INTERNATIONAL STANDARD

ISO/IEC 8882-3

First edition
1991-12-01

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'informations entre systèmes — Tests de conformité à X.25 des ETTD —

Partie 3: Suite de tests de conformité pour le niveau paquet

Reference number
ISO/IEC 8882-3 : 1991 (E)

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

Contents

Page

Foreword iii

Introduction iv

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
4 Abbreviations 3
5 Conformance 3
6 Test suite information 3
6.1 Packet layer test suite structure 3
6.2 Packet layer initialization 4
6.3 DTE-initiated actions 6
6.4 Timer definitions 6
6.5 Cause codes and diagnostic codes 6
6.6 Data transfer states 7
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 PIXIT proforma 8
6.12 Acceptable unexpected responses 23
6.13 Implicit send 23
6.14 Basic interconnection tests 23
7 TTCN abstract test suite 25
8 Use of the PICS and PIXIT based abstract test selection rules 550
8.1 Packet layer group selection based on service 550

Annex A Test summary tables 678

© ISO/IEC 1991
All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

ISO/IEC Copyright Office • Case postale 56 • CH-1211 Genève 20 • Switzerland
Printed in Switzerland

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

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 of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in 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 JTC 1. 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 JTC 1, *Information technology*.

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 test suite*
- *Part 3: Packet layer conformance test suite*

Annex A forms an integral part of this part of ISO/IEC 8882.

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

Introduction

This part of ISO/IEC 8882 specifies a set of tests to evaluate Data Terminal Equipment (DTE) conformance to International Standards ISO 7776 (X.25 LAPB) and/or ISO 8208 (X.25 Packet Layer). ISO 7776 and ISO 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 7776 and/or ISO 8208. ISO 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 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.

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

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

Part 3:
Packet layer conformance test suite

1 Scope

This International Standard 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 International Standard

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 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 indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7498 : 1984, *Information processing systems — Open Systems Interconnection — Basic Reference Model.*

ISO 7776 : 1986, *Information processing systems — Data communications — 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. 3 : 1991, *Information technology — Data communications — X.25 Packet Layer Protocol for Data Terminal Equipment*
Addendum 3: Conformance requirements.

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

ISO/IEC 9646-1 : 1991[1)], *Information technology — Open Systems Interconnection — Conformance testing methodology and framework —*
Part 1: General concepts.

1) To be published.

AVA Documents Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

ISO/IEC 9646-2 : 1991 [1], *Information technology — Open Systems Interconnection — Conformance testing methodology and framework — Part 2: Abstract test suite specification.*

ISO/IEC DIS 9646-3 : 1991 [1], *Information technology — Open Systems Interconnection — Conformance testing methodology and framework — Part 3: Tree and tabular combined notation.*

ISO/IEC 9646-4 : 1991 [1], *Information technology — Open Systems Interconnection — Conformance testing methodology and framework — Part 4: Test realization.*

ISO/IEC 9646-5 : 1991 [1], *Information technology — Open Systems Interconnection — Conformance testing methodology and framework — Part 5: Requirements on test laboratories and clients for the conformance assessment process.*

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

CCITT Recommendation X.25 (1984), *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.*

3 Definitions

3.1 Reference model definitions

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

(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

Documents
Document Sharing Hub
Full document details: ISO_IEC 8882-3_1991

A packet that is an inopportune PDU.

4 Abbreviations

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

ADX Address

ATS Abstract Test Sute

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

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

2) This group has been deleted but the number has been retained for consistency.

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

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 8208, 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 8208 over ISO 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 figure 1.

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 figure 2.

Figure 1

Test Case Dynamic Behaviour				
Reference: Example Test Step / Packet Layer Initialization Identifier: EG_001 Objective: An example test step illustrating Packet Layer Initialization Default Reference:				
Behaviour Description	Label	Constraints Reference	V	Comments
EG_001 **!RESTART START TD** **?RESTARTC CANCEL TD** **?RESTART CANCEL TD** **?TIMEOUT TD** **?OTHERWISE CANCEL TD**		**STRT_DCE** **STRTC** **STRT_DTEA**	 **F** **F**	**1** **TD expired**
Extended Comments: 1) the Restart is sent upon successful initialization of the Data Link Layer				

Full document details: ISO_IEC 8882-3_1991

Figure 2

Test Case Dynamic Behaviour

Reference: Example Test Step / Packet Layer Initialization / Link Layer Initialization
Identifier: EG_002
Objective: An example test step illustrating Packet Layer Initialization that includes Data Link Layer Initialization
Default Reference:

Behaviour Description	Label	Constraints Reference	V	Comments
EG_002 [L,D]				
L!RESTART START TD		**STRT_DCE**		
L?RESTARTC START TD		**STRTC**		
D?DISC CANCEL TD		**DISC_1**		**wait for disc**
+LINK_INIT				
L?TIMEOUT TD			**F**	
L?RESTART START TD		**STRT_DTEA**		
D?DISC CANCEL TD		**DISC_1**		
+LINK_INIT				
L?TIMEOUT TD			**F**	**TD expired**
L?TIMEOUT TD			**F**	**TD expired**
L?OTHERWISE CANCEL TD			**F**	
LINK_INIT				
D!UA		**UA_DCE**		**send UA**
D?SABM		**SABM_1**		**wait for SABM**
D!UA		**UA_DCE**		**send UA**
L!RESTART START TD		**STRT_DCE**		
L?RESTARTC CANCEL TD		**STRTC**		
L?RESTART CANCEL TD		**STRT_DTEA**		
L?TIMEOUT TD			**F**	
L?OTHERWISE CANCEL TD			**F**	

Extended Comments:
L is the PCO at the Tester (Packet Layer) to Link Layer interface.
D is the PCO at the Link Layer to Physical interface.
This example uses the Multi-layer testing method, the Packet Layer Test Suite only uses the Remote Single-layer testing method.

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

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.

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 sutie parameter TC_DELAY;

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 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.

TD_RESP - is 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 paramter 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 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 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.

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

In such instances any one of the possible diagnostic codes shall be accepted.

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 rotation 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. Table 5 maps the PICS items to the test cases which they affect.

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. Table

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

6 describes the relationship of the PIXIT to the test suite. The table lists the question numbers specified in the PIXIT, and maps them to the test cases which they affect.

6.11 PIXIT proforma

Information supplied by the IUT provider in table 2 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.

Documents
Document Sharing Hub
Full document details: ISO_IEC 8882-3_1991

PIXIT PROFORMA

Table 2 — PIXIT PROFORMA

General Information

IUT Type

1.1 Indicate the protocol to be tested, select only one of the following;

a)	ISO 8208	(ISO)	yes / no
b)	CCITT X.25 1984	(CCITT_84)	yes / no
c)	CCITT X.25 1980	(CCITT_80)	yes / no

1.2 State whether the IUT is capable of sending data and/or receiving data.

a)	sending	(IUT_TX)	yes / no
b)	receiving	(IUT_RX)	yes / no

Logical Channel Configuration

1.3 Range of PVC Logical Channel Identifier(s) (must be less than or equal to PICS item LC7)

(LPV) _____ to (HPV) _____

1.4 Range of SVC Logical Channel Identifier(s) (must be within the ranges specified in the PICS items LC1 through LC6)

a)	One-way incoming	(LIC)	_____	to (HIC)	_____	Note 1
b)	One-way outgoing	(LOC)	_____	to (HOC)	_____	Note 1
c)	Two-way	(LTC)	_____	to (HTC)	_____	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) _____ Note 9

1.6 Indicate a logical channel to be used for logical channel unassigned testing.

(LUC) _____

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) _____

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) _____

AVA Documents Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

Flow Control Information

1.9 Window sizes

a) Indicate the default window size to be used during test execution. This value is used for both transmit and receive windows (shall be in range of PICS items V2s and V2r).

(DEF_WIN_SZ) _____

b) Indicate a nonstandard default window size to be used during test execution. This value is used for both transmit and receive windows.

(NS_DEF_WIN_SZ) _____

NOTE — the NS_DEF_WIN_SZ is a string of four hexidecimal digits representing the two octet facility parameter field for both the transmit and receive nonstandard default window sizes.

c) Provide the integer value of the nonstandard default window size given in 1.9b above.

(NS_DEF_WIN_SZ_NUM) _____

1.10 Packet sizes

Indicate a nonstandard default packet size to be used during test execution. This value is used for both transmit and receive packet sizes.

(NS_DEF_PKT_SZ) _____

NOTE — the NS_DEF_PKT_SZ is a string of four hexidecimal digits representing the two octet facility parameter field for both the transmit and receive nonstandard default packet sizes.

1.11 Indicate maximum flow control packet size. (MAX_PKT_SZ) ____

1.12 Indicate the modulo to be used for testing. (SEQ_MODULO) 8 / 128 ____

Documents
Document Sharing Hub
Full document details: ISO_IEC 8882-3_1991

PIXIT PROFORMA

IUT Behaviour

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? yes / no

1.17 Will the IUT send at least three data packets more than its modulo size? yes / no

Timers

1.18 State the time required by the IUT to resume testing after completion of the following procedures:

a)	Restart	(TR_DELAY)	_____	Note 3
b)	Clear	(TC_DELAY)	_____	Note 3
c)	Reset	(TS_DELAY)	_____	Note 3

1.19 Enter the values used by the IUT for the following timers:

a)	(T20)	_____	Note 3
b)	(T21)	_____	Note 3
c)	(T22)	_____	Note 3
d)	(T23)	_____	Note 3
e)	(T24)	_____	Note 3
f)	(T25)	_____	Note 3
g)	(T26)	_____	Note 3
h)	(T27)	_____	Note 3

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

i) (T28) _____ Note 3

1.20 State the maximum time the tester should wait for an immediate response from the IUT to a tester stimulus, see clause 6.4.

(TD_RESPONSE) _____ Note 3

1.21 State the delta value to be added to timers used by the Tester, see clause 6.4.

(TDELTA) _____ Note 3

1.22 For R3, P3, D3, P7, J2 give the minimum and maximum time that the IUT remains in these states.

a) R3 (TO_DELAY_R3_MIN) _____ Note 3, 7
(TO_DELAY_R3_MAX) _____

b) P3 (TO_DELAY_P3_MIN) _____ Note 3, 7
(TO_DELAY_P3_MAX) _____

c) D3 (TO_DELAY_D3_MIN) _____ Note 3, 7
(TO_DELAY_D3_MAX) _____

d) P7 (TO_DELAY_P7_MIN) _____ Note 3, 7
(TO_DELAY_P7_MAX) _____

e) J2 (TO_DELAY_J2_MIN) _____ Note 3, 7
(TO_DELAY_J2_MAX) _____

1.23 The time that the tester will use in most test cases when waiting for a response from the IUT will be a function of the following formula and assigned to the timer type TD.

(TD_WAIT_TIME) = 2 * TD_REPONSE +
the maximum value of (TO_DELAY_R3_MAX,
TO_DELAY_P3_MAX, TO_DELAY_D3_MAX,
TO_DELAY_P7_MAX, TO_DELAY_J2_MAX)

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

PIXIT PROFORMA

Packet Specific Information

Call Setup Information

2.1 a) Is the Calling DTE address in an Incoming Call packet verified? yes / no

b) If yes, indicate an unacceptable address and address length which can be sent by the Tester.

(TST_ADDR_INV) _____

(TST_ADDR_INVL) _____

c) Is the Called DTE address in an Incoming Call packet verified? yes / no

d) If yes, indicate an unacceptable address and address length which can be sent by the Tester.

(IUT_ADDR_INV) _____

(IUT_ADDR_INVL) _____

2.2 For each of the following packets indicate the value of the field and its length expected by the IUT.

	Calling Address	Called Address
a) Incoming Call		
(TST_ADDR1) / (IUT_ADDR1)	_____	_____
(TST_ADDR1_L) / (IUT_ADDR1_L)	_____	_____
b) Call Connected		
(TST_ADDR2) / (IUT_ADDR2)	_____	_____ Note 4
(TST_ADDR2_L) / (IUT_ADDR2_L)	_____	_____

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

2.3 For each of the following packets indicate the value of the field transmitted by the IUT.

	Calling Address	Called Address	
a) Call Request			
(IUT_ADDR5)	_____	(TST_ADDR5) _____	
(IUT_ADDR5_L)	_____	(TST_ADDR5_L) _____	
b) Call Accepted			
(IUT_ADDR6)	_____	(TST_ADDR6) _____	Note 4
(IUT_ADDR6_L)	_____	(TST_ADDR6_L) _____	

2.4 Specify a maximum length address supported by the IUT.

(IUT_ADDR_MAX) _____

(IUT_ADDR_MAXL) _____

2.5 Indicate the addresses and facilities and lengths to be used in the CCITT - Specified DTE facility for called and calling address extension.

a) the address and length for the Address Field contained in the Incoming Call packet only;

	Calling Address	Called Address
(TST_AF)	_____	(IUT_AF) _____
(TST_AF_L)	_____	(IUT_AF_L) _____

b) 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;

(F_NONX25) _____

(F_NONX25_L) _____

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.

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

PIXIT PROFORMA

c) 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;

(F_AE) _____

(F_AE_L) _____

NOTE — the F_AE string of facilities includes; facility marker '000F'H, facility code 'C9'H, called address length, called address.

Facilities

2.6 a) Is the fast select facility always used? (FAST_SELECT) yes / no

If yes, the fast select facility must be included in the answers to question 2.7.

b) Does the IUT require more than one facility to be present in an Incoming Call packet?

yes / no Note 8

c) Does the IUT transmit more than one facility in a Call Request packet?

yes / no Note 8

d) Provide a string of 110 octets of facility information to be sent to the IUT.

(FACS_110) _____ Note 10

_____

2.7 Provide the facilities, facility length and user data to be used in each of the following packets.

a) Incoming Call packet received by the IUT

(CALL_IND_F) _____ Note 10
(CALL_IND_FL) _____
(CALL_IND_UD) _____

b) Call Request packet transmitted by the IUT

(CALL_REQ_F) _____ Note 10

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

(CALL_REQ_FL) _____
(CALL_REQ_UD) _____

c) Call Connected packet received by the IUT

(CALL_CON_F) _____ Note 10
(CALL_CON_FL)_____
(CALL_CON_UD)_____

d) Call Accept packet transmitted by the IUT

(CALL_ACC_F) _____ Note 10
(CALL_ACC_FL)_____
(CALL_ACC_UD)_____

e) Clear Indication packet received by the IUT

(CLR_IND_F) _____ Note 10
(CLR_IND_FL) _____
(CLR_IND_UD) _____

f) Clear Request packet transmitted by the IUT

(CLR_REQ_F) _____ Note 10
(CLR_REQ_FL) _____
(CLR_REQ_UD) _____

g) Clear Confirmation packet received by the IUT

(CLC_RX_F) _____ Note 10
(CLC_RX_FL) _____

h) Clear Confirmation packet transmitted by the IUT

(CLC_TX_F) _____ Note 10
(CLC_TX_FL) _____

2.8 a) Provide a number to be used for Basic CUG? (BCUG_NUM) ____

b) Provide a number to be used for extended CUG? (ECUG_NUM) ____

c) Provide a number to be used for bilateral CUG? (BICUG_NUM) ____

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

PIXIT PROFORMA

2.9 Indicate the default throughput class. (DEF_THRUPT) ____

2.10 Indicate a throughput class that is different from the default throughput class.

(THRUPT) ____

2.11 Indicate the Transit Delay value to be used.

(TRNS_DELAY_1) first octet _____

(TRNS_DELAY_2) second octet _____

2.12 Provide the Network User Identification facility length and facilities.

(F_NUI)_____

(F_NUI_L)_____

Data Packet Information

2.13 Specify the Q, D-bit, and M-Bit settings and data contents of the first nine data packets which the IUT will received (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.

(UD_0) Q= , D= , M= _____

(UD_1) Q= , D= , M= _____

(UD_2) Q= , D= , M= _____

(UD_3) Q= , D= , M= _____

(UD_4) Q= , D= , M= _____

(UD_5) Q= , D= , M= _____

(UD_6) Q= , D= , M= _____

(UD_7) Q= , D= , M= _____

(UD_8) Q= , D= , M= _____

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

(UD_U) Q= , D= , M= _____ Note 5

2.14 Specify a sequence of Data packets no 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).

(UDQ0) Q= , D= , M= _____

(UDQ1) Q= , D= , M= _____

(UDQ2) Q= , D= , M= _____

(UDQ3) Q= , D= , M= _____

(UDQ4) Q= , D= , M= _____

(UDQ5) Q= , D= , M= _____

(UDQ6) Q= , D= , M= _____

(UDQ7) Q= , D= , M= _____

(UDQ8) Q= , D= , M= _____

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).

(UDQ0A) Q= , D= , M= _____

(UDQ1A) Q= , D= , M= _____

(UDQ2A) Q= , D= , M= _____

(UDQ3A) Q= , D= , M= _____

(UDQ4A) Q= , D= , M= _____

(UDQ5A) Q= , D= , M= _____

(UDQ6A) Q= , D= , M= _____

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

PIXIT PROFORMA

(UDQ7A) Q= , D= , M= _____

(UDQ8A) Q= , D= , M= _____

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).

(UDE0) Q= ,D= ,M= _____

(UDE1) Q= ,D= ,M= _____

(UDE2) Q= ,D= ,M= _____

(UDE3) Q= ,D= ,M= _____

(UDE4) Q= ,D= ,M= _____

(UDE5) Q= ,D= ,M= _____

(UDE6) Q= ,D= ,M= _____

(UDE7) Q= ,D= ,M= _____

(UDE8) Q= ,D= ,M= _____

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 settings for D and Q-bits are 0, a ? in the entry indicates that any user data is acceptable).

(UDM0) Q= ,D= ,M= _____

(UDM1) Q= ,D= ,M= _____

(UDM2) Q= ,D= ,M= _____

(UDM3) Q= ,D= ,M= _____

(UDM4) Q= ,D= ,M= _____

(UDM5) Q= ,D= ,M= _____

(UDM6) Q= ,D= ,M= _____

(UDM7) Q= ,D= ,M= _____

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

(UDM8) Q= ,D= ,M= _____

2.18 Specify a partially full data packet with M-bit set which would otherwise (M-bit = 0) be acceptable to the IUT.

(UDMP) Q= ,D= ,M= _____

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).

(UD1) 1 octet _____

(UD3) 3 octets _____

(UD16)16 octets _____

(UD17)17 octets _____

(UD32)32 octets _____

(UD110)110 octets _____

_____

_____

(UD128)128 octets _____

_____

_____

(UD129)129 octets _____

_____

_____

(UDNS) _____ Note 6

_____

_____

Full document details: ISO_IEC 8882-3_1991

PIXIT PROFORMA

Miscellaneous Information

2.20 Provide Interrupt User Data (one octet for X.25 1980 and upto 32 octets for X.25 1984 and ISO 8208) to be carried in Interrupt packets:

a) IUT transmits (Tester receives)

(UD_I_IUT) _____

b) IUT receives (Tester transmits)

(UD_I_TST) _____

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.

a)	<IUT!CALL>	Call Request	yes / no
b)	<IUT!DATA>	Data	yes / no
c)	<IUT!INT>	Interrupt	yes / no
d)	<IUT!RESTARTC>	Restart Confirm	yes / no
e)	<IUT!RESTART>	Restart	yes / no
f)	<IUT!REG>	Registration	yes / no

Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

PIXIT PROFORMA

NOTES

1. 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.

2. Value should be indicated in hexadecimal.

3. All times are to be given in seconds.

4. 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.

5. 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 P22_105 as an example).

6. A packet containing the number of octets equal to that of the Nonstandard Default packet size, see PIXIT 1.10.

7. 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.

8. 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.

9 If a value is not provided a logical channel will be assigned by selecting the lowest channel in the first available logical channel group choosen in the following order, Incoming, Twoway, PVC.

10 The facility information provided must be syntactically correct and acceptable to the IUT. Facilities may be repeated to achieve the required length.

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

6.12 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 3 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 hightly 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 (IUT!CALL), 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.

6.13 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.

6.14 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; this selection is based on answers given in the PICS and PIXIT proformas and the corresponding entries in the PICS and PIXIT cross reference tables, see clause 8.

Table 3 — 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
RR	x	x	x	x	x	x	x	x
RNR	x	x	x	x	x	x	x	x

Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

Table 4 — Basic interconnection tests

Test case identifier	Test purpose
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

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

7 TTCN abstract test suite

Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

Test Suite Overview			
Suite Name:PACKET Standards ref:ISO 8208, CCITT X.25 1980 and 1984, ISO/IEC 9646 PICS proforma ref:ISO 8208/AD3 PIXIT proforma ref:IS 8882-3 PIXIT Proforma PICS/PIXIT use:IS 8882-3 clause Use of PICS and PIXIT Cross Reference Table Test Method(s):Remote Single Layer Comments:			
Test Case Id.	Test Case Reference	Page	Description
P1_101	PACKET/R1/PROPER/P01	0095	Verify the IUT accepts a Restart Indication in R1
P1_102 #	PACKET/R1/PROPER/P02	0096	Verify the IUT does not respond to a Diagnostic packet received in state R1
P1_201A #	PACKET/R1/IMPROPER/P01A	0097	Verify the IUT discards an Incoming Call packet with LCI=0 while in state R1
P1_201B #	PACKET/R1/IMPROPER/P01B	0098	Verify the IUT discards a Call Connected packet with LCI=0 while in state R1
P1_201C #	PACKET/R1/IMPROPER/P01C	0099	Verify the IUT discards a Clear Indication packet with LCI=0 while in state R1
P1_201D #	PACKET/R1/IMPROPER/P01D	0100	Verify the IUT discards a Clear Confirmation packet with LCI equal to zero while in state R1
P1_201E #	PACKET/R1/IMPROPER/P01E	0101	Verify the IUT discards a Data packet with LCI=0 while in state R1
P1_201F #	PACKET/R1/IMPROPER/P01F	0102	Verify the IUT discards an Interrupt packet with LCI=0 while in state R1
P1_201G #	PACKET/R1/IMPROPER/P01G	0103	Verify the IUT discards an Interrupt Confirmation packet with LCI=0 while in state R1
P1_201H #	PACKET/R1/IMPROPER/P01H	0104	Verify the IUT discards an Receiver Ready (RR) packet with LCI=0 while in state R1
P1_201I #	PACKET/R1/IMPROPER/P01I	0105	Verify the IUT discards an Receiver Not Ready (RNR) packet with LCI=0 while in state R1
P1_201J #	PACKET/R1/IMPROPER/P01J	0106	Verify the IUT discards a Reset Indication packet with LCI=0 while in state R1

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
P1_201K #	PACKET/R1/IMPROPER/P01K	0107	Verify the IUT discards a Reset Confirmation packet with LCI=0 while in state R1
P1_201L #	PACKET/R1/IMPROPER/P01L	0108	Verify the IUT discards a Reject packet with LCI=0 while in state R1
P1_202 # #	PACKET/R1/IMPROPER/P02	0108	Verify the IUT discards or Restarts a too short Restart Indication (no cause code or diagnostic fields) packet received in state R1
P1_203 #	PACKET/R1/IMPROPER/P03	0109	Verify the IUT discards or Restarts a too long Restart (one octet after the Diagnostic field) received in state R1
P1_204 # #	PACKET/R1/IMPROPER/P04	0110	Verify the IUT discards or Restarts a too long Restart Confirmation (one octet appended to the end of the packet) received in state R1
P1_206 #	PACKET/R1/IMPROPER/P06	0111	Verify the IUT discards a Diagnostic packet with an assigned LCN not equal to zero received in state R1
P1_207 #	PACKET/R1/IMPROPER/P07	0112	Verify the IUT discards a too short Diagnostic packet (no diagnostic or explanation fields) received in state R1
P1_208 # #	PACKET/R1/IMPROPER/P08	0112	Verify the IUT discards a too long Diagnostic packet (explanation field of three octets plus one appended octet) received in state R1
P1_209 #	PACKET/R1/IMPROPER/P09	0113	Verify the IUT discards packet of length one octet received in state R1
P1_210 #	PACKET/R1/IMPROPER/P10	0114	Verify the IUT discards Restart Indications with an invalid GFI received in state R1
P1_211A #	PACKET/R1/IMPROPER/P11A	0115	Verify the IUT discards a Incoming Call with unassigned LCI received in state R1
P1_211B #	PACKET/R1/IMPROPER/P11B	0116	Verify the IUT discards a Call Connected packet with unassigned LCI received in state R1
P1_211C #	PACKET/R1/IMPROPER/P11C	0116	Verify the IUT discards a Clear Indication with unassigned LCI received in state R1
P1_211D #	PACKET/R1/IMPROPER/P11D	0117	Verify the IUT discards a Clear Confirmation with unassigned LCI received in state R1
P1_211E	PACKET/R1/IMPROPER/P11E	0117	Verify the IUT discards a Data packet with unassigned LCI

Continued on next page .....

AVA Documents
Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
#			received in state R1
P1_211F	PACKET/R1/IMPROPER/P11F	0118	Verify the IUT discards a Interrupt packet with unassigned LCI received in state R1
#			
P1_211G	PACKET/R1/IMPROPER/P11G	0118	Verify the IUT discards a Interrupt Confirmation with unassigned LCI received in state R1
#			
P1_211H	PACKET/R1/IMPROPER/P11H	0119	Verify the IUT discards a Receive Ready (RR) with unassigned LCI received in state R1
#			
P1_211I	PACKET/R1/IMPROPER/P11I	0119	Verify the IUT discards a Receive Not Ready (RNR) with unassigned LCI received in state R1
#			
P1_211J	PACKET/R1/IMPROPER/P11J	0120	Verify the IUT discards a Reset Indication with unassigned LCI received in state R1
#			
P1_211K	PACKET/R1/IMPROPER/P11K	0120	Verify the IUT discards a Reset Confirmation with unassigned LCI received in state R1
#			
P1_211L	PACKET/R1/IMPROPER/P11L	0121	Verify the IUT discards a Reject packet with unassigned LCI received in state R1
#			
P1_301	PACKET/R1/INOPPORTUNE/P01	0122	Verify the IUT restarts a Restart Confirmation with the correct diagnostic code received in state R1.
#			
P2_101	PACKET/R2/PROPER/P01	0124	Verify the R2 to R1 transition via Restart Indication
P2_102	PACKET/R2/PROPER/P02	0124	Verify the R2 to R1 transition via Restart Confirmation
P2_103	PACKET/R2/PROPER/P03	0125	Verify the IUT does not respond to a Diagnostic packet received in state R2
#			
P2_201	PACKET/R2/IMPROPER/P01	0125	Verify the IUT discards a packet of length two octets received in state R2
#			
P2_202A	PACKET/R2/IMPROPER/P02A	0126	Verify the IUT discards an Incoming Call with LCI=0 received in state R2
#			
P2_202B	PACKET/R2/IMPROPER/P02B	0126	Verify the IUT discards a Call Connected packet with LCI=0 received in state R2
#			
P2_202C	PACKET/R2/IMPROPER/P02C	0127	Verify the IUT discards a Clear Indication with LCI=0 received in state R2
#			
P2_202D	PACKET/R2/IMPROPER/P02D	0127	Verify the IUT discards a Clear Confirmation with LCI=0 received in state R2
#			
P2_202E	PACKET/R2/IMPROPER/P02E	0128	Verify the IUT discards a Data packet with LCI=0 received in

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
#			state R2
P2_202F	PACKET/R2/IMPROPER/P02F	0128	Verify the IUT discards an Interrupt packet with LCI=0
#			received in state R2
P2_202G	PACKET/R2/IMPROPER/P02G	0129	Verify the IUT discards an Interrupt Confirmation with LCI=0
#			received in state R2
P2_202H	PACKET/R2/IMPROPER/P02H	0129	Verify the IUT discards a Receive Ready (RR) with LCI=0
#			received in state R2
P2_202I	PACKET/R2/IMPROPER/P02I	0130	Verify the IUT discards a Receive Not Ready (RNR) with LCI=0
#			received in state R2
P2_202J	PACKET/R2/IMPROPER/P02J	0130	Verify the IUT discards a Reset Indication with LCI=0 received
#			in state R2
P2_202K	PACKET/R2/IMPROPER/P02K	0131	Verify the IUT discards a Reset Confirmation with LCI=0
#			received in state R2
P2_202L	PACKET/R2/IMPROPER/P02L	0131	Verify the IUT discards a Reject packet with LCI=0 received in
#			state R2
P2_203A	PACKET/R2/IMPROPER/P03A	0132	Verify the IUT discards an unidentified packet on logical
#			channel zero received in state R2
P2_203B	PACKET/R2/IMPROPER/P03B	0132	Verify the IUT discards an unidentified packet on a valid
#			logical channel received in state R2
P2_203C	PACKET/R2/IMPROPER/P03C	0133	Verify the IUT discards an unidentified packet on an
#			unassigned logical channel received in state R2
P2_204	PACKET/R2/IMPROPER/P04	0133	Verify the IUT discards a Restart Indication with LCI not
#			equal to zero received in state R2
P2_205	PACKET/R2/IMPROPER/P05	0134	Verify the IUT discards a Restart Confirmation with LCI not
#			equal to zero received in state R2
P2_206	PACKET/R2/IMPROPER/P06	0134	Verify the IUT Restarts a too short Restart Indication
#			received in state R2
P2_207	PACKET/R2/IMPROPER/P07	0135	Verify the IUT Restarts a too long Restart Indication received
#			in state R2
P2_208	PACKET/R2/IMPROPER/P08	0135	Verify the IUT Restarts a too long Restart Confirmation
#			received in state R2
P2_210	PACKET/R2/IMPROPER/P10	0136	Verify the IUT does not respond to a Diagnostic packet on an

Continued on next page .....

AVA Documents
Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
#			assigned LCI not equal to zero received in state R2
P2_211	PACKET/R2/IMPROPER/P11	0136	Verify the IUT discards a too short Diagnostic packet (no Diagnostic code or Explanation fields) received in state R2
#			
P2_212	PACKET/R2/IMPROPER/P12	0137	Verify the IUT discards a too long Diagnostic packet (explanation field of three octets plus one appended octet) received in state R2
#			
#			
P2_213	PACKET/R2/IMPROPER/P13	0137	Verify the IUT discards a too short packet (length of one octet) received in state R2
#			
P2_214	PACKET/R2/IMPROPER/P14	0138	Verify the IUT discards Restart Indications with an invalid GFI received in state R2
#			
P2_215A	PACKET/R2/IMPROPER/P15A	0139	Verify the IUT discards an Incoming Call on an unassigned LCI received in state R2
#			
P2_215B	PACKET/R2/IMPROPER/P15B	0139	Verify the IUT discards a Call Connected packet on an unassigned LCI received in state R2
#			
P2_215C	PACKET/R2/IMPROPER/P15C	0140	Verify the IUT discards a Clear Indication on an unassigned LCI received in state R2
#			
P2_215D	PACKET/R2/IMPROPER/P15D	0140	Verify the IUT discards a Clear Confirmation on an unassigned LCI received in state R2
#			
P2_215E	PACKET/R2/IMPROPER/P15E	0141	Verify the IUT discards a Data packet on an unassigned LCI received in state R2
#			
P2_215F	PACKET/R2/IMPROPER/P15F	0141	Verify the IUT discards a Interrupt packet on an unassigned LCI received in state R2
#			
P2_215G	PACKET/R2/IMPROPER/P15G	0142	Verify the IUT discards an Interrupt Confirmation on an unassigned LCI received in state R2
#			
P2_215H	PACKET/R2/IMPROPER/P15H	0142	Verify the IUT discards a Receive Ready (RR) on an unassigned LCI received in state R2
#			
P2_215I	PACKET/R2/IMPROPER/P15I	0143	Verify the IUT discards a Receive Not Ready (RNR) on an unassigned LCI received in state R2
#			
P2_215J	PACKET/R2/IMPROPER/P15J	0143	Verify the IUT discards a Reset Indication on an unassigned LCI received in state R2
#			
P2_215K	PACKET/R2/IMPROPER/P15K	0144	Verify the IUT discards a Reset Confirmation on an unassigned LCI received in state R2
#			

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991

AVA Documents
Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
P2_215L #	PACKET/R2/IMPROPER/P15L	0144	Verify the IUT discards a Reject packet on an unassigned LCI received in state R2
P2_215M #	PACKET/R2/IMPROPER/P15M	0145	Verify the IUT discards a Restart Indication on an unassigned LCI received in state R2
P2_215N #	PACKET/R2/IMPROPER/P15N	0145	Verify the IUT discards a Restart Confirmation on an unassigned LCI received in state R2
P2_301A	PACKET/R2/INOPPORTUNE/P01A	0146	Verify the IUT discards an Incoming Call received in state R2
P2_301B #	PACKET/R2/INOPPORTUNE/P01B	0146	Verify the IUT discards a Call Connected packet received in state R2
P2_301C #	PACKET/R2/INOPPORTUNE/P01C	0147	Verify the IUT discards a Clear Indication received in state R2
P2_301D #	PACKET/R2/INOPPORTUNE/P01D	0147	Verify the IUT discards a Clear Confirmation received in state R2
P2_301E	PACKET/R2/INOPPORTUNE/P01E	0148	Verify the IUT discards a Data packet received in state R2
P2_301F	PACKET/R2/INOPPORTUNE/P01F	0148	Verify the IUT discards an Interrupt received in state R2
P2_301G #	PACKET/R2/INOPPORTUNE/P01G	0149	Verify the IUT discards an Interrupt Confirmation received in state R2
P2_301H #	PACKET/R2/INOPPORTUNE/P01H	0149	Verify the IUT discards a Receive Ready (RR) received in state R2
P2_301I #	PACKET/R2/INOPPORTUNE/P01I	0150	Verify the IUT discards a Receive Not Ready (RNR) received in state R2
P2_301J #	PACKET/R2/INOPPORTUNE/P01J	0150	Verify the IUT discards a Reset Indication received in state R2
P2_301K #	PACKET/R2/INOPPORTUNE/P01K	0151	Verify the IUT discards a Reset Confirmation received in state R2
P2_301L	PACKET/R2/INOPPORTUNE/P01L	0151	Verify the IUT discards a Reject packet received in state R2
P3_101 #	PACKET/R3/PROPER/P01	0153	Verify the IUT accepts a valid Diagnostic packet received in state R3
P3_201 #	PACKET/R3/IMPROPER/P01	0154	Verify the IUT Restarts or discards a packet of length two octets received in state R3
P3_202A #	PACKET/R3/IMPROPER/P02A	0155	Verify the IUT discards an Incoming Call with LCI=0 received state in R3

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991
AVA Documents
Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
P3_202B #	PACKET/R3/IMPROPER/P02B	0156	Verify the IUT discards a Call Connected packet with LCI=0 received state in R3
P3_202C #	PACKET/R3/IMPROPER/P02C	0157	Verify the IUT discards a Clear Indication with LCI=0 received state in R3
P3_202D #	PACKET/R3/IMPROPER/P02D	0158	Verify the IUT discards a Clear Confirmation with LCI=0 received state in R3
P3_202E #	PACKET/R3/IMPROPER/P02E	0159	Verify the IUT discards a Data packet with LCI=0 received state in R3
P3_202F #	PACKET/R3/IMPROPER/P02F	0160	Verify the IUT discards an Interrupt packet with LCI=0 received state in R3
P3_202G #	PACKET/R3/IMPROPER/P02G	0161	Verify the IUT discards an Interrupt Confirmation with LCI=0 received state in R3
P3_202H #	PACKET/R3/IMPROPER/P02H	0162	Verify the IUT discards a Receive Ready (RR) with LCI=0 received state in R3
P3_202I #	PACKET/R3/IMPROPER/P02I	0163	Verify the IUT discards a Receive Not Ready (RNR) packet with LCI=0 received state in R3
P3_202J #	PACKET/R3/IMPROPER/P02J	0164	Verify the IUT discards a Reset Indication with LCI=0 received state in R3
P3_202K #	PACKET/R3/IMPROPER/P02K	0165	Verify the IUT discards a Reset Confirmation with LCI=0 received state in R3
P3_202L #	PACKET/R3/IMPROPER/P02L	0166	Verify the IUT discards a Reject packet with LCI=0 received state in R3
P3_203A #	PACKET/R3/IMPROPER/P03A	0167	Verify the IUT Restarts or discards an unidentified packet on logical channel zero received in state R3
P3_203B #	PACKET/R3/IMPROPER/P03B	0168	Verify the IUT Restarts or discards an unidentified packet on a valid logical channel received in state R3
P3_203C #	PACKET/R3/IMPROPER/P03C	0169	Verify the IUT Restarts or discards an unidentified packet on an unassigned logical channel received in state R3
P3_204 #	PACKET/R3/IMPROPER/P04	0170	Verify IUT Restarts a Restart Indication with an assigned LCI not equal to zero, received in state R3
P3_205 #	PACKET/R3/IMPROPER/P05	0171	Verify the IUT Restarts a Restart Confirmation with an assigned LCI not equal to zero received in state R3

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991

AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
P3_206 #	PACKET/R3/IMPROPER/P06	0172	Verify the IUT discards a too short Restart Indication received in state R3
P3_207 #	PACKET/R3/IMPROPER/P07	0173	Verify the IUT discards a too long Restart Indication received in state R3
P3_208 #	PACKET/R3/IMPROPER/P08	0174	Verify the IUT discards a too long Restart Confirmation received in state R3
P3_210 #	PACKET/R3/IMPROPER/P10	0175	Verify the IUT discards a Diagnostic packet with an assigned LCI not equal to zero received in state R3
P3_211 #	PACKET/R3/IMPROPER/P11	0176	Verify the IUT discards a too short Diagnostic packet received in state R3
P3_212 #	PACKET/R3/IMPROPER/P12	0177	Verify the IUT discards a too long Diagnostic packet received in state R3
P3_213 #	PACKET/R3/IMPROPER/P13	0178	Verify the IUT discards a too short packet received in state R3
P3_214 #	PACKET/R3/IMPROPER/P14	0179	Verify the IUT discards Restart Indications with an invalid GFI received in state R3
P3_215A #	PACKET/R3/IMPROPER/P15A	0181	Verify the IUT discards an Incoming Call on an unassigned logical channel received in state R3
P3_215B #	PACKET/R3/IMPROPER/P15B	0182	Verify the IUT discards a Call Connected packet on an unassigned logical channel received in state R3
P3_215C #	PACKET/R3/IMPROPER/P15C	0183	Verify the IUT discards a Clear Indication on an unassigned logical channel received in state R3
P3_215D #	PACKET/R3/IMPROPER/P15D	0184	Verify the IUT discards a Clear Confirmation on an unassigned logical channel received in state R3
P3_215E #	PACKET/R3/IMPROPER/P15E	0185	Verify the IUT discards a Data packet on an unassigned logical channel received in state R3
P3_215F #	PACKET/R3/IMPROPER/P15F	0186	Verify the IUT discards an Interrupt on an unassigned logical channel received in state R3
P3_215G #	PACKET/R3/IMPROPER/P15G	0187	Verify the IUT discard an Interrupt Confirmation on an unassigned logical channel received in state R3
P3_215H #	PACKET/R3/IMPROPER/P15H	0188	Verify the IUT discards a Receive Ready (RR) on an unassigned logical channel received in state R3

Continued on next page .....

AVA Documents
Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
P3_215I #	PACKET/R3/IMPROPER/P15I	0189	Verify the IUT discards a Receive Not Ready (RNR) on an unassigned logical channel received in state R3
P3_215J #	PACKET/R3/IMPROPER/P15J	0190	Verify the IUT discards a Reset Indication on an unassigned logical channel received in state R3
P3_215K #	PACKET/R3/IMPROPER/P15K	0191	Verify the IUT discards a Reset Confirmation on an unassigned logical channel received in state R3
P3_215L #	PACKET/R3/IMPROPER/P15L	0192	Verify the IUT discards a Reject on an unassigned logical channel received in state R3
P3_215M #	PACKET/R3/IMPROPER/P15M	0193	Verify the IUT discards a Restart on an unassigned logical channel received in state R3
P3_215N #	PACKET/R3/IMPROPER/P15N	0194	Verify the IUT discards a Restart Confirmation on an unassigned logical channel received in state R3
P3_301 #	PACKET/R3/INOPPORTUNE/P01	0195	Verify the IUT discards a Restart Indication received in state R3
P3_302 #	PACKET/R3/INOPPORTUNE/P02	0196	Verify the IUT Restarts a Restart Confirmation received in state R3
P3_303A	PACKET/R3/INOPPORTUNE/P03A	0197	Verify the IUT Restarts an Incoming Call received in state R3
P3_303B #	PACKET/R3/INOPPORTUNE/P03B	0198	Verify the IUT Restarts a Call Connected packet received in state R3
P3_303C #	PACKET/R3/INOPPORTUNE/P03C	0199	Verify the IUT Restarts a Clear Indication received in state R3
P3_303D #	PACKET/R3/INOPPORTUNE/P03D	0200	Verify the IUT Restarts a Clear Confirmation received in state R3
P3_303E	PACKET/R3/INOPPORTUNE/P03E	0201	Verify the IUT Restarts a Data packet received in state R3
P3_303F #	PACKET/R3/INOPPORTUNE/P03F	0202	Verify the IUT Restarts an Interrupt packet received in state R3
P3_303G #	PACKET/R3/INOPPORTUNE/P03G	0203	Verify the IUT Restarts an Interrupt Confirmation received in state R3
P3_303H #	PACKET/R3/INOPPORTUNE/P03H	0204	Verify the IUT Restarts a Receive Ready (RR) packet received in state R3
P3_303I #	PACKET/R3/INOPPORTUNE/P03I	0205	Verify the IUT Restarts a Receive Not Ready (RNR) packet received in state R3

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991

AVA Documents Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
P3_303J #	PACKET/R3/INOPPORTUNE/P03J	0206	Verify the IUT Restarts a Reset Indication received in state R3
P3_303K #	PACKET/R3/INOPPORTUNE/P03K	0207	Verify the IUT Restarts a Reset Confirmation received in state R3
P3_303L	PACKET/R3/INOPPORTUNE/P03L	0208	Verify the IUT Restarts a Reject packet received in state R3
P4_101 #	PACKET/P1/PROPER/P01	0210	Verify the IUT accepts a valid Incoming Call received in state P1
P4_103 #	PACKET/P1/PROPER/P03	0210	Verify that the IUT confirms a CLEAR with cause '01'H received in state P1
P4_104 #	PACKET/P1/PROPER/P04	0211	Verify that the IUT confirms a CLEAR with cause '05'H received in state P1
P4_105 #	PACKET/P1/PROPER/P05	0212	Verify that the IUT confirms a Clear with cause '11'H received in state P1
P4_106 #	PACKET/P1/PROPER/P06	0213	Verify that the IUT confirms a Clear with cause '13'H received in state P1
P4_107 #	PACKET/P1/PROPER/P07	0214	Verify the IUT confirms a Clear with cause '21'H received in state P1
P4_201 #	PACKET/P1/IMPROPER/P01	0215	Verify the IUT clears a packet of length two octets received in state P1
P4_202 #	PACKET/P1/IMPROPER/P02	0216	Verify that the IUT clears a packet of unidentified type in state P1.
P4_203 #	PACKET/P1/IMPROPER/P03	0217	Verify that the IUT clears a Restart packet with an assigned LCI not equal to zero received in state P1
P4_204 #	PACKET/P1/IMPROPER/P04	0218	Verify that the IUT clears a Restart Confirm packet received on an assigned LCI not equal to zero while in state P1.
P4_205 #	PACKET/P1/IMPROPER/P05	0219	Verify that the IUT clears a too short Incoming Call packet received in state P1
P4_206 #	PACKET/P1/IMPROPER/P06	0220	Verify the IUT clears a too long Incoming Call packet (user data field of 17 or 129 octets) while in state P1
P4_207 #	PACKET/P1/IMPROPER/P07	0221	Verify the IUT clears a too long Call Connected packet (user data field of 1 or 129 octets) while in state P1
P4_208	PACKET/P1/IMPROPER/P08	0222	Verify the IUT clears a too short Clear Indication packet (no

Continued on next page .....

AVA Documents
Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
#			cause code or diagnostic code fields) while in state P1.
P4_209	PACKET/P1/IMPROPER/P09	0223	Verify that the IUT clears a too long Clear Indication packet while in state P1.
P4_210	PACKET/P1/IMPROPER/P10	0224	Verify that the IUT clears a too long Clear Confirmation packet (110 octets appended to the end of the packet) while in P1
#			
P4_301	PACKET/P1/INOPPORTUNE/P01	0225	Verify the IUT clears a Call Connected packet received in state P1
#			
P4_302	PACKET/P1/INOPPORTUNE/P02	0225	Verify the IUT clears a Clear Confirm packet received in state P1
#			
P4_305	PACKET/P1/INOPPORTUNE/P05	0226	Verify the IUT clears a Interrupt Confirmation packet received in state P1
#			
P4_306	PACKET/P1/INOPPORTUNE/P06	0226	Verify the IUT clears an RR packet received in state P1
P4_307	PACKET/P1/INOPPORTUNE/P07	0227	Verify the IUT clears an RNR packet received in state P1
P4_308	PACKET/P1/INOPPORTUNE/P08	0227	Verify the IUT clears a Reset packet received in state P1
P4_309	PACKET/P1/INOPPORTUNE/P09	0228	Verify the IUT clears a Reset Confirmation packet received in state P1
#			
P4_310	PACKET/P1/INOPPORTUNE/P10	0228	Verify the IUT clears an Interrupt packet received in state P1
P5_101	PACKET/P2/PROPER/P01	0230	Verify the IUT correctly handles an Incoming Call received in state P2
#			
P5_103	PACKET/P2/PROPER/P03	0230	Verify the IUT accepts a Call Connected packet while in P2.
P5_104	PACKET/P2/PROPER/P04	0231	Verify the IUT confirms a Clear with cause code of '01'H received in state P2
#			
P5_105	PACKET/P2/PROPER/P05	0232	Verify the IUT confirms a Clear with cause code of '05'H received in state P2
#			
P5_106	PACKET/P2/PROPER/P06	0233	Verify the IUT confirms a Clear with cause code of '11'H received in state P2
#			
P5_107	PACKET/P2/PROPER/P07	0234	Verify the IUT confirms a Clear with cause code of '13'H received in state P2
#			
P5_108	PACKET/P2/PROPER/P08	0235	Verify the IUT confirms a Clear with cause code of '21'H received in state P2
#			
P5_201	PACKET/P2/IMPROPER/P01	0236	Verify the IUT clears a packet of length two octets received

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991

AVA Documents Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
#			in state P2
P5_202	PACKET/P2/IMPROPER/P02	0237	Verify the IUT clears a packet with an undefined PTI field
#			received in state P2
P5_203	PACKET/P2/IMPROPER/P03	0238	Verify the IUT Clears a Restart Indication with LCI<>0
#			received in state P2
P5_204	PACKET/P2/IMPROPER/P04	0239	Verify the IUT clears a Restart Confirmation with LCI<>0
#			received in state P2
P5_205	PACKET/P2/IMPROPER/P05	0240	Verify the IUT clears or discards a too short Incoming Call
#			received in state P2
P5_206	PACKET/P2/IMPROPER/P06	0241	Verify the IUT clears or discards a too long Incoming Call
#			packet (user data field of 17 or 129 octets) received in state
#			P2
P5_207	PACKET/P2/IMPROPER/P07	0243	Verify the IUT clears a too long Call Connected packet (user
#			date field of 1 or 129 octets) received in state P2
P5_208	PACKET/P2/IMPROPER/P08	0244	Verify the IUT clears a too short Clear Indication packet (no
#			cause code or diagnostic code) received in state P2
P5_209	PACKET/P2/IMPROPER/P09	0245	Verify the IUT clears a too long Clear Indication packet
#			received in state P2
P5_210	PACKET/P2/IMPROPER/P10	0246	Verify the IUT clears a too long Clear Confirmation packet
#			received in state P2
P5_301	PACKET/P2/INOPPORTUNE/P01	0247	Verify the IUT clears a Clear Confirmation packet with valid
#			Logical Channel Identifier while in state P2
P5_302	PACKET/P2/INOPPORTUNE/P02	0247	Verify the IUT clears a Data packet with valid Logical Channel
#			Identifier while in state P2
P5_303	PACKET/P2/INOPPORTUNE/P03	0248	Verify the IUT clears an Interrupt packet with valid Logical
#			Channel Identifier while in state P2
P5_304	PACKET/P2/INOPPORTUNE/P04	0248	Verify the IUT clears an Interrupt Confirmation packet with
#			valid Logical Channel Identifier while in state P2
P5_305	PACKET/P2/INOPPORTUNE/P05	0249	Verify the IUT clears an RR packet with valid Logical Channel
#			Identifier while in state P2
P5_306	PACKET/P2/INOPPORTUNE/P06	0249	Verify the IUT clears a RNR packet with valid Logical Channel
#			Identifier while in state P2

Continued on next page .....

AVA Documents
Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
P5_307 #	PACKET/P2/INOPPORTUNE/P07	0250	Verify the IUT clears a Reset packet with valid Logical Channel Identifier while in state P2
P5_308 #	PACKET/P2/INOPPORTUNE/P08	0250	Verify that the IUT clears a Reset Confirm packet with valid Logical Channel Identifier while in state P2
P6_101 #	PACKET/P3/PROPER/P01	0252	Verify the IUT confirms a Clear with cause '01'H received in state P3
P6_102 #	PACKET/P3/PROPER/P02	0253	Verify the IUT confirms a CLEAR with cause '05'H received in state P3
P6_103 #	PACKET/P3/PROPER/P03	0254	Verify the IUT confirms a CLEAR with cause '11'H received in state P3
P6_104 #	PACKET/P3/PROPER/P04	0255	Verify the IUT confirms a CLEAR with cause '13'H received in state P3
P6_105 #	PACKET/P3/PROPER/P05	0256	Verify the IUT confirms a CLEAR with cause '21'H received in state P3
P6_201 #	PACKET/P3/IMPROPER/P01	0257	Verify the IUT clears a too short packet with length two octets received in state P3
P6_202 #	PACKET/P3/IMPROPER/P02	0258	Verify the IUT clears a packet of undefined type received in state P3
P6_203 #	PACKET/P3/IMPROPER/P03	0259	Verify the IUT clears a Restart packet on an assigned LCI not equal to zero received in state P3
P6_204 #	PACKET/P3/IMPROPER/P04	0260	Verify the IUT clears a Restart Confirmation packet on an assigned LCI not equal to zero received in state P3
P6_205 #	PACKET/P3/IMPROPER/P05	0261	Verify the IUT clears a too short Incoming Call packet received in P3
P6_206 #	PACKET/P3/IMPROPER/P06	0262	Verify the IUT clears a too long Incoming Call packet (user data field of 17 or 129 octets) received in state P3
P6_207 #	PACKET/P3/IMPROPER/P07	0263	Verify the IUT clears a too long Call Connected packet (user data field of 1 or 129 octets) received in state P3
P6_208 #	PACKET/P3/IMPROPER/P08	0264	Verify the IUT clears a too short Clear Indication packet (no cause code or diagnostic code fields) received in state P3
P6_209 #	PACKET/P3/IMPROPER/P09	0265	Verify the IUT clears a too long Clear Indication packet received in state P3

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991

AVA Documents Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
P6_210 # #	PACKET/P3/IMPROPER/P10	0266	Verify the IUT clears a too long Clear Confirmation packet (110 octets appended to the end of the packet) received in state P3
P6_301	PACKET/P3/INOPPORTUNE/P01	0267	Verify the IUT clears an Incoming Call received in state P3
P6_303 #	PACKET/P3/INOPPORTUNE/P03	0267	Verify the IUT clears a Call Connected packet received in state P3
P6_304 #	PACKET/P3/INOPPORTUNE/P04	0268	Verify the IUT clears a Clear Confirmation packet received in state P3
P6_305	PACKET/P3/INOPPORTUNE/P05	0268	Verify the IUT clears a Data packet received in state P3
P6_306	PACKET/P3/INOPPORTUNE/P06	0269	Verify the IUT clears an Interrupt packet received in state P3
P6_307 #	PACKET/P3/INOPPORTUNE/P07	0269	Verify the IUT clears an Interrupt Confirm received in state P3
P6_308	PACKET/P3/INOPPORTUNE/P08	0270	Verify the IUT clears an RR packet received in state P3
P6_309	PACKET/P3/INOPPORTUNE/P09	0270	Verify the IUT clears an RNR packet received in state P3
P6_310	PACKET/P3/INOPPORTUNE/P10	0271	Verify the IUT clears a Reset Indication received in state P3
P6_311 #	PACKET/P3/INOPPORTUNE/P11	0271	Verify the IUT clears a Reset Confirmation received in state P3
P7_101 #	PACKET/P4/PROPER/P01	0273	Verify the IUT acknowledges a Clear with cause code '01'H received in state P4
P7_102 #	PACKET/P4/PROPER/P02	0274	Verify the IUT acknowledges a Clear with cause code '05'H while in state P4
P7_103 #	PACKET/P4/PROPER/P03	0275	Verify the IUT acknowledges a Clear with cause code '11'H while in state P4
P7_104 #	PACKET/P4/PROPER/P04	0276	Verify the IUT acknowledges a Clear with cause code '13'H received in state P4
P7_105 #	PACKET/P4/PROPER/P05	0277	Verify the IUT acknowledges a Clear with cause code '21'H while in state P4
P7_201 #	PACKET/P4/IMPROPER/P01	0278	Verify the IUT clears a too short Incoming Call packet received in state P4
P7_202 #	PACKET/P4/IMPROPER/P02	0279	Verify the IUT clears a too long Incoming Call packet (user data field of 17 or 129 octets) received in state P4
P7_203	PACKET/P4/IMPROPER/P03	0280	Verify the IUT clears a too long Call Connected packet (user

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991
AVA Documents Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
#			data field of 1 or 129 octets) received in P4
P7_204	PACKET/P4/IMPROPER/P04	0281	Verify the IUT clears a too short Clear Indication packet (no cause code or diagnostic code fields) received in state P4
#			
P7_205	PACKET/P4/IMPROPER/P05	0282	Verify the IUT clears a too long Clear Indication packet received in state P4
#			
P7_206	PACKET/P4/IMPROPER/P06	0283	Verify the IUT clears a too long Clear Confirmation packet (110 octets appended to the end of the packet) received in state P4
#			
#			
P7_301	PACKET/P4/INOPPORTUNE/P01	0284	Verify the IUT clears an Incoming Call packet received in state P4
#			
P7_303	PACKET/P4/INOPPORTUNE/P03	0285	Verify the IUT clears a Call Connected packet received in state P4
#			
P7_304	PACKET/P4/INOPPORTUNE/P04	0286	Verify the IUT clears a Clear Confirmation packet received in state P4
#			
P8_101	PACKET/P5/PROPER/P01	0288	Verify P5 to P4 transition using a Call Connected packet
P8_102	PACKET/P5/PROPER/P02	0289	Verify the IUT confirms a Clear with cause '01'H received in state P5
#			
P8_103	PACKET/P5/PROPER/P03	0290	Verify the IUT confirms a Clear with cause '05'H received in state P5
#			
P8_104	PACKET/P5/PROPER/P04	0291	Verify the IUT confirms a Clear with cause '11'H received in state P5
#			
P8_105	PACKET/P5/PROPER/P05	0292	Verify the IUT confirms a Clear with cause '13'H received in state P5
#			
P8_106	PACKET/P5/PROPER/P06	0293	Verify the IUT confirms a Clear with cause '21'H received in state P5
#			
P8_201	PACKET/P5/IMPROPER/P01	0294	Verify IUT clears a too short packet (PTI field is NIL) received in state P5
#			
P8_202	PACKET/P5/IMPROPER/P02	0295	Verify the IUT Clears a packet of undefined type (PTI equal '0D'H) received in state P5
#			
P8_203	PACKET/P5/IMPROPER/P03	0296	Verify the IUT Clears a Restart packet on an assigned LCI not equal to zero received in state P5
#			
P8_204	PACKET/P5/IMPROPER/P04	0297	Verify the IUT Clears a Restart Confirmation packet on an

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991
AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
#			assigned LCI not equal to zero received in state P5
P8_205	PACKET/P5/IMPROPER/P05	0298	Verify the IUT Clears a too short Incoming Call packet; no called address field, received in state P5
#			
P8_206	PACKET/P5/IMPROPER/P06	0299	Verify the IUT Clears or discards a too long Incoming Call packet (user data field of 17 or 129 octets) received in state P5
#			
P8_207	PACKET/P5/IMPROPER/P07	0300	Verify the IUT Clears a too long Call Connected packet (user data field of 1 or 129 octets) received in state P5
#			
P8_208	PACKET/P5/IMPROPER/P08	0301	Verify the IUT Clears a too short Clear Indication packet (no cause or diagnostic code fields) received in state P5
#			
P8_209	PACKET/P5/IMPROPER/P09	0302	Verify the IUT Clears a too long Clear Indication packet received in state P5
#			
P8_210	PACKET/P5/IMPROPER/P10	0303	Verify the IUT Clears a too long Clear Confirmation packet (110 octets appended to the end of the packet) received in state P5
#			
P8_301	PACKET/P5/INOPPORTUNE/P01	0304	Verify IUT clears an Incoming Call received in state P5
P8_303	PACKET/P5/INOPPORTUNE/P03	0304	Verify the IUT Clears a Clear Confirmation received in state P5
#			
P8_304	PACKET/P5/INOPPORTUNE/P04	0305	Verify the IUT Clears a Data packet received in state P5
P8_305	PACKET/P5/INOPPORTUNE/P05	0305	Verify the IUT Clear and Interrupt packet received in state P5
P8_306	PACKET/P5/INOPPORTUNE/P06	0306	Verify the IUT Clears an Interrupt packet received in state P5
P8_307	PACKET/P5/INOPPORTUNE/P07	0306	Verify the IUT Clears a Receiver Ready (RR) packet received in state P5
#			
P8_308	PACKET/P5/INOPPORTUNE/P08	0307	Verify the IUT Clears a Receiver Ready (RNR) packet received in state P5
#			
P8_309	PACKET/P5/INOPPORTUNE/P09	0307	Verify the IUT Clears a Reset Indication packet received in state P5
#			
P8_310	PACKET/P5/INOPPORTUNE/P10	0308	Verify the IUT Clears a Reset Confirmation packet received in state P5
#			
P9_101	PACKET/P6/PROPER/P01	0310	Verify the IUT accepts a Clear with cause code '01'H received in state P6
#			
P9_102	PACKET/P6/PROPER/P02	0310	Verify the IUT accepts a clear with cause code '05'H received

Continued on next page .....

AVA Documents
Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
#			in state P6
P9_103	PACKET/P6/PROPER/P03	0311	Verify the IUT accepts a clear with cause code '11'H received in state P6
#			
P9_104	PACKET/P6/PROPER/P04	0311	Verify the IUT accepts a clear with cause code '13'H received in state P6
#			
P9_105	PACKET/P6/PROPER/P05	0312	Verify the IUT accepts a clear with cause code '21'H received in state P6
#			
P9_106	PACKET/P6/PROPER/P06	0312	Verify the IUT accepts a valid Clear Confirmation received in state P6
#			
P9_201	PACKET/P6/IMPROPER/P01	0313	Verify the IUT discards a too short packet (two octets) received in state P6
#			
P9_202	PACKET/P6/IMPROPER/P02	0313	Verify the IUT discards an unidentifiable packet received in state P6
#			
P9_203	PACKET/P6/IMPROPER/P03	0314	Verify the IUT discards Restart (LCI <> zero) received in state P6
#			
P9_204	PACKET/P6/IMPROPER/P04	0314	Verify the IUT discards a Restart Confirmation (LCI <> zero) received in state P6
#			
P9_205	PACKET/P6/IMPROPER/P05	0315	Verify the IUT discards a too short Incoming Call (no called address field) received in state P6
#			
P9_206	PACKET/P6/IMPROPER/P06	0316	Verify the IUT discards a too long Incoming Call packet (user data field of 17 or 129 octets) received in state P6
#			
P9_207	PACKET/P6/IMPROPER/P07	0317	Verify the IUT discards a too long Call Connected packet (user data field of 1 or 129 octets) received in state P6.
#			
P9_208	PACKET/P6/IMPROPER/P08	0318	Verify the IUT Clears a too short Clear Indication packet (no cause code or diagnostic code fields) received in state P6.
#			
P9_209	PACKET/P6/IMPROPER/P09	0319	Verify the IUT Clears a too long Clear Indication packet (user data field of 129 octets) received in state P6
#			
P9_210	PACKET/P6/IMPROPER/P10	0320	Verify the IUT Clears a too long Clear Confirmation (110 octets appended to the end of the packet) received in state P6.
#			
#			
P9_301	PACKET/P6/INOPPORTUNE/P01	0321	Verify the IUT discards an Incoming Call packet received in state P6
#			

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991

AVA Documents Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
P9_303	PACKET/P6/INOPPORTUNE/P03	0321	Verify the IUT discards a Call Connected received in state P6
P9_304	PACKET/P6/INOPPORTUNE/P04	0322	Verify the IUT discards a Data packet received in state P6
P9_305 #	PACKET/P6/INOPPORTUNE/P05	0322	Verify the IUT discards an Interrupt packet received in state P6
P9_306 #	PACKET/P6/INOPPORTUNE/P06	0323	Verify the IUT discards an Interrupt Confirm received in state P6
P9_307	PACKET/P6/INOPPORTUNE/P07	0323	Verify the IUT discards an RR packet received in state P6
P9_308	PACKET/P6/INOPPORTUNE/P08	0324	Verify the IUT discards an RNR packet received in state P6
P9_309	PACKET/P6/INOPPORTUNE/P09	0324	Verify the IUT discards a Reset packet received in state P6
P9_310 #	PACKET/P6/INOPPORTUNE/P10	0325	Verify the IUT discards a Reset Confirmation received in state P6
P10_201 #	PACKET/P7/IMPROPER/P01	0327	Verify the IUT Clears a too short packet (two octets) received in state P7
P10_202 #	PACKET/P7/IMPROPER/P02	0328	Verify the IUT Clears an unidentifiable packet received in state P7
P10_203 #	PACKET/P7/IMPROPER/P03	0329	Verify the IUT Clears a Restart Indication (LCI <> zero) received in state P7
P10_204 #	PACKET/P7/IMPROPER/P04	0330	Verify the IUT Clears a Restart Confirmation (LCI <> zero) received in state P7
P10_205 #	PACKET/P7/IMPROPER/P05	0331	Verify the IUT in state P7 Clears a too short Incoming Call (no called address field) received in state P7
P10_206 #	PACKET/P7/IMPROPER/P06	0332	Verify the IUT Clears a too long Incoming Call (user data field of 17 or 129 octets) received in state P7
P10_207 #	PACKET/P7/IMPROPER/P07	0333	Verify the IUT Clears a too long Call Connected packet (user data field of 1 or 129 octets) received in state P7
P10_208 #	PACKET/P7/IMPROPER/P08	0334	Verify the IUT discards a too short Clear Indication packet (no cause or diagnostic fields) received in state P7.
P10_209 #	PACKET/P7/IMPROPER/P09	0335	Verify the IUT discards a too long Clear Indication packet (user data field of 129 octets) received in state P7
P10_210 #	PACKET/P7/IMPROPER/P10	0336	Verify the IUT Clears a too long Clear Confirmation packet (110 octets appended) received in state P7
P10_301	PACKET/P7/INOPPORTUNE/P01	0337	Verify the IUT Clears an Incoming Call received in state P7

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991
AVA Documents Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
P10_303 #	PACKET/P7/INOPPORTUNE/P03	0338	Verify the IUT Clears a Call Connected packet received in state P7
P10_304 #	PACKET/P7/INOPPORTUNE/P04	0339	Verify the IUT discards a Clear Indication with cause '01'H received in state P7
P10_305 #	PACKET/P7/INOPPORTUNE/P05	0340	Verify the IUT discards a Clear Indication with cause code '05'H received in state P7
P10_306 #	PACKET/P7/INOPPORTUNE/P06	0341	Verify the IUT discards a Clear Indication with cause '11'H received in state P7
P10_307 #	PACKET/P7/INOPPORTUNE/P07	0342	Verify the IUT discards a Clear Indication with cause '13'H received in state P7
P10_308 #	PACKET/P7/INOPPORTUNE/P08	0343	Verify the IUT discards a Clear Indication with cause '21'H received in state P7
P10_309 #	PACKET/P7/INOPPORTUNE/P09	0344	Verify the IUT clears a Clear Confirm packet received in state P7
P10_310	PACKET/P7/INOPPORTUNE/P10	0345	Verify that IUT clears a Data packet received in state P7
P10_311	PACKET/P7/INOPPORTUNE/P11	0346	Verify the IUT clears an Interrupt packet received in state P7
P10_312 #	PACKET/P7/INOPPORTUNE/P12	0347	Verify the IUT clears an Interrupt Confirmation received in state P7
P10_313	PACKET/P7/INOPPORTUNE/P13	0348	Verify the IUT clears an RR packet received in state P7
P10_314	PACKET/P7/INOPPORTUNE/P14	0349	Verify the IUT clears RNR packet received in state P7
P10_315	PACKET/P7/INOPPORTUNE/P15	0350	Verify the IUT clears a Reset packet received in state P7
P10_316 #	PACKET/P7/INOPPORTUNE/P16	0351	Verify the IUT clears a Reset Confirmation received in state P7
P11_101	PACKET/D1/PROPER/P01	0353	Verify the IUT accepts a Reset Indication received in state D1
P11_102	PACKET/D1/PROPER/P02	0354	Verify the IUT can accept Data in state D1
P11_103 #	PACKET/D1/PROPER/P03	0355	Verify the IUT can accept Data after a Reset/Reset Confirmation exchange in state D1
P11_201 #	PACKET/D1/IMPROPER/P01	0357	Verify the IUT Resets a too short packet (two octets) received in state D1
P11_202 #	PACKET/D1/IMPROPER/P02	0358	Verify the IUT Resets an unidentifiable packet (PTI field equals '0D'H) received in state D1
P11_203	PACKET/D1/IMPROPER/P03	0359	Verify the IUT Resets a Restart Indication with an assigned

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991
AVA Documents
Document Sharing Hub

Full document details: ISO_IEC 8882-3_1991

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
#			LCI not equal to zero received in state D1
P11_204	PACKET/D1/IMPROPER/P04	0360	Verify the IUT Resets a Restart Confirmation packet with an assigned LCI not equal to zero received in state D1
#			
P11_205	PACKET/D1/IMPROPER/P05	0361	Verify the IUT Resets a too short Reset Indication (Diagnostic field is NIL) received in state D1
#			
P11_206	PACKET/D1/IMPROPER/P06	0362	Verify the IUT Resets a too long Reset Indication (one octet appended) received in state D1
#			
P11_207	PACKET/D1/IMPROPER/P07	0363	Verify the IUT Resets a too long Reset Confirmation packet (one octet appended) received in state D1
#			
P11_301	PACKET/D1/INOPPORTUNE/P01	0364	Verify the IUT resets a Reset Confirmation received in state D1
#			
P11_302	PACKET/D1/INOPPORTUNE/P02	0365	Verify the IUT Resets an Incoming Call packet received on a PVC in state D1
#			
P11_303	PACKET/D1/INOPPORTUNE/P03	0366	Verify the IUT Resets a Clear Indication received on a PVC in state D1
#			
P12_101	PACKET/D2/PROPER/P01	0368	Verify the IUT changes to state D1 when a Reset Indication is received in state D2
#			
P12_102	PACKET/D2/PROPER/P02	0368	Verify the IUT is in state D1 after receiving a Reset Confirmation while in state D2
#			
P12_201	PACKET/D2/IMPROPER/P01	0369	Verify the IUT discards a too short packet (two octets) received in state D2
#			
P12_202	PACKET/D2/IMPROPER/P02	0369	Verify the IUT discards an unidentifiable packet (PTI = '0D'H) received in state D2
#			
P12_203	PACKET/D2/IMPROPER/P03	0370	Verify the IUT discards a Restart with an assigned LCI not equal to zero received in state D2
#			
P12_204	PACKET/D2/IMPROPER/P04	0370	Verify the IUT discards a Restart Confirmation with an assigned LCI not equal to zero received in state D2
#			
P12_205	PACKET/D2/IMPROPER/P05	0371	Verify the IUT Resets a too short Reset Indication received in state D2
#			
P12_206	PACKET/D2/IMPROPER/P06	0371	Verify the IUT Resets a too long Reset Indication (one octet appended) received in state D2
#			
P12_207	PACKET/D2/IMPROPER/P07	0372	Verify the IUT Resets long Reset Confirmation packet (one

Continued on next page .....

AVA Documents
Document Sharing Hub

..... Continued from previous page.

Test Case Id.	Test Case Reference	Page	Description
#			octet appended) received in state D2
P12_301	PACKET/D2/INOPPORTUNE/P01	0372	Verify the IUT discards an Interrupt packet received in state D2
#			
P12_302	PACKET/D2/INOPPORTUNE/P02	0373	Verify the IUT discards an Interrupt Confirmation packet received in state D2
#			
P12_303	PACKET/D2/INOPPORTUNE/P03	0373	Verify the IUT discards a Data packet received in D2
P12_304	PACKET/D2/INOPPORTUNE/P04	0374	Verify the IUT discards an RR packet received in D2
P12_305	PACKET/D2/INOPPORTUNE/P05	0374	Verify the IUT discards an RNR packet received in D2
P12_306	PACKET/D2/INOPPORTUNE/P06	0375	Verify the IUT discards an Incoming Call packet received on a PVC in state D2
#			
P12_307	PACKET/D2/INOPPORTUNE/P07	0375	Verify the IUT discards a Clear Indication packet received on a PVC in state D2
#			
P13_201	PACKET/D3/IMPROPER/P01	0377	Verify the IUT Resets a too short packet (two octets) received in state D3
#			
P13_202	PACKET/D3/IMPROPER/P02	0378	Verify the IUT Resets or Discards an unidentifiable packet (PTI field equals '0D'H) received in state D3
#			
P13_203	PACKET/D3/IMPROPER/P03	0379	Verify the IUT Resets a Restart with an assigned LCI not equal to zero received in state D3
#			
P13_204	PACKET/D3/IMPROPER/P04	0380	Verify the IUT Resets a Restart Confirmation on an assigned LCI not equal to zero received in state D3
#			
P13_205	PACKET/D3/IMPROPER/P05	0381	Verify the IUT Resets a too short Reset Indication (Cause field is NIL, Diagnostic field is NIL) received in state D3
#			
P13_206	PACKET/D3/IMPROPER/P06	0382	Verify the IUT Resets a too long Reset Indication (one octet appended) received in state D3
#			
P13_207	PACKET/D3/IMPROPER/P07	0383	Verify the IUT Resets a too long Reset Confirmation (one octet appended) received in state D3
#			
P13_301	PACKET/D3/INOPPORTUNE/P01	0384	Verify the IUT discards a Reset Indication received in state D3
#			
P13_302	PACKET/D3/INOPPORTUNE/P02	0385	Verify the IUT Resets a Reset Confirmation received in state D3
#			
P13_303	PACKET/D3/INOPPORTUNE/P03	0386	Verify the IUT Resets an Interrupt packet received in state D3
P13_304	PACKET/D3/INOPPORTUNE/P04	0387	Verify the IUT Resets an Interrupt Confirmation received in

Continued on next page .....

Full document details: ISO_IEC 8882-3_1991

AVA Documents
Document Sharing Hub