305	SUPPORT_VC_OR_PVC	Verify the IUT discards an RNR packet received in D2.	319
D2/D2_Inopportune/	P12_306	SUPPORT_PVC_RESET	Verify the IUT discards an Incoming Call packet received on a PVC in state D2.	319
D2/D2_Inopportune/	P12_307	SUPPORT_PVC_RESET	Verify the IUT discards a Clear Indication packet received on a PVC in state D2.	319
D3/D3_Improper/	P13_201		Verify the IUT resets a too short packet (two octets) received in state D3.	320
D3/D3_Improper/	P13_202		Verify the IUT resets or discards an unidentifiable packet (PTI field equals '0D'H) received in state D3.	321
D3/D3_Improper/	P13_203		Verify the IUT resets a Restart with an assigned LCI not equal to zero received in state D3.	322
D3/D3_Improper/	P13_204		Verify the IUT resets a Restart Confirmation on an assigned LCI not equal to zero received in state D3.	322
D3/D3_Improper/	P13_205		Verify the IUT resets a too short Reset Indication (Cause field is NIL, Diagnostic field is NIL) received in state D3.	323
D3/D3_Improper/	P13_206		Verify the IUT resets a too long Reset Indication (one octet appended) received in state D3.	323
D3/D3_Improper/	P13_207		Verify the IUT resets a too long Reset Confirmation (one octet appended) received in state D3.	324

Table 8 (Page 15 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
D3/D3_Inopportune/	P13_301	SUPPORT_PVC	Verify the IUT discards a Reset Indication received in state D3.	324
D3/D3_Inopportune/	P13_302		Verify the IUT resets a Reset Confirmation received in state D3.	325
D3/D3_Inopportune/	P13_303		Verify the IUT resets an Interrupt packet received in state D3.	325
D3/D3_Inopportune/	P13_304		Verify the IUT resets an Interrupt Confirmation received in state D3.	326
D3/D3_Inopportune/	P13_305		Verify the IUT resets a Data packet received in state D3.	326
D3/D3_Inopportune/	P13_306		Verify the IUT resets an RR packet received in state D3.	327
D3/D3_Inopportune/	P13_307		Verify the IUT resets an RNR packet received in state D3.	327
D3/D3_Inopportune/	P13_308		Verify the IUT resets an Incoming Call packet received on a PVC in state D3.	328
D3/D3_Inopportune/	P13_309		Verify the IUT resets a Clear Indication received on a PVC in state D3.	328
I1/I1_Improper/	P14_201		Verify the IUT resets a too long Interrupt Confirmation (one octet appended) packet received in state I1.	329
I1/I1_Inopportune/	P14_301	SUPPORT_PVC	Verify the IUT resets an Interrupt Confirmation received in state I1.	330
I2/I2_Proper/	P15_101		Verify the IUT moves from state I2 to I1 when an Interrupt Confirmation is received in state I2.	331
I2/I2_Improper/	P15_201		Verify the IUT resets a too long Interrupt Confirmation packet received in state I2.	332
J1/J1_Proper/	P16_101		Verify the IUT confirms an Interrupt received in state J1.	333
J1/J1_Improper/	P16_201		Verify the IUT resets a too short Interrupt packet received in state J1.	333
J1/J1_Improper/	P16_202		Verify the IUT resets a too long Interrupt (1 or 32 octets appended) received in state J1.	334
J2/J2_Improper/	P17_201		Verify the IUT resets a too short Interrupt received in state J2.	335
J2/J2_Improper/	P17_202		Verify the IUT resets a too long Interrupt packet (1 or 32 octets appended) received in state J2.	335
J2/J2_Inopportune/	P17_301		Verify the IUT resets an Interrupt packet received in state J2.	336
F1/F1_Proper/	P18_101		Verify the IUT will accept a window of DATA packets received in state F1.	337
F1/F1_Proper/	P18_102	SEND_DATA	Verify the IUT accepts an RNR packet after receiving a window of Data packets in state F1.	337
F1/F1_Improper/	P18_201		Verify the IUT resets or discards a too long RR packet (one octet appended) received in state F1.	338
F1/F1_Improper/	P18_202		Verify the IUT resets or discards a too long RNR packet received in state F1.	339
F1/F1_Inopportune/	P18_301		Verify the IUT resets an RR with an invalid P(R) received in state F1.	340
F1/F1_Inopportune/	P18_302		Verify the IUT resets an RNR with an invalid P(R) received in state F1.	341
F2/F2_Proper/	P19_101		Verify the IUT accepts a RR packet received in state F2.	342

Table 8 (Page 16 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
F2/F2_Improper/	P19_201		Verify the IUT discards a too long RR packet (one octet appended) received in state F2.	343
F2/F2_Improper/	P19_202		Verify the IUT resets or discards a too long RNR packet (one octet appended) received in state F2.	344
F2/F2_Inopportune/	P19_301		Verify the IUT resets an RR with an invalid P(R) received in state F2.	345
F2/F2_Inopportune/	P19_302		Verify the IUT resets an RNR with an invalid P(R) received in state F2.	346
G1/G1_Proper/	P20_101		Verify the IUT is capable of receiving both values of the Q-bit received in state G1.	347
G1/G1_Proper/	P20_102		Verify the IUT can accept a Data packet with no user data received in state G1.	347
G1/G1_Improper/	P20_201		Verify the IUT discards, Rejects or Resets a too long Data packet received in state G1.	348
G1/G1_Improper/	P20_203		Verify the IUT discards, Reject or Resets a too long Data packet with the M-bit set, received in state G1.	349
G1/G1_Inopportune/	P20_301		Verify the IUT resets a Data packet with bad P(R) received in state G1.	350
G1/G1_Inopportune/	P20_302		Verify the IUT resets, rejects, or discards a Data packet with bad P(S) received in state G1.	351
G1/G1_Inopportune/	P20_308		Verify the IUT resets a Data packet with D-bit set, when Delivery Confirmation is not used in state G1.	352
DATA_TRANSFER/ DATA_TRANSFER_Proper/	P22_101	SEND_MORE	Verify the IUT can transmit full window of Data packets and observe the maximum window size.	353
DATA_TRANSFER/ DATA_TRANSFER_Proper/	P22_102	SEND_MORE	Verify the IUT will not send Data packets when the receiver (Tester) is in the Busy condition (RNR).	354
DATA_TRANSFER/ DATA_TRANSFER_Proper/	P22_105	SEND_THREE	Verify the IUT properly processes the sequence number modulo.	354
DATA_TRANSFER/ DATA_TRANSFER_Proper/	P22_106		Verify the IUT supports Data packets with the M-bit set.	355
DATA_TRANSFER/ DATA_TRANSFER_Improper/	P22_202	DR1_AND_ISO8208	Verify the IUT resets a Data packet with an M-bit violation received in state D1.	355
DATA_TRANSFER/ DATA_TRANSFER_Improper/	P22_203	RCV_DATA	Verify the IUT resets a Data packet with a changing Q bit.	356
DATA_TRANSFER/ DATA_TRANSFER_Improper/	P22_204	RCV_DATA	Verify the IUT resets or rejects a Data packet with invalid P(S) received in state D1.	356
TIMER/TIMER_Proper/	P23_101	NODISC	Verify T20 timer operation.	357
TIMER/TIMER_Proper/	P23_102	CALLOUT	Verify T21 timer operation.	358
TIMER/TIMER_Proper/	P23_103	STATE_D2	Verify T22 timer operation for VCs and PVCs.	359
TIMER/TIMER_Proper/	P23_105	VS	Verify T23 timer operation	360
TIMER/TIMER_Proper/	P23_107	D1T25	Verify T25 timer operation for VCs and PVCs.	361
TIMER/TIMER_Proper/	P23_108	D1T26	Verify T26 timer operation for VCs and PVCs.	362
TIMER/TIMER_Proper/	P23_109	D1T27	Verify T27 timer operation for VCs and PVCs.	363
TIMER/TIMER_Proper/	P23_110	R1T28	Verify T28 timer operation for VCs and PVCs.	364

Table 8 (Page 17 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
ADDRESS/ ADDRESS_Proper/	P24_101	INCACC	Verify the IUT accepts an Incoming Call with maximum called address length.	365
ADDRESS/ ADDRESS_Proper/	P24_102	INCACC	Verify the IUT accepts an Incoming Call with a valid calling and called address.	365
ADDRESS/ ADDRESS_Improper/	P24_202	EDVER	Verify the IUT clears an Incoming call packet with an invalid called address.	366
ADDRESS/ ADDRESS_Improper/	P24_203	INGVER	Verify the IUT clears an Incoming Call packet with an invalid calling address.	366
FACILITY/ FACILITY_Proper/	P25_101	FSINC	Verify the IUT supports fast select acceptance with no restriction on response.	367
FACILITY/ FACILITY_Proper/	P25_102	FSINC	Verify the IUT supports fast select acceptance with restriction on response.	367
FACILITY/ FACILITY_Proper/	P25_103	FSOUT	Verify the IUT accepts a Call Accept with user data, no restriction on response.	368
FACILITY/ FACILITY_Proper/	P25_104	FSOUT1	Verify the IUT supports a Clear Indication with user data ≤ 128 octets, no restriction on response.	368
FACILITY/ FACILITY_Proper/	P25_105	FSOUT2	Verify the IUT can handle a Call Request and Clear Request exchange with user data, restriction on response is supported.	369
FACILITY/ FACILITY_Proper/	P25_106	FSOUT2	Verify the IUT clears a Call Connected packet with user data when restriction on response is in effect.	369
FACILITY/ FACILITY_Proper/	P25_107	DTHRIN	Verify the IUT supports an Incoming Call with default throughput class.	370
FACILITY/ FACILITY_Proper/	P25_108	DTHROUT	Verify the IUT supports a Call Request with default throughput class.	370
FACILITY/ FACILITY_Proper/	P25_109	PSZD	Verify the IUT supports an Incoming Call with default packet size.	371
FACILITY/ FACILITY_Proper/	P25_110	DWIN	Verify the IUT supports an Incoming Call with default window size.	371
FACILITY/ FACILITY_Proper/	P25_111	TRD	Verify the IUT supports an Incoming Call with Transit Delay indication.	372
FACILITY/ FACILITY_Proper/	P25_112	BCUGIN	Verify the IUT accepts an Incoming Call with Closed User Group < 100 .	372
FACILITY/ FACILITY_Proper/	P25_113	ECUG	Verify the IUT accepts an Incoming Call with CUG > 99 and CUG < 10000 .	372
FACILITY/ FACILITY_Proper/	P25_114	BICUG	Verify the IUT accepts a Call with Bilateral CUG.	373
FACILITY/ FACILITY_Proper/	P25_115	RC	Verify the IUT accepts a call with Reverse Charging facility.	373
FACILITY/ FACILITY_Proper/	P25_116	AEF	Verify the IUT accepts a call using the CCITT-Specified DTE Calling and Called Address Extension Facility.	373
FACILITY/ FACILITY_Improper/	P25_201	S2	Verify the IUT clears an Incoming Call packet with facility length greater than 109.	374
FACILITY/ FACILITY_Improper/	P25_202	S2	Verify the IUT clears an Incoming Call packet with no facility field.	374
FACILITY/ FACILITY_Improper/	P25_203	PSZD	Verify the IUT clears an Incoming Call packet with facility parameter not allowed.	375
FACILITY/ FACILITY_Improper/	P25_204	S2	Verify the IUT clears an Incoming Call packet with call duration.	375
FACILITY/ FACILITY_Improper/	P25_205	BCUGOUT	Verify the IUT clears a Call Connected packet containing Closed User Group (CUG).	376
FACILITY/ FACILITY_Improper/	P25_206	VS	Verify the IUT clears a Clear Indication containing flow control parameter negotiation.	377

Table 8 (Page 18 of 19). Test Case Index

Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
FACILITY/ FACILITY_Improper/	P25_207	INCACC	Verify the IUT clears an Incoming Call packet with facilities length shorter than specified, answer initial Clear with a Clear Confirm with Reverse Charging facility.	378
FACILITY/ FACILITY_Improper/	P25_208	INCACC	Verify the IUT clears an Incoming Call with facility code 'FE'H.	379
FACILITY/ FACILITY_Improper/	P25_209	INCACC	Verify the IUT clears a Clear Indication with facility code 'FE'H.	379
REGISTRATION/ REGISTRATION_Proper/	P26_101	REGDB	Verify the IUT registers D-Bit modification.	380
REGISTRATION/ REGISTRATION_Proper/	P26_102	REGPR	Verify the IUT registers Packet Retransmission.	380
REGISTRATION/ REGISTRATION_Proper/	P26_103	REGEPS	Verify the IUT registers Extended Packet sequence numbering.	381
REGISTRATION/ REGISTRATION_Proper/	P26_104	REGCI	Verify the IUT supports the Charging Information Facility (Per-Interface basis).	381
REGISTRATION/ REGISTRATION_Proper/	P26_105	REGTC	Verify the IUT registers Throughput class negotiation.	382
REGISTRATION/ REGISTRATION_Proper/	P26_106	REGFC	Verify the IUT registers Flow Control negotiation.	382
REGISTRATION/ REGISTRATION_Proper/	P26_107	REGRC	Verify the IUT registers Reverse Charging facility.	383
REGISTRATION/ REGISTRATION_Proper/	P26_108	REGFSA	Verify the IUT registers Fast Select acceptance.	383
REGISTRATION/ REGISTRATION_Proper/	P26_109	REGOCB	Verify the IUT registers outgoing calls barred facility.	384
REGISTRATION/ REGISTRATION_Proper/	P26_110	REGICB	Verify the IUT registers Incoming Calls Barred.	384
REGISTRATION/ REGISTRATION_Proper/	P26_111	REGDTC	Verify the IUT registers Default Throughput Class.	385
REGISTRATION/ REGISTRATION_Proper/	P26_112	REGNPS	Verify the IUT registers Non-standard Default Packet Size.	385
REGISTRATION/ REGISTRATION_Proper/	P26_113	REGNWS	Verify the IUT registers Nonstandard Default Window size.	386
MULTIPLE_LCI/ MULTIPLE_LCI_Proper/	P27_101	MOU1	Verify the IUT can set up multiple outgoing calls.	387
MULTIPLE_LCI/ MULTIPLE_LCI_Proper/	P27_102	MOU1	Verify the IUT can set up and clear multiple outgoing calls.	387
MULTIPLE_LCI/ MULTIPLE_LCI_Proper/	P27_103	MINC	Verify the IUT can accept multiple incoming calls.	388
DTE_TO_DTE/ DTE_TO_DTE_Proper/	P28_101	DTEDTE1	Verify the IUT acts as a DTE during call collision.	389
DTE_TO_DTE/ DTE_TO_DTE_Proper/	P28_102	DTEDTE2	Verify the IUT acts as a DCE when sent a Restart with Cause Code DTE originated.	389
DTE_TO_DTE/ DTE_TO_DTE_Proper/	P28_103	DTEDTE3	Verify the IUT can handle a Restart collision with a Restart containing Cause Code DTE originated.	390
DTE_TO_DTE/ DTE_TO_DTE_Proper/	P28_104	DTEDTE4	Verify the IUT acting as a DTE clears or ignores a Call packet with a facility code not applicable to DTE/DTE operation.	390
DTE_TO_DTE/ DTE_TO_DTE_Proper/	P28_105	DTEDTE5	Verify the IUT acting as a DTE accepts a Registration Request and issues a Restart Request.	391
DTE_TO_DTE/ DTE_TO_DTE_Proper/	P28_106	DTEDTE6	Verify the IUT acting as a DTE handles Registration Request collision.	391
DTE_TO_DTE/ DTE_TO_DTE_Proper/	P28_107	DTEDTE7	Verify the IUT retransmits a Data packet upon receipt of a Reject Request.	392

Table 8 (Page 19 of 19). Test Case Index				
Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DTE_TO_DTE/ DTE_TO_DTE_Proper/	P28_108	DTEDTE8	Verify the IUT acting as a DCE accepts a Clear with cause code DTE originated.	392

7.3 Test step index

Table 9 (Page 1 of 4). Test Step Index			
Test Step Group Reference	Test Step Id	Description	Page Nr
PREAMBLE/	D1_PVC_PREAMBLE	Put the IUT into state D1, only used for PVC logical channels.	393
PREAMBLE/	D1_PVC_PREAMBLE_SUBTREE	Local sub-tree for test step D1_PVC_PREAMBLE.	393
PREAMBLE/	D2_PREAMBLE	Put the IUT into state D2 DTE Reset Request.	394
PREAMBLE/	P1_PREAMBLE	Put the IUT in state P1.	394
PREAMBLE/	P1_PREAMBLE_SUBTREE	Local sub-tree for test step P1_PREAMBLE.	395
PREAMBLE/	P2_PREAMBLE	Put the specified channel in DTE Call Request state P2.	395
PREAMBLE/	P4D1_PREAMBLE	Put the Logical Channel in to the Data Transfer state P4 (D1).	396
PREAMBLE/	P4D1_PREAMBLE_SUBTREE1	Local sub-tree for test step P4D1_PREAMBLE.	396
PREAMBLE/	P4D1_PREAMBLE_SUBTREE2	Local sub-tree for test step P4D1_PREAMBLE.	397
PREAMBLE/	P4D1_PREAMBLE_A	Put the Logical Channel in to the Data Transfer state P4 (D1), but do not negotiate use of Delivery Confirmation	397
PREAMBLE/	P4D1_PREAMBLE_A_SUBTREE1	Local sub-tree for test step P4D1_PREAMBLE_A.	398
PREAMBLE/	P4D1_PREAMBLE_A_SUBTREE2	Local sub-tree for test step P4D1_PREAMBLE_A.	398
PREAMBLE/	P5_PREAMBLE	Put the IUT in the Call Collision state P5.	399
PREAMBLE/	P6_PREAMBLE	Put the channel (LCI) in state P6 DTE Clear Request.	399
PREAMBLE/	R1_PREAMBLE	Put the IUT into state R1 Ready and assign a logical channel to the test case variable LC based on the type of logical channel requested in the "type" parameter.	399
PREAMBLE/	R2_PREAMBLE	Put the IUT into state R2.	400
POSTAMBLE/	D1_POSTAMBLE	Verify the IUT is in state D1.	401
POSTAMBLE/	D2_POSTAMBLE	Verify the IUT is in state D2.	401
POSTAMBLE/	GEN1_POSTAMBLE	General postamble used after receipt of a CLEAR from the IUT.	401
POSTAMBLE/	GEN2_POSTAMBLE	General postamble used after the receipt of a RESTART from the IUT.	402
POSTAMBLE/	P2_POSTAMBLE	Verify the IUT is in state P2.	402
POSTAMBLE/	P4_POSTAMBLE	Verify the IUT is in state P4.	402
POSTAMBLE/	P6_POSTAMBLE	Verify the IUT is in state P6 after the test body has successfully completed.	403
POSTAMBLE/	R1_POSTAMBLE	Verify IUT is in state R1 for VCs and D1 for PVCs.	404
POSTAMBLE/	R2_POSTAMBLE	For test cases that leave the IUT in state R2 after the test body has completed, R2_POSTAMBLE will move the IUT to the stable state R1.	404
COMMON_SUBTREE/	ASSIGNMENT	Local sub-tree used in test step ASSIGN_DTE and ASSIGN_DCE.	405
COMMON_SUBTREE/	ASSIGN_DCE	Assign a value to the test case variable LC, LCGN, LCN based on the requested Logical Channel TYPE.	405
COMMON_SUBTREE/	ASSIGN_DTE	Assign a value to the test case variables LC, LCGN, LCN based on the requested Logical Channel TYPE. Assignment is done if the tester were acting as a DTE.	406
COMMON_SUBTREE/	CLR_UNEXPECTED	Handle an unexpected Clear packet.	406
COMMON_SUBTREE/	D1A_UNEXPECTED	Handle any acceptable but unexpected packets received from the IUT while in Data Transfer (D1).	407
COMMON_SUBTREE/	D1B_UNEXPECTED	Handle any acceptable but unexpected packets received from the IUT while in Data Transfer (D1), excluding Interrupt packets.	407
COMMON_SUBTREE/	D1C_UNEXPECTED	Handle any acceptable but unexpected packets received while the IUT is in Data Transfer (D1), excluding Reset packets.	408

Table 9 (Page 2 of 4). Test Step Index

Test Step Group Reference	Test Step Id	Description	Page Nr
COMMON_SUBTREE/	D1_UNEXPECTED	Handle any acceptable but unexpected packets received from the IUT while in state D1, excluding Reset and Reject packets.	408
COMMON_SUBTREE/	D3_UNEXPECTED	Handles any unexpected responses from the IUT immediately after the IUT has been put into state D3. State D3 DXE Reset Request is a transient state.	409
COMMON_SUBTREE/	D_STATE_CLR	When a Clear is received from an IUT in a D state (D1, D2, D3, I1, I2, J1, J2, F1, F2) the verification step must use R1_POSTAMBLE.	409
COMMON_SUBTREE/	D_STATE_RES	When a Restart is received from an IUT in a D state (D1, D2, D3, I1, I2, J1, J2, F1, F2) the verification step uses R1_POSTAMBLE if the Logical Channel is a VC or D1_POSTAMBLE if the Logical Channel is a PVC.	409
COMMON_SUBTREE/	EXCH_DAT	If the IUT can receive and transmit data then send one data packet to the IUT and request the IUT to send one data packet. If the IUT is a send only IUT then request the IUT to send one data packet. If the IUT is a receive only IUT then send the IUT one data packet.	410
COMMON_SUBTREE/	EXCH_DAT_EMPTY	Send the IUT the sequence of Data packets defined in PIXIT question 2.16 in order to test for the handling of an empty Data packet.	410
COMMON_SUBTREE/	EXCH_DAT_MBIT	Send the IUT the sequence of Data packets defined in PIXIT question 2.17 in order to test for support of the M-bit.	411
COMMON_SUBTREE/	EXCH_DAT_NOACK	If the IUT can receive and transmit data then send one data packet to the IUT and request the IUT to send one data packet. If the IUT is a send only IUT then request the IUT to send one data packet. Do not acknowledge receipt of Data packets from the IUT.	411
COMMON_SUBTREE/	EXCH_DAT_QBIT	Send the IUT the sequence of Data packets defined in PIXIT question 2.14 in order to test for correct error handling of a changing Q-bit.	412
COMMON_SUBTREE/	EXCH_DAT_QBIT_A	Send the IUT the sequence of Data packets defined in PIXIT question 2.15 in order to test for support of the Q-bit.	412
COMMON_SUBTREE/	INITDTE	Put the IUT into state R1.	413
COMMON_SUBTREE/	IUT_TX_DATA	Request the IUT to transmit one Data packet.	414
COMMON_SUBTREE/	J2_UNEXPECTED	Handle unexpected packets from the IUT while in state J2.	414
COMMON_SUBTREE/	LC_VERIFY	Verify that the received logical channel is not already in use.	414
COMMON_SUBTREE/	P1_INOPP	Handles the response to INOPPORTUNE packets sent to the IUT while in state P1.	415
COMMON_SUBTREE/	P2_INOPP	Handles the response to inopportune packets sent to the IUT while in state P2.	415
COMMON_SUBTREE/	P3_INOPP	Handles the response to inopportune packets sent to the IUT while in state P3.	415
COMMON_SUBTREE/	P3_UNEXPECTED	Handle unexpected packets received from the IUT while in state P3.	416
COMMON_SUBTREE/	P5_INOPP	Handles the response to inopportune packets sent to the IUT while in state P5.	416
COMMON_SUBTREE/	P7_UNEXPECTED	Handles any unexpected responses from the IUT immediately after the IUT has been put in state P7.	416
COMMON_SUBTREE/	PVC_RESET	Verify IUT is in state R1 for VCs and D1 for PVCs.	417
COMMON_SUBTREE/	R3_UNEXPECTED	Handle unexpected packets from the IUT received while the IUT is in state R3 (DXE Restart Request).	417
COMMON_SUBTREE/	RSET_UNEXPECTED	Handle an unexpected Reset packet.	417

Table 9 (Page 3 of 4). Test Step Index

Test Step Group Reference	Test Step Id	Description	Page Nr
COMMON_SUBTREE/	RSTRT_UNEXPECTED	An unexpected Restart Request will be responded to with a Restart Confirmation and the test case will give an inconclusive verdict.	417
COMMON_SUBTREE/	RX_DATA	Wait for one or more Data packets to arrive from the IUT or the expiration of time TD, discard any RR's received before the Data packet arrives.	418
COMMON_SUBTREE/	RX_DATA_QBIT	Wait for one or more Data packets to arrive from the IUT or the expiration of time TD, discard any RR's received before the Data packet arrives.	419
COMMON_SUBTREE/	RX_INTERRUPT	Receive an Interrupt packet of length 1 to 32 octets based on type of IUT.	420
COMMON_SUBTREE/	TX_DATA	Transmit a Data packet to the IUT.	420
COMMON_SUBTREE/	TX_DATA_EMPTY	Transmit a Data packet to the IUT.	421
COMMON_SUBTREE/	TX_DATA_MBIT	Transmit a Data packet to the IUT from the user supplied Data packets for testing M-bit support.	422
COMMON_SUBTREE/	TX_DATA_NOACK	Transmit a Data packet to the IUT but do not acknowledge any received data packets.	423
COMMON_SUBTREE/	TX_DATA_QBIT	Transmit a Data packet to the IUT from the user supplied Data packets for testing Q-bit error handling.	424
COMMON_SUBTREE/	TX_DATA_QBIT_A	Transmit a Data packet to the IUT from the user supplied Data packets for testing Q-bit support.	425
LOCAL_SUBTREE/	P1_210_SUBTREE	Local sub-tree for P1_210	426
LOCAL_SUBTREE/	P1_210_SUBTREE1	Local sub-tree for P1_210	427
LOCAL_SUBTREE/	P1_210_SUBTREE2	Local sub-tree for P1_210	428
LOCAL_SUBTREE/	P2_214_SUBTREE	Local sub-tree for P2_214	428
LOCAL_SUBTREE/	P2_214_SUBTREE1	Local sub-tree for P2_214	429
LOCAL_SUBTREE/	P2_214_SUBTREE2	Local sub-tree for P2_214	430
LOCAL_SUBTREE/	P3_214_SUBTREE	Local sub-tree for P3_214	431
LOCAL_SUBTREE/	P3_214_SUBTREE1	Local sub-tree for P3_214	432
LOCAL_SUBTREE/	P3_214_SUBTREE2	Local sub-tree for P3_214	432
LOCAL_SUBTREE/	P3_214_SUBTREE_BEGIN	Local sub-tree of P3_214	432
LOCAL_SUBTREE/	P4_206_SUBTREE	Local sub-tree for P4_206	433
LOCAL_SUBTREE/	P4_207_SUBTREE	Local sub-tree for P4_207	433
LOCAL_SUBTREE/	P5_206_SUBTREE	Local sub-tree for P5_206	434
LOCAL_SUBTREE/	P5_207_SUBTREE	Local sub-tree for P5_206	434
LOCAL_SUBTREE/	P6_206_SUBTREE	Local sub-tree for P6_206	435
LOCAL_SUBTREE/	P6_207_SUBTREE	Local sub-tree for P6_207	435
LOCAL_SUBTREE/	P7_202_SUBTREE	Local sub-tree for P7_202	436
LOCAL_SUBTREE/	P7_203_SUBTREE	Local sub-tree for P7_203	436
LOCAL_SUBTREE/	P8_206_SUBTREE	Local sub-tree for P8_206	437
LOCAL_SUBTREE/	P8_207_SUBTREE	Local sub-tree for P8_207	437
LOCAL_SUBTREE/	P8_210_SUBTREE	Local sub-tree for P8_210	438
LOCAL_SUBTREE/	P9_206_SUBTREE	Local sub-tree for P9_206	438
LOCAL_SUBTREE/	P9_207_SUBTREE	Local sub-tree for P9_207	438
LOCAL_SUBTREE/	P9_210_SUBTREE	Local sub-tree for P9_210	439
LOCAL_SUBTREE/	P10_206_SUBTREE	Local sub-tree for P10_206	439
LOCAL_SUBTREE/	P10_207_SUBTREE	Local sub-tree for P10_207	440
LOCAL_SUBTREE/	P11_103_SUBTREE	Local sub-tree for P11_103	440
LOCAL_SUBTREE/	P16_202_SUBTREE	Local sub-tree for P16_202	441
LOCAL_SUBTREE/	P17_202_SUBTREE	Local sub-tree of P17_202	441